



# REM AS

REDÜKTÖR VE MAKİNA SANAYİİ A.Ş.



Rolling Mili Gearboxes



Hadde Redüktörleri

Elevator Drive Unit



Elevatör Tahrik Grubu

Cement Mill Main Gearbox



Çimento Değirmeni Redüktörü

Vertical Mili Gearbox



Dik Değirmen Redüktörü



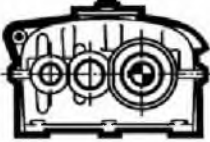
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Tip S1N Type S1N



Tek kademeli helis dişli  
redüktörler (Sayfa 08-09)  
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gear units (Page 08-09)**

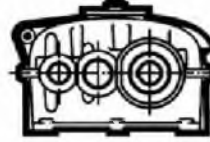
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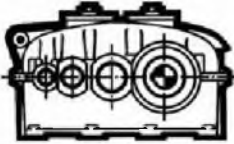


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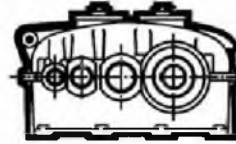
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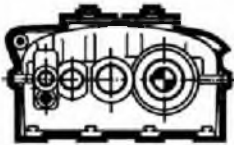


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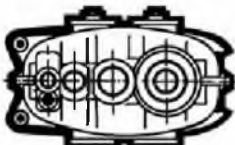


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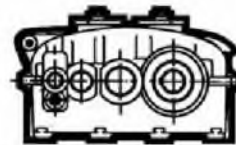
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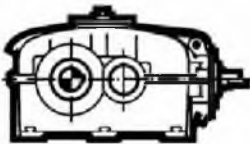


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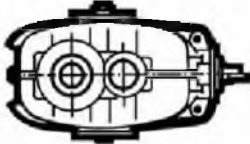


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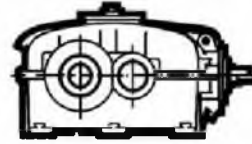
Tip K1N Type K1N



Tip K1O Type K1O

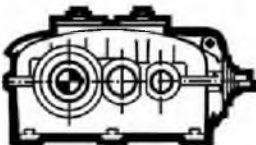


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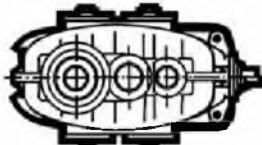


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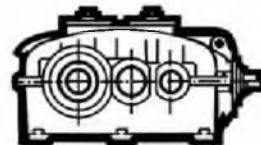
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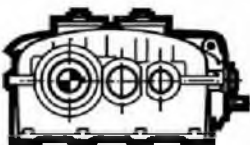


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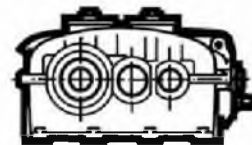


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## Yük Sınıflandırma Sembolleri

**Tablo 1** Uygulamalarda ve sanayiide kullanılan yük sembolleri listesi

|   |                                     |   |   |   |   |
|---|-------------------------------------|---|---|---|---|
| U | <b>AĞAÇ İŞLEME MAKİNALARI</b>       | A | Kayıklı konveyörler (parçalı eşyalar)           | O | Levha metal eğme makinaları                     |
| A | Ağaç işleme makinaları              | U | Kovalı konveyörler (un için)                    | O | Makaslar  |
| A | Hızır Makinaları                    | O | Levhalı konveyörler                             | U | Makina takımları aksenel hareket                |
| O | Kabuk soyucular                     | O | Link konveyörler                                | O | Makina takımları esas hareket                   |
| O | Rendeleme, planya makinaları        | O | Parça kaldırıncılar                             | A | Metal hazırlama makinaları                      |
| O | <b>ÇAMAŞIRHANELER</b>               | O | Vidalı konveyörler                              | A | Presler   |
| O | Kurutucular                         | O | Vinç çekiciler                                  | A | Zimba presi                                     |
| O | Yıkama makinaları                   | O | Yolcu kaldırıncılar                             |   | <b>PLASTİK ENDÜSTRİ MAK.LARI</b>                |
| U | <b>GIDA ENDÜSTRİ MAKİNALARI</b>     | O | Zincirli konveyörler                            | O | Ekstrüzyonlar                                   |
| U | Şişleme ve kutu doldurma makinaları | O | <b>KOMPRESÖR</b>                                | O | Kalender, mengenerler                           |
| O | Şeker kamışı kırma makinaları       | A | Pistonlu Kompresör                              | O | Karıştıncılar                                   |
| O | Şeker kamışı satırları              | O | Turbo Kompresör                                 | O | Kırma makinaları                                |
| A | Şeker kamışı değirmenleri           | O | <b>KREYNLER</b>                                 |   | <b>POMPALAR</b>                                 |
| O | Yoğurma makinaları                  | O | Döner dişli                                     | A | Basınçlı pompalar                               |
| O | Bira tekneleri, bulamaç tekneleri   | A | Gezici dişli                                    | A | Dalma pistonlu pompalar                         |
| O | kristalleştiriciler                 | U | Luffing dişli                                   | A | Pistonlu pompalar                               |
| U | Paketleme Makinaları                | O | Vinç iskele dişli (Dikme vinç kolu)             | U | Santrifüj pompalar (hafif sıvılar)              |
| O | Şeker pancarı kesicileri            | U | Yük kaldırıncı dişli                            | O | Santrifüj pompalar (yarı sıvılar)               |
| O | Şeker pancarı yıkama makinaları     |   | <b>LASTİK MAKİNALARI</b>                        |   | <b>SU ARITMA</b>                                |
| O | <b>İNŞAAT MAKİNALARI</b>            | A | Ekstruder (kalıp çıkarma, kalıptan çıkarma)     | O | Aeratör (havalandırıcı)                         |
| O | Beton karıştırcılar                 | A | Haddeler  | O | Vidalı pompalar                                 |
| O | Yol yapım makinası                  | O | Kalenderler, mengenerler                        |   | <b>TARAK MAKİNALARI</b>                         |
| O | Yük asansörleri                     | O | Karıştırcılar                                   | O | Döner dişli                                     |
|   | <b>JENERATÖRLER,</b>                | A | Karma makinaları (Çamur)                        | A | Gezici dişli (Katerpillar)                      |
|   | <b>TRANSFORMATÖRLER</b>             | A | <b>METAL HADDELEME</b>                          | O | Gezici dişli (Demiryolları)                     |
| A | Frekans transformatörü              | A | Ağır ve orta levha milleri                      | A | Kesme makinası başlıkları                       |
| A | Jenaratörler                        | A | Boru kaynak makinası                            | A | Kovalı dolaplar (Tekerlekler)                   |
| A | Kaynak Jenaratörler                 | O | Çapraz döndürücüler                             | A | Kovalı Konveyörler                              |
|   | <b>KAĞIT MAKİNALARI</b>             | A | Devamlı döküm tesisleri                         | O | Maneura Vinçleri                                |
| A | Ezme makinası                       | A | Ham demir çubuk kesiciler                       | O | Pompalar  |
| A | Emme presleri                       | O | Havalı makinalar (sıyırıcı ve tel)              |   | <b>TAŞ VE TOPRAK İŞLEME MAKİNALARI</b>          |
| A | Emme silindirleri                   | A | İşleyiciler                                     | A | Bilyalı değirmen                                |
| A | Kalenderler, mengenerler            | O | Kesme makinaları                                | A | Döner fırınlar                                  |
| A | Kurutma silindirleri                | A | Kırpma makası                                   | A | Döğücü miller                                   |
| A | Hallaç                              | A | Külçe ve hamdemir haddeleme milleri             | A | Kırma, ezme makinaları                          |
| A | Selüloz değirmeni                   | A | Kütük işleme makinası                           | A | Tuğla presleri                                  |
| A | Yaş presleme                        | A | Kütük itici                                     |   | <b>TEKSTİL MAKİNALARI</b>                       |
|   | <b>KİMYA ENDÜSTRİSİ</b>             | O | Levha eğiciler                                  | O | Baskı ve renk makinaları                        |
| O | Karıştırcılar                       | A | Levha kesiciler                                 | O | Dokuma tezgahları                               |
| O | Karıştırcılar (Yarı sıvı malzeme)   | A | Saç haddesi                                     | O | Hallaçlar                                       |
| U | Karıştırcılar (Sıvı malzeme)        | A | Soğuk haddeleme                                 |   | <b>Vantilatörler, Havalandırma Tertibatları</b> |
| O | Kurutma silindirleri                | O | Soğutma yatakları                               | O | Dönel havalandırma tertibatları                 |
| O | Santrifüj makinaları (Ağır)         | O | Silindirik mukavemetlendirici                   | O | Endüksiyonlu fanlar (Havalandırma tertibatları) |
| U | Santrifüj makinaları (Hafif)        | A | Silindirik tablolar (Ağır)                      | U | Eksenel ve radyal                               |
| O | Soğutma silindirleri                | O | Silindirik tablolar (Hafif)                     | O | Soğutma kulesi fanları                          |
|   | <b>KONVEYÖRLER</b>                  | O | Zincir döndürücüler                             | U | Türbinli havalandırma tertibatları              |
| O | Bant cepli konveyörler              | A | Temizleme makinaları (Pul, kazantaşı temizleme) |   | <b>YAĞ ENDÜSTRİ</b>                             |
| O | Çelik kayıklı konveyörler           | A | <b>METAL İŞLEME MAKİNALARI</b>                  | O | Boru hattı pompaları                            |
| O | Élevatörler                         | A | Çekiçler  | A | Dönel sondaj aletleri                           |
| A | Dik konveyörler                     | A | Dövme presleri                                  |   |   |
| A | Eğik konveyörler                    | A | Levha düzeltme makinaları                       |   |   |
| O | Kayıklı konveyörler (büyük malzeme) |   |   |   |   |

U :Uniform Yük  
O :Orta Şiddette Yük  
A :Ağır Şiddette Yük

## Load classification symbols

**Table 1** Load classification symbols listed by application and industries

|                                    |   |  |
|------------------------------------|---|--|
| <b>BLOWERS, VENTILATORS</b>        | <b>FOOD INDUSTRY MACHINERY</b>            | <b>OIL INDUSTRY</b>                    |
| U Blowers (axial and radial)       | U Bottling and container filling machines | M Pipeline pumps                       |
| M Cooling tower fans               | M Cane crushers                           | H Rotary drilling equipment            |
| M Induced draught fans             | M Cane knives                             | <b>PAPER MACHINES</b>                  |
| M Rotary piston blowers            | H Cane milis                              | H Calenders                            |
| U Turbo blowers                    | M Kneading machines                       | H Couches                              |
| <b>BUILDING MACHINERY</b>          | M Mash tubs, Crystallizers                | H Drying cylinders                     |
| M Concrete mixers                  | U Packaging machines                      | H Glazing cylinders                    |
| M Hoists                           | M Sugar beet cutters                      | H Pulpers                              |
| M Road construction machinery      | M Sugar beet washing machines             | H Pulp grinders                        |
| <b>CHEMICAL INDUSTRY</b>           | <b>GENERATORS, TRNASFORMERS</b>           | H Suction rolls                        |
| U Agitators (liquid material)      | H Frequncy transformers                   | H Suction presses                      |
| M Agitators (semi-liquid material) | H Generators                              | H Wet presses                          |
| M Centrifuges (heavy)              | H Welding generators                      | H Willows                              |
| U Centrifuges (light)              | <b>LAUNDRIES</b>                          | <b>PLASTIC INDUSTRY MACHINERY</b>      |
| M Cooling drums                    | M Tumblers                                | M Calenders                            |
| M Drying drums                     | M Washing machines                        | M Crushers                             |
| M Mixers                           | <b>METAL ROLLING MILLS</b>                | M Extruders                            |
| <b>COMPRESSORS</b>                 | H Billet shears                           | M Mixers                               |
| H Piston compressors               | M Chain transfers                         | <b>PUMPS</b>                           |
| M Turbo compressors                | H Cold rolling milis                      | U Centrifugal pumps (light iquidds)    |
| <b>CONVEYORS</b>                   | H Continuous casting plant                | M Centrifugal pumps (semi-liquids)     |
| M Apron conveyors                  | M Cooling beds                            | H Piston pumps                         |
| M Elevators                        | H Cropping shears                         | H Plunger pumps                        |
| M Band pocket conveyors            | M Cross transfers                         | H Pressure pumps                       |
| M Belt conveyors (bulk material)   | H Descaling machines                      | <b>RUBBER MACHINERY</b>                |
| H Belt conveyors (piece goods)     | H Heavy and medium plate milis            | M Calenders                            |
| U Bucket conveyors for flour       | H Ingot and blooming milis                | H Extruders                            |
| M Chain conveyors                  | H Ingot handling machinery                | M Mixers                               |
| M Goods lifts                      | H Ingot pushers                           | H Pug milis                            |
| H Hoists                           | H Manipulators                            | H Rolling milis                        |
| H Inclined hoists                  | H Plate shears                            | <b>STONE AND CLAY WORKING MACHINES</b> |
| M Link conveyors                   | M Plate tilters                           | H Ball milis                           |
| M Passenger lifts                  | M Roller adjustment drives                | H Beater milis                         |
| M Screw conveyors                  | M Roller straighteners                    | H Breakers                             |
| M Steel belt conveyors             | H Roller tables (heavy)                   | H Brick presses                        |
| M Trough chain conveyors           | M Roller tables (light)                   | H Hammer milis                         |
| M Winches hauling                  | H Sheet milis                             | H Rotary ovens                         |
| <b>CRANES</b>                      | M Trimming shears                         | H Tube milis                           |
| M Derricking jip gear              | H Tube welding machines                   | <b>TEXTILE MACHINES</b>                |
| U Hoist gear                       | M Winding mach. (strip and wire)          | M Batches                              |
| U Luffing gear                     | M Wire drawing benches                    | M Looms                                |
| M Slewing gear                     | <b>METAL WORKING MACHINES</b>             | M Printing and dyeing machines         |
| H Travelling gear                  | U Counterhafts, line shafts               | M Tanning vats                         |
| <b>DREDGERS</b>                    | H Forging preses                          | M Willows                              |
| H Bucket conveyors                 | H Hammers                                 | <b>WATER TREATMENT</b>                 |
| H Bucket wheels                    | U Machine tools, auxiliary drives         | M Aerators                             |
| H Cutter heads                     | M Machine tools, main drives              | M Screw pumps                          |
| M Manoeuvring winches              | H Metal planing machines                  | <b>WOOD WORKING MACHINES</b>           |
| M Pumps                            | H Plate straightening machines            | H Barkers                              |
| M Slewing gear                     | H Presses                                 | M Planing machines                     |
| H Travelling gear (caterpillar)    | H Punch presses                           | H Saw frames                           |
| M Travelling gear (rails)          | M Shears                                  | U Wood working machines                |
|                                    | M Sheet metal bending machines            |  |

U :Uniform Load  
M :Medium shock load  
H :Heavy shock load

## Boyut Seçimi

### Doğru Büyüklüğün Seçimi İçin Gerekli Teknik Bilgi

Tahrik ünitesinin maruz kalacağı tesirler gibi çalışma koşullarının tüm faktörlerini dikkatlice düşünerek uygun bir tip ve uygun bir büyüklük saptamak mümkündür.

Burada sunulan Teknik Bilgilerin dikkatlice incelenmesi, hatalardan ve soru işaretlerinden kaçınılmasının yanında Redüktörlerin uzun süre verimli ve sorunsuz bir şekilde çalışmasını temin etmede yardımcı olacaktır.

### Büyüklük Seçimi

#### I. Mekanik Seçim

Kilowatt cinsinden sınırlandırılan nominal güç  $P_{1N}$  10 saat /gün darbesiz çalışma ve başlangıç momentinin çalışma momentinin iki katına kadar olmasına müsaade eden saatte en fazla 5 kez durdurup çalışma için geçerlidir. Daha sık çalıştırmalar için bize başvurunuz.  $P_1$  servis faktörünün hesaba katılmasıyla gerekir güç  $P_{2m}$  şu formülle düzeltilerek hesaplanır.

$$P_{2m} = P_2 \cdot f_1$$

Redüktör büyüklüğünün seçimi için

$P_{2m} < P_{1N}$  olmalıdır.

#### II. Isıl Sınıflama

Termal kapasite  $P_{G1}$ 'in iletilen güç nedeniyle termik gücü aşması ilave soğutmayı gerektireceğinden kıyaslamalı yapmak önemlidir.

Fan ile veya soğutma serpantini ile soğutmanın (termal kapasite  $P_{G2}$  veya  $P_{G3}$ ) yeterli olacağını veya fan ile soğutma serpantininin birlikte kullanılması gerekip gerekmediğinin kontrol edilmesi lazımdır.

Servis faktörü  $f_1$ 'i hesaba katmaksızın gerekli çıkış gücü  $f_2$  termal kapasite  $P_{G1}$ 'i aşarsa soğutma gerekli olacaktır.

Listede belirtilen termal kapasite 20 C° ortam sıcaklığı ve saatte % 100 çalışma için geçerlidir. Farklı ortam sıcaklıkları için ( $f_2$ ) faktörü, saatteki verim ( $f_3$ ) ve kullanma faktörü  $f_4$  ( $P_2 / P_{1N} \times 100 = \% \text{ kullanım}$ ) ile tahrik makinasında absorbe edilen güç düzeltilmelidir.

$$P_{2m} = P_2 \cdot f_2 \cdot f_3 \cdot f_4$$

Büyüklük seçimi için  $P_{2m}$ 'nin  $P_{G1}$ ,  $P_{G2}$ ,  $P_{G3}$ , veya  $P_{G4}$ 'den küçük olması gerekmektedir.

#### III. Çalışma Karakteristikleri

- Remas tipi redüktörün seçimi için gerekli bilgiler
  - İlk kuvvet vericinin tipi, KW cinsinden  $P_1$  gücü d/dak. cinsinden  $n_1$  devir sayısı.
  - Tahrik mekanizmasının tipi, gereken  $P_2$  gücü (KW), devir sayısı  $n_2$  (d/dak.)
  - Gerekli toplam tahvil oranı  $i = n_1 / n_2$
- İlk kuvvet ünitesinin ve tahrik makinasının yükleme koşulları
  - Remas redüktörlerinin giriş ve çıkış milleriyle ilgili düzgün ve değişebilen çalışma, herhangi bir makina titreşimi, ilk kuvvet biriminin ve tahrik makinasının eylemsizlik momentleri
  - Saat olarak ortalama günlük çalışma saati
  - Her bir saatteki çalışma sayısı
  - Her saatteki % çalışma çevrimi (yük altında çalışma zamanı)
- Ortam koşulları

- Ortam sıcaklığı (C°)
- Dışarıdaki donanımlarda toza açıklık, nem veya ısı yayılımı
- İlk kuvvet ünitesinden redüktöre güç iletimi
  - Örneğin elastik kaplinle veya V kayışla veya düz kayışla gibi.
  - Redüktörün yatakları tarafından absorbe edilecek N cinsinden herhangi ilave kuvvetler ve yönleri.
- Redüktörden tahrik edilen makinaya güç iletim şekli
  - Örneğin elastik dişli kaplin ile, küçük dişleriyle, zincir dişlisi veya krank ile
  - Redüktörün yatakları tarafından absorbe edilebilecek N cinsinden herhangi ilave dış kuvvetler ve yönleri.
- Düşük hızlı  $d_2$  milinin dönme yönü
- Dönme yönünün değişmesi (örneğin: Yük atında her iki yönde ters çalışma)
- Çalışma tertibi
  - Redüktörün sağ tertip veya sol tertip olması
- Hız artırma oranları
- Su soğutması
  - Su, tuzlu su, deniz suyu ile soğutma
  - Giriş sıcaklığı veya soğutma suyu sıcaklığı (C°)

## Servis Faktörleri

| $f_1$ Servis Faktörleri  | Kuvvet Makinası          | Günlük Çalışma Süresi | İş Makinasının Yük Sembolü |      |   |
|--|--------------------------|-----------------------|----------------------------|------|---|
|  |                          |                       | U                          | O    | A |
| Elektrik Motorlu, Türbin, Hidrolik Motor                       | 3 saate kadar            | 0.8                   | 1                          | 1.5  |   |
|  | 3 s.ten 10 sa. kadar     | 1                     | 1.25                       | 1.75 |   |
|  | 10 saatten fazla         | 1.25                  | 1.5                        | 2    |   |
| 1: 100 -1: 200 Dönme devirli 4-6 silindirlil pistonlu motorlar | 3 saate kadar            | 1                     | 1.25                       | 1.75 |   |
|  | 3 saatten 10 saate kadar | 1.25                  | 1.5                        | 2    |   |
|  | 10 saatten fazla         | 1                     | 1.75                       | 2.25 |   |
| 1: 100 Dönme demirli 1-3 silindirlil Pistonlu motorlar         | 3 saate kadar            | 1.25                  | 1.5                        | 2    |   |
|  | 3 saatten 10 saate kadar | 1                     | 1.75                       | 2.25 |   |
|  | 10 saatten fazla         | 1.75                  | 2                          | 2.5  |   |

| $f_2$ Ortam Sıcaklığı  | C° olarak ortam sıcaklığı |     |      |      |      |
|--|---------------------------|-----|------|------|------|
| Standart gövdeler için fan soğutmalı                                       | 10                        | 20  | 30   | 40   | 50   |
| $f_2$  | 0.88                      | 1.0 | 1.15 | 1.35 | 1.65 |
| Standart gövdeler için soğutma serpantini veya fanlı ve soğutma serpantini | 10                        | 20  | 30   | 40   | 50   |
| $f_2$  | 0.9                       | 1   | 1.1  | 1.2  | 1.3  |

| $f_3$ Verim      | C° olarak ortam sıcaklığı |      |      |      |      |
|------------------|---------------------------|------|------|------|------|
| Saatteki Verim % | 100                       | 80   | 60   | 40   | 20   |
| $f_3$            | 1                         | 0.94 | 0.86 | 0.74 | 0.56 |

| $f_4$ Kullanım ( $P_2 / P_{1N} \times 100 = \% \text{ Kullanım}$ ) |     |      |      |      |      |     |     |      |
|--|-----|------|------|------|------|-----|-----|------|
| Tip  | %30 | %40  | %50  | %60  | %70  | %80 | %90 | %100 |
| S..  | 1.5 | 1.25 | 1.15 | 1.1  | 1.05 | 1   | 1   | 1    |
| K..  | 1.4 | 1.2  | 1.1  | 1.05 | 1    | 1   | 1   | 1    |

## Selection of size

### Technical data

#### necessary for selecting the correct size

The choice of a suitable type and determination of the optimum unit size is always reliably possible, if all aspects of the drive, as well as all influences the drive will be exposed to, are carefully considered. Perusal of the following "Technical data" will help greatly to avoid errors and queries and to ensure a long, efficient and troublefree working life of the speed reducer.

#### Selecting the size

##### i. Mechanical selection

The nominal power ratings  $P_{1N}$  in kW are valid for shockfree operation of 10 hrs/day and up to 5 starts per hour, permitting a starting torque of two times the running torque; for more frequent starts please refer back to us.

Taking into account service factor  $f_1$  the required power  $P_{2m}$  is corrected and computed with:

$$P_{2m} = P_2 \times f_1$$

For the selection of gear unit size

$$P_{2m} \text{ must be } < P_{1N}$$

##### ii. Thermal rating

Regarding thermal rating, it is important to check whether the thermal capacity  $P_{G1}$  is exceeded by the transmitted power, in which case auxiliary cooling will be required. A check will be necessary if cooling by fan or cooling coil resp. will suffice (Thermal capacity  $P_{G2}$  or  $P_{G3}$ ) or cooling by fan and cooling coil will be required (Thermal capacity  $P_{G4}$ ).

Some form of cooling will be necessary if the required output power  $P_2$  exceeds the thermal capacity  $P_{G1}$  without taking into account the factor  $f_1$ .

The thermal capacities listed are valid for an ambient temperature of 20 °C and an operating cycle of 100 % per hour. For different ambient temperatures (factor  $f_2$ ), shorter operating cycles (factor  $f_3$ ) and taking into account utilization factor  $f_4$  ( $P_2 / P_{1N} \times 100 =$  utilization in %) the absorbed driven machine rating must be corrected.

$$P_{2t} = P_2 \times f_2 \times f_3 \times f_4$$

For the selection of size  $P_{2t}$  must be less than

$$P_{G1}, P_{G2}, P_{G3}, \text{ or } P_{G4}, \text{ resp.}$$

if the maximum listed thermal capacity values are exceeded, an external oil cooler will be necessary. The inlet cooling water temperature should not exceed max. 25°C.

##### III. Drive characteristics

1. Application of the REMAS gear unit.
  - 1.1. Type of prime mover, power  $P_1$ , in kW, speed  $n_1$ , in r.p.m.
  - 1.2. Type of driven machine, power  $P_2$ , required in kW, speed  $n_2$  in r.p.m.
  - 1.3. Required total transmission ratio  $i = n_1 : n_2$
2. Loading conditions of prime mover and driven machine
  - 2.1. Uniform or changeable operation, any machine shock loads, moments of inertia  $J$  of prime mover or driven machine, related to the input or output shaft of the REMAS gear unit
  - 2.2. Average daily operating time in hours.
  - 2.3. Starts per hour.
  - 2.4. Operating cycle per hour in % = (operating time under load)
3. Ambient conditions
  - 3.1. Ambient temperature in °C
  - 3.2. Installation out of doors, exceptional exposure to dust, humidity or ambient temperatures (radiated heat).
4. Power transmission from the prime mover to the gear unit.

- 4.1. For example by means of a flexible coupling, by V-belt or flat belt drive.
- 4.2. Any additional forces in N and their directions which may have to be absorbed by the bearings of the gear unit.
5. Mode of power transmission from the gear unit to the driven machine.
  - 5.1. For example by means of a flexible coupling; by free-floating gear coupling, pinion, sprocket or crank.
- 5.2. Any additional external forces which may have to be absorbed by the bearings of the gear unit in N and their direction
6. Direction of rotation of low speed shaft  $d_2$  viewed in the direction of the shaft end face.
  - 6.1. Changing direction of rotation (for example, reversing operation under load in both directions).
7. Layout of the drive
  - 7.1. Position of the gear unit between prime mover and driven machine (right-hand or left-hand assembly of the gear unit).
8. Speed increasing ratios.
9. Water cooling.
  - 9.1. Cooling by means of fresh, sea or brackish water.
  - 9.2. Inlet temperature or the cooling water in °C.

## Service factors

| $f_1$ Service factor                                |                        |                                    |      |      |
|---|------------------------|------------------------------------|------|------|
| Prime Mover   | Daily service in hours | Load symbol for the driven machine |      |      |
|   |                        | U                                  | M    | H    |
| Elektrik Motors, Turbines, Hydraulic Motors         | up to 3                | 0.8                                | 1    | 1.5  |
|   | above 3 to 10          | 1                                  | 1.25 | 1.75 |
|   | above 10               | 1.25                               | 1.5  | 2    |
| Piston engines 4-6 cyl. cyclic variation 1:00-1:200 | up to 3                | 1                                  | 1.25 | 1.75 |
|   | above 3 to 10          | 1.25                               | 1.5  | 2    |
|   | above 10               | 1                                  | 1.75 | 2.25 |
| Piston engines 1-3 cyl. cyclic variation to 1:100   | up to 3                | 1.25                               | 1.5  | 2    |
|   | above 3 to 10          | 1                                  | 1.75 | 2.25 |
|   | above 10               | 1.75                               | 2    | 2.5  |

| $f_2$ for ambient temperature                                 |                           |     |      |      |      |
|---|---------------------------|-----|------|------|------|
| For standard units without cooling and with fan cooling       | Ambient temperature in °C |     |      |      |      |
|   | 10                        | 20  | 30   | 40   | 50   |
| $f_2$   | 0.88                      | 1.0 | 1.15 | 1.35 | 1.65 |
| For units furnished with cooling coil or fan and cooling coil | Ambient temperature in °C |     |      |      |      |
|   | 10                        | 20  | 30   | 40   | 50   |
| $f_2$   | 0.9                       | 1   | 1.1  | 1.2  | 1.2  |

| $f_3$ for operating cycle     |       |    |      |      |      |
|-------------------------------|-------|----|------|------|------|
| Operating cycle per hour in % | 100   | 80 | 60   | 40   | 20   |
|                               | $f_3$ | 1  | 0.94 | 0.86 | 0.74 |

| $f_4$ for utilization ( $P_2 / P_{1N} \times 100 =$ % utilization in ) |     |      |      |      |      |     |     |      |
|--|-----|------|------|------|------|-----|-----|------|
| Types  | %30 | %40  | %50  | %60  | %70  | %80 | %90 | %100 |
| S..  | 1.5 | 1.25 | 1.15 | 1.1  | 1.05 | 1   | 1   | 1    |
| K..  | 1.4 | 1.2  | 1.1  | 1.05 | 1    | 1   | 1   | 1    |



# Nominal Güç Tip S1N

# Nom. power ratings Type S1N

| Tahvil oranı $I_N$ Devirler $n_{1N}$ ve $n_{2N}$ Nominal Güç $P_{1N}$ - Transmission ratios $I_N$<br>speeds $n_{1N}$ and $n_{2N}$ nom. power ratings $P_{1N}$ |                   |                   |                                      |     |       |       |       |       |       |       |       |      |
|---|-------------------|-------------------|--------------------------------------|-----|-------|-------|-------|-------|-------|-------|-------|------|
| $I_N$   | $n_{1N}$<br>1/Min | $n_{2N}$<br>r.p.m | Redüktör Büyüklüğü - Gear unit sizes |     |       |       |       |       |       |       |       |      |
|   |                   |                   | 160                                  | 200 | 250   | 280   | 320   | 360   | 400   | 450   | 500   | 560  |
| Nominal güç $P_{1N}$ -kW - Nom. power ratings $P_{1N}$ in kW  |                   |                   |                                      |     |       |       |       |       |       |       |       |      |
| 1,25  | 1500              | 1200              | 389                                  | 695 | 1350* |       |       |       |       |       |       |      |
|   | 1000              | 800               | 259                                  | 465 | 910   |       |       |       |       |       |       |      |
|   | 750               | 600               | 200                                  | 360 | 710   |       |       |       |       |       |       |      |
| 1,4   | 1500              | 1070              | 358                                  | 640 | 1300* |       |       |       |       |       |       |      |
|   | 1000              | 715               | 243                                  | 430 | 880   |       |       |       |       |       |       |      |
|   | 750               | 535               | 193                                  | 330 | 680   |       |       |       |       |       |       |      |
| 1,6   | 1500              | 940               | 325                                  | 585 | 1200* | 1650* | 2150* | 2850* |       |       |       |      |
|   | 1000              | 625               | 225                                  | 395 | 810   | 1150  | 1450  | 2100  |       |       |       |      |
|   | 750               | 470               | 185                                  | 305 | 670   | 900   | 1200  | 1550  |       |       |       |      |
| 1,8   | 1500              | 835               | 309                                  | 539 | 1100  | 1500* | 2050* | 2650* |       |       |       |      |
|   | 1000              | 555               | 219                                  | 369 | 750   | 1100  | 1400  | 1850  |       |       |       |      |
|   | 750               | 415               | 184                                  | 279 | 610   | 850   | 1150  | 1450  |       |       |       |      |
| 2   | 1500              | 750               | 285                                  | 505 | 1000  | 1400  | 1900* | 2500* | —     | —     | —     | —    |
|   | 1000              | 500               | 195                                  | 355 | 700   | 960   | 1300  | 1700  | 2600* | 3700* | 4600* | —    |
|   | 750               | 375               | 160                                  | 265 | 580   | 770   | 1050  | 1350  | 2000  | 2950  | 3800  | 5000 |
| 2,24  | 1500              | 670               | 274                                  | 445 | 950   | 1250  | 1750* | 2300* | —     | —     | —     | —    |
|   | 1000              | 445               | 189                                  | 295 | 660   | 910   | 1200  | 1600  | 2350  | 3400  | 4300* | —    |
|   | 750               | 335               | 154                                  | 235 | 530   | 740   | 980   | 1250  | 1850  | 2750  | 3500  | 4500 |
| 2,5   | 1500              | 600               | 254                                  | 405 | 890   | 1150  | 1600  | 2150* | —     | —     | —     | —    |
|   | 1000              | 400               | 174                                  | 275 | 630   | 820   | 1150  | 1500  | 2200  | 3100  | 4100* | —    |
|   | 750               | 300               | 139                                  | 225 | 490   | 670   | 910   | 1150  | 1750  | 2500  | 3300  | 4200 |
| 2,8   | 1500              | 535               | 228                                  | 375 | 820   | 1050  | 1450  | 1950  | —     | —     | —     | —    |
|   | 1000              | 360               | 158                                  | 255 | 560   | 750   | 1000  | 1350  | 1950  | 2900  | 3800  | —    |
|   | 750               | 270               | 128                                  | 205 | 460   | 610   | 830   | 1050  | 1550  | 2350  | 3100  | 3900 |
| 3,15  | 1500              | 475               | 209                                  | 358 | 745   | 990   | 1350  | 1750  | 2500* | 3600* | 4700* | —    |
|   | 1000              | 315               | 144                                  | 238 | 505   | 690   | 930   | 1250  | 1750  | 2650  | 3400  | 4500 |
|   | 750               | 235               | 114                                  | 188 | 405   | 580   | 760   | 970   | 1400  | 2150  | 2750  | 3700 |
| 3,55  | 1500              | 425               | 184                                  | 328 | 678   | 890   | 1250  | 1600  | 2300  | 3300* | 4200* | —    |
|   | 1000              | 280               | 129                                  | 223 | 458   | 620   | 860   | 1150  | 1650  | 2450  | 3100  | 4400 |
|   | 750               | 210               | 99                                   | 178 | 368   | 510   | 680   | 900   | 1350  | 2000  | 2500  | 3600 |
| 4   | 1500              | 375               | 159                                  | 309 | 638   | 850   | 1150  | 1450  | 2100  | 3000  | 3800* | —    |
|   | 1000              | 250               | 109                                  | 218 | 428   | 590   | 790   | 1050  | 1500  | 2200  | 2750  | 4300 |
|   | 750               | 187               | 82                                   | 168 | 338   | 490   | 630   | 830   | 1200  | 1800  | 2260  | 3500 |
| 4,5   | 1500              | 335               | 139                                  | 268 | 558   | 800   | 1100  | 1300  | 1850  | 2550  | 3300  | —    |
|   | 1000              | 220               | 96                                   | 183 | 378   | 570   | 740   | 980   | 1250  | 1800  | 2500  | 3900 |
|   | 750               | 166               | 75                                   | 148 | 298   | 460   | 590   | 770   | 960   | 1400  | 1950  | 3000 |
| 5   | 1500              | 300               | 124                                  | 218 | 478   | 670   | 1000  | 1200  | 1700  | 2450  | 3100  | —    |
|   | 1000              | 200               | 85                                   | 143 | 338   | 470   | 700   | 850   | 1200  | 1750  | 2300  | 3200 |
|   | 750               | 150               | 64                                   | 108 | 258   | 370   | 540   | 690   | 900   | 1350  | 1750  | 2600 |
| 5,6   | 1500              | 270               | 104                                  | 198 | 418   | 570   | 880   | 1050  | 1500  | 2050  | 2750  | —    |
|   | 1000              | 180               | 71                                   | 138 | 283   | 410   | 590   | 770   | 1050  | 1400  | 1850  | 2700 |
|   | 750               | 134               | 54                                   | 103 | 213   | 310   | 450   | 600   | 800   | 1050  | 1400  | 2100 |
| 6,3   | 1500              | 240               | 83                                   | 158 | 338   | 500   | 720   | 940   | 1250  | 1850  | 2200  | —    |
|   | 1000              | 160               | 58                                   | 108 | 228   | 360   | 480   | 700   | 860   | 1250  | 1500  | 2200 |
|   | 750               | 120               | 44                                   | 86  | 173   | 275   | 360   | 500   | 650   | 950   | 1150  | 1650 |

| Termal kapasite *Thermal capacities |  |  |  |     |     |     |     |     |      |      |      |      |
|-------------------------------------|--|--|--|-----|-----|-----|-----|-----|------|------|------|------|
|                                     |  | Rüzgar hızı  | Redüktör büyüklüğü * Gear unit sizes                             |     |     |     |     |     |      |      |      |      |
|                                     |  | Air flow   | 160  | 200 | 250 | 280 | 320 | 360 | 400  | 450  | 500  | 560  |
| $P_{G1}$                            | Kapalı küçük hacimlerde soğutmasız<br>without cooling for small confined spaces      | $w \geq 0.5$<br>m/s  | 48   | 78  | 115 | 150 | 200 | 235 | 300  | 380  | 470  | 560  |
|                                     | Geniş hacimlerde soğutmasız<br>without cooling for large premises,<br>workshops etc. | $w \geq 1.4$<br>m/s  | 68   | 110 | 165 | 215 | 285 | 330 | 430  | 530  | 660  | 790  |
|                                     | Açık yerlerde soğutmasız<br>without cooling in the open                              | $w \geq 3.7$<br>m/s  | 92   | 145 | 220 | 285 | 380 | 440 | 570  | 710  | 880  | 1050 |
| $P_{G2}$                            | Fan soğutmalı<br>with fan cooling  | $n_{1N}$ 1/min<br>(rpm)  | Termal kapasite $P_{G2}$ -kW - Thermal capacities $P_{G2}$ in kW |     |     |     |     |     |      |      |      |      |
|                                     |  | 1500   | 92   | 150 | 230 | 300 | 400 | 470 | -    | -    | -    | 1)   |
|                                     |  | 1000   | 80   | 135 | 200 | 260 | 350 | 410 | 530  | 670  | 830  |      |
|                                     |  | 750  | 73   | 120 | 180 | 240 | 320 | 380 | 480  | 610  | 750  |      |
| $P_{G4}$                            | Fan, serpantin soğutmalı<br>with fan and cooling coil                                | Termal kapasite $P_{G4}$ -kW - Thermal capacities $P_{G4}$ in kW |  |     |     |     |     |     |      |      |      |      |
|                                     |  | 1500   | 285  | 410 | 530 | 640 | 810 | 930 | -    | -    | -    | 1)   |
|                                     |  | 1000   | 275  | 400 | 500 | 600 | 760 | 870 | 1100 | 1300 | 1550 |      |
|                                     |  | 750  | 270  | 380 | 490 | 580 | 730 | 840 | 1050 | 1200 | 1450 |      |

1) Soğutmayı Sorunuz.

1) Details of cooling on request

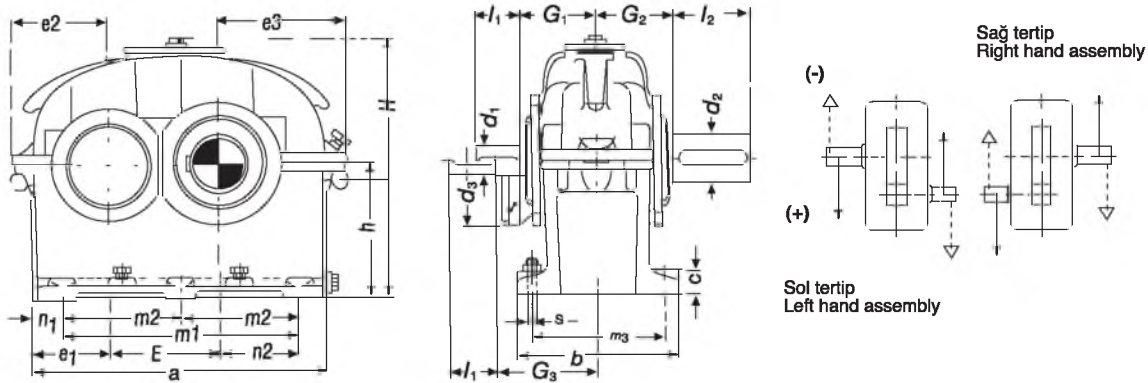
\* Cebri yağlama

\* Pressure lubrication required



**REMAS Helis dişli redüktörler**  
**Tek kademeli ayaklı**  
**Tip S1N**

**REMAS single reduction helical gear**  
**units with feet**  
**Type S1N**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>S1N<br>Büyükük<br>Size | a    | b   | c   | Mil uçları • Shaft end 1)                   |                |                   |   |                |                   |  |                |                   |                |                |     | d <sub>3</sub> | E     | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub><br>G <sub>2</sub> | h |
|---------------------------------------|------|-----|-----|---|----------------|-------------------|---|----------------|-------------------|--|----------------|-------------------|----------------|----------------|-----|----------------|-------|----------------|----------------|----------------|----------------------------------|---|
|                                       |      |     |     | d <sub>1</sub><br>i <sub>N</sub> = 1,25-2,8 | l <sub>1</sub> | G <sub>3(2)</sub> | d <sub>1</sub><br>i <sub>N</sub> = 3,15-4,5 | l <sub>1</sub> | G <sub>3(2)</sub> | d <sub>1</sub><br>i <sub>N</sub> = 5 - 6,3 | l <sub>1</sub> | G <sub>3(2)</sub> | d <sub>2</sub> | l <sub>2</sub> |     |                |       |                |                |                |                                  |   |
| 160                                   | 445  | 245 | 32  | 65m6  | 105            | 150               | 48m6  | 80             | 150               | 38m6                                       | 60             | 150               | 70 m6          | 120            | 251 | 160            | 118   | 141            | 190            | 120            | 200                              |   |
| 200                                   | 545  | 310 | 40  | 80m6  | 140            | 185               | 60m6  | 105            | 185               | 48m6                                       | 80             | 185               | 90 m6          | 160            | 315 | 200            | 140   | 169            | 235            | 145            | 250                              |   |
| 250                                   | 680  | 370 | 50  | 100m6                                       | 180            | 225               | 80m6  | 140            | 225               | 60m6                                       | 105            | 225               | 110 n6         | 180            | 385 | 250            | 175   | 214            | 295            | 175            | 315                              |   |
| 280                                   | 755  | 450 | 50  | 110n6                                       | 180            | 275               | 85m6  | 140            | 275               | 65m6                                       | 105            | 275               | 130 n6         | 210            | 425 | 280            | 187,5 | 228            | 328            | 220            | 355                              |   |
| 320                                   | 840  | 500 | 63  | 130n6                                       | 210            | 305               | 95m6  | 160            | 305               | 75m6                                       | 120            | 305               | 140 n6         | 240            | 485 | 320            | 205   | 254            | 364            | 245            | 400                              |   |
| 360                                   | 930  | 550 | 63  | 140n6                                       | 240            | 340               | 100m6                                       | 180            | 340               | 90m6                                       | 160            | 340               | 150 n6         | 240            | 529 | 360            | 220   | 269            | 397            | 270            | 450                              |   |
| 400                                   | 1040 | 605 | 80  | 150n6                                       | 240            | 370               | 110n6                                       | 180            | 370               | 95m6                                       | 160            | 370               | 160 n6         | 270            | 589 | 400            | 245   | 304            | 454            | 285            | 500                              |   |
| 450                                   | 1150 | 645 | 80  | 160n6                                       | 270            | 400               | 120n6                                       | 210            | 400               | 100m6                                      | 180            | 400               | 170 n6         | 270            | 649 | 450            | 265   | 331            | 501            | 305            | 560                              |   |
| 500                                   | 1290 | 710 | 100 | 180n6                                       | 310            | 440               | 130n6                                       | 210            | 440               | 120n6                                      | 210            | 440               | 190 n6         | 310            | 689 | 500            | 295   | 418            | 618            | 340            | 630                              |   |
| 560                                   | 1440 | 780 | 100 | 200n6                                       | 400            | 470               | 150n6                                       | 240            | 470               | 130n6                                      | 210            | 470               | 240 n6         | 400            | 689 | 560            | 325   | 457            | 687            | 380            | 710                              |   |

| Tip<br>Type<br>S1N<br>Büyükük<br>Size | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak dıvataları<br>Found.Bolts |             | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>Miktarı<br>Max. oil<br>quantity<br>Litre<br>Litres |
|---------------------------------------|------|----------------|----------------|----------------|----------------|----------------|--------------------------------|-------------|------------------------------------|--|
|                                       |      |                |                |                |                |                | s                              | Adet<br>Qty |                                    |  |
| 160                                   | 385  | 355            | -              | 200            | 45             | 122            | M 16                           | 4           | 105                                | 6,5  |
| 200                                   | 480  | 425            | -              | 255            | 60             | 145            | M 20                           | 4           | 210                                | 12,5   |
| 250                                   | 590  | 550            | 275            | 305            | 65             | 190            | M 24                           | 6           | 400                                | 23   |
| 280                                   | 669  | 620            | 310            | 380            | 67,5           | 220            | M 24                           | 6           | 580                                | 36   |
| 320                                   | 749  | 700            | 350            | 420            | 70             | 245            | M 30                           | 6           | 800                                | 45   |
| 360                                   | 831  | 770            | 385            | 470            | 80             | 270            | M 30                           | 6           | 1050                               | 70   |
| 400                                   | 931  | 850            | 425            | 510            | 95             | 300            | M 36                           | 6           | 1450                               | 90   |
| 450                                   | 1041 | 950            | 475            | 550            | 100            | 335            | M 36                           | 6           | 2000                               | 125  |
| 500                                   | 1161 | 1080           | 540            | 610            | 105            | 390            | M 42                           | 6           | 2700                               | 180  |
| 560                                   | 1297 | 1200           | 600            | 680            | 120            | 435            | M 42                           | 6           | 3650                               | 250  |

Daha büyük redüktörleri sorunuz.

- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 6885 kısım 1, Form DS.
- 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir

Larger gear units against enquiry.

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
- 2) G3 is furnished only in connection with a fan.

- Ölçü değiştirme hakkımız saklıdır.
- Dimensions are subject to alteration without notice

**Nominal Güç**  
**Termal kapasite**  
**Tip S2N S2O S2A**

**Nom. power ratings**  
**Thermal capacities**  
**Types S2N S2O S2A**

| Tahvil oranı $i_N$ , Devirler $n_{1N}$ ve $n_{2N}$ Nominal güç $P_{1N}$ • Transmission ratios $i_N$ , speed $n_{1N}$ , and $n_{2N}$ nom power ratings $P_{1N}$ |                   |                   |                                      |     |     |     |     |     |     |      |      |       |       |       |      |       |      |
|--|-------------------|-------------------|--------------------------------------|-----|-----|-----|-----|-----|-----|------|------|-------|-------|-------|------|-------|------|
| $i_N$  | $n_{1N}$<br>1/Mln | $n_{2N}$<br>r.p.m | Redüktör Büyüklüğü - Gear unit sizes |     |     |     |     |     |     |      |      |       |       |       |      |       |      |
|  |                   |                   | 160                                  | 180 | 200 | 225 | 250 | 280 | 320 | 360  | 400  | 450   | 500   | 560   | 630  | 710   | 800  |
| Nominal güç $P_{1N}$ - kW - Nom. power ratings $P_{1N}$ in kW  |                   |                   |                                      |     |     |     |     |     |     |      |      |       |       |       |      |       |      |
| 7,1  | 1500              | 210               | 104                                  | 148 | 205 | 290 | 400 | 560 | 740 | 1150 | 1550 | 2200* | 3400* | 4800* | —    | —     | —    |
|  | 1000              | 140               | 69                                   | 98  | 135 | 195 | 265 | 370 | 490 | 770  | 1050 | 1450  | 2350  | 3300  | 4500 | 6300* | 8500 |
|  | 750               | 106               | 52                                   | 73  | 105 | 145 | 210 | 280 | 370 | 580  | 790  | 1100  | 1750  | 2450  | 3400 | 4700  | 6300 |
| 8  | 1500              | 185               | 96                                   | 133 | 185 | 265 | 360 | 510 | 700 | 1050 | 1400 | 1950* | 3100  | 4400* | —    | —     | —    |
|  | 1000              | 125               | 64                                   | 88  | 125 | 175 | 250 | 340 | 470 | 700  | 950  | 1300  | 2100  | 3000  | 3900 | 5800  | 7900 |
|  | 750               | 94                | 46                                   | 66  | 93  | 130 | 190 | 255 | 350 | 530  | 720  | 980   | 1600  | 2250  | 3000 | 4300  | 5800 |
| 9  | 1500              | 167               | 86                                   | 123 | 170 | 240 | 330 | 460 | 660 | 930  | 1250 | 1750* | 2850  | 3900* | —    | —     | —    |
|  | 1000              | 111               | 57                                   | 81  | 115 | 160 | 220 | 310 | 440 | 620  | 840  | 1150  | 1900  | 2650  | 3500 | 5100  | 6900 |
|  | 750               | 83                | 43                                   | 61  | 85  | 120 | 170 | 235 | 340 | 490  | 660  | 900   | 1500  | 2050  | 2750 | 4000  | 5400 |
| 10   | 1500              | 150               | 77                                   | 103 | 155 | 218 | 290 | 400 | 580 | 820  | 1150 | 1600  | 2500  | 3600* | —    | —     | —    |
|  | 1000              | 100               | 51                                   | 68  | 105 | 143 | 195 | 265 | 390 | 550  | 770  | 1050  | 1700  | 2400  | 3200 | 4600  | 6300 |
|  | 750               | 75                | 38                                   | 51  | 80  | 108 | 155 | 210 | 290 | 420  | 600  | 820   | 1350  | 1850  | 2450 | 3600  | 4900 |
| 11,2   | 1500              | 134               | 68                                   | 94  | 140 | 193 | 260 | 370 | 530 | 750  | 990  | 1400  | 2300  | 3200* | —    | —     | —    |
|  | 1000              | 89                | 45                                   | 65  | 95  | 128 | 175 | 250 | 360 | 510  | 680  | 950   | 1550  | 2150  | 2850 | 4300  | 5900 |
|  | 750               | 67                | 34                                   | 48  | 72  | 96  | 130 | 190 | 270 | 390  | 510  | 720   | 1200  | 1650  | 2200 | 3300  | 4500 |
| 12,5   | 1500              | 120               | 60                                   | 81  | 110 | 168 | 230 | 330 | 460 | 660  | 900  | 1250  | 2050  | 2900  | —    | —     | —    |
|  | 1000              | 80                | 40                                   | 53  | 77  | 113 | 165 | 220 | 310 | 450  | 610  | 850   | 1400  | 2000  | 2600 | 3800  | 5200 |
|  | 750               | 60                | 30                                   | 41  | 58  | 86  | 125 | 165 | 230 | 340  | 460  | 640   | 1100  | 1500  | 1950 | 2900  | 3900 |
| 14   | 1500              | 107               | 49                                   | 73  | 105 | 153 | 205 | 285 | 400 | 590  | 800  | 1100  | 1800  | 2550  | 3400 | 4900* | —    |
|  | 1000              | 71                | 33                                   | 48  | 73  | 103 | 145 | 195 | 270 | 400  | 540  | 740   | 1250  | 1750  | 2300 | 3400  | 4600 |
|  | 750               | 54                | 25                                   | 36  | 55  | 76  | 110 | 150 | 205 | 300  | 420  | 560   | 940   | 1350  | 1750 | 2550  | 3500 |
| 16   | 1500              | 94                | 46                                   | 65  | 97  | 133 | 185 | 255 | 360 | 520  | 710  | 1000  | 1600  | 2250  | 3000 | 4400* | —    |
|  | 1000              | 62                | 31                                   | 43  | 66  | 90  | 130 | 175 | 240 | 350  | 490  | 680   | 1100  | 1550  | 2050 | 3000  | 4100 |
|  | 750               | 47                | 23                                   | 32  | 50  | 67  | 98  | 130 | 185 | 270  | 370  | 510   | 820   | 1200  | 1550 | 2250  | 3100 |
| 18   | 1500              | 83                | 40                                   | 59  | 87  | 118 | 160 | 230 | 340 | 470  | 640  | 890   | 1500  | 1950  | 2750 | 4000  | —    |
|  | 1000              | 56                | 27                                   | 39  | 59  | 78  | 105 | 155 | 230 | 320  | 430  | 600   | 1000  | 1300  | 1850 | 2750  | 3700 |
|  | 750               | 42                | 20                                   | 29  | 44  | 60  | 83  | 115 | 180 | 250  | 340  | 450   | 780   | 990   | 1450 | 2150  | 2950 |
| 20   | 1500              | 75                | 38                                   | 55  | 77  | 108 | 145 | 210 | 295 | —    | —    | —     | —     | —     | —    | —     | —    |
|  | 1000              | 50                | 26                                   | 36  | 52  | 72  | 99  | 145 | 200 | —    | —    | —     | —     | —     | —    | —     | —    |
|  | 750               | 38                | 19                                   | 27  | 39  | 56  | 78  | 110 | 155 | —    | —    | —     | —     | —     | —    | —     | —    |

| Termal kapasite • Thermal capacities                              |   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|---|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|
|   | Rüzgar hızı<br>Air flow   | Redüktör büyüklüğü • Gear unit sizes                              |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
|   |   | 160   | 180 | 200 | 225 | 250 | 280 | 320 | 360 | 400 | 450 | 500 | 560 | 630 | 710 | 800  |      |
| Termal kapasite $P_{G1}$ - kW • Thermal capacities $P_{G1}$ in kW |   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| $P_{G1}$  | Kapalı küçük hacimlerde soğutmasız<br>without cooling for small confined spaces   | $w$<br>$\geq 0,5$ m/s   | 30  | 38  | 48  | 61  | 77  | 96  | 120 | 145 | 185 | 235 | 290 | 350 | 440 | 560  | 700  |
|   | Geniş hacimlerde soğutmasız<br>without cooling for large premises, workshops etc. | $w$<br>$\geq 1,4$ m/s   | 43  | 54  | 67  | 88  | 110 | 135 | 170 | 210 | 260 | 330 | 420 | 490 | 630 | 780  | 960  |
|   | Açık yerlerde soğutmasız<br>without cooling in the open                           | $w$<br>$\geq 3,7$ m/s   | 57  | 73  | 88  | 115 | 145 | 180 | 225 | 275 | 350 | 430 | 550 | 660 | 820 | 1050 | 1300 |
|   | $n_{1N}$<br>1/min r.p.m.  | Termal kapasite $P_{G2}$ - kW • Thermal capacities $P_{G2}$ in kW |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| $P_{G2}$  | Fan, Soğutmalı<br>with fan cooling  | 1500  | 58  | 75  | 92  | 120 | 150 | 190 | 240 | 290 | 380 | 470 | 590 | 730 |     |      |      |
|   |   | 1000  | 50  | 65  | 80  | 105 | 130 | 165 | 210 | 260 | 330 | 410 | 520 | 630 | 1)  | 1)   | 1)   |
|   |   | 750   | 46  | 59  | 73  | 96  | 120 | 150 | 190 | 235 | 290 | 380 | 470 | 580 |     |      |      |
|   |   | Termal kapasite $P_{G4}$ - kW • Thermal capacities $P_{G4}$ in kW |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |
| $P_{G4}$  | Fan, serpantin soğutmalı<br>with fan and cooling coil                             | 1500  | 210 | 225 | 240 | 270 | 300 | 360 | 400 | 450 | 560 | 650 | 790 | 930 |     |      |      |
|   |   | 1000  | 200 | 215 | 230 | 255 | 280 | 340 | 370 | 420 | 510 | 590 | 720 | 830 | 1)  | 1)   | 1)   |
|   |   | 750   | 195 | 210 | 225 | 245 | 270 | 320 | 350 | 400 | 470 | 560 | 670 | 780 |     |      |      |
|   |   | Termal kapasite $P_{G3}$ - kW • Thermal capacities $P_{G3}$ in kW |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |

İsi hesabına göre, gerekliyse soğutma sistemi konulur

**Auxiliary cooling must be provided if the thermal rating exceeds the thermal capacity.**

\*= Cebri yağlama

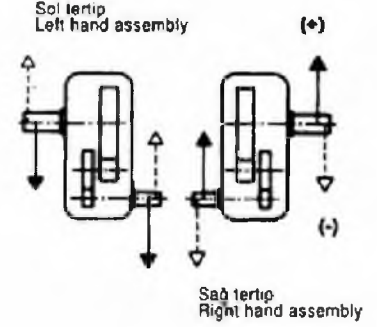
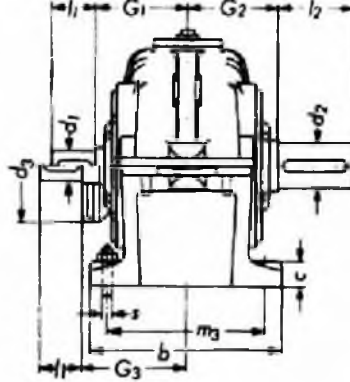
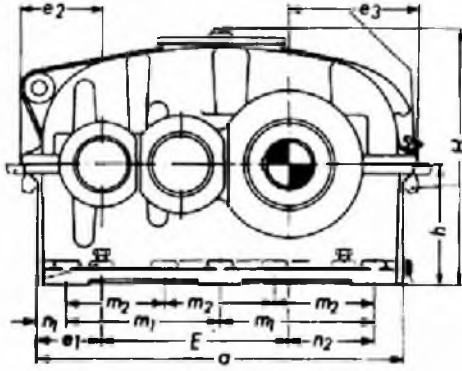
\*= Pressure lubrication required

1) Soğutmayı sorunuz

1) Details of cooling on request

**REMAS iki kademeli**  
**Helis dişlili ayaklı redüktörler**  
**Tip S2N**

**REMAS double reduction helical gear**  
**units with feet**  
**Type S2N**



Öçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip Type<br>S2N | a    | b    | c   | Mil uçları • Shaft end 1)   |                |                  |                              |                |                  |                |                |                |      |                |                |                |                |                |     |    |
|-----------------|------|------|-----|-----------------------------|----------------|------------------|------------------------------|----------------|------------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|-----|----|
|                 |      |      |     | d <sub>1</sub>              | l <sub>1</sub> | G <sub>3,2</sub> | d <sub>1</sub>               | l <sub>1</sub> | G <sub>3,2</sub> | d <sub>2</sub> | l <sub>2</sub> | d <sub>3</sub> | E    | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | h   |    |
| Büyükük<br>Size | mm   | mm   | mm  | l <sub>N</sub> = 7,1 - 11,2 |                |                  | l <sub>N</sub> = 12,5 - 11,2 |                |                  |                |                |                | mm   | mm             | mm             | mm             | mm             | mm             | mm  | mm |
| 160             | 540  | 290  | 32  | 38 m6                       | 60             | 160              | 32 m6                        | 60             | -                | 75 m6          | 120            | 202            | 272  | 103            | 126            | 188            | 140            | 140            | 180 |    |
| 180             | 600  | 320  | 32  | 42 m6                       | 70             | 180              | 32 m6                        | 60             | -                | 85 m6          | 140            | 251            | 305  | 110            | 134            | 209            | 150            | 155            | 200 |    |
| 200             | 665  | 355  | 40  | 48 m6                       | 80             | 190              | 38 m6                        | 60             | 190              | 95 m6          | 160            | 251            | 340  | 117,5          | 148            | 238            | 165            | 170            | 225 |    |
| 225             | 755  | 390  | 40  | 48 m6                       | 80             | 220              | 42 m6                        | 70             | 220              | 100 m6         | 180            | 315            | 385  | 137,5          | 168            | 263            | 185            | 190            | 250 |    |
| 250             | 830  | 450  | 50  | 60 m6                       | 105            | 235              | 48 m6                        | 80             | 235              | 110 n6         | 180            | 315            | 430  | 145            | 184            | 293            | 210            | 215            | 280 |    |
| 280             | 920  | 500  | 50  | 65 m6                       | 105            | 285              | 55 m6                        | 80             | 285              | 130 n6         | 210            | 385            | 480  | 155            | 195            | 325            | 235            | 240            | 315 |    |
| 320             | 1030 | 570  | 63  | 75 m6                       | 120            | 305              | 60 m6                        | 105            | 305              | 140 n6         | 270            | 385            | 545  | 170            | 219            | 364            | 260            | 270            | 355 |    |
| 360             | 1150 | 600  | 63  | 85 m6                       | 140            | 335              | 70 m6                        | 120            | 335              | 170 n6         | 370            | 425            | 610  | 190            | 238            | 398            | 280            | 290            | 400 |    |
| 400             | 1280 | 690  | 80  | 90 m6                       | 160            | 380              | 80 m6                        | 140            | 380              | 180 n6         | 310            | 529            | 680  | 215            | 275            | 445            | 310            | 320            | 450 |    |
| 450             | 1450 | 750  | 80  | 100 m6                      | 180            | 420              | 85 m6                        | 140            | 420              | 210 n6         | 350            | 589            | 770  | 240            | 305            | 505            | 350            | 360            | 500 |    |
|                 |      |      |     | l <sub>N</sub> = 7,1 - 12,5 |                |                  | l <sub>N</sub> = 14 - 18     |                |                  |                |                |                |      |                |                |                |                |                |     |    |
| 500             | 1600 | 830  | 100 | 110 n6                      | 180            | 460              | 95 m6                        | 160            | 460              | 240 n6         | 400            | 649            | 860  | 260            | 337            | 557            | 390            | 400            | 560 |    |
| 560             | 1760 | 910  | 100 | 120 n6                      | 210            | 515              | 110 n6                       | 180            | 515              | 270 n6         | 450            | 689            | 960  | 265            | 354            | 624            | 410            | 440            | 630 |    |
| 630             | 1980 | 1010 | 125 | 140 n6                      | 240            | -                | 120 n6                       | 210            | -                | 300 n6         | 500            | -              | 1080 | 295            | 384            | 694            | 480            | 490            | 710 |    |
| 710             | 2220 | 1110 | 125 | 160 n6                      | 270            | -                | 140 n6                       | 240            | -                | 340 n6         | 550            | -              | 1210 | 335            | 440            | 780            | 500            | 540            | 800 |    |
| 800             | 2500 | 1320 | 160 | 180 n6                      | 310            | -                | 180 n6                       | 270            | -                | 390 n6         | 650            | -              | 1360 | 375            | 533            | 823            | 595            | 645            | 900 |    |

| Tip<br>Type<br>S2N | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak cıvataları<br>Found. Bolts<br>Adet<br>Qty. |   | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>Miktarı<br>Max. oil<br>quantity<br>Litres |
|--------------------|------|----------------|----------------|----------------|----------------|----------------|---|---|------------------------------------|---|
| Büyükük<br>Size    | mm   | mm             | mm             | mm             | mm             | mm             | mm  |   |                                    |   |
| 160                | 375  | 225            | -              | 245            | 45             | 120            | M 16  | 6 | 135                                | 8,5   |
| 180                | 415  | 250            | -              | 275            | 50             | 135            | M 16  | 6 | 185                                | 11,5  |
| 200                | 462  | 280            | -              | 300            | 52,5           | 155            | M 20  | 6 | 260                                | 16,5  |
| 225                | 515  | 310            | -              | 335            | 67,5           | 165            | M 20  | 6 | 350                                | 23  |
| 250                | 574  | 350            | -              | 380            | 65             | 190            | M 24  | 6 | 480                                | 32  |
| 280                | 646  | 380            | -              | 430            | 80             | 205            | M 24  | 6 | 680                                | 46  |
| 320                | 721  | 420            | -              | 490            | 95             | 220            | M 30  | 6 | 950                                | 65  |
| 360                | 806  | 475            | -              | 520            | 100            | 250            | M 30  | 6 | 1250                               | 90  |
| 400                | 906  | 520            | -              | 590            | 120            | 265            | M 36  | 6 | 1750                               | 125   |
| 450                | 1006 | -              | 400            | 650            | 125            | 315            | M 36  | 6 | 2450                               | 180   |
| 500                | 1121 | -              | 440            | 710            | 140            | 340            | M 42  | 8 | 3400                               | 250   |
| 560                | 1263 | -              | 490            | 790            | 145            | 390            | M 42  | 8 | 4600                               | 350   |
| 630                | 1406 | -              | 540            | 870            | 180            | 425            | M 48  | 8 | 6400                               | 420   |
| 710                | 1583 | -              | 610            | 950            | 195            | 480            | M 48  | 8 | 8800                               | 520   |
| 800                | 1783 | -              | 680            | 1140           | 230            | 535            | M 56  | 8 | 12500                              | 600   |

• Ölçü deęiřtirme hakkımız saklıdır.  
• Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

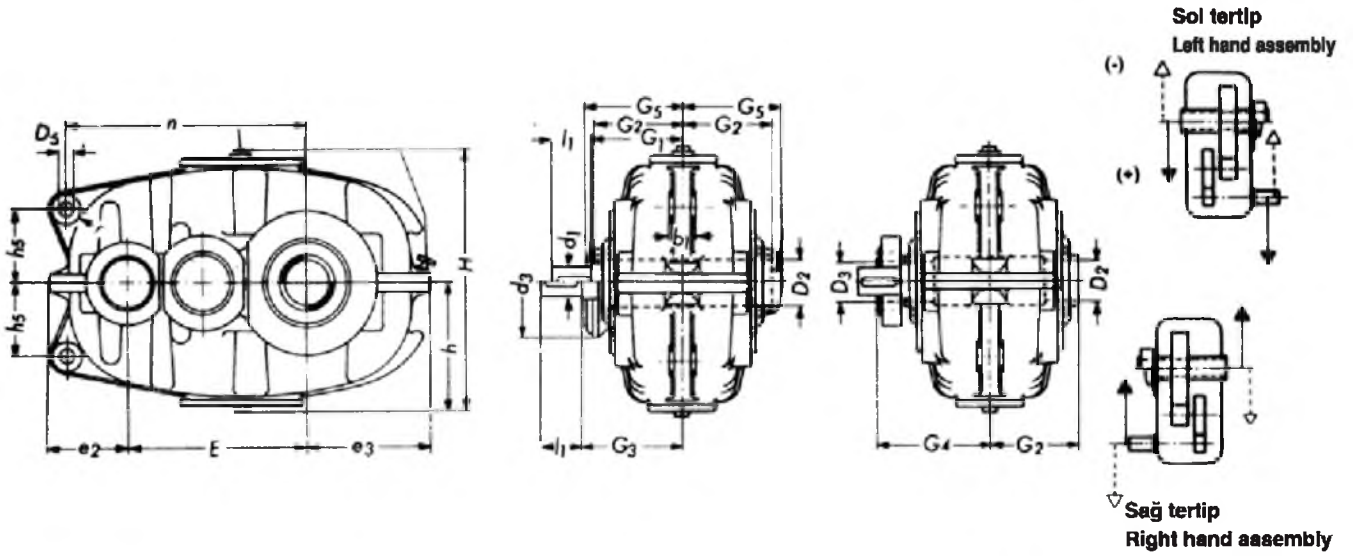
- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
- 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.

Larger gear units against enquiry.

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
- 2) G3 is furnished only in connection with a fan.

**REMAS iki kademeli  
delik milli redüktörler  
Tip S20**

**REMAS double reduction shaft  
mounting helical gear units  
Type S20**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>S20<br>Boyutluk<br>Size | Mil uçları Shaft end 1)   |                |                 |                          |                |                 | Delik mil<br>Hollow shaft 5) |                | D <sub>3</sub> | d <sub>3</sub> | E   | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | Sıkma elemanı<br>Shrink disc |         |                | h |
|--|---------------------------|----------------|-----------------|--------------------------|----------------|-----------------|------------------------------|----------------|----------------|----------------|-----|----------------|----------------|----------------|----------------|------------------------------|---------|----------------|---|
|  | i <sub>N</sub> = 7,1-11,2 |                |                 | i <sub>N</sub> = 12,5-20 |                |                 | D <sub>2</sub>               | D <sub>3</sub> |                |                |     |                |                |                |                | G <sub>4</sub>               | Type    | G <sub>5</sub> |   |
|  | d <sub>1</sub>            | l <sub>1</sub> | G <sub>30</sub> | d <sub>1</sub>           | l <sub>1</sub> | G <sub>30</sub> | mm                           | mm             |                |                |     |                |                |                |                | mm                           | 2008 4) | mm             |   |
| 160                                    | 38 m6                     | 60             | 160             | 32 m6                    | 60             | -               | 85 H7 <sub>3</sub>           | -              | 202            | 272            | 126 | 188            | 140            | 135            | -              | -                            | 170     | 192            |   |
| 180                                    | 42 m6                     | 70             | 180             | 32 m6                    | 60             | -               | 100 H7 <sub>3</sub>          | -              | 251            | 305            | 134 | 209            | 150            | 150            | -              | -                            | 185     | 212            |   |
| 200                                    | 48 m6                     | 80             | 190             | 38 m6                    | 60             | 190             | 110 H7 <sub>3</sub>          | -              | 251            | 340            | 148 | 238            | 165            | 165            | -              | -                            | 200     | 234            |   |
| 225                                    | 48 m6                     | 80             | 220             | 42 m6                    | 70             | 220             | 120 H7 <sub>3</sub>          | -              | 315            | 385            | 168 | 263            | 185            | 177,5          | -              | -                            | 215     | 262            |   |
| 250                                    | 60 m6                     | 105            | 235             | 48 m6                    | 80             | 235             | 140 H7 <sub>3</sub>          | -              | 315            | 430            | 184 | 293            | 210            | 200            | -              | -                            | 240     | 291            |   |
| 280                                    | 65 m6                     | 105            | 285             | 55 m6                    | 90             | 285             | 150 H7 <sub>4</sub>          | 140 H7         | 385            | 480            | 195 | 325            | 235            | 230            | 335            | 195                          | -       | 328            |   |
| 320                                    | 75 m6                     | 120            | 305             | 60 m6                    | 105            | 305             | 170 H7 <sub>4</sub>          | 160 H7         | 385            | 545            | 219 | 364            | 260            | 250            | 375            | 220                          | -       | 363            |   |
| 360                                    | 85 m6                     | 140            | 335             | 70 m6                    | 120            | 335             | 180 H7 <sub>4</sub>          | 170 H7         | 425            | 610            | 238 | 398            | 280            | 280            | 405            | 240                          | -       | 405            |   |
| 400                                    | 90 m6                     | 160            | 380             | 80 m6                    | 140            | 380             | 200 H7 <sub>4</sub>          | 190 H7         | 529            | 680            | 275 | 445            | 310            | 315            | 450            | 260                          | -       | 455            |   |
| 450                                    | 100 m6                    | 180            | 420             | 85 m6                    | 140            | 420             | 230 H7 <sub>4</sub>          | 220 H7         | 589            | 770            | 305 | 505            | 350            | 345            | 505            | 300                          | -       | 505            |   |
|  | i <sub>N</sub> = 7,1-12,5 |                |                 | i <sub>N</sub> = 14-18   |                |                 |                              |                |                |                |     |                |                |                |                |                              |         |                |   |
| 500                                    | 110 n6                    | 180            | 460             | 95 m6                    | 160            | 460             | 260 H7 <sub>4</sub>          | 245 H7         | 649            | 860            | 337 | 557            | 390            | 380            | 550            | 340                          | -       | 560            |   |
| 560                                    | 120 n6                    | 210            | 515             | 110 n6                   | 180            | 515             | 300 H7 <sub>4</sub>          | 285 H7         | 689            | 960            | 354 | 624            | 410            | 425            | 600            | 380                          | -       | 632            |   |
| 630                                    | 140 n6                    | 240            | -               | 120 n6                   | 210            | -               | 340 H7 <sub>4</sub>          | 325 H7         | -              | 1080           | 384 | 694            | 460            | 460            | 660            | 420                          | -       | 696            |   |
| 710                                    | 160 n6                    | 270            | -               | 140 n6                   | 240            | -               | 370 H7 <sub>4</sub>          | 355 H7         | -              | 1210           | 440 | 780            | 500            | 505            | 705            | 460                          | -       | 783            |   |

| Tip<br>Type<br>S20<br>Boyutluk<br>Size | Bağlantı ölçüleri<br>Torque reaction bolt holes |                |                       |                |      |     | Ağırlık<br>Average<br>weight<br>kg | Max.yağ<br>Miktarı<br>Max.oil<br>quantity<br>Litre<br>Litres |
|--|---|----------------|-----------------------|----------------|------|-----|------------------------------------|--|
|  | H   | b <sub>1</sub> | D <sub>5</sub><br>H11 | h <sub>5</sub> | n    | r   |                                    |  |
|  | mm  | mm             | mm                    | mm             | mm   | mm  |                                    |  |
| 160                                    | 390   | 32             | 22                    | 115            | 367  | 23  | 120                                | 4,5  |
| 180                                    | 430   | 40             | 25                    | 130            | 410  | 26  | 160                                | 6,3  |
| 200                                    | 474   | 45             | 30                    | 145            | 450  | 30  | 225                                | 9  |
| 225                                    | 530   | 50             | 35                    | 160            | 515  | 35  | 310                                | 13   |
| 250                                    | 588   | 55             | 40                    | 180            | 565  | 40  | 420                                | 18   |
| 280                                    | 662   | 60             | 40                    | 200            | 630  | 40  | 600                                | 25   |
| 320                                    | 732   | 70             | 45                    | 230            | 715  | 46  | 830                                | 36   |
| 360                                    | 812   | 80             | 50                    | 260            | 795  | 53  | 1100                               | 50   |
| 400                                    | 912   | 90             | 55                    | 290            | 895  | 55  | 1550                               | 70   |
| 450                                    | 1012  | 105            | 60                    | 325            | 1000 | 60  | 2150                               | 100  |
| 500                                    | 1122  | 105            | 65                    | 370            | 1120 | 70  | 3000                               | 140  |
| 560                                    | 1266  | 110            | 70                    | 420            | 1225 | 80  | 4000                               | 195  |
| 630                                    | 1392  | 110            | 80                    | 460            | 1380 | 90  | 5600                               | 280  |
| 710                                    | 1566  | 130            | 90                    | 520            | 1490 | 100 | 7700                               | 390  |

• Ölçü değiştirme hakkımız saklıdır.  
• Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
- 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.
- 3) Delikli mil kaması DIN 6885 kısım 1'e göre
- 4) Delikli mil bağlantı elemanı standart
- 5) Delikli mil tesbiti bakınız sayfa 35'den 37'ye.

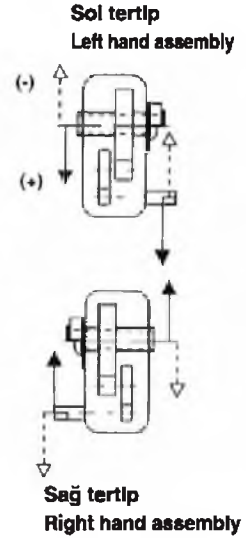
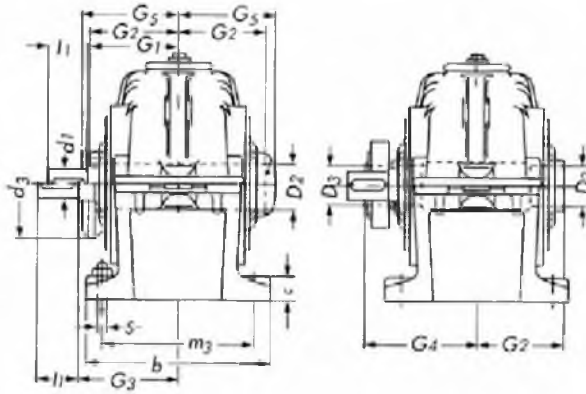
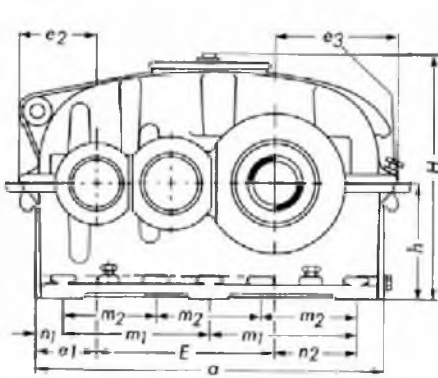
Larger gear units against enquiry

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped catering hole to DIN 332 form DS
- 2) G3 is furnished only in connection with a fan.
- 3) Hollow shaft with parallel keyway to DIN 6885/1.
- 4) Hollow shaft with shrink disc to standard.
- 5) See pages 35 to 37 for fitting of hollow shaft units.



**REMAS iki kademeli Helis dişli delik milli ayaklı redüktörler  
Tip S2A**

**REMAS double reduction shaft mounting helical gear units  
Type S2A**



| Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities |      |      |     |  |     |     |   |     |     |                              |                |                      |      |                |                |                |                      |                |  |
|---|------|------|-----|--|-----|-----|---|-----|-----|------------------------------|----------------|----------------------|------|----------------|----------------|----------------|----------------------|----------------|--|
| Tip<br>Type<br>S2A  | a    | b    | c   | Mil uçları Shaft end 1)  |     |     |   |     |     | Delik mil<br>Hollow shaft 5) |                | d <sub>6</sub><br>6) | E    | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub><br>2) | G <sub>2</sub> |  |
|   |      |      |     | d <sub>1</sub>   L <sub>1</sub>   G <sub>20</sub><br>l <sub>N</sub> = 7,1-11,2 |     |     | d <sub>1</sub>   L <sub>1</sub>   G <sub>20</sub><br>l <sub>N</sub> = 12,5-20 |     |     | D <sub>2</sub>               | D <sub>3</sub> |                      |      |                |                |                |                      |                |  |
| Büyükük<br>Size   | mm   | mm   | mm  | mm   | mm  | mm  | mm  | mm  | mm  | mm                           | mm             | mm                   | mm   | mm             | mm             | mm             | mm                   | mm             |  |
| 160   | 540  | 290  | 32  | 38 m6  | 60  | 160 | 32 m6   | 60  | -   | 85 H7                        | -              | 202                  | 272  | 103            | 126            | 188            | 140                  | 135            |  |
| 180   | 600  | 320  | 32  | 42 m6  | 70  | 180 | 32 m6   | 60  | -   | 100 H7                       | -              | 251                  | 305  | 110            | 134            | 209            | 150                  | 150            |  |
| 200   | 665  | 355  | 40  | 48 m6  | 80  | 190 | 38 m6   | 60  | 190 | 110 H7                       | -              | 251                  | 340  | 117,5          | 148            | 238            | 165                  | 165            |  |
| 225   | 755  | 390  | 40  | 48 m6  | 80  | 220 | 42 m6   | 70  | 220 | 120 H7                       | -              | 315                  | 385  | 137,5          | 168            | 263            | 185                  | 177,5          |  |
| 250   | 830  | 450  | 50  | 60 m6  | 105 | 235 | 48 m6   | 80  | 235 | 140 H7                       | -              | 315                  | 430  | 145            | 184            | 293            | 210                  | 200            |  |
| 280   | 920  | 500  | 50  | 85 m6  | 105 | 285 | 55 m6   | 90  | 285 | 150 H7                       | 140 H7         | 385                  | 480  | 155            | 195            | 325            | 235                  | 230            |  |
| 320   | 1030 | 570  | 63  | 75 m6  | 120 | 305 | 60 m6   | 105 | 305 | 170 H7                       | 160 H7         | 385                  | 545  | 170            | 219            | 364            | 260                  | 250            |  |
| 360   | 1150 | 600  | 63  | 85 m6  | 140 | 335 | 70 m6   | 120 | 335 | 180 H7                       | 170 H7         | 425                  | 610  | 190            | 238            | 398            | 280                  | 280            |  |
| 400   | 1280 | 690  | 80  | 90 m6  | 160 | 380 | 80 m6   | 140 | 380 | 200 H7                       | 190 H7         | 529                  | 680  | 215            | 275            | 445            | 310                  | 315            |  |
| 450   | 1450 | 750  | 80  | 100 m6   | 180 | 420 | 85 m6   | 140 | 420 | 230 H7                       | 220 H7         | 589                  | 770  | 240            | 305            | 505            | 350                  | 345            |  |
|   |      |      |     | l <sub>N</sub> = 7,1 - 12,5  |     |     | l <sub>N</sub> = 14 - 18  |     |     |                              |                |                      |      |                |                |                |                      |                |  |
| 500   | 1600 | 830  | 100 | 110 n6   | 180 | 460 | 95 m6   | 160 | 460 | 260 H7                       | 245 H7         | 649                  | 860  | 260            | 337            | 557            | 390                  | 380            |  |
| 560   | 1760 | 910  | 100 | 120 n6   | 210 | 515 | 110 n6  | 180 | 515 | 300 H7                       | 285 H7         | 689                  | 960  | 265            | 354            | 624            | 410                  | 425            |  |
| 630   | 1980 | 1010 | 125 | 140 n6   | 240 | -   | 120 n6  | 210 | -   | 340 H7                       | 325 H7         | -                    | 1080 | 295            | 384            | 694            | 460                  | 460            |  |
| 710   | 2220 | 1110 | 125 | 160 n6   | 270 | -   | 140 n6  | 240 | -   | 370 H7                       | 355 H7         | -                    | 1210 | 335            | 440            | 780            | 500                  | 505            |  |
| 800   | 2500 | 1320 | 160 | 180 n6   | 310 | -   | 160 n6  | 270 | -   | 410 H7                       | 395 H7         | -                    | 1360 | 375            | 533            | 923            | 595                  | 605            |  |

| Tip<br>Type<br>S2A | Sıkma elemanı<br>Shrink disc |      | G <sub>5</sub> | h   | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average<br>weight | Max.yağ<br>miktarı<br>Max.oil<br>quantity<br>Litres |
|--------------------|------------------------------|------|----------------|-----|------|----------------|----------------|----------------|----------------|----------------|---------------------------------|--------------|------------------------------|---|
|                    | G <sub>4</sub>               | Type |                |     |      |                |                |                |                |                | s                               | Adet<br>Qty. |                              |   |
| Büyükük<br>Size    |                              | 2008 |                |     |      |                |                |                |                |                |                                 |              |                              |   |
| 160                | -                            | -    | 170            | 180 | 375  | 225            | -              | 245            | 45             | 120            | M 16                            | 6            | 135                          | 7,5   |
| 180                | -                            | -    | 185            | 200 | 415  | 250            | -              | 275            | 50             | 135            | M 16                            | 6            | 185                          | 11  |
| 200                | -                            | -    | 200            | 225 | 462  | 280            | -              | 300            | 52,5           | 155            | M 20                            | 6            | 260                          | 15  |
| 225                | -                            | -    | 215            | 250 | 515  | 310            | -              | 335            | 67,5           | 165            | M 20                            | 6            | 350                          | 21  |
| 250                | -                            | -    | 240            | 280 | 574  | 350            | -              | 380            | 65             | 190            | M 24                            | 6            | 480                          | 28  |
| 280                | 335                          | 195  | -              | 315 | 646  | 380            | -              | 430            | 80             | 205            | M 24                            | 6            | 680                          | 40  |
| 320                | 375                          | 220  | -              | 355 | 721  | 420            | -              | 490            | 95             | 220            | M 30                            | 6            | 950                          | 56  |
| 360                | 405                          | 240  | -              | 400 | 806  | 475            | -              | 520            | 100            | 250            | M 30                            | 6            | 1250                         | 80  |
| 400                | 450                          | 260  | -              | 450 | 906  | 520            | -              | 590            | 120            | 265            | M 36                            | 6            | 1750                         | 110   |
| 450                | 505                          | 300  | -              | 500 | 1006 | -              | 400            | 650            | 125            | 315            | M 36                            | 8            | 2450                         | 150   |
| 500                | 550                          | 340  | -              | 560 | 1121 | -              | 440            | 710            | 140            | 340            | M 42                            | 8            | 3400                         | 220   |
| 560                | 600                          | 380  | -              | 630 | 1263 | -              | 490            | 790            | 145            | 390            | M 42                            | 8            | 4600                         | 310   |
| 630                | 660                          | 420  | -              | 710 | 1406 | -              | 540            | 870            | 180            | 425            | M 48                            | 8            | 6400                         | 370   |
| 710                | 705                          | 460  | -              | 800 | 1583 | -              | 610            | 950            | 195            | 480            | M 48                            | 8            | 8800                         | 430   |
| 800                | 825                          | 500  | -              | 900 | 1783 | -              | 680            | 1140           | 230            | 535            | M 56                            | 8            | 12500                        | 600   |

- Ölçü değiştirme hakkımız saklıdır.
- Dimensions are subject to alteration without notice

**Nominal güç**  
**Termal kapasite**  
**Tipler S3N S3O S3A**

**Nom. power ratings**  
**Thermal capacities**  
**Types S3N S3O S3A**

| Tahvil oranı $i_N$ , Devirler $n_{1N}$ $n_{2N}$ Nominal güç $P_{1N}$ - <b>Transmission <math>i_N</math>, Speed <math>n_{1N}</math> and <math>n_{2N}</math>, nom power ratings <math>P_{1N}</math></b> |                     |                     |   |                  |                 |                |                 |                  |                   |                   |                   |                   |                    |                     |                      |                       |                      |                   |
|---|---------------------|---------------------|---|------------------|-----------------|----------------|-----------------|------------------|-------------------|-------------------|-------------------|-------------------|--------------------|---------------------|----------------------|-----------------------|----------------------|-------------------|
| $i_N$   | $n_{1N}$<br>1/Min.  | $n_{2N}$<br>r.p.m   | Redüktör Büyüklüğü - <b>Gear unit sizes</b> |                  |                 |                |                 |                  |                   |                   |                   |                   |                    |                     |                      |                       |                      |                   |
|   |                     |                     | 160   | 180              | 200             | 225            | 250             | 280              | 320               | 360               | 400               | 450               | 500                | 560                 | 630                  | 710                   | 800                  |                   |
| Nominal güç $P_{1N}$ - kW - <b>Nom. power ratings <math>P_{1N}</math> in kW</b>   |                     |                     |   |                  |                 |                |                 |                  |                   |                   |                   |                   |                    |                     |                      |                       |                      |                   |
| 20  | 1500<br>1000<br>750 | 75<br>50<br>38      |   |                  |                 |                |                 |                  |                   |                   | 460<br>300<br>245 | 600<br>400<br>310 | 880<br>580<br>450  | 1350<br>900<br>700  | 1850<br>1250<br>990  | 2500*<br>1650<br>1300 | —<br>2400<br>1900    | —<br>3400<br>2750 |
| 22,4  | 1500<br>1000<br>750 | 67<br>44<br>33      | 35<br>23<br>18                              | 52<br>34<br>26   | 69<br>49<br>37  | 98<br>66<br>51 | 133<br>90<br>70 | 183<br>128<br>96 | 273<br>188<br>138 | 410<br>270<br>220 | 540<br>360<br>280 | 800<br>530<br>410 | 1200<br>800<br>620 | 1650<br>1100<br>880 | 2200<br>1450<br>1150 | —<br>2150<br>1700     | —<br>3000<br>2450    |                   |
| 25  | 1500<br>1000<br>750 | 60<br>40<br>30      | 31<br>21<br>16                              | 46<br>30<br>23   | 61<br>41<br>30  | 88<br>58<br>44 | 114<br>79<br>59 | 159<br>109<br>84 | 244<br>164<br>124 | 370<br>255<br>200 | 480<br>320<br>245 | 710<br>470<br>360 | 1050<br>730<br>550 | 1500<br>1050<br>780 | 2000<br>1350<br>1050 | —<br>2000<br>1500     | —<br>2900<br>2200    |                   |
| 28  | 1500<br>1000<br>750 | 54<br>36<br>27      | 27<br>18<br>13                              | 42<br>28<br>21   | 55<br>37<br>27  | 79<br>52<br>39 | 110<br>72<br>55 | 144<br>100<br>76 | 223<br>148<br>113 | 330<br>230<br>165 | 430<br>285<br>215 | 630<br>430<br>320 | 920<br>640<br>490  | 1300<br>900<br>690  | 1750<br>1150<br>900  | —<br>1750<br>1350     | —<br>2550<br>1950    |                   |
| 31,5  | 1500<br>1000<br>750 | 48<br>32<br>24      | 25<br>16<br>12                              | 37<br>25<br>18   | 47<br>31<br>24  | 69<br>46<br>35 | 94<br>62<br>48  | 129<br>87<br>65  | 198<br>134<br>100 | 294<br>199<br>149 | 398<br>273<br>203 | 568<br>378<br>288 | 840<br>580<br>440  | 1200<br>820<br>630  | 1600<br>1100<br>820  | —<br>1600<br>1200     | —<br>2300<br>1750    |                   |
| 35,5  | 1500<br>1000<br>750 | 42<br>28<br>21      | 22<br>15<br>11                              | 33<br>22<br>16   | 45<br>29<br>22  | 62<br>41<br>31 | 87<br>58<br>43  | 119<br>81<br>61  | 178<br>118<br>91  | 280<br>185<br>145 | 360<br>240<br>180 | 520<br>350<br>265 | 780<br>520<br>400  | 1100<br>730<br>560  | 1450<br>970<br>730   | —<br>1450<br>1100     | —<br>2050<br>1550    |                   |
| 40  | 1500<br>1000<br>750 | 38<br>25<br>19      | 19<br>13<br>10                              | 29<br>20<br>14   | 42<br>28<br>21  | 56<br>37<br>28 | 78<br>52<br>40  | 110<br>73<br>56  | 160<br>110<br>81  | 239<br>164<br>124 | 319<br>214<br>159 | 470<br>320<br>240 | 700<br>470<br>360  | 990<br>660<br>500   | 1300<br>870<br>660   | —<br>1300<br>1000     | —<br>1850<br>1400    |                   |
| 45  | 1500<br>1000<br>750 | 33<br>22<br>17      | 18<br>12<br>9                               | 26<br>17<br>13   | 35<br>24<br>18  | 49<br>32<br>26 | 69<br>46<br>35  | 97<br>64<br>50   | 144<br>96<br>74   | 220<br>150<br>115 | 285<br>190<br>145 | 420<br>280<br>215 | 630<br>420<br>320  | 880<br>590<br>455   | 1150<br>770<br>600   | —<br>1200<br>890      | —<br>1650<br>1250    |                   |
| 50  | 1500<br>1000<br>750 | 30<br>20<br>15      | 15<br>11<br>8                               | 22<br>15<br>11   | 31<br>21<br>15  | 45<br>30<br>23 | 62<br>42<br>31  | 86<br>59<br>43   | 129<br>86<br>65   | 200<br>135<br>100 | 250<br>170<br>130 | 370<br>245<br>190 | 560<br>370<br>290  | 780<br>520<br>410   | 1050<br>700<br>540   | 1550<br>1050<br>800   | 2250<br>1500<br>1150 |                   |
| 56  | 1500<br>1000<br>750 | 27<br>18<br>13,4    | 13<br>9,2<br>7                              | 19<br>13<br>9    | 27<br>18<br>14  | 40<br>27<br>20 | 56<br>37<br>28  | 78<br>53<br>40   | 114<br>77<br>58   | 174<br>119<br>91  | 225<br>150<br>115 | 320<br>215<br>165 | 500<br>340<br>255  | 700<br>480<br>360   | 920<br>620<br>480    | 1400<br>940<br>710    | 1950<br>1350<br>990  |                   |
| 63  | 1500<br>1000<br>750 | 24<br>16<br>12      | 11<br>7,2<br>6                              | 16<br>10<br>8    | 23<br>15<br>11  | 34<br>23<br>17 | 44<br>29<br>22  | 62<br>42<br>32   | 104<br>69<br>52   | 149<br>104<br>77  | 200<br>135<br>105 | 290<br>195<br>150 | 440<br>300<br>230  | 630<br>430<br>330   | 810<br>550<br>430    | 1250<br>840<br>630    | 1750<br>1150<br>900  |                   |
| 71  | 1500<br>1000<br>750 | 21<br>14<br>10,6    | 10<br>6,8<br>5                              | 14<br>9,5<br>7   | 21<br>14<br>10  | 30<br>21<br>15 | 39<br>26<br>20  | 56<br>38<br>29   | 90<br>60<br>45    | 134<br>93<br>69   | 180<br>120<br>94  | 250<br>170<br>130 | 400<br>270<br>205  | 560<br>380<br>285   | 740<br>500<br>380    | 1100<br>740<br>560    | 1550<br>1050<br>790  |                   |
| 80  | 1500<br>1000<br>750 | 18,8<br>12,5<br>9,4 | 9,1<br>6,1<br>4,3                           | 13<br>8,9<br>6,8 | 19<br>12<br>10  | 28<br>19<br>14 | 35<br>24<br>18  | 51<br>34<br>26   | 81<br>54<br>41    | 119<br>81<br>62   | 160<br>105<br>83  | 230<br>155<br>115 | 350<br>240<br>180  | 490<br>340<br>255   | 650<br>450<br>340    | 960<br>650<br>500     | 1400<br>940<br>700   |                   |
| 90  | 1500<br>1000<br>750 | 16,7<br>11,1<br>8,3 | 8,2<br>5,3<br>4                             | 11<br>7,5<br>6   | 17<br>11<br>8   | 25<br>17<br>13 | 32<br>21<br>16  | 46<br>30<br>23   | 74<br>49<br>37    | 110<br>73<br>56   | 145<br>97<br>73   | 210<br>140<br>105 | 320<br>215<br>165  | 460<br>310<br>230   | 600<br>400<br>300    | 880<br>590<br>440     | 1250<br>830<br>630   |                   |
| 100   | 1500<br>1000<br>750 | 15<br>10<br>7,5     | 7,2<br>4,5<br>3,3                           | 10<br>6,5<br>5,1 | 16<br>11<br>7,5 | 23<br>15<br>12 | 29<br>20<br>15  | 43<br>29<br>22   | 60<br>40<br>30    |                   |                   |                   |                    |                     |                      |                       |                      |                   |

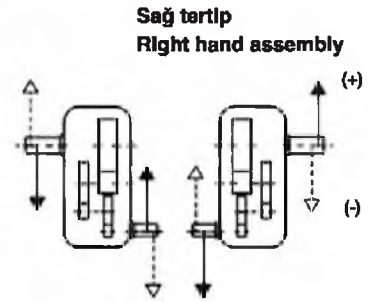
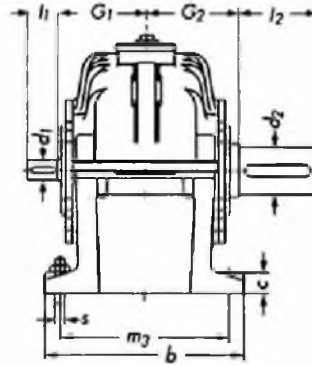
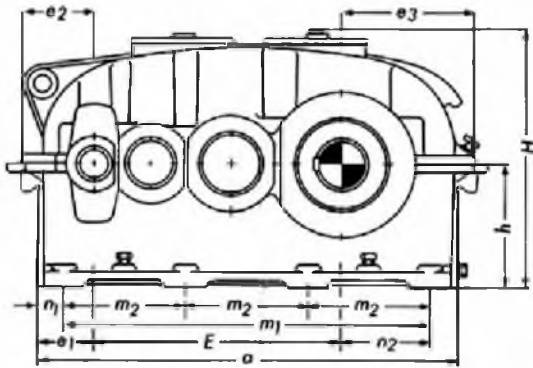
| Termal kapasite • <b>Thermal capacities</b>   |  |   |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|---|--|---|-----------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
|   | Rüzgar hızı<br><b>Air flow</b>   | Redüktör büyüklüğü • <b>Gear unit sizes</b>                   |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
|   |  | 160   | 180                   | 200 | 225 | 250 | 280 | 320 | 360 | 400 | 450 | 500 | 560 | 630 | 710 | 800 |     |    |
| Termal kapasite $P_{G1}$ - kW • <b>Thermal capacities <math>P_{G1}</math> in kw</b> |  |   |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| $P_{G1}$  | Kapalı küçük hacimlerde soğutmasız<br><b>without cooling for small confined spaces</b>   | $w$<br>$\geq 0,5$ m/s   | 24                    | 31  | 37  | 46  | 58  | 71  | 88  | 115 | 135 | 165 | 210 | 260 | 330 | 400 | 510 |    |
|   | Geniş hacimlerde soğutmasız<br><b>without cooling for large premises, workshops etc.</b> | $w$<br>$> 1,4$ m/s  | 34                    | 43  | 52  | 65  | 82  | 100 | 120 | 160 | 190 | 235 | 300 | 370 | 460 | 570 | 720 |    |
|   | Açık yerlerde soğutmasız<br><b>without cooling in the open</b>                           | $w$<br>$> 3,7$ m/s  | 46                    | 58  | 69  | 88  | 110 | 135 | 165 | 210 | 250 | 310 | 400 | 480 | 610 | 760 | 960 |    |
| Termal kapasite $P_{G3}$ - kW • <b>Thermal capacities <math>P_{G3}</math> in kw</b> |  |   |                       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |
| $P_{G3}$  | Serpantinli Soğutma<br><b>with cooling coil</b>  | Kapalı küçük hacimlerde<br><b>for small confined spaces</b>   | $w$<br>$\geq 0,5$ m/s | 70  | 77  | 105 | 130 | 150 | 160 | 180 | 210 | 350 | 370 | 430 | 480 |     |     |    |
|   |  | Büyük mahallerde<br><b>for large premises, workshops etc.</b> | $w$<br>$> 1,4$ m/s    | 80  | 89  | 120 | 150 | 175 | 190 | 210 | 255 | 400 | 440 | 520 | 590 | 1)  | 1)  | 1) |
|   |  | Açıkta<br><b>in the open</b>                                  | $w$<br>$> 3,7$ m/s    | 91  | 105 | 135 | 180 | 200 | 225 | 255 | 310 | 460 | 510 | 620 | 700 |     |     |    |

Isı hesabına göre gerekliyse soğutma sistemi konulur  
Auxiliary cooling must be provided if the thermal rating exceeds the thermal capacity.

- 1) Soğutmayı sorunuz  
1) Details of cooling on request

**REMAS üç kademeli, Helis dişli, Ayaklı redüktörler**  
**Tip S3N**

**REMAS triple reduction helical gear units with feet**  
**Type S3N**



**Sol tertip**  
**Left hand assembly**

**Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities**

| Tip<br>Type<br>S3N<br><br>Büyükük<br>Size | a<br>mm | b<br>mm | c<br>mm | Mil uçları Shaft end 1)         |     |                                 |     |                                 |     | E<br>mm | e <sub>1</sub><br>mm | e <sub>2</sub><br>mm | e <sub>3</sub><br>mm | G <sub>1</sub><br>mm | G <sub>2</sub><br>mm | h<br>mm | H<br>mm |
|---|---------|---------|---------|---------------------------------|-----|---------------------------------|-----|---------------------------------|-----|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|---------|
|   |         |         |         | d <sub>1</sub>   l <sub>1</sub> |     | d <sub>1</sub>   l <sub>1</sub> |     | d <sub>2</sub>   l <sub>2</sub> |     |         |                      |                      |                      |                      |                      |         |         |
|   |         |         |         | i <sub>N</sub> = 22,4 - 71      |     | i <sub>N</sub> = 80 - 100       |     |                                 |     |         |                      |                      |                      |                      |                      |         |         |
|   |         |         |         | mm                              | mm  | mm                              | mm  | mm                              | mm  | mm      | mm                   | mm                   | mm                   | mm                   | mm                   | mm      |         |
| 160                                       | 600     | 290     | 32      | 24 k6                           | 40  | 19 k6                           | 35  | 75 m6                           | 120 | 352     | 83                   | 107                  | 188                  | 130                  | 140                  | 180     | 375     |
| 180                                       | 665     | 320     | 32      | 28 m6                           | 50  | 22 k6                           | 35  | 85 m6                           | 140 | 395     | 85                   | 109                  | 209                  | 145                  | 155                  | 200     | 415     |
| 200                                       | 745     | 355     | 40      | 32 m6                           | 60  | 22 k6                           | 35  | 95 m6                           | 160 | 440     | 97,5                 | 128                  | 238                  | 160                  | 170                  | 225     | 462     |
| 225                                       | 840     | 390     | 40      | 38 m6                           | 60  | 24 k6                           | 40  | 100 m6                          | 180 | 497     | 110,5                | 141                  | 263                  | 175                  | 190                  | 250     | 511     |
| 250                                       | 930     | 450     | 50      | 42 m6                           | 70  | 32 m6                           | 60  | 110 n6                          | 180 | 555     | 120                  | 158                  | 293                  | 200                  | 215                  | 280     | 570     |
| 280                                       | 1025    | 500     | 50      | 48 m6                           | 80  | 38 m6                           | 60  | 130 n6                          | 210 | 620     | 120                  | 160                  | 325                  | 225                  | 240                  | 315     | 644     |
| 320                                       | 1160    | 570     | 63      | 48 m6                           | 80  | 42 m6                           | 70  | 140 n6                          | 240 | 705     | 140                  | 189                  | 364                  | 255                  | 270                  | 355     | 719     |
|   |         |         |         | i <sub>N</sub> = 20 - 35,5      |     | i <sub>N</sub> = 40 - 90        |     |                                 |     |         |                      |                      |                      |                      |                      |         |         |
| 360                                       | 1280    | 600     | 63      | 60 m6                           | 105 | 48 m6                           | 80  | 170 n6                          | 270 | 790     | 140                  | 188                  | 398                  | 275                  | 290                  | 400     | 806     |
| 400                                       | 1420    | 690     | 80      | 65 m6                           | 105 | 55 m6                           | 90  | 180 n6                          | 310 | 880     | 155                  | 215                  | 445                  | 305                  | 320                  | 450     | 906     |
| 450                                       | 1610    | 750     | 80      | 70 m6                           | 120 | 60 m6                           | 105 | 210 n6                          | 350 | 995     | 175                  | 240                  | 505                  | 345                  | 360                  | 500     | 1006    |
|   |         |         |         | i <sub>N</sub> = 20 - 45        |     | i <sub>N</sub> = 50 - 90        |     |                                 |     |         |                      |                      |                      |                      |                      |         |         |
| 500                                       | 1790    | 830     | 100     | 80 m6                           | 140 | 65 m6                           | 105 | 240 n6                          | 400 | 1110    | 200                  | 277                  | 557                  | 385                  | 400                  | 560     | 1121    |
| 560                                       | 2010    | 910     | 100     | 95 m6                           | 160 | 75 m6                           | 120 | 270 n6                          | 450 | 1240    | 235                  | 324                  | 624                  | 400                  | 440                  | 630     | 1261    |
| 630                                       | 2260    | 1030    | 125     | 110 n6                          | 180 | 85 m6                           | 140 | 300 n6                          | 500 | 1400    | 255                  | 344                  | 694                  | 460                  | 500                  | 710     | 1406    |
| 710                                       | 2540    | 1160    | 125     | 120 n6                          | 210 | 90 m6                           | 160 | 340 n6                          | 550 | 1570    | 295                  | 400                  | 780                  | 520                  | 560                  | 800     | 1581    |
| 800                                       | 2850    | 1320    | 160     | 140 n6                          | 240 | 100 m6                          | 180 | 390 n6                          | 650 | 1760    | 335                  | 448                  | 868                  | 585                  | 645                  | 900     | 1783    |

| Tip<br>Type<br>S3N<br><br>Büyükük<br>Size | m <sub>1</sub><br>mm | m <sub>2</sub><br>mm | m <sub>3</sub><br>mm | n <sub>1</sub><br>mm | n <sub>2</sub><br>mm | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktarı<br>Max. oil<br>quantity<br>Litres |
|---|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|--------------|------------------------------------|---|
|   |                      |                      |                      |                      |                      | s                               | Adet<br>Qty. |                                    |   |
|   |                      |                      |                      |                      |                      |                                 |              |                                    |   |
| 160                                       | 510                  | 170                  | 245                  | 45                   | 120                  | M 16                            | 8            | 150                                | 10  |
| 180                                       | 570                  | 190                  | 275                  | 47,5                 | 137,5                | M 16                            | 8            | 205                                | 14  |
| 200                                       | 630                  | 210                  | 300                  | 57,5                 | 150                  | M 20                            | 8            | 285                                | 19  |
| 225                                       | 705                  | 235                  | 335                  | 67,5                 | 165                  | M 20                            | 8            | 390                                | 26  |
| 250                                       | 810                  | 270                  | 380                  | 60                   | 195                  | M 24                            | 8            | 540                                | 36  |
| 280                                       | 855                  | 285                  | 430                  | 85                   | 200                  | M 24                            | 8            | 750                                | 53  |
| 320                                       | 960                  | 320                  | 490                  | 100                  | 215                  | M 30                            | 8            | 1050                               | 75  |
| 360                                       | 1080                 | 360                  | 520                  | 100                  | 250                  | M 30                            | 8            | 1400                               | 115   |
| 400                                       | 1200                 | 400                  | 590                  | 110                  | 275                  | M 36                            | 8            | 1950                               | 160   |
| 450                                       | 1350                 | 450                  | 650                  | 130                  | 310                  | M 36                            | 8            | 2650                               | 220   |
| 500                                       | 1500                 | 500                  | 710                  | 145                  | 335                  | M 42                            | 8            | 3800                               | 300   |
| 560                                       | 1680                 | 560                  | 790                  | 165                  | 370                  | M 42                            | 8            | 5100                               | 450   |
| 630                                       | 1890                 | 630                  | 890                  | 185                  | 420                  | M 48                            | 8            | 7200                               | 520   |
| 710                                       | 2130                 | 710                  | 1000                 | 205                  | 470                  | M 48                            | 8            | 10800                              | 820   |
| 800                                       | 2400                 | 800                  | 1140                 | 225                  | 530                  | M 56                            | 8            | 14000                              | 1150  |

• Ölçü değiştirme hakkımız saklıdır.

• Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

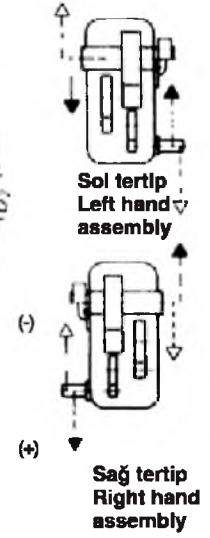
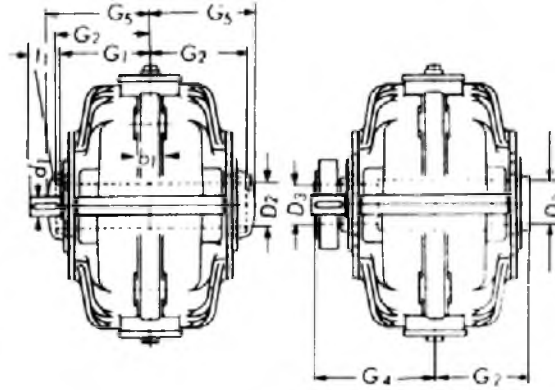
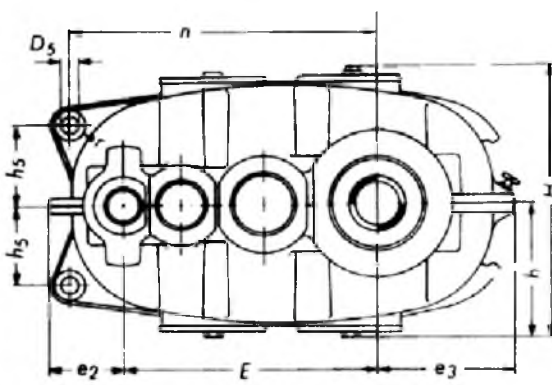
1) Mil kamalan DIN 6885 kısım 1, Form A ve punta yeri  
DIN 332 Form DS.

Larger gear units against enquiry.

1) Shaft end with parallel key to DIN 6885/1 form A and tapped  
centering hole to DIN 332 form DS

**REMAS üç kademeli, Helis dişli,  
Delik milli redüktörler  
Tip S30**

**REMAS triple reduction shaft  
mounting helical gear units  
Type S30**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip Type<br>S30 | Mil uçları • Shaft end <sup>1)</sup> |                |                                    |                | Delik mil<br>Hollow shaft <sup>4)</sup> |                | E    | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | Sıkma elemanı<br>Shrink disc<br>G <sub>4</sub> Type |      | G <sub>6</sub> | h   | H    |
|-----------------|--------------------------------------|----------------|------------------------------------|----------------|---|----------------|------|----------------|----------------|----------------|----------------|---|------|----------------|-----|------|
|                 | d <sub>1</sub>                       | l <sub>1</sub> | d <sub>1</sub>                     | l <sub>1</sub> | D <sub>2</sub>                          | D <sub>3</sub> |      |                |                |                |                | 2008  | 2008 |                |     |      |
| Büyükük<br>Size | i <sub>N</sub> = 22,4 - 71<br>mm mm  |                | i <sub>N</sub> = 80 - 100<br>mm mm |                | mm                                      | mm             | mm   | mm             | mm             | mm             | mm             | mm  | mm   | mm             | mm  | mm   |
| 160             | 24 k6                                | 40             | 19 k6                              | 35             | 85 H7 <sup>2</sup>                      | -              | 352  | 107            | 188            | 130            | 135            | -   | -    | 170            | 192 | 390  |
| 180             | 28 m6                                | 50             | 22 k6                              | 35             | 100 H7 <sup>2</sup>                     | -              | 395  | 109            | 209            | 145            | 150            | -   | -    | 185            | 212 | 430  |
| 200             | 32 m6                                | 60             | 22 k6                              | 35             | 110 H7 <sup>2</sup>                     | -              | 440  | 128            | 238            | 160            | 165            | -   | -    | 200            | 238 | 474  |
| 225             | 38 m6                                | 60             | 24 k6                              | 40             | 120 H7 <sup>2</sup>                     | -              | 497  | 141            | 263            | 175            | 177,5          | -   | -    | 215            | 258 | 522  |
| 250             | 42 m6                                | 70             | 32 m6                              | 60             | 140 H7 <sup>2</sup>                     | -              | 555  | 158            | 293            | 200            | 200            | -   | -    | 240            | 267 | 580  |
| 280             | 48 m6                                | 80             | 38 m6                              | 60             | 150 H7 <sup>2</sup>                     | 140 H7         | 620  | 160            | 325            | 225            | 230            | 335   | 195  | -              | 326 | 658  |
| 320             | 48 m6                                | 80             | 42 m6                              | 70             | 170 H7 <sup>2</sup>                     | 180 H7         | 705  | 189            | 364            | 255            | 250            | 375   | 220  | -              | 361 | 728  |
|                 | i <sub>N</sub> = 20 - 35,5           |                | i <sub>N</sub> = 40 - 80           |                |   |                |      |                |                |                |                |   |      |                |     |      |
| 360             | 60 m6                                | 105            | 48 m6                              | 80             | 180 H7 <sup>2</sup>                     | 170 H7         | 790  | 188            | 398            | 275            | 280            | 405   | 240  | -              | 403 | 812  |
| 400             | 65 m6                                | 105            | 55 m6                              | 90             | 200 H7 <sup>2</sup>                     | 190 H7         | 880  | 215            | 445            | 305            | 315            | 450   | 260  | -              | 453 | 912  |
| 450             | 70 m6                                | 120            | 60 m6                              | 105            | 230 H7 <sup>2</sup>                     | 220 H7         | 995  | 240            | 505            | 345            | 345            | 505   | 300  | -              | 505 | 1012 |
|                 | i <sub>N</sub> = 20 - 45             |                | i <sub>N</sub> = 50 - 80           |                |   |                |      |                |                |                |                |   |      |                |     |      |
| 500             | 80 m6                                | 140            | 65 m6                              | 105            | 260 H7 <sup>2</sup>                     | 245 H7         | 1110 | 277            | 557            | 385            | 380            | 550   | 340  | -              | 560 | 1122 |
| 560             | 95 m6                                | 160            | 75 m6                              | 120            | 300 H7 <sup>2</sup>                     | 285 H7         | 1240 | 324            | 624            | 400            | 425            | 600   | 380  | -              | 630 | 1262 |
| 630             | 110 n6                               | 180            | 85 m6                              | 140            | 340 H7 <sup>2</sup>                     | 325 H7         | 1400 | 344            | 694            | 460            | 470            | 670   | 420  | -              | 696 | 1392 |
| 710             | 120 n6                               | 210            | 90 m6                              | 160            | 370 H7 <sup>2</sup>                     | 355 H7         | 1570 | 400            | 780            | 520            | 530            | 730   | 460  | -              | 781 | 1562 |
| 800             | 140 n6                               | 240            | 100 m6                             | 180            | 410 H7 <sup>2</sup>                     | 395 H7         | 1760 | 448            | 868            | 595            | 605            | 825   | 500  | -              | 883 | 1766 |

| Tip Type<br>S30 | Bağlantı Ölçüleri<br>Torque reaction bolt holes |                |                |      |     | Ağırlık<br>Average weight<br>kg | Max.yağ<br>miktarı<br>Max. oil quantity<br>Litres |
|-----------------|---|----------------|----------------|------|-----|---------------------------------|---|
|                 | b <sub>1</sub>                                  | D <sub>6</sub> | h <sub>s</sub> | n    | r   |                                 |   |
| Büyükük<br>Size | mm  | H11<br>mm      | mm             | mm   | mm  |                                 |   |
| 160             | 32  | 22             | 115            | 427  | 23  | 130                             | 6,5   |
| 180             | 35  | 25             | 130            | 475  | 26  | 175                             | 9   |
| 200             | 45  | 30             | 145            | 530  | 30  | 245                             | 12  |
| 225             | 50  | 35             | 160            | 602  | 35  | 330                             | 16  |
| 250             | 55  | 40             | 180            | 670  | 40  | 460                             | 22  |
| 280             | 60  | 40             | 200            | 735  | 40  | 640                             | 32  |
| 320             | 70  | 45             | 230            | 845  | 46  | 890                             | 43  |
| 360             | 80  | 50             | 260            | 930  | 53  | 1200                            | 59  |
| 400             | 90  | 55             | 310            | 1040 | 55  | 1700                            | 83  |
| 450             | 105   | 60             | 330            | 1170 | 60  | 2300                            | 115   |
| 500             | 105   | 65             | 370            | 1310 | 70  | 3200                            | 155   |
| 560             | 110   | 70             | 420            | 1465 | 80  | 4400                            | 210   |
| 630             | 110   | 80             | 460            | 1650 | 90  | 6200                            | 290   |
| 710             | 130   | 90             | 520            | 1850 | 100 | 9000                            | 400   |
| 800             | 140   | 100            | 580            | 2080 | 110 | 11500                           | 560   |

• Ölçü değişime hakkımız saklıdır.  
• Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
- 2) Delikli mil kaması DIN 6885 kısım 1'e göre
- 3) Delikli mil bağlantı elemanı standart
- 4) Delikli mil tesbiti bakınız sayfa 35'den 37'ye

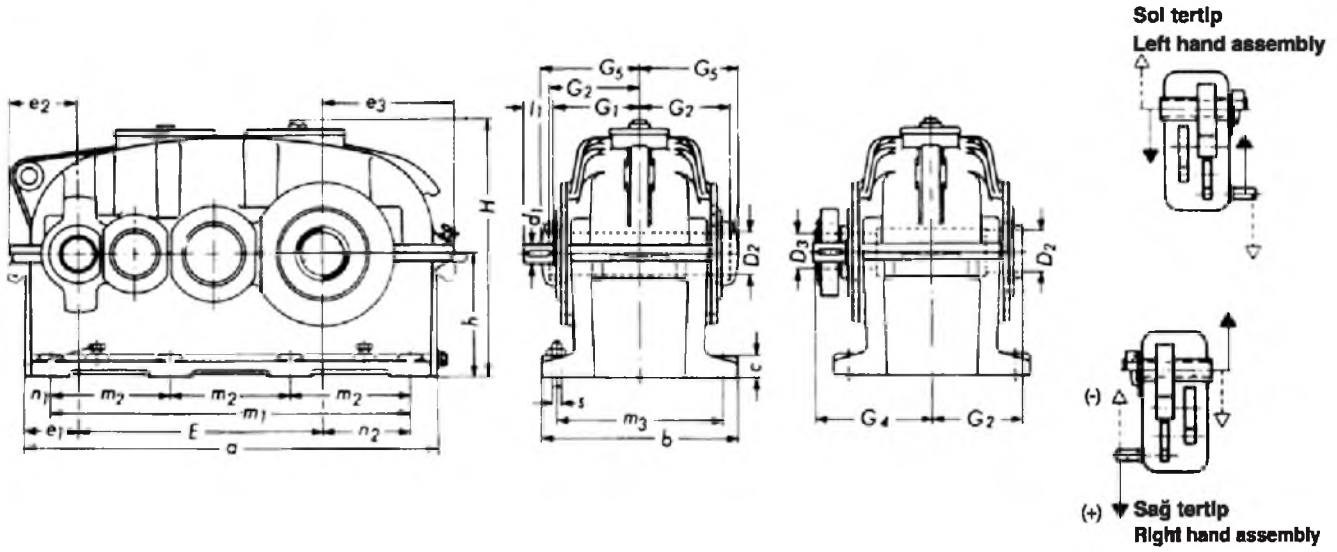
Larger gear units against enquiry.

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
- 2) Hollow shaft with parallel keyway to DIN 6885/1 form A
- 3) Hollow shaft with shrink disc to standard.
- 4) See pages 35 to 37 for fitting of hollow shaft units.



**REMAS üç kademeli, Helis dişli,  
Delik millî ayaklı redüktörler  
Tip S3A**

**REMAS triple reduction shaft  
mounting helical gear units  
Type S3A**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>S30 | a    | b    | c   | Mil uçları • Shaft end 1)        |                |                                 |                | Delik mil<br>Hollow shaft 4) |                | E    | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | Sıkma elemanı<br>Shrink disc<br>Type<br>2008 |      |
|--------------------|------|------|-----|----------------------------------|----------------|---------------------------------|----------------|------------------------------|----------------|------|----------------|----------------|----------------|----------------|----------------|--|------|
|                    |      |      |     | d <sub>1</sub>                   | l <sub>1</sub> | d <sub>1</sub>                  | l <sub>1</sub> | D <sub>2</sub>               | D <sub>3</sub> |      |                |                |                |                |                | G <sub>4</sub>                               | Type |
| Büyükük<br>Size    | mm   | mm   | mm  | i <sub>N</sub> = 22,4 - 71<br>mm | mm             | i <sub>N</sub> = 80 - 100<br>mm | mm             | mm                           | mm             | mm   | mm             | mm             | mm             | mm             | mm             | mm   |      |
| 160                | 600  | 290  | 32  | 24 k6                            | 40             | 19 k6                           | 35             | 85 H7                        | -              | 352  | 83             | 107            | 188            | 130            | 135            | -  | -    |
| 180                | 665  | 320  | 32  | 28 m6                            | 50             | 22 k6                           | 35             | 100 H7                       | -              | 395  | 85             | 109            | 209            | 145            | 150            | -  | -    |
| 200                | 745  | 335  | 40  | 32 m6                            | 60             | 22 k6                           | 35             | 110 H7                       | -              | 440  | 97,5           | 128            | 238            | 160            | 165            | -  | -    |
| 225                | 840  | 390  | 40  | 38 m6                            | 60             | 24 k6                           | 40             | 120 H7                       | -              | 497  | 110,5          | 141            | 263            | 175            | 177,5          | -  | -    |
| 250                | 930  | 450  | 50  | 42 m6                            | 70             | 32 m6                           | 60             | 140 H7                       | -              | 555  | 120            | 158            | 293            | 200            | 200            | -  | -    |
| 280                | 1025 | 500  | 50  | 48 m6                            | 80             | 38 m6                           | 60             | 150 H7                       | 140 H7         | 620  | 120            | 160            | 325            | 225            | 230            | 335  | 195  |
| 320                | 1160 | 570  | 63  | 48 m6                            | 80             | 42 m6                           | 70             | 170 H7                       | 160 H7         | 705  | 140            | 189            | 364            | 255            | 250            | 375  | 220  |
|                    |      |      |     | i <sub>N</sub> = 20 - 35,5       |                | i <sub>N</sub> = 40 - 90        |                |                              |                |      |                |                |                |                |                |  |      |
| 360                | 1280 | 600  | 63  | 60 m6                            | 105            | 48 m6                           | 80             | 180 H7                       | 170 H7         | 790  | 140            | 188            | 398            | 275            | 280            | 405  | 240  |
| 400                | 1420 | 690  | 80  | 65 m6                            | 105            | 55 m6                           | 90             | 200 H7                       | 190 H7         | 880  | 155            | 215            | 445            | 305            | 315            | 450  | 260  |
| 450                | 1610 | 750  | 80  | 70 m6                            | 120            | 60 m6                           | 105            | 230 H7                       | 220 H7         | 995  | 175            | 240            | 505            | 345            | 345            | 505  | 300  |
|                    |      |      |     | i <sub>N</sub> = 20 - 45         |                | i <sub>N</sub> = 50 - 90        |                |                              |                |      |                |                |                |                |                |  |      |
| 500                | 1790 | 830  | 100 | 80 m6                            | 140            | 65 m6                           | 105            | 260 H7                       | 245 H7         | 1110 | 200            | 277            | 557            | 385            | 380            | 550  | 340  |
| 560                | 2010 | 910  | 100 | 95 m6                            | 160            | 75 m6                           | 120            | 300 H7                       | 285 H7         | 1240 | 235            | 324            | 624            | 400            | 425            | 600  | 360  |
| 630                | 2260 | 1030 | 125 | 110 n6                           | 180            | 85 m6                           | 140            | 340 H7                       | 325 H7         | 1400 | 255            | 344            | 694            | 460            | 470            | 670  | 420  |
| 710                | 2540 | 1160 | 125 | 120 n6                           | 210            | 90 m6                           | 160            | 370 H7                       | 355 H7         | 1570 | 295            | 400            | 780            | 520            | 530            | 730  | 460  |
| 800                | 2850 | 1320 | 160 | 140 n6                           | 240            | 100 m6                          | 180            | 410 H7                       | 395 H7         | 1760 | 335            | 448            | 868            | 595            | 605            | 825  | 500  |

| Tip<br>Type<br>S3A | G <sub>s</sub> | h   | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak Civatası<br>Found. Bolts |              | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktarı<br>Max. oil<br>quantity<br>Litres |
|--------------------|----------------|-----|------|----------------|----------------|----------------|----------------|----------------|-------------------------------|--------------|------------------------------------|---|
|                    |                |     |      |                |                |                |                |                | s                             | Adet<br>Qty. |                                    |   |
| Büyükük<br>Size    | mm             | mm  | mm   | mm             | mm             | mm             | mm             | mm             | mm                            |              |                                    |   |
| 160                | 170            | 180 | 375  | 510            | 170            | 245            | 45             | 120            | M16                           | 8            | 150                                | 9   |
| 180                | 285            | 200 | 415  | 570            | 190            | 275            | 47,5           | 137,5          | M16                           | 8            | 205                                | 12,5  |
| 200                | 200            | 225 | 462  | 630            | 210            | 300            | 57,5           | 150            | M20                           | 8            | 285                                | 18  |
| 225                | 215            | 250 | 511  | 705            | 235            | 335            | 67,5           | 165            | M20                           | 8            | 390                                | 23  |
| 250                | 240            | 280 | 570  | 810            | 270            | 380            | 60             | 195            | M24                           | 8            | 540                                | 31  |
| 280                | -              | 315 | 644  | 855            | 285            | 430            | 85             | 200            | M24                           | 8            | 750                                | 47  |
| 320                | -              | 355 | 719  | 960            | 320            | 490            | 100            | 215            | M30                           | 8            | 1050                               | 68  |
| 360                | -              | 400 | 806  | 1080           | 360            | 520            | 100            | 250            | M30                           | 8            | 1400                               | 98  |
| 400                | -              | 450 | 906  | 1200           | 400            | 590            | 110            | 275            | M36                           | 8            | 1950                               | 140   |
| 450                | -              | 500 | 1006 | 1350           | 450            | 650            | 130            | 310            | M36                           | 8            | 2650                               | 190   |
| 500                | -              | 560 | 1121 | 1500           | 500            | 710            | 145            | 335            | M42                           | 8            | 3800                               | 265   |
| 560                | -              | 630 | 1261 | 1680           | 560            | 790            | 165            | 370            | M42                           | 8            | 5100                               | 360   |
| 630                | -              | 710 | 1406 | 1890           | 630            | 890            | 185            | 420            | M48                           | 8            | 7200                               | 420   |
| 710                | -              | 800 | 1581 | 2130           | 710            | 1000           | 205            | 470            | M48                           | 8            | 10800                              | 600   |
| 800                | -              | 900 | 1783 | 2400           | 800            | 1140           | 225            | 530            | M56                           | 8            | 14000                              | 840   |

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice

**Nominal güç**  
**Termal kapasite**  
**Tipler S4N S4O S4A**

**Nom. power ratings**  
**Thermal capacities**  
**Types S4N S4O S4A**

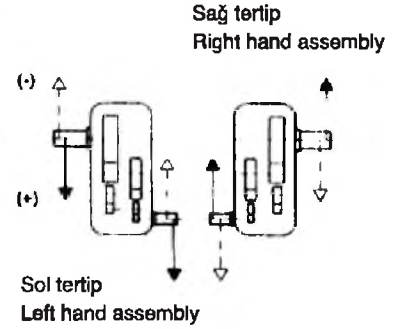
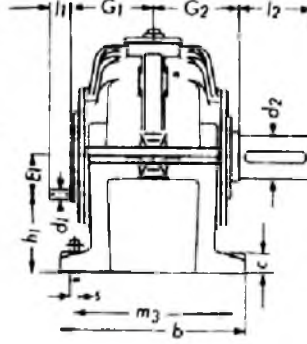
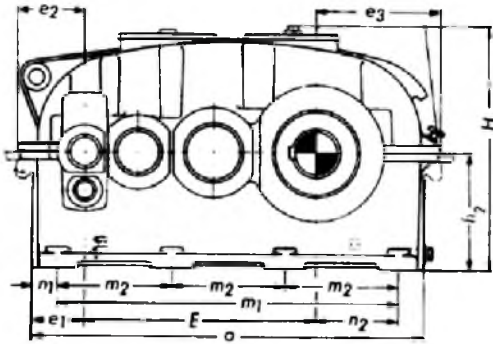
| Tahvil oranı $i_N$ , Devirler $n_{1N}$ ve $n_{2N}$ Nominal güç $P_{1N}$ • Transmission ratios $i_N$ , speed $n_{1N}$ and $n_{2N}$ , nom. power ratings $P_{1N}$ |                   |                   |   |     |      |      |      |      |      |      |      |     |     |     |     |      |
|---|-------------------|-------------------|---|-----|------|------|------|------|------|------|------|-----|-----|-----|-----|------|
| $i_N$   | $n_{1N}$<br>1/Min | $n_{2N}$<br>r.p.m | Redüktör Büyüklüğü • Gear unit sizes                        |     |      |      |      |      |      |      |      |     |     |     |     |      |
|   |                   |                   | 180   | 200 | 225  | 250  | 280  | 320  | 360  | 400  | 450  | 500 | 560 | 630 | 710 | 800  |
|   |                   |                   | Nominal güç $P_{1N}$ kW • Nom. power ratings $P_{1N}$ in kW |     |      |      |      |      |      |      |      |     |     |     |     |      |
| 100   | 1500              | 15                |   |     |      |      |      |      | 99   | 130  | 190  | 290 | 400 | 540 | 780 | 1100 |
|   | 1000              | 10                |   |     |      |      |      |      | 66   | 87   | 125  | 195 | 265 | 360 | 520 | 750  |
|   | 750               | 7.5               |   |     |      |      |      |      | 50   | 65   | 95   | 145 | 205 | 270 | 400 | 560  |
| 112   | 1500              | 13.4              | 9.1   | 14  | 20   | 28   | 39   | 58   | 88   | 115  | 170  | 255 | 360 | 480 | 690 | 990  |
|   | 1000              | 8.9               | 6.1   | 9.2 | 13   | 19   | 26   | 39   | 59   | 78   | 115  | 170 | 240 | 320 | 470 | 670  |
|   | 750               | 6.7               | 4.6   | 7   | 10   | 14   | 19   | 28   | 44   | 59   | 85   | 130 | 185 | 245 | 355 | 510  |
| 125   | 1500              | 12                | 9.1   | 11  | 18   | 25   | 35   | 51   | 81   | 105  | 150  | 230 | 320 | 430 | 610 | 890  |
|   | 1000              | 8                 | 6.1   | 7.5 | 12   | 17   | 23   | 34   | 54   | 70   | 100  | 155 | 215 | 285 | 410 | 590  |
|   | 750               | 6                 | 4.6   | 5.5 | 9    | 12   | 17   | 25.5 | 41   | 53   | 75   | 115 | 165 | 215 | 310 | 440  |
| 140   | 1500              | 10.7              | 8.2   | 10  | 16   | 22   | 31   | 45   | 72   | 92   | 135  | 205 | 290 | 380 | 550 | 800  |
|   | 1000              | 7.1               | 5.4   | 6.8 | 11   | 15   | 20   | 30   | 48   | 61   | 90   | 135 | 195 | 255 | 370 | 530  |
|   | 750               | 5.4               | 4   | 5   | 8    | 11   | 15   | 22   | 36   | 46   | 68   | 105 | 145 | 190 | 280 | 400  |
| 160   | 1500              | 9.4               | 7.2   | 9.4 | 14   | 19   | 27   | 40   | 64   | 81   | 120  | 180 | 255 | 340 | 490 | 710  |
|   | 1000              | 6.3               | 4.8   | 6.2 | 9.2  | 13   | 17.5 | 27   | 43   | 54   | 80   | 120 | 170 | 225 | 330 | 470  |
|   | 750               | 4.7               | 3.6   | 4.6 | 7.3  | 9.5  | 13   | 20   | 32   | 41   | 60   | 92  | 130 | 170 | 250 | 360  |
| 180   | 1500              | 8.3               | 6.4   | 8.2 | 12.5 | 18   | 24   | 36   | 57   | 70   | 105  | 160 | 225 | 300 | 440 | 630  |
|   | 1000              | 5.6               | 4.2   | 5.4 | 8.2  | 12   | 16   | 24   | 38   | 47   | 70   | 105 | 150 | 200 | 295 | 420  |
|   | 750               | 4.2               | 3.1   | 4   | 6.2  | 9    | 12   | 18   | 29   | 35   | 53   | 82  | 115 | 155 | 220 | 320  |
| 200   | 1500              | 7.5               | 5.5   | 7.3 | 11.5 | 15   | 21   | 32   | 51   | 64   | 95   | 145 | 205 | 270 | 390 | 560  |
|   | 1000              | 5                 | 3.6   | 4.8 | 7.5  | 10   | 13.5 | 21   | 34   | 43   | 63   | 97  | 135 | 180 | 260 | 370  |
|   | 750               | 3.8               | 2.7   | 3.6 | 5.5  | 7.5  | 11   | 16   | 26   | 32   | 48   | 73  | 105 | 135 | 200 | 280  |
| 224   | 1500              | 6.7               | 4.7   | 6.5 | 10   | 13.5 | 19   | 28   | 45   | 57   | 83   | 130 | 185 | 240 | 360 | 510  |
|   | 1000              | 4.5               | 3.1   | 4.3 | 6.5  | 8.9  | 12.5 | 19   | 30   | 38   | 55   | 87  | 125 | 160 | 240 | 340  |
|   | 750               | 3.3               | 2.3   | 3.2 | 5    | 6.8  | 10   | 14   | 23   | 28.5 | 42   | 66  | 94  | 120 | 180 | 255  |
| 250   | 1500              | 6                 | 4.4   | 5.9 | 9.1  | 12   | 17   | 25   | 41   | 51   | 73   | 115 | 165 | 215 | 320 | 450  |
|   | 1000              | 4                 | 2.9   | 3.9 | 5.9  | 8.2  | 12   | 17   | 27.5 | 34   | 49   | 77  | 110 | 145 | 215 | 300  |
|   | 750               | 3                 | 2.2   | 2.9 | 4.4  | 6.2  | 8.5  | 12   | 20.5 | 25.5 | 37   | 58  | 83  | 110 | 160 | 225  |
| 280   | 1500              | 5.4               | 3.8   | 5.1 | 7.9  | 10.5 | 15   | 22   | 37   | 46   | 66   | 100 | 145 | 195 | 280 | 400  |
|   | 1000              | 3.6               | 2.5   | 3.3 | 5.2  | 7.2  | 10   | 14.5 | 24.5 | 31   | 44   | 67  | 97  | 130 | 185 | 265  |
|   | 750               | 2.7               | 1.9   | 2.5 | 4    | 5.3  | 7.5  | 11   | 19   | 23   | 34   | 51  | 73  | 96  | 140 | 200  |
| 315   | 1500              | 4.8               | 3.4   | 4.5 | 7.2  | 9.2  | 13   | 20   | 32   | 42   | 59   | 92  | 130 | 175 | 250 | 360  |
|   | 1000              | 3.2               | 2.2   | 2.9 | 4.9  | 6.2  | 8.5  | 13   | 21.5 | 28   | 39   | 61  | 87  | 115 | 165 | 240  |
|   | 750               | 2.4               | 1.7   | 2.2 | 3.6  | 4.8  | 6.5  | 9.5  | 16.5 | 21   | 30   | 47  | 66  | 88  | 125 | 180  |
| 355   | 1500              | 4.2               | 2.8   | 3.8 | 6.3  | 8.2  | 11.5 | 17.5 | 29   | 37   | 52   | 83  | 115 | 155 | 225 | 320  |
|   | 1000              | 2.8               | 1.8   | 2.5 | 4.3  | 5.8  | 8.1  | 11.5 | 19.5 | 24.5 | 35   | 55  | 77  | 105 | 150 | 215  |
|   | 750               | 2.1               | 1.4   | 1.9 | 3.1  | 4.2  | 6    | 9    | 14.5 | 18.5 | 26.5 | 42  | 58  | 78  | 115 | 160  |
| 400   | 1500              | 3.8               | 2.5   | 3.5 | 5.7  | 7.7  | 10.5 | 16   | 26   | 33   | 46   | 72  | 100 | 135 | 195 | 270  |
|   | 1000              | 2.5               | 1.6   | 2.3 | 3.7  | 5.1  | 7.1  | 10.5 | 17.5 | 22   | 31   | 48  | 68  | 90  | 130 | 180  |
|   | 750               | 1.9               | 1.2   | 1.7 | 2.7  | 3.8  | 5.2  | 8    | 13.5 | 16.5 | 23.5 | 37  | 52  | 68  | 99  | 135  |
| 450   | 1500              | 3.3               | 2.2   | 3.1 | 4.8  | 6.8  | 9.5  | 13   | 21.5 | 29   | 40   | 65  | 93  | 125 | 175 | 250  |
|   | 1000              | 2.2               | 1.4   | 1.9 | 3.3  | 4.5  | 6.2  | 8.5  | 14.5 | 19.5 | 26.5 | 44  | 62  | 83  | 115 | 170  |
|   | 750               | 1.7               | 1.1   | 1.5 | 2.4  | 3.2  | 4.7  | 6.3  | 11   | 14.5 | 20   | 33  | 47  | 63  | 89  | 125  |
| 500   | 1500              | 3                 | 2.1   | 2.8 | 3.9  | 5.8  | 8.7  | 11.5 | 19.5 | 26   | 36   | 59  | 82  | 110 | 155 | 225  |
|   | 1000              | 2                 | 1.3   | 1.8 | 2.6  | 3.8  | 5.7  | 7.5  | 13   | 17.5 | 24   | 39  | 55  | 73  | 105 | 150  |
|   | 750               | 1.5               | 1   | 1.4 | 1.9  | 2.8  | 4.2  | 5.5  | 9.6  | 13   | 18   | 30  | 42  | 55  | 79  | 115  |

| Termal kapasite • Thermal capacities   |                         |   |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|--|-------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
| $P_{G1}$   | Rüzgar hızı<br>Air flow | Redüktör büyüklüğü • Gear unit sizes                              |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|  |                         | 180   | 200 | 225 | 250 | 280 | 320 | 360 | 400 | 450 | 500 | 560 | 630 | 710 | 800 |  |
|  |                         | Termal kapasite $P_{G1}$ - kW • Thermal capacities $P_{G1}$ in kW |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| Kapalı küçük hacimlerde soğutmasız<br>without cooling for small confined spaces    | $w \leq 0,5m/s$         | 23  | 28  | 34  | 43  | 53  | 65  | 82  | 100 | 125 | 160 | 190 | 240 | 300 | 380 |  |
| Geniş hacimlerde soğutmasız.<br>without cooling for large premises, workshops etc. | $w \geq 1,4m/s$         | 33  | 39  | 49  | 62  | 75  | 92  | 115 | 140 | 175 | 220 | 275 | 340 | 430 | 540 |  |
| Açık yerlerde soğutmasız.<br>without cooling in the open                           | $w \geq 3,7m/s$         | 43  | 52  | 65  | 82  | 100 | 120 | 160 | 190 | 235 | 300 | 360 | 460 | 570 | 720 |  |

Isı hesabına göre, gerekiyorsa soğutma sistemi konulur.  
Auxiliary cooling must be provided if the thermal rating exceeds the thermal capacity.

**REMAS dört kademeli, Helis dişli**  
**Ayaklı redüktörler**  
**Tip S4N**

**REMAS quadruple reduction**  
**helical gear units with feet**  
**Type S4N**



| Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities |      |      |     |                           |                |                |                |                |                |                |                |      |                |                |                |                |                |  |
|---|------|------|-----|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|--|
| Tip Type<br>S4N<br>Büyükük<br>Size  |      |      |     | Mil uçları • Shaft end 1) |                |                |                |                |                |                |                |      |                |                |                |                |                |  |
|   | a    | b    | c   | d <sub>1</sub>            | l <sub>1</sub> | d <sub>1</sub> | l <sub>1</sub> | d <sub>1</sub> | l <sub>1</sub> | d <sub>2</sub> | l <sub>2</sub> | E    | E <sub>1</sub> | e <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub> |  |
|   | mm   | mm   | mm  | N = 112-280               |                | N = 315 - 500  |                |                |                |                |                |      |                |                |                |                |                |  |
| 180   | 665  | 320  | 32  | 16 k6                     | 30             | 14 k6          | 30             | -              | -              | 85 m6          | 140            | 395  | 63             | 85             | 109            | 209            | 145            |  |
| 200   | 745  | 355  | 40  | 19 k6                     | 35             | 16 k6          | 30             | -              | -              | 95 m6          | 160            | 440  | 70             | 97,5           | 128            | 238            | 160            |  |
| 225   | 840  | 390  | 40  | 22 k6                     | 35             | 19 k6          | 35             | -              | -              | 100 m6         | 180            | 497  | 80             | 110,5          | 141            | 263            | 170            |  |
| 250   | 930  | 450  | 50  | 24 k6                     | 40             | 22 k6          | 35             | -              | -              | 110 n6         | 180            | 555  | 90             | 120            | 158            | 293            | 190            |  |
| 280   | 1025 | 500  | 50  | 28 m6                     | 50             | 24 k6          | 40             | -              | -              | 130 n6         | 210            | 620  | 100            | 120            | 160            | 325            | 210            |  |
| 320   | 1160 | 570  | 63  | 32 m6                     | 60             | 28 m6          | 50             | -              | -              | 140 n6         | 240            | 705  | 112            | 140            | 189            | 364            | 230            |  |
|   |      |      |     | N= 100 - 140              |                | N= 160 - 250   |                | N= 280 - 500   |                |                |                |      |                |                |                |                |                |  |
| 360   | 1280 | 600  | 63  | 38 m6                     | 60             | 32 m6          | 60             | 28 m6          | 50             | 170 n6         | 270            | 790  | 125            | 140            | 188            | 398            | 255            |  |
| 400   | 1420 | 690  | 80  | 42 m6                     | 70             | 38 m6          | 60             | 32 m6          | 60             | 180 n6         | 310            | 880  | 140            | 155            | 215            | 445            | 290            |  |
| 450   | 1610 | 750  | 80  | 48 m6                     | 80             | 42 m6          | 70             | 38 m6          | 60             | 210 n6         | 350            | 995  | 160            | 175            | 240            | 505            | 320            |  |
|   |      |      |     | N= 100 - 160              |                | N= 160 - 250   |                | N= 280 - 500   |                |                |                |      |                |                |                |                |                |  |
| 500   | 1790 | 830  | 100 | 48 m6                     | 80             | 42 m6          | 70             | 38 m6          | 60             | 240 n6         | 400            | 1110 | 180            | 200            | 277            | 557            | 355            |  |
| 560   | 2010 | 910  | 100 | 60 m6                     | 105            | 55 m6          | 90             | 48 m6          | 80             | 270 n6         | 450            | 1240 | 200            | 235            | 324            | 624            | 400            |  |
| 630   | 2260 | 1030 | 125 | 65 m6                     | 105            | 60 m6          | 105            | 48 m6          | 80             | 300 n6         | 500            | 1400 | 225            | 255            | 344            | 694            | 450            |  |
| 710   | 2540 | 1160 | 125 | 75 m6                     | 120            | 65 m6          | 105            | 55 m6          | 90             | 340 n6         | 550            | 1570 | 250            | 295            | 400            | 780            | 500            |  |
| 800   | 2850 | 1320 | 160 | 80 m6                     | 140            | 70 m6          | 120            | 65 m6          | 105            | 390 n6         | 650            | 1760 | 280            | 335            | 448            | 868            | 575            |  |

| Tip Type<br>S4N<br>Büyükük<br>Size | G <sub>2</sub> | h <sub>1</sub> | h <sub>2</sub> | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktarı<br>Max. oil<br>quantity<br>Litres |
|------------------------------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|---------------------------------|--------------|------------------------------------|---|
|                                    |                |                |                |      |                |                |                |                |                | s                               | Adet<br>Qty. |                                    |   |
| 180                                | 155            | 137            | 200            | 415  | 570            | 190            | 275            | 47,5           | 137,5          | M 16                            | 8            | 205                                | 14  |
| 200                                | 170            | 155            | 225            | 462  | 630            | 210            | 300            | 57,5           | 150            | M 20                            | 8            | 290                                | 19  |
| 225                                | 190            | 170            | 250            | 511  | 705            | 235            | 335            | 67,5           | 165            | M 20                            | 8            | 400                                | 26  |
| 250                                | 215            | 190            | 280            | 570  | 810            | 270            | 380            | 60             | 195            | M 24                            | 8            | 550                                | 36  |
| 280                                | 240            | 215            | 315            | 644  | 855            | 285            | 430            | 85             | 200            | M 24                            | 8            | 760                                | 53  |
| 320                                | 270            | 243            | 355            | 719  | 960            | 320            | 490            | 100            | 215            | M 30                            | 8            | 1100                               | 75  |
| 360                                | 290            | 275            | 400            | 806  | 1080           | 360            | 520            | 100            | 250            | M 30                            | 8            | 1450                               | 115   |
| 400                                | 320            | 310            | 450            | 906  | 1200           | 400            | 590            | 110            | 275            | M 36                            | 8            | 2000                               | 160   |
| 450                                | 360            | 340            | 500            | 1006 | 1350           | 450            | 650            | 130            | 310            | M 36                            | 8            | 2700                               | 220   |
| 500                                | 400            | 380            | 560            | 1121 | 1500           | 500            | 710            | 145            | 335            | M 42                            | 8            | 3900                               | 300   |
| 560                                | 440            | 430            | 630            | 1261 | 1680           | 560            | 790            | 165            | 370            | M 42                            | 8            | 5200                               | 450   |
| 630                                | 500            | 485            | 710            | 1406 | 1890           | 630            | 890            | 185            | 420            | M 48                            | 8            | 7300                               | 520   |
| 710                                | 560            | 550            | 800            | 1581 | 2130           | 710            | 1000           | 205            | 470            | M 48                            | 8            | 11000                              | 820   |
| 800                                | 645            | 620            | 900            | 1783 | 2400           | 800            | 1140           | 225            | 530            | M 56                            | 8            | 14000                              | 1150  |

Daha büyük redüktörleri sorunuz.

Larger gear units against enquiry.

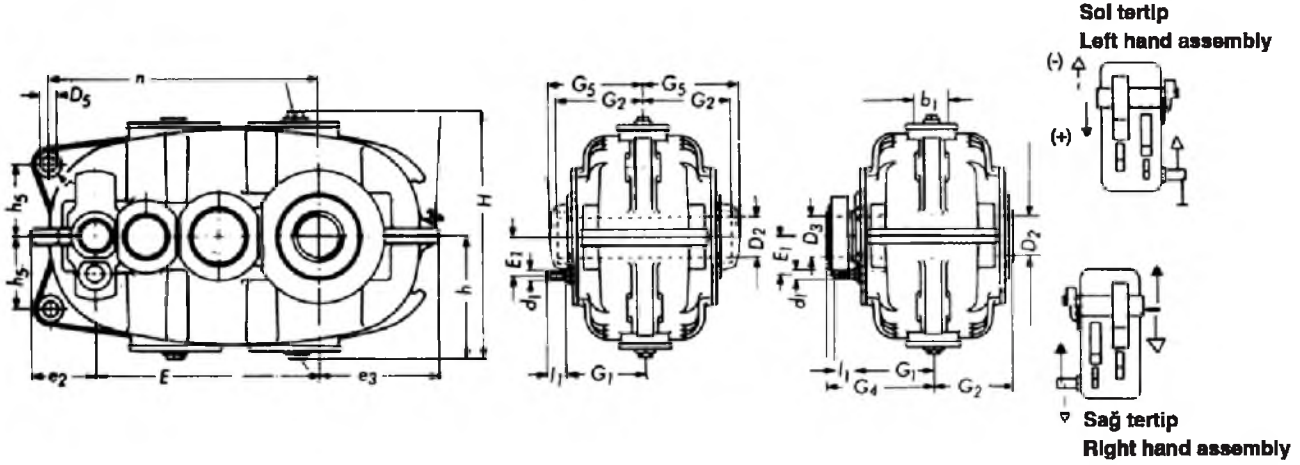
1) Mil kamaları DIN 6885 kısım 1. Form A ve punta yeri DIN 332 Form DS.

1) Shaft end with parallel key to DIN 6885/1 A and tapped centering hole to DIN 332 form DS.

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice

**REMAS üç kademeli, Helis dişli,  
Delik milli redüktörler  
Tip S40**

**REMAS triple reduction shaft  
mounting helical gear units  
Type S40**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>S40 | Mil uçları • Shaft end 1)       |     |                                 |     |                            |                |                     |                |                |      |     |     |     |       | Delik mil<br>Hollow shaft 4) |     | E | E <sub>1</sub> | e <sub>2</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | Sıkma elemanı<br>Shrink disc<br>Type<br>2008 |  |
|--------------------|---------------------------------|-----|---------------------------------|-----|----------------------------|----------------|---------------------|----------------|----------------|------|-----|-----|-----|-------|------------------------------|-----|---|----------------|----------------|----------------|----------------|----------------|--|--|
|                    | d <sub>1</sub>   l <sub>1</sub> |     | d <sub>1</sub>   l <sub>1</sub> |     | d <sub>1</sub>             | l <sub>1</sub> | D <sub>2</sub>      | D <sub>3</sub> | G <sub>4</sub> | Type |     |     |     |       |                              |     |   |                |                |                |                |                |  |  |
|                    | mm                              | mm  | mm                              | mm  |                            |                |                     |                |                |      | mm  | mm  | mm  | mm    | mm                           |     |   |                |                |                |                |                |  |  |
| Büyükük<br>Size    | i <sub>N</sub> = 112 - 280      |     | i <sub>N</sub> = 315 - 500      |     |                            |                |                     |                |                |      |     |     |     |       |                              |     |   |                |                |                |                |                |  |  |
| 180                | 16 k6                           | 30  | 14 k6                           | 30  | -                          | -              | 100H7 <sup>2)</sup> | -              | 395            | 63   | 109 | 209 | 145 | 150   | -                            | -   |   |                |                |                |                |                |  |  |
| 200                | 19 k6                           | 35  | 16 k6                           | 30  | -                          | -              | 110H7 <sup>2)</sup> | -              | 440            | 70   | 128 | 238 | 160 | 165   | -                            | -   |   |                |                |                |                |                |  |  |
| 225                | 22 k6                           | 35  | 19 k6                           | 35  | -                          | -              | 120H7 <sup>2)</sup> | -              | 497            | 80   | 141 | 263 | 170 | 177.5 | -                            | -   |   |                |                |                |                |                |  |  |
| 250                | 24 k6                           | 40  | 22 k6                           | 35  | -                          | -              | 140H7 <sup>2)</sup> | -              | 555            | 90   | 158 | 293 | 190 | 200   | -                            | -   |   |                |                |                |                |                |  |  |
| 280                | 28 m6                           | 50  | 24 k6                           | 40  | -                          | -              | 150H7 <sup>2)</sup> | 140H7          | 620            | 100  | 160 | 325 | 210 | 230   | 335                          | 195 |   |                |                |                |                |                |  |  |
| 320                | 32 m6                           | 60  | 28 m6                           | 50  | -                          | -              | 170H7 <sup>2)</sup> | 160H7          | 705            | 112  | 189 | 364 | 230 | 250   | 375                          | 220 |   |                |                |                |                |                |  |  |
|                    | i <sub>N</sub> = 100 - 140      |     | i <sub>N</sub> = 160 - 250      |     | i <sub>N</sub> = 280 - 500 |                |                     |                |                |      |     |     |     |       |                              |     |   |                |                |                |                |                |  |  |
| 360                | 38 m6                           | 60  | 32 m6                           | 60  | 28 m6                      | 50             | 180H7 <sup>2)</sup> | 170H7          | 790            | 125  | 188 | 398 | 255 | 280   | 405                          | 240 |   |                |                |                |                |                |  |  |
| 400                | 42 m6                           | 70  | 38 m6                           | 60  | 32 m6                      | 60             | 200H7 <sup>2)</sup> | 190H7          | 880            | 140  | 215 | 445 | 290 | 315   | 450                          | 260 |   |                |                |                |                |                |  |  |
| 450                | 48 m6                           | 80  | 42 m6                           | 70  | 38 m6                      | 60             | 230H7 <sup>2)</sup> | 220H7          | 995            | 160  | 240 | 505 | 320 | 345   | 505                          | 300 |   |                |                |                |                |                |  |  |
|                    | i <sub>N</sub> = 100 - 160      |     | i <sub>N</sub> = 180 - 200      |     | i <sub>N</sub> = 280 - 500 |                |                     |                |                |      |     |     |     |       |                              |     |   |                |                |                |                |                |  |  |
| 500                | 48 m6                           | 80  | 42 m6                           | 70  | 38 m6                      | 60             | 260H7 <sup>2)</sup> | 245H7          | 1110           | 180  | 277 | 557 | 355 | 380   | 550                          | 340 |   |                |                |                |                |                |  |  |
| 560                | 60 m6                           | 105 | 55 m6                           | 90  | 48 m6                      | 80             | 300H7 <sup>2)</sup> | 285H7          | 1240           | 200  | 324 | 624 | 400 | 425   | 600                          | 380 |   |                |                |                |                |                |  |  |
| 630                | 65 m6                           | 105 | 60 m6                           | 105 | 48 m6                      | 80             | 340H7 <sup>2)</sup> | 325H7          | 1400           | 225  | 344 | 694 | 450 | 470   | 670                          | 420 |   |                |                |                |                |                |  |  |
| 710                | 75 m6                           | 120 | 65 m6                           | 105 | 55 m6                      | 90             | 370H7 <sup>2)</sup> | 355H7          | 1570           | 250  | 400 | 780 | 500 | 530   | 730                          | 460 |   |                |                |                |                |                |  |  |
| 800                | 80 m6                           | 140 | 70 m6                           | 120 | 65 m6                      | 105            | 410H7 <sup>2)</sup> | 395H7          | 1760           | 280  | 448 | 868 | 575 | 605   | 825                          | 500 |   |                |                |                |                |                |  |  |

| Tip<br>Type<br>S40 | G <sub>5</sub> | h   | H    | Bağlantı Ölçüleri<br>Torque reaction bolt holes |                       |                |      |     | Ağırlık<br>Average<br>weight | Max.yağ<br>miktarı<br>Max. oil<br>quantity<br>Litre<br>litres |
|--------------------|----------------|-----|------|---|-----------------------|----------------|------|-----|------------------------------|---|
|                    |                |     |      | b <sub>1</sub>                                  | D <sub>5</sub><br>H11 | h <sub>5</sub> | n    | r   |                              |   |
| Büyükük<br>Size    | mm             | mm  | mm   | mm  | mm                    | mm             | mm   | mm  | kg                           |   |
| 180                | 185            | 212 | 430  | 35  | 25                    | 130            | 475  | 26  | 135                          | 10  |
| 200                | 200            | 238 | 474  | 45  | 30                    | 145            | 530  | 30  | 245                          | 14  |
| 225                | 215            | 258 | 522  | 50  | 35                    | 160            | 602  | 35  | 330                          | 19  |
| 250                | 240            | 287 | 580  | 55  | 40                    | 180            | 670  | 40  | 460                          | 26  |
| 280                | -              | 326 | 658  | 60  | 40                    | 200            | 735  | 40  | 640                          | 36  |
| 320                | -              | 361 | 728  | 70  | 45                    | 230            | 845  | 46  | 890                          | 49  |
| 360                | -              | 403 | 812  | 80  | 50                    | 260            | 930  | 53  | 1200                         | 80  |
| 400                | -              | 453 | 912  | 90  | 55                    | 310            | 1040 | 55  | 1650                         | 110   |
| 450                | -              | 505 | 1012 | 105   | 60                    | 330            | 1170 | 60  | 2300                         | 150   |
| 500                | -              | 560 | 1122 | 105   | 65                    | 370            | 1310 | 70  | 3300                         | 210   |
| 560                | -              | 630 | 1262 | 110   | 70                    | 420            | 1465 | 80  | 4400                         | 280   |
| 630                | -              | 696 | 1392 | 110   | 80                    | 460            | 1650 | 90  | 6200                         | 380   |
| 710                | -              | 781 | 1562 | 130   | 90                    | 520            | 1850 | 100 | 9200                         | 530   |
| 800                | -              | 883 | 1766 | 140   | 100                   | 580            | 2080 | 110 | 11500                        | 730   |

• Ölçü değiştirme hakkımız saklıdır.  
• Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
- 2) Delikli mil kaması DIN 6885 kısım 1'e göre
- 3) Delikli mil bağlantı elemanı standart
- 4) Delikli mil tesbiti bakınız sayfa 35'den 37'ye

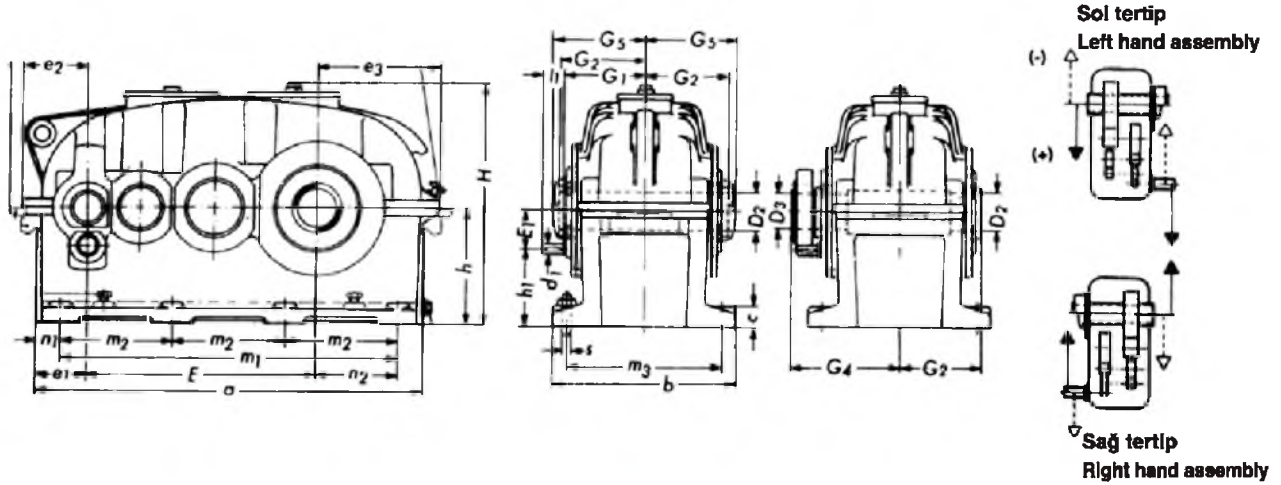
Larger gear units against enquiry.

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
- 2) Hollow shaft with parallel keyway to DIN 6885/1
- 3) Hollow shaft with shrink disc to standard.
- 4) See pages 35 to 37 for fitting of hollow shaft units.



**REMAS dört kademeli, Helis dişlili  
Delik milli ayaklı redüktörler  
Tip S4A**

**REMAS quadruple reduction  
shaft mounting helical gear units  
Type S4A**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>S4A<br>Büyükük<br>Size | a<br>mm | b<br>mm | c<br>mm | Mil uçları • Shaft end 1) |                      |                           |                      | Delik mil<br>Hollow shaft 4) |                      | E<br>mm | E <sub>1</sub><br>mm | e <sub>1</sub><br>mm | e <sub>2</sub><br>≈<br>mm | e <sub>3</sub><br>≈<br>mm |                      |                                    |  |
|---------------------------------------|---------|---------|---------|---------------------------|----------------------|---------------------------|----------------------|------------------------------|----------------------|---------|----------------------|----------------------|---------------------------|---------------------------|----------------------|------------------------------------|--|
|                                       |         |         |         | d <sub>1</sub><br>mm      | l <sub>1</sub><br>mm | d <sub>1</sub><br>mm      | l <sub>1</sub><br>mm | d <sub>1</sub><br>mm         | l <sub>1</sub><br>mm |         |                      |                      |                           |                           | D <sub>2</sub><br>mm | D <sub>3</sub> <sup>3)</sup><br>mm |  |
| 180                                   | 866     | 320     | 32      | 16 k6                     | 30                   | 14 k6                     | 30                   | -                            | -                    | 100H7   | -                    | 395                  | 63                        | 85                        | 109                  | 209                                |  |
| 200                                   | 745     | 355     | 40      | 19 k6                     | 35                   | 16 k6                     | 30                   | -                            | -                    | 110H7   | -                    | 440                  | 70                        | 97,5                      | 128                  | 238                                |  |
| 225                                   | 840     | 390     | 40      | 22 k6                     | 35                   | 19 k6                     | 35                   | -                            | -                    | 120H7   | -                    | 497                  | 80                        | 110,5                     | 141                  | 263                                |  |
| 250                                   | 930     | 450     | 50      | 24 k6                     | 40                   | 22 k6                     | 35                   | -                            | -                    | 140H7   | -                    | 555                  | 90                        | 120                       | 158                  | 293                                |  |
| 280                                   | 1025    | 500     | 50      | 28 m6                     | 50                   | 24 k6                     | 40                   | -                            | -                    | 150H7   | 140H7                | 620                  | 100                       | 120                       | 160                  | 325                                |  |
| 320                                   | 1160    | 570     | 63      | 32 m6                     | 60                   | 28 m6                     | 50                   | -                            | -                    | 170H7   | 160H7                | 705                  | 112                       | 140                       | 189                  | 364                                |  |
|                                       |         |         |         | l <sub>N</sub> =112 - 280 |                      | l <sub>N</sub> =315 - 500 |                      |                              |                      |         |                      |                      |                           |                           |                      |                                    |  |
|                                       |         |         |         | l <sub>N</sub> =100 - 140 |                      | l <sub>N</sub> =160 - 250 |                      | l <sub>N</sub> =280 - 500    |                      |         |                      |                      |                           |                           |                      |                                    |  |
| 360                                   | 1280    | 600     | 63      | 38 m6                     | 60                   | 32 m6                     | 60                   | 28 m6                        | 50                   | 180H7   | 170H7                | 790                  | 125                       | 140                       | 188                  | 398                                |  |
| 400                                   | 1420    | 690     | 80      | 42 m6                     | 70                   | 38 m6                     | 60                   | 32 m6                        | 60                   | 200H7   | 190H7                | 880                  | 140                       | 155                       | 215                  | 445                                |  |
| 450                                   | 1610    | 750     | 80      | 48 m6                     | 80                   | 42 m6                     | 70                   | 38 m6                        | 60                   | 230H7   | 220H7                | 995                  | 160                       | 175                       | 240                  | 505                                |  |
|                                       |         |         |         | l <sub>N</sub> =100 - 160 |                      | l <sub>N</sub> =180 - 250 |                      | l <sub>N</sub> =280 - 500    |                      |         |                      |                      |                           |                           |                      |                                    |  |
| 500                                   | 1790    | 830     | 100     | 48 m6                     | 80                   | 42 m6                     | 70                   | 38 m6                        | 60                   | 260H7   | 245H7                | 1110                 | 180                       | 200                       | 277                  | 557                                |  |
| 560                                   | 2010    | 910     | 100     | 60 m6                     | 105                  | 55 m6                     | 90                   | 48 m6                        | 80                   | 300H7   | 285H7                | 1240                 | 200                       | 235                       | 324                  | 624                                |  |
| 630                                   | 2260    | 1030    | 125     | 65 m6                     | 105                  | 60 m6                     | 105                  | 48 m6                        | 80                   | 340H7   | 325H7                | 1400                 | 225                       | 255                       | 344                  | 694                                |  |
| 710                                   | 2540    | 1160    | 125     | 75 m6                     | 120                  | 65 m6                     | 105                  | 55 m6                        | 90                   | 370H7   | 355H7                | 1570                 | 250                       | 295                       | 400                  | 780                                |  |
| 800                                   | 2850    | 1320    | 180     | 80 m6                     | 140                  | 70 m6                     | 120                  | 65 m6                        | 105                  | 410H7   | 395H7                | 1760                 | 280                       | 335                       | 448                  | 868                                |  |

| Tip<br>Type<br>S4A<br>Büyükük<br>Size | G <sub>1</sub><br>mm | G <sub>2</sub><br>mm | Sıkma elemanı<br>Shrink disc |            | G <sub>5</sub><br>mm | h <sub>1</sub><br>mm | h <sub>2</sub><br>mm | H<br>mm | m <sub>1</sub><br>mm | m <sub>2</sub><br>mm | m <sub>3</sub><br>mm | n <sub>1</sub><br>mm | n <sub>2</sub><br>mm | Ayak civataları<br>Found Bolts |              | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktan<br>Max. oil<br>quantity<br>Liter<br>litres |
|---------------------------------------|----------------------|----------------------|------------------------------|------------|----------------------|----------------------|----------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|--------------------------------|--------------|------------------------------------|---|
|                                       |                      |                      | G <sub>4</sub><br>mm         | Type<br>3) |                      |                      |                      |         |                      |                      |                      |                      |                      | s                              | Adet<br>Qty. |                                    |   |
| 180                                   | 145                  | 150                  | -                            | -          | 185                  | 137                  | 200                  | 415     | 570                  | 190                  | 275                  | 47,5                 | 137,5                | M 16                           | 8            | 205                                | 14  |
| 200                                   | 160                  | 165                  | -                            | -          | 200                  | 155                  | 225                  | 462     | 630                  | 210                  | 300                  | 57,5                 | 150                  | M 20                           | 8            | 290                                | 19  |
| 225                                   | 170                  | 177,5                | -                            | -          | 215                  | 170                  | 250                  | 511     | 705                  | 235                  | 335                  | 67,5                 | 165                  | M 20                           | 8            | 400                                | 26  |
| 250                                   | 190                  | 200                  | -                            | -          | 240                  | 190                  | 280                  | 570     | 810                  | 270                  | 380                  | 60                   | 195                  | M 24                           | 8            | 550                                | 36  |
| 280                                   | 210                  | 230                  | 335                          | 195        | -                    | 215                  | 315                  | 644     | 855                  | 285                  | 430                  | 85                   | 200                  | M 24                           | 8            | 760                                | 53  |
| 320                                   | 230                  | 250                  | 375                          | 220        | -                    | 243                  | 355                  | 719     | 960                  | 320                  | 490                  | 100                  | 215                  | M 30                           | 8            | 1100                               | 75  |
| 360                                   | 255                  | 280                  | 405                          | 240        | -                    | 275                  | 400                  | 806     | 1080                 | 360                  | 520                  | 100                  | 250                  | M 30                           | 8            | 1450                               | 115   |
| 400                                   | 290                  | 315                  | 450                          | 260        | -                    | 310                  | 450                  | 906     | 1200                 | 400                  | 590                  | 110                  | 275                  | M 36                           | 8            | 2000                               | 160   |
| 450                                   | 320                  | 345                  | 505                          | 300        | -                    | 340                  | 500                  | 1006    | 1350                 | 450                  | 650                  | 130                  | 310                  | M 36                           | 8            | 2700                               | 220   |
| 500                                   | 355                  | 380                  | 550                          | 340        | -                    | 380                  | 560                  | 1121    | 1500                 | 500                  | 710                  | 145                  | 335                  | M 42                           | 8            | 3900                               | 300   |
| 560                                   | 400                  | 425                  | 600                          | 380        | -                    | 430                  | 630                  | 1261    | 1680                 | 560                  | 790                  | 165                  | 370                  | M 42                           | 8            | 5200                               | 450   |
| 630                                   | 450                  | 470                  | 670                          | 420        | -                    | 485                  | 710                  | 1406    | 1890                 | 630                  | 890                  | 185                  | 420                  | M 48                           | 8            | 7300                               | 520   |
| 710                                   | 500                  | 530                  | 730                          | 460        | -                    | 550                  | 800                  | 1531    | 2130                 | 710                  | 1000                 | 205                  | 470                  | M 48                           | 8            | 11000                              | 820   |
| 800                                   | 575                  | 605                  | 825                          | 500        | -                    | 620                  | 900                  | 1783    | 2400                 | 800                  | 1140                 | 225                  | 530                  | M 56                           | 8            | 14000                              | 1150  |

Daha büyük redüktörleri sorunuz.

1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.

2) Delikli mil kaması DIN 6885 kısım 1'e göre

3) Delikli mil bağlantı elemanı standart

4) Delikli mil tesbiti bakınız sayfa 35'den 37'ye

Larger gear units against enquiry.

1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS

2) Hollow shaft with parallel keyway to DIN 6885/1

3) Hollow shaft with shrink disc to standard.

4) See pages 35 to 37 for fitting of hollow shaft units.

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice

**Nominal güç**  
**Termal kapasite**  
**Tipler K1N K1O K1A**

**Nom. power ratings**  
**Thermal capacities**  
**Types K1N K1O K1A**

| Tahvil oranı $\dot{I}_N$ , Devirler $n_{1N}$ ve $n_{2N}$ , Nominal güç $P_{1N}$ • Transmission ratios $\dot{I}_N$ , speed $n_{1N}$ and $n_{2N}$ , nom. power ratings $P_{1N}$ |                   |                   |   |     |     |     |     |     |      |       |      |  |
|---|-------------------|-------------------|---|-----|-----|-----|-----|-----|------|-------|------|--|
| $\dot{I}_N$   | $n_{1N}$<br>1/min | $n_{2N}$<br>r.p.m | Redüktör Büyüklüğü • Gear unit sizes                        |     |     |     |     |     |      |       |      |  |
|   |                   |                   | 160   | 200 | 250 | 280 | 320 | 360 | 400  | 450   | 500  |  |
|   |                   |                   | Nominal güç $P_{1N}$ -kW • Nom power ratings $P_{1N}$ in kW |     |     |     |     |     |      |       |      |  |
| 5   | 1500              | 300               | 97  | 172 | 355 | 455 | 620 | 850 | 1300 | 1850* | -    |  |
|   | 1000              | 200               | 71  | 127 | 270 | 345 | 470 | 630 | 980  | 1400  | 1800 |  |
|   | 750               | 150               | 55  | 103 | 210 | 275 | 380 | 500 | 790  | 1050  | 1450 |  |
| 5,6   | 1500              | 270               | 97  | 172 | 355 | 455 | 620 | 850 | 1300 | 1850* | -    |  |
|   | 1000              | 180               | 71  | 127 | 270 | 345 | 470 | 630 | 980  | 1400  | 1800 |  |
|   | 750               | 134               | 55  | 103 | 210 | 275 | 380 | 500 | 790  | 1050  | 1450 |  |
| 6,3   | 1500              | 240               | 97  | 172 | 355 | 455 | 620 | 850 | 1300 | 1850* | -    |  |
|   | 1000              | 160               | 71  | 127 | 270 | 345 | 470 | 630 | 980  | 1400  | 1800 |  |
|   | 750               | 120               | 55  | 103 | 210 | 275 | 380 | 500 | 790  | 1050  | 1450 |  |
| 7,1   | 1500              | 210               | 97  | 172 | 355 | 455 | 620 | 850 | 1300 | 1850* | -    |  |
|   | 1000              | 140               | 71  | 127 | 270 | 345 | 470 | 630 | 980  | 1400  | 1800 |  |
|   | 750               | 106               | 55  | 103 | 210 | 275 | 380 | 500 | 790  | 1050  | 1450 |  |
| 8   | 1500              | 185               | 81  | 152 | 315 | 435 | 610 | 770 | 1150 | 1700  | -    |  |
|   | 1000              | 125               | 55  | 112 | 240 | 325 | 470 | 590 | 860  | 1300  | 1700 |  |
|   | 750               | 94                | 42  | 87  | 180 | 245 | 340 | 470 | 670  | 960   | 1400 |  |
| 9   | 1500              | 167               | 73  | 137 | 285 | 395 | 540 | 690 | 1050 | 1550  | -    |  |
|   | 1000              | 111               | 50  | 102 | 215 | 295 | 420 | 520 | 780  | 1150  | 1550 |  |
|   | 750               | 83                | 38  | 77  | 170 | 225 | 320 | 420 | 610  | 860   | 1200 |  |
| 10  | 1500              | 150               | 66  | 127 | 255 | 345 | 480 | 620 | 930  | 1400  | -    |  |
|   | 1000              | 100               | 44  | 92  | 190 | 255 | 360 | 470 | 690  | 1000  | 1350 |  |
|   | 750               | 75                | 33  | 71  | 150 | 210 | 300 | 380 | 530  | 770   | 1050 |  |
| 11,2  | 1500              | 134               | 58  | 117 | 230 | 325 | 450 | 570 | 850  | 1200  | -    |  |
|   | 1000              | 89                | 40  | 82  | 170 | 240 | 330 | 430 | 640  | 890   | 1150 |  |
|   | 750               | 67                | 30  | 63  | 130 | 185 | 250 | 350 | 480  | 680   | 880  |  |
| 12,5  | 1500              | 120               | 52  | 102 | 205 | 285 | 360 | 500 | 690  | 950   | -    |  |
|   | 1000              | 80                | 36  | 72  | 140 | 210 | 270 | 380 | 500  | 690   | 1050 |  |
|   | 750               | 60                | 26.5  | 54  | 105 | 155 | 195 | 280 | 380  | 530   | 800  |  |

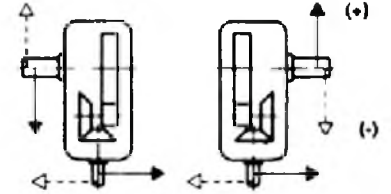
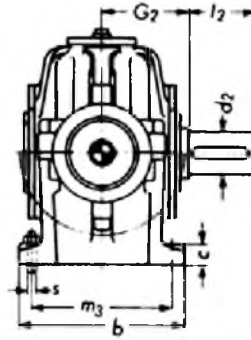
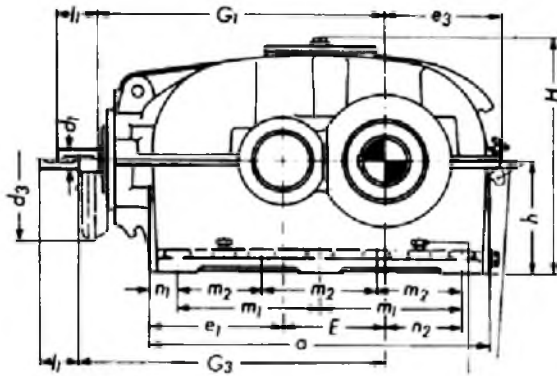
| Termal kapasite *Thermal capacities |   |  |  |     |     |     |     |     |     |     |     |  |
|-------------------------------------|---|--|--|-----|-----|-----|-----|-----|-----|-----|-----|--|
|                                     |   | Rüzgar hızı<br>Air flow  | Redüktör Büyüklüğü - Gear unit sizes                             |     |     |     |     |     |     |     |     |  |
|                                     |   |  | 160  | 200 | 250 | 280 | 320 | 360 | 400 | 450 | 500 |  |
|                                     |   | Termal kapasite $P_{G1}$ -kW - Thermal capacities $P_{G1}$ in kW |  |     |     |     |     |     |     |     |     |  |
| $P_{G1}$                            | Kapalı küçük hacimlerde soğutmasız<br>without cooling for small confined spaces   | $w$<br>$\geq 0,5m/s$   | 27   | 41  | 65  | 80  | 100 | 125 | 155 | 195 | 245 |  |
|                                     | Geniş hacimlerde soğutmasız<br>without cooling for large premises, workshops etc. | $w$<br>$\geq 1,4 m/s$  | 38   | 58  | 92  | 115 | 140 | 175 | 220 | 275 | 350 |  |
|                                     | Açık yerlerde soğutmasız<br>without cooling in the open                           | $w$<br>$\geq 3,7 m/s$  | 51   | 77  | 120 | 150 | 190 | 235 | 290 | 370 | 460 |  |
|                                     |   | $n_{1N}$<br>1/min<br>r.p.m.                                      | Termal kapasite $P_{G2}$ -kW - Thermal capacities $P_{G2}$ in kW |     |     |     |     |     |     |     |     |  |
| $P_{G2}$                            | Fan soğutmalı<br>with fan cooling   | 1500   | 54   | 83  | 140 | 170 | 215 | 275 | 350 | 450 | 560 |  |
|                                     |   | 1000   | 47   | 73  | 120 | 150 | 190 | 240 | 300 | 390 | 490 |  |
|                                     |   | 750  | 43   | 66  | 110 | 140 | 170 | 220 | 275 | 360 | 440 |  |
|                                     |   | Termal kapasite $P_{G4}$ -kW - Thermal capacities $P_{G4}$ in kW |  |     |     |     |     |     |     |     |     |  |
| $P_{G4}$                            | Fan, serpantin soğutmalı<br>with fan cooling coil                                 | 1500   | 155  | 185 | 240 | 285 | 320 | 450 | 630 | 730 | 870 |  |
|                                     |   | 1000   | 150  | 180 | 220 | 265 | 295 | 410 | 580 | 670 | 760 |  |
|                                     |   | 750  | 145  | 165 | 210 | 255 | 280 | 390 | 555 | 640 | 710 |  |
|                                     |   | Termal kapasite $P_{G3}$ -kW - Thermal capacities $P_{G3}$ in kW |  |     |     |     |     |     |     |     |     |  |

Isı hesabına göre, gerekiyorsa soğutma sistemi konulur.  
Auxiliary cooling must be provided if the thermal rating exceeds the thermal capacity.

\* = Cebri yağlama      \* = Pressure lubrication required

**REMAS Konik dişli,  
İki kademeli ayaklı redüktörler  
Tip K1N**

**REMAS double reduction  
bevel-helical gear units  
Type K1N**



Sol tertip  
Left hand assembly

Sağ tertip  
Right hand assembly

Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>K1N<br>Büyükük<br>size | a<br>mm | b<br>mm | c<br>mm | Mil uçları • Shaft end 1) |                      |                         |                          |                      |                         |                      |                      |                            |     |       |     | E<br>mm | e <sub>1</sub><br>mm | e <sub>3</sub><br>mm | G <sub>1</sub><br>2)<br>mm | G <sub>2</sub><br>mm | h<br>mm | H<br>mm |
|---------------------------------------|---------|---------|---------|---------------------------|----------------------|-------------------------|--------------------------|----------------------|-------------------------|----------------------|----------------------|----------------------------|-----|-------|-----|---------|----------------------|----------------------|----------------------------|----------------------|---------|---------|
|                                       |         |         |         | i <sub>N</sub> = 5-10     |                      |                         | i <sub>N</sub> = 11,2-16 |                      |                         | d <sub>2</sub><br>mm | l <sub>2</sub><br>mm | d <sub>3</sub><br>3)<br>mm |     |       |     |         |                      |                      |                            |                      |         |         |
|                                       |         |         |         | d <sub>1</sub><br>mm      | l <sub>1</sub><br>mm | G <sub>3(2)</sub><br>mm | d <sub>1</sub><br>mm     | l <sub>1</sub><br>mm | G <sub>3(2)</sub><br>mm |                      |                      |                            |     |       |     |         |                      |                      |                            |                      |         |         |
| 160                                   | 540     | 290     | 32      | 38 m6                     | 60                   | 540                     | 32 m6                    | 60                   | 540                     | 75 m6                | 120                  | 316                        | 160 | 215   | 188 | 485     | 140                  | 180                  | 375                        |                      |         |         |
| 200                                   | 665     | 355     | 40      | 48 m6                     | 80                   | 660                     | 38 m6                    | 60                   | 660                     | 95 m6                | 160                  | 386                        | 200 | 257,5 | 238 | 585     | 170                  | 225                  | 462                        |                      |         |         |
| 250                                   | 830     | 450     | 50      | 60 m6                     | 105                  | 770                     | 48 m6                    | 80                   | 770                     | 110 n6               | 180                  | 426                        | 250 | 325   | 293 | 705     | 215                  | 280                  | 574                        |                      |         |         |
| 280                                   | 920     | 530     | 50      | 65 m6                     | 105                  | 850                     | 55 m6                    | 90                   | 850                     | 130 n6               | 210                  | 556                        | 280 | 355   | 325 | 785     | 260                  | 315                  | 646                        |                      |         |         |
| 320                                   | 1030    | 600     | 63      | 70 m6                     | 120                  | 940                     | 65 m6                    | 105                  | 940                     | 140 n6               | 240                  | 590                        | 320 | 395   | 364 | 870     | 295                  | 355                  | 721                        |                      |         |         |
|                                       |         |         |         | i <sub>N</sub> = 5-12,5   |                      |                         |                          |                      |                         |                      |                      |                            |     |       |     |         |                      |                      |                            |                      |         |         |
| 360                                   | 1150    | 680     | 63      | 80 m6                     | 140                  | 1070                    | -                        | -                    | -                       | 170 n6               | 270                  | 684                        | 360 | 440   | 398 | 970     | 320                  | 400                  | 806                        |                      |         |         |
| 400                                   | 1280    | 760     | 80      | 90 m6                     | 160                  | 1190                    | -                        | -                    | -                       | 180 n6               | 310                  | 764                        | 400 | 495   | 445 | 1090    | 370                  | 450                  | 906                        |                      |         |         |
| 450                                   | 1450    | 860     | 80      | 100 m6                    | 180                  | 1315                    | -                        | -                    | -                       | 210 n6               | 350                  | 854                        | 450 | 560   | 505 | 1210    | 415                  | 500                  | 1006                       |                      |         |         |
| 500                                   | 1600    | 960     | 100     | 110 n6                    | 180                  | 1475                    | -                        | -                    | -                       | 240 n6               | 400                  | 914                        | 500 | 620   | 557 | 1365    | 450                  | 560                  | 1121                       |                      |         |         |

| Tip<br>Type<br>K1N<br>Büyükük<br>Size | n <sub>1</sub><br>mm | m <sub>2</sub><br>mm | m <sub>3</sub><br>mm | n <sub>1</sub><br>mm | n <sub>2</sub><br>mm | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktari<br>Max. oil<br>quantity<br>Litres |
|---------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|--------------|------------------------------------|---|
|                                       |                      |                      |                      |                      |                      | s<br>mm                         | Adet<br>Qty. |                                    |   |
| 160                                   | 225                  | -                    | 245                  | 45                   | 120                  | M 16                            | 6            | 160                                | 9   |
| 200                                   | 280                  | -                    | 300                  | 52,5                 | 155                  | M 20                            | 6            | 300                                | 17  |
| 250                                   | 350                  | -                    | 380                  | 65                   | 190                  | M 24                            | 6            | 540                                | 32  |
| 280                                   | 380                  | -                    | 460                  | 80                   | 205                  | M 24                            | 6            | 780                                | 46  |
| 320                                   | 420                  | -                    | 520                  | 95                   | 220                  | M 30                            | 6            | 1050                               | 65  |
| 360                                   | 475                  | -                    | 580                  | 100                  | 250                  | M 30                            | 6            | 1450                               | 100   |
| 400                                   | 520                  | -                    | 660                  | 120                  | 265                  | M 36                            | 6            | 2050                               | 145   |
| 450                                   | -                    | 400                  | 760                  | 125                  | 315                  | M 36                            | 8            | 2800                               | 200   |
| 500                                   | -                    | 440                  | 840                  | 140                  | 340                  | M 42                            | 8            | 3800                               | 265   |

- Ölçü değiştirme hakkımız saklıdır.
- Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

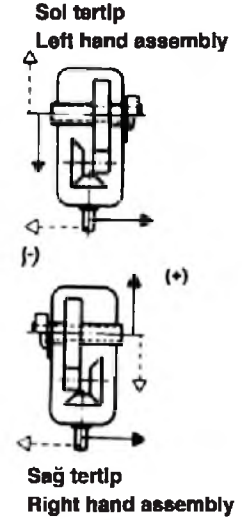
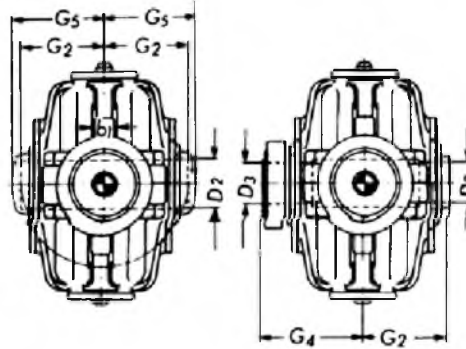
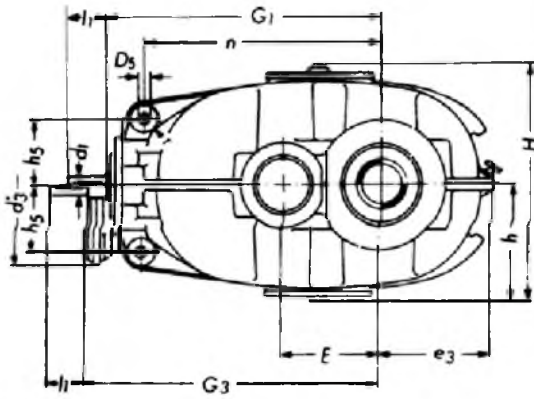
- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
- 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.
- 3) Fanlı soğutma yalnız 125'den 500'e kadar büyükükler için

Larger gear units against enquiry.

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
- 2) G3 is furnished only in connection with a fan.
- 3) Cooling by fan from size 125 up 500 only

**REMAS konik dişli iki kademeli  
delik milli redüktörler  
Tip K10**

**REMAS double reduction shaft  
mounting bevel-helical gear units  
Type K10**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>K10<br>Büyük<br>size | Mil uçları • Shaft end 1) |                |                |                |                |                | Delikli Mil<br>Hollow shaft 5) |                | E   | e <sub>3</sub> | G <sub>1</sub><br>2) | G <sub>2</sub> | Sıkma Elemanı<br>Shrink disc<br>4) |      | G <sub>6</sub> | h   |     |
|-------------------------------------|---------------------------|----------------|----------------|----------------|----------------|----------------|--------------------------------|----------------|-----|----------------|----------------------|----------------|------------------------------------|------|----------------|-----|-----|
|                                     | d <sub>1</sub>            | l <sub>1</sub> | G <sub>3</sub> | d <sub>1</sub> | l <sub>1</sub> | G <sub>3</sub> | D <sub>2</sub>                 | D <sub>3</sub> |     |                |                      |                | G <sub>4</sub>                     | Type |                |     |     |
|                                     | mm                        | mm             | mm             | mm             | mm             | mm             | mm                             | mm             |     |                |                      |                | mm                                 | 2008 |                |     | mm  |
| 180                                 | 38 m6                     | 60             | 540            | 32 m6          | 60             | 540            | 85H7                           | -              | 316 | 160            | 188                  | 485            | 135                                | -    | -              | 170 | 182 |
| 200                                 | 48 m6                     | 80             | 660            | 38 m6          | 60             | 660            | 110H7                          | -              | 386 | 200            | 238                  | 585            | 165                                | -    | -              | 200 | 234 |
| 250                                 | 60 m6                     | 105            | 770            | 48 m6          | 80             | 770            | 140H7                          | -              | 426 | 250            | 293                  | 705            | 200                                | -    | -              | 240 | 291 |
| 280                                 | 65 m6                     | 105            | 850            | 55 m6          | 90             | 850            | 150H7                          | 140H7          | 556 | 280            | 325                  | 785            | 255                                | 355  | 195            | -   | 328 |
| 320                                 | 70 m6                     | 120            | 940            | 65 m6          | 105            | 940            | 170H7                          | 160H7          | 590 | 320            | 364                  | 870            | 285                                | 400  | 220            | -   | 363 |
| $l_N = 5 - 12,5$                    |                           |                |                |                |                |                |                                |                |     |                |                      |                |                                    |      |                |     |     |
| 360                                 | 80 m6                     | 140            | 1070           | -              | -              | -              | 180H7                          | 170 H7         | 684 | 360            | 398                  | 970            | 310                                | 435  | 240            | -   | 405 |
| 400                                 | 90 m6                     | 160            | 1190           | -              | -              | -              | 200H7                          | 190 H7         | 764 | 400            | 445                  | 1090           | 355                                | 490  | 260            | -   | 455 |
| 450                                 | 100 m6                    | 180            | 1315           | -              | -              | -              | 230H7                          | 220 H7         | 854 | 450            | 505                  | 1210           | 400                                | 560  | 300            | -   | 505 |
| 500                                 | 110 m6                    | 180            | 1475           | -              | -              | -              | 260H7                          | 245 H7         | 914 | 500            | 557                  | 1365           | 445                                | 615  | 340            | -   | 560 |

| Tip<br>Type<br>K10<br>Büyük<br>size | H    | Bağlantı Ölçüleri<br>Torque reaction bolt holes |                |                |      |    | r    | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktan<br>max. oil<br>quantity<br>Liter<br>litres |
|-------------------------------------|------|---|----------------|----------------|------|----|------|------------------------------------|---|
|                                     |      | b <sub>1</sub>                                  | D <sub>5</sub> | h <sub>5</sub> | n    |    |      |                                    |   |
|                                     |      | mm  | mm             | mm             | mm   | mm |      |                                    |   |
| 160                                 | 390  | 33  | 22             | 115            | 410  | 23 | 140  | 4,5                                |   |
| 200                                 | 474  | 45  | 30             | 145            | 495  | 30 | 260  | 9                                  |   |
| 250                                 | 588  | 55  | 40             | 190            | 605  | 40 | 480  | 18                                 |   |
| 280                                 | 662  | 60  | 40             | 205            | 675  | 40 | 670  | 25                                 |   |
| 320                                 | 732  | 70  | 45             | 235            | 755  | 46 | 910  | 36                                 |   |
| 360                                 | 812  | 80  | 50             | 260            | 850  | 53 | 1250 | 50                                 |   |
| 400                                 | 912  | 90  | 55             | 300            | 955  | 55 | 1750 | 70                                 |   |
| 450                                 | 1012 | 105   | 60             | 330            | 1060 | 60 | 2400 | 100                                |   |
| 500                                 | 1122 | 105   | 65             | 375            | 1200 | 70 | 3200 | 140                                |   |

• Ölçü değiştirme hakkımız saklıdır.  
• Dimensions are subject to alteration without notice

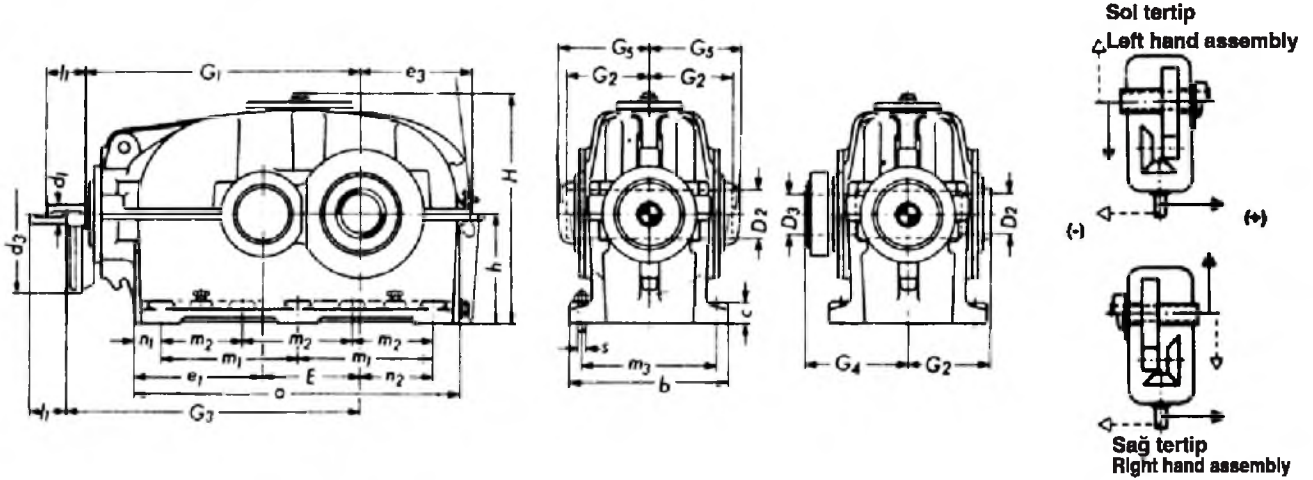
Daha büyük redüktörleri sorunuz.

- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
  - 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.
  - 3) Delikli mil kaması DIN 6885 kısım 1'e göre
  - 4) Delikli mil bağlantı elemanı standart
  - 5) Delikli mil tesbiti bakınız sayfa 35'den 37'ye
  - 6) Fanlı soğutma yalnız büyüklük 125'den 500'e kadar  
Larger gear units against enquiry
- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
  - 2) G3 is furnished only in connection with a fan.
  - 3) Hollow shaft with parallel keyway to DIN 6885/1.
  - 4) Hollow shaft with shrink disc to standard.
  - 5) See pages 35 to 37 for fitting of hollow shaft units.
  - 6) Cooling by fan from size 125 up to 500 only



**REMAS konik dişli  
iki kademeli delik milli  
ayaklı redüktörler  
Tip K1A**

**REMAS double reduction shaft  
mounting bevel-helical gear units  
Type K1A**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>K1A<br>Büyük<br>size | a<br>mm | b<br>mm | c<br>mm | Mil uçları • Shaft end 1)      |                      |                      |                                     |                      |                      | Delik Mil<br>Hollow shaft 5) |                      | E<br>mm | e <sub>1</sub><br>mm | e <sub>2</sub><br>mm | G <sub>1</sub><br>mm | G <sub>2</sub><br>mm |                      |
|-------------------------------------|---------|---------|---------|--------------------------------|----------------------|----------------------|-------------------------------------|----------------------|----------------------|------------------------------|----------------------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|
|                                     |         |         |         | d <sub>1</sub><br>N=5-10<br>mm | l <sub>1</sub><br>mm | G <sub>3</sub><br>mm | d <sub>2</sub><br>N=11,2-12,5<br>mm | l <sub>2</sub><br>mm | G <sub>2</sub><br>mm | D <sub>2</sub><br>mm         | D <sub>3</sub><br>mm |         |                      |                      |                      |                      | d <sub>3</sub><br>mm |
| 160                                 | 540     | 290     | 32      | 38 m6                          | 60                   | 540                  | 32 m6                               | 60                   | 540                  | 85 H7                        | -                    | 316     | 160                  | 215                  | 188                  | 485                  | 135                  |
| 200                                 | 665     | 355     | 40      | 48 m6                          | 80                   | 660                  | 38 m6                               | 60                   | 660                  | 110 H7                       | -                    | 386     | 200                  | 257,5                | 238                  | 585                  | 165                  |
| 250                                 | 830     | 450     | 50      | 60 m8                          | 105                  | 770                  | 48 m8                               | 80                   | 770                  | 140 H7                       | -                    | 426     | 250                  | 325                  | 293                  | 705                  | 200                  |
| 280                                 | 920     | 530     | 50      | 65 m8                          | 105                  | 850                  | 55 m6                               | 90                   | 850                  | 150 H7                       | 140 H7               | 556     | 280                  | 355                  | 325                  | 785                  | 255                  |
| 320                                 | 1030    | 600     | 63      | 70 m6                          | 120                  | 940                  | 65 m6                               | 105                  | 940                  | 170 H7                       | 160 H7               | 590     | 320                  | 395                  | 364                  | 870                  | 285                  |
|                                     |         |         |         | N=5-12,5                       |                      |                      |                                     |                      |                      |                              |                      |         |                      |                      |                      |                      |                      |
| 360                                 | 1150    | 660     | 63      | 80 m6                          | 140                  | 1070                 | -                                   | -                    | -                    | 180 H7                       | 170 H7               | 684     | 360                  | 440                  | 398                  | 970                  | 310                  |
| 400                                 | 1280    | 760     | 80      | 90 m6                          | 180                  | 1190                 | -                                   | -                    | -                    | 200 H7                       | 190 H7               | 764     | 400                  | 495                  | 445                  | 1090                 | 355                  |
| 450                                 | 1450    | 860     | 80      | 100 m6                         | 180                  | 1315                 | -                                   | -                    | -                    | 230 H7                       | 220 H7               | 854     | 450                  | 560                  | 505                  | 1210                 | 400                  |
| 500                                 | 1600    | 960     | 100     | 110 n6                         | 180                  | 1475                 | -                                   | -                    | -                    | 260 H7                       | 245 H7               | 914     | 500                  | 620                  | 557                  | 1365                 | 445                  |

| Tip<br>Type<br>K1A<br>Büyük<br>size | Sıkma elemanı<br>Shrink disc |              | G <sub>5</sub><br>mm | h<br>mm | H<br>mm | m <sub>1</sub><br>mm | m <sub>2</sub><br>mm | m <sub>3</sub><br>mm | n <sub>1</sub><br>mm | n <sub>2</sub><br>mm | Ayak civataları<br>Found. Bolts |              | Average<br>weight<br>kg | Max. yağ<br>miktarı<br>Max. oil<br>quantity<br>Litres |
|-------------------------------------|------------------------------|--------------|----------------------|---------|---------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------------------|--------------|-------------------------|---|
|                                     | G <sub>4</sub><br>mm         | Type<br>2008 |                      |         |         |                      |                      |                      |                      |                      | s<br>mm                         | Adet<br>Qty. |                         |   |
| 160                                 | -                            | -            | 170                  | 180     | 375     | 225                  | -                    | 245                  | 45                   | 120                  | M 16                            | 6            | 160                     | 7,5   |
| 200                                 | -                            | -            | 200                  | 225     | 482     | 280                  | -                    | 300                  | 52,5                 | 155                  | M 20                            | 6            | 300                     | 15  |
| 250                                 | -                            | -            | 240                  | 280     | 574     | 350                  | -                    | 380                  | 65                   | 190                  | M 24                            | 6            | 540                     | 28  |
| 280                                 | 355                          | 195          | -                    | 315     | 646     | 380                  | -                    | 460                  | 80                   | 205                  | M 24                            | 6            | 780                     | 40  |
| 320                                 | 400                          | 220          | -                    | 355     | 721     | 420                  | -                    | 520                  | 95                   | 220                  | M 30                            | 6            | 1050                    | 56  |
| 360                                 | 435                          | 240          | -                    | 400     | 806     | 475                  | -                    | 580                  | 100                  | 250                  | M 30                            | 6            | 1450                    | 80  |
| 400                                 | 490                          | 260          | -                    | 450     | 908     | 520                  | -                    | 660                  | 120                  | 265                  | M 36                            | 6            | 2050                    | 110   |
| 450                                 | 560                          | 300          | -                    | 500     | 1006    | -                    | 400                  | 760                  | 125                  | 315                  | M 36                            | 8            | 2800                    | 150   |
| 500                                 | 615                          | 340          | -                    | 560     | 1121    | -                    | 440                  | 840                  | 140                  | 340                  | M 42                            | 8            | 3800                    | 220   |

Daha büyük redüktörleri sorunuz.

- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
- 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.
- 3) Delikli mil kaması DIN 6885 kısım 1'e göre
- 4) Delikli mil bağlantı elemanı standart
- 5) Delikli mil tesbiti bakınız sayfa 35'den 37'ye

Larger gear units against enquiry

- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped catering hole to DIN 332 form DS
- 2) G3 is furnished only in connection with a fan.
- 3) Hollow shaft with parallel keyway to DIN 6885/1.
- 4) Hollow shaft with shrink disc to standard.
- 5) See pages 35 to 37 for fitting of hollow shaft units.

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice

# Nominal Güç Tipler K2N K2O K2A

# Nom. power ratings Types K2N K2O K2A

| Tahvil oranı $i_N$ Devirler $n_{1N}$ ve $n_{2N}$ Nominal güç $P_{1N}$ , Transmission ratios $i_N$ speeds $n_{1N}$ and $n_{2N}$ nom. power ratings $P_{1N}$ |                                      |                   |      |      |      |     |      |     |     |     |     |      |       |       |       |       |       |
|--|--------------------------------------|-------------------|------|------|------|-----|------|-----|-----|-----|-----|------|-------|-------|-------|-------|-------|
| $i_N$  | Redüktör Büyüklüğü - Gear unit sizes |                   |      |      |      |     |      |     |     |     |     |      |       |       |       |       |       |
|  | $n_{1N}$<br>1/min                    | $n_{2N}$<br>r.p.m | 160  | 180  | 200  | 225 | 250  | 280 | 320 | 360 | 400 | 450  | 500   | 560   | 630   | 710   | 800   |
| Nominal güç $P_{1N}$ -kW - Nom. power ratings $P_{1N}$ in kW   |                                      |                   |      |      |      |     |      |     |     |     |     |      |       |       |       |       |       |
| 11,5   | 1500                                 | 134               |      |      |      |     |      |     |     |     |     |      |       | 1900* | 2550* | -     | -     |
|  | 1000                                 | 89                |      |      |      |     |      |     |     |     |     |      |       | 1450  | 2200* | 2550* | 2950* |
|  | 750                                  | 67                |      |      |      |     |      |     |     |     |     |      |       | 1200  | 1750  | 2300  | 2700* |
| 12,5   | 1500                                 | 120               |      |      |      |     |      |     |     | 480 | 680 | 910* | 1350* | 1900* | -     | -     | -     |
|  | 1000                                 | 80                |      |      |      |     |      |     |     | 350 | 500 | 680  | 1050  | 1450  | 2200* | 2550* | 2950* |
|  | 750                                  | 60                |      |      |      |     |      |     |     | 275 | 380 | 520  | 840   | 1200  | 1750  | 2300  | 2700* |
| 14   | 1500                                 | 107               | 45   | 64   | 86   | 130 | 175  | 250 | 330 | 480 | 640 | 880  | 1350* | 1900* | -     | -     | -     |
|  | 1000                                 | 71                | 30   | 46   | 61   | 88  | 125  | 180 | 240 | 350 | 480 | 670  | 1050  | 1450  | 2200* | 2550* | 2950* |
|  | 750                                  | 54                | 23   | 35   | 45   | 71  | 95   | 145 | 195 | 275 | 370 | 510  | 840   | 1200  | 1750  | 2300  | 2700* |
| 16   | 1500                                 | 94                | 45   | 64   | 86   | 124 | 164  | 234 | 305 | 470 | 610 | 840  | 1350* | 1900* | -     | -     | -     |
|  | 1000                                 | 62                | 30   | 46   | 61   | 85  | 114  | 169 | 230 | 340 | 460 | 640  | 1050  | 1450  | 2200* | 2550* | 2950* |
|  | 750                                  | 47                | 23   | 35   | 45   | 69  | 86   | 139 | 185 | 270 | 360 | 520  | 830   | 1200  | 1750  | 2300  | 2650* |
| 18   | 1500                                 | 83                | 42   | 56   | 73   | 112 | 150  | 210 | 295 | 460 | 570 | 810  | 1350* | 1850* | -     | -     | -     |
|  | 1000                                 | 56                | 29   | 38   | 51   | 74  | 100  | 150 | 220 | 340 | 430 | 600  | 1000  | 1400  | 1850  | 2550* | 2950* |
|  | 750                                  | 42                | 22   | 30   | 39   | 60  | 76   | 115 | 175 | 260 | 350 | 490  | 790   | 1150  | 1450  | 2200  | 2550* |
| 20   | 1500                                 | 75                | 39   | 53   | 66   | 102 | 135  | 195 | 275 | 440 | 560 | 790  | 1350* | 1800* | -     | -     | -     |
|  | 1000                                 | 50                | 27   | 36   | 46   | 68  | 91   | 140 | 200 | 320 | 390 | 550  | 880   | 1250  | 1650  | 2400* | 2850* |
|  | 750                                  | 38                | 20   | 28   | 36   | 53  | 70   | 105 | 155 | 245 | 310 | 450  | 700   | 1000  | 1300  | 1950  | 2500  |
| 22,4   | 1500                                 | 67                | 34   | 49   | 63   | 92  | 130  | 175 | 250 | 400 | 520 | 750  | 1200  | 1550* | -     | -     | -     |
|  | 1000                                 | 44                | 22.5 | 33   | 42   | 63  | 86   | 125 | 185 | 290 | 360 | 520  | 790   | 1100  | 1450  | 2100* | 2600* |
|  | 750                                  | 33                | 16.5 | 25   | 33   | 47  | 65   | 91  | 140 | 220 | 280 | 400  | 620   | 880   | 1150  | 1700  | 2400  |
| 25   | 1500                                 | 60                | 30   | 44   | 59   | 82  | 119  | 160 | 225 | 360 | 470 | 670  | 1050  | 1450  | -     | -     | -     |
|  | 1000                                 | 40                | 19.5 | 29   | 39   | 55  | 76   | 110 | 165 | 255 | 320 | 460  | 730   | 1050  | 1350  | 2050  | 2600* |
|  | 750                                  | 30                | 15   | 22   | 30   | 41  | 56   | 81  | 125 | 195 | 240 | 350  | 550   | 780   | 1050  | 1500  | 2200  |
| 28   | 1500                                 | 54                | 24.5 | 37   | 49   | 73  | 95   | 140 | 215 | 330 | 410 | 600  | 930   | 1300  | -     | -     | -     |
|  | 1000                                 | 36                | 16   | 24.5 | 32   | 50  | 63   | 92  | 145 | 230 | 290 | 420  | 640   | 910   | 1200  | 1750  | 2500  |
|  | 750                                  | 27                | 12   | 18.5 | 23.5 | 37  | 46   | 68  | 110 | 175 | 220 | 320  | 490   | 690   | 890   | 1350  | 1900  |
| 31,5   | 1500                                 | 48                | 22   | 33   | 43   | 66  | 86   | 125 | 195 | 295 | 390 | 560  | 840   | 1200  | -     | -     | -     |
|  | 1000                                 | 32                | 14.5 | 21.5 | 28   | 43  | 57   | 85  | 130 | 205 | 265 | 380  | 580   | 830   | 1100  | 1600  | 2300  |
|  | 750                                  | 24                | 11   | 16   | 20.5 | 32  | 41   | 61  | 100 | 155 | 195 | 285  | 440   | 620   | 810   | 1200  | 1750  |
| 35,5   | 1500                                 | 42                | 18   | 30   | 39   | 60  | 79   | 105 | 175 | 265 | 350 | 510  | 780   | 1100  | -     | -     | -     |
|  | 1000                                 | 28                | 12   | 19.5 | 26   | 40  | 52   | 70  | 115 | 185 | 235 | 340  | 530   | 720   | 980   | 1450  | 2050  |
|  | 750                                  | 21                | 9    | 14.5 | 19.5 | 30  | 39   | 52  | 86  | 140 | 180 | 255  | 390   | 550   | 730   | 1100  | 1550  |
| 40   | 1500                                 | 38                | 16.5 | 25   | 34   | 52  | 67   | 94  | 155 | 240 | 310 | 460  | 690   | 990   | -     | -     | -     |
|  | 1000                                 | 25                | 10.5 | 16   | 23   | 35  | 44   | 52  | 105 | 165 | 225 | 310  | 470   | 660   | 860   | 1300  | 1850  |
|  | 750                                  | 19                | 7.6  | 12   | 16   | 27  | 32   | 46  | 77  | 125 | 160 | 235  | 350   | 500   | 650   | 980   | 1400  |
| 45   | 1500                                 | 33                | 15   | 23   | 32   | 49  | 62   | 88  | 140 | 210 | 275 | 405  | 620   | 880   | -     | -     | -     |
|  | 1000                                 | 22                | 10   | 15   | 21   | 32  | 42   | 58  | 91  | 140 | 160 | 265  | 460   | 610   | 800   | 1200  | 1600  |
|  | 750                                  | 17                | 7.3  | 11   | 16   | 25  | 30   | 43  | 70  | 105 | 140 | 205  | 320   | 460   | 600   | 870   | 1260  |
| 50   | 1500                                 | 30                | 13   | 20.5 | 29   | 43  | 55   | 78  | 125 | 180 | 245 | 360  | 550   | 780   | 1050  | -     | -     |
|  | 1000                                 | 20                | 8.6  | 13.5 | 19.5 | 32  | 36   | 52  | 82  | 120 | 165 | 240  | 370   | 520   | 690   | 1050  | 1500  |
|  | 750                                  | 15                | 6.5  | 10   | 14.5 | 22  | 27   | 39  | 61  | 90  | 125 | 185  | 290   | 410   | 550   | 780   | 1150  |
| 56   | 1500                                 | 27                | 11.5 | 19   | 26   | 39  | 48   | 69  | 110 | 160 | 225 | 320  | 500   | 700   | 920   | -     | -     |
|  | 1000                                 | 18                | 7.6  | 12.5 | 17   | 26  | 32   | 47  | 73  | 110 | 150 | 215  | 340   | 490   | 640   | 940   | 1350  |
|  | 750                                  | 13.4              | 5.6  | 9.5  | 13   | 20  | 23   | 34  | 54  | 83  | 115 | 165  | 255   | 360   | 480   | 690   | 990   |
| 63   | 1500                                 | 24                | 10.5 | 16.5 | 22.5 | 34  | 42   | 61  | 95  | 145 | 200 | 285  | 440   | 620   | 810   | -     | -     |
|  | 1000                                 | 16                | 6.9  | 11.5 | 15   | 23  | 28   | 41  | 64  | 100 | 135 | 190  | 300   | 430   | 560   | 830   | 1100  |
|  | 750                                  | 12                | 5.1  | 8.1  | 11   | 17  | 20   | 30  | 47  | 73  | 99  | 145  | 230   | 320   | 430   | 630   | 840   |
| 71   | 1500                                 | 21                | 9.1  | 14.5 | 21   | 30  | 38   | 54  | 86  | 125 | 180 | 235  | 400   | 560   | 730   | -     | -     |
|  | 1000                                 | 14                | 6.1  | 9.5  | 14   | 20  | 24.5 | 35  | 57  | 81  | 125 | 160  | 265   | 380   | 500   | 690   | 900   |
|  | 750                                  | 10.6              | 4.4  | 7.1  | 10.5 | 15  | 18   | 26  | 42  | 61  | 92  | 120  | 200   | 285   | 380   | 520   | 690   |
| 80   | 1500                                 | 18.8              | 8.6  | 11.5 | 19   | 27  | 35   | 48  | 69  | 110 | 160 | 215  | 350   | 480   | 510   | -     | -     |
|  | 1000                                 | 12.5              | 5.6  | 7.6  | 13   | 18  | 23   | 32  | 45  | 74  | 110 | 145  | 240   | 340   | 420   | 570   | 730   |
|  | 750                                  | 9.4               | 4.2  | 5.6  | 9.5  | 13  | 16.5 | 23  | 33  | 51  | 81  | 110  | 180   | 250   | 310   | 430   | 560   |
| 90   | 1500                                 | 16.7              | 7.6  | 9.5  | 17.5 | 25  | 34   | 43  | 65  |     |     |      |       |       |       |       |       |
|  | 1000                                 | 11.1              | 5.1  | 6.2  | 11.5 | 16  | 23   | 29  | 43  |     |     |      |       |       |       |       |       |
|  | 750                                  | 8.3               | 3.7  | 4.8  | 8.5  | 13  | 16.5 | 21  | 32  |     |     |      |       |       |       |       |       |

Isı hesabına göre, gerekliyse soğutma sistemi konur.

Auxiliary cooling must be provided if the thermal rating exceeds thermal capacity.

\*= Cebri yağlama

\*= Pressure lubrication required

**Termal kapasite  
Tipler K2N K2O K2A**

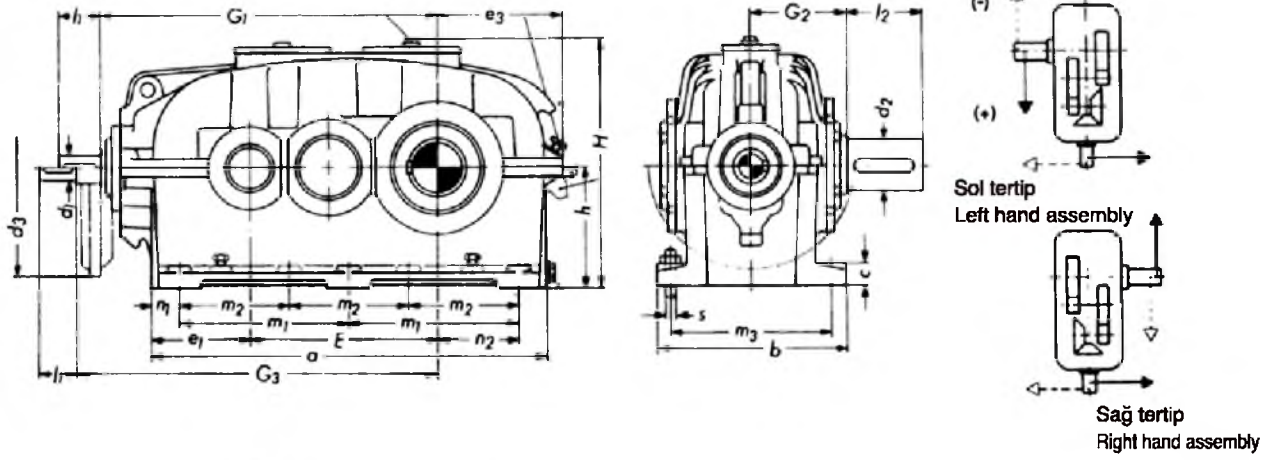
**Thermal capacities  
Types K2N K2O K2A**

| Termal kapasite • Thermal capacities |  |   |  |     |  |     |     |     |     |     |     |     |     |     |     |     |     |
|--------------------------------------|--|---|--|-----|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                      |  | Rüzgar hızı<br>Air flow                             | Redüktör Büyüklüğü - Gear unit sizes   |     |  |     |     |     |     |     |     |     |     |     |     |     |     |
|                                      |  |   | 160  | 180 | 200  | 225 | 250 | 280 | 320 | 360 | 400 | 450 | 500 | 560 | 630 | 710 | 800 |
|                                      |  |   | Termal kapasite P <sub>G1</sub> -kW - Thermal capacities P <sub>G1</sub> in kW |     |  |     |     |     |     |     |     |     |     |     |     |     |     |
|                                      | Kapalı küçük hacimlerde soğutmasız without cooling for small confined spaces   | w<br>> 0,5 m/s                                      | 22   | 27  | 33   | 41  | 52  | 65  | 82  | 100 | 125 | 155 | 190 | 240 | 300 | 370 | 470 |
| P <sub>G1</sub>                      | Geniş hacimlerde soğutmasız without cooling for large premises, workshops etc. | w<br>> 1,4 m/s                                      | 31   | 38  | 47   | 58  | 73  | 92  | 115 | 140 | 175 | 215 | 265 | 330 | 420 | 530 | 660 |
|                                      | Açık yerlerde soğutmasız without cooling in the open                           | w<br>> 3,7 m/s                                      | 41   | 51  | 63   | 78  | 96  | 120 | 155 | 190 | 235 | 290 | 360 | 450 | 560 | 700 | 880 |
|                                      |  | n <sub>N</sub><br>1/min<br>r.p.m.                   | Termal kapasite P <sub>G2</sub> -kW - Thermal capacities P <sub>G2</sub> in kW |     |  |     |     |     |     |     |     |     |     |     |     |     |     |
| P <sub>G2</sub>                      | Fan soğutmalı with fan cooling   | 1500  |  | 53  | 66   | 88  | 110 | 140 | 175 | 220 | 275 | 350 | 440 | 560 |     |     |     |
|                                      |  | 1000  | 2)   | 47  | 58   | 75  | 96  | 120 | 155 | 190 | 240 | 310 | 390 | 500 | 1)  | 1)  | 1)  |
|                                      |  | 750   |  | 43  | 53   | 68  | 88  | 115 | 140 | 175 | 220 | 285 | 360 | 450 |     |     |     |
|                                      |  |   | Termal kapasite P <sub>G4</sub> -kW - Thermal capacities P <sub>G4</sub> in kW |     |  |     |     |     |     |     |     |     |     |     |     |     |     |
| P <sub>G4</sub>                      | Fan, serpantin soğutmalı with fan and cooling coil                             | 1500  |  | 125 | 135  | 175 | 195 | 225 | 260 | 310 | 510 | 580 | 690 | 760 |     |     |     |
|                                      |  | 1000  | 2)   | 120 | 130  | 160 | 180 | 205 | 240 | 275 | 470 | 540 | 610 | 700 | 1)  | 1)  | 1)  |
|                                      |  | 750   |  | 115 | 125  | 155 | 175 | 200 | 225 | 260 | 450 | 520 | 590 | 650 |     |     |     |
|                                      |  |   | Termal kapasite P <sub>G3</sub> -kW - Thermal capacities P <sub>G3</sub> in kW |     |  |     |     |     |     |     |     |     |     |     |     |     |     |
| P <sub>G3</sub>                      | Serpantinli Soğutma with cooling coil  | Kapalı küçük hacimlerde for small confined spaces   | w<br>> 0,5 m/s   | 81  |  |     |     |     |     |     |     |     |     |     |     |     |     |
|                                      |  | Büyük Mahallerde for large premises, workshops etc. | w<br>> 1,4 m/s   | 92  | 1) Soğutmayı sorunuz<br>1) Details of cooling on request   |     |     |     |     |     |     |     |     |     |     |     |     |
|                                      |  | Açıkta in the open                                  | w<br>> 3,7 m/s   | 100 | 2) Sadece serpantinli soğutma<br>2) With cooling coil only |     |     |     |     |     |     |     |     |     |     |     |     |



**REMAS Konik dişli**  
**Üç kademeli ayaklı redüktörler**  
**Tip K2N**

**REMAS triple reduction**  
**bevel-helical gear units**  
**Type K2N**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>K2N | a    | b    | c   | $d_1$   $l_1$   $G_3$<br>$i_N = 14 - 35,5$ |     |      | $d_1$   $l_1$   $G_3$<br>$i_N = 40 - 71$ |     |      | $d_1$   $l_1$<br>$i_N = 80 - 90$ |    | $d_2$  | $l_2$ | $d_3$ | E    | $e_1$ | $e_3$ | $G_1$ | $G_2$ | h   | H    |  |
|--------------------|------|------|-----|--|-----|------|--|-----|------|----------------------------------|----|--------|-------|-------|------|-------|-------|-------|-------|-----|------|--|
| Büyük<br>size      | mm   | mm   | mm  | mm   | mm  | mm   | mm                                       | mm  | mm   | mm                               | mm | mm     | mm    | mm    | mm   | mm    | mm    | mm    | mm    | mm  | mm   |  |
| 160                | 600  | 290  | 32  | 28 m6                                      | 50  | -    | 22 k6                                    | 35  | -    | 19 k6                            | 35 | 75 m6  | 120   | -     | 272  | 163   | 188   | 522   | 140   | 180 | 375  |  |
| 180                | 665  | 320  | 32  | 32 m6                                      | 60  | 605  | 24 k6                                    | 40  | -    | 22 k6                            | 35 | 85 m6  | 140   | 252   | 305  | 175   | 209   | 575   | 155   | 200 | 415  |  |
| 200                | 745  | 355  | 40  | 38 m6                                      | 60  | 675  | 28 m6                                    | 50  | -    | 24 k6                            | 40 | 96 m6  | 160   | 316   | 340  | 197,5 | 238   | 635   | 170   | 225 | 462  |  |
| 225                | 840  | 390  | 40  | 38 m6                                      | 80  | 765  | 32 m6                                    | 60  | -    | 28 m6                            | 50 | 100 m6 | 180   | 366   | 385  | 222,5 | 263   | 710   | 190   | 250 | 511  |  |
| 250                | 930  | 450  | 50  | 42 m6                                      | 70  | 855  | 38 m6                                    | 60  | -    | 32 m6                            | 60 | 110 n6 | 180   | 426   | 430  | 245   | 293   | 790   | 215   | 280 | 570  |  |
| 280                | 1025 | 500  | 50  | 48 m6                                      | 80  | 940  | 38 m6                                    | 60  | -    | 32 m6                            | 60 | 130 n6 | 210   | 556   | 480  | 280   | 325   | 865   | 240   | 315 | 644  |  |
| 320                | 1160 | 570  | 63  | 55 m6                                      | 90  | 1055 | 42 m6                                    | 70  | -    | 38 m6                            | 60 | 140 n6 | 240   | 590   | 545  | 300   | 364   | 975   | 270   | 355 | 719  |  |
|                    |      |      |     | $i_N = 12,5 - 40$                          |     |      | $i_N = 45 - 80$                          |     |      |                                  |    |        |       |       |      |       |       |       |       |     |      |  |
| 360                | 1280 | 600  | 63  | 60 m6                                      | 105 | 1160 | 48 m6                                    | 80  | 1160 | -                                | -  | 170 n6 | 270   | 614   | 610  | 320   | 398   | 1065  | 290   | 400 | 806  |  |
| 400                | 1420 | 690  | 80  | 70 m6                                      | 120 | 1295 | 60 m6                                    | 105 | 1295 | -                                | -  | 180 n6 | 310   | 684   | 680  | 355   | 445   | 1195  | 320   | 450 | 906  |  |
| 450                | 1610 | 750  | 80  | 75 m6                                      | 120 | 1435 | 70 m6                                    | 120 | 1435 | -                                | -  | 210 n6 | 350   | 764   | 770  | 400   | 505   | 1330  | 360   | 500 | 1006 |  |
|                    |      |      |     | $i_N = 11,2 - 45$                          |     |      | $i_N = 50 - 80$                          |     |      |                                  |    |        |       |       |      |       |       |       |       |     |      |  |
| 500                | 1790 | 830  | 100 | 85 m6                                      | 140 | 1595 | 75 m6                                    | 120 | 1595 | -                                | -  | 240 n6 | 400   | 854   | 860  | 450   | 557   | 1485  | 400   | 560 | 1121 |  |
| 560                | 2010 | 910  | 100 | 100 m6                                     | 180 | 1800 | 85 m6                                    | 140 | 1800 | -                                | -  | 270 n6 | 450   | 914   | 960  | 515   | 624   | 1680  | 440   | 630 | 1261 |  |
| 630                | 2260 | 1030 | 125 | 110 n6                                     | 180 | -    | 100 m6                                   | 180 | -    | -                                | -  | 300 n6 | 500   | -     | 1080 | 575   | 694   | 1895  | 500   | 710 | 1406 |  |
| 710                | 2540 | 1160 | 125 | 120 n6                                     | 210 | -    | 110 n6                                   | 180 | -    | -                                | -  | 340 n6 | 550   | -     | 1210 | 655   | 780   | 2120  | 560   | 800 | 1581 |  |
| 800                | 2850 | 1320 | 160 | 130 n6                                     | 210 | -    | 120 n6                                   | 210 | -    | -                                | -  | 390 n6 | 650   | -     | 1360 | 735   | 868   | 2370  | 645   | 900 | 1783 |  |

| Tip<br>Type<br>K2N | $m_1$ | $m_2$ | $m_3$ | $n_1$ | $n_2$ | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average weight | Max. yağ<br>miktarı<br>max. oil quantity |
|--------------------|-------|-------|-------|-------|-------|---------------------------------|--------------|---------------------------|--|
| Büyük<br>size      | mm    | mm    | mm    | mm    | mm    | s                               | Adet<br>Qty. | kg                        | Litre<br>litres                          |
| 160                | -     | 170   | 245   | 45    | 120   | M 16                            | 8            | 160                       | 11                                       |
| 180                | -     | 190   | 275   | 47,5  | 137,5 | M 16                            | 8            | 220                       | 16                                       |
| 200                | -     | 210   | 300   | 57,5  | 150   | M 20                            | 8            | 310                       | 21                                       |
| 225                | -     | 235   | 335   | 67,5  | 165   | M 20                            | 8            | 420                       | 30                                       |
| 250                | -     | 270   | 380   | 60    | 195   | M 24                            | 8            | 570                       | 40                                       |
| 280                | -     | 285   | 430   | 85    | 200   | M 24                            | 8            | 800                       | 58                                       |
| 320                | -     | 320   | 490   | 100   | 215   | M 30                            | 8            | 1100                      | 80                                       |
| 360                | -     | 360   | 520   | 100   | 250   | M 30                            | 8            | 1450                      | 115                                      |
| 400                | -     | 400   | 590   | 110   | 275   | M 36                            | 8            | 2100                      | 160                                      |
| 450                | -     | 450   | 650   | 130   | 310   | M 36                            | 8            | 2850                      | 220                                      |
| 500                | -     | 500   | 710   | 145   | 335   | M 42                            | 8            | 4100                      | 300                                      |
| 560                | -     | 560   | 790   | 165   | 370   | M 42                            | 8            | 5500                      | 450                                      |
| 630                | -     | 630   | 890   | 185   | 420   | M 48                            | 8            | 7600                      | 520                                      |
| 710                | -     | 710   | 1000  | 205   | 470   | M 48                            | 8            | 10500                     | 820                                      |
| 800                | -     | 800   | 1140  | 225   | 530   | M 56                            | 8            | 14500                     | 1150                                     |

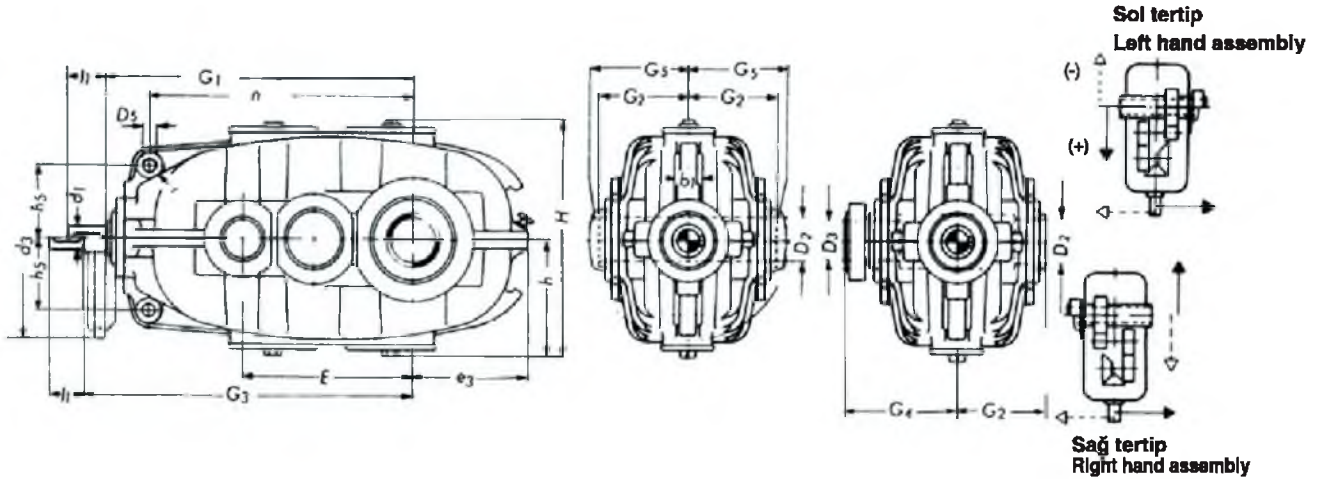
- Daha büyük redüktörleri sorunuz.
- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
  - 2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.
  - 3) Fanlı soğutma yalnız 180'den 560'a kadar büyüklükler için
- Larger gear units against enquiry.
- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
  - 2) G3 is furnished only in connection with a fan.
  - 3) Cooling by fan from size 180 up to 560 only

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice



**REMAS konik dişli**  
**Üç kademeli delik milli redüktörler**  
**Tip K20**

**REMAS triple reduction shaft**  
**mounting bevel-helical gear units**  
**Type K20**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type<br>K20<br>Büyük<br>size | Mil uçları • Shaft end 1)   |     |                |                           |     |                |                        |    |                |                |                |      | Delik Mil<br>Hollow shaft 3) |      | d <sub>6</sub> | E   | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | Sıkma elemanı<br>Shrink disc<br>Type |  |
|-------------------------------------|-----------------------------|-----|----------------|---------------------------|-----|----------------|------------------------|----|----------------|----------------|----------------|------|------------------------------|------|----------------|-----|----------------|----------------|----------------|--------------------------------------|--|
|                                     | i <sub>N</sub> = 14-35,5 2) |     |                | i <sub>N</sub> = 40-71 2) |     |                | i <sub>N</sub> = 80-90 |    | D <sub>2</sub> | D <sub>3</sub> | G <sub>4</sub> | 2008 |                              |      |                |     |                |                |                |                                      |  |
|                                     | d <sub>1</sub>              | h   | G <sub>3</sub> | d <sub>1</sub>            | h   | G <sub>3</sub> | d <sub>1</sub>         | h  | D <sub>2</sub> | D <sub>3</sub> |                |      |                              |      |                |     |                |                |                |                                      |  |
| 160                                 | 28 m6                       | 50  | -              | 22 k6                     | 35  | -              | 19 k6                  | 35 | 85H7           | -              | 272            | 188  | 522                          | 135  | -              | -   |                |                |                |                                      |  |
| 180                                 | 32 m6                       | 60  | 605            | 24 k6                     | 40  | -              | 22 k6                  | 35 | 100H7          | -              | 305            | 209  | 575                          | 150  | -              | -   |                |                |                |                                      |  |
| 200                                 | 38 m6                       | 60  | 675            | 28 m6                     | 50  | -              | 24 k6                  | 40 | 110H7          | -              | 316            | 340  | 238                          | 635  | 165            | -   |                |                |                |                                      |  |
| 225                                 | 38 m6                       | 60  | 765            | 32 m6                     | 60  | -              | 28 m6                  | 50 | 120H7          | -              | 386            | 385  | 263                          | 710  | 177,5          | -   |                |                |                |                                      |  |
| 250                                 | 42 m6                       | 70  | 855            | 38 m6                     | 60  | -              | 32 m6                  | 60 | 140H7          | -              | 426            | 430  | 293                          | 790  | 200            | -   |                |                |                |                                      |  |
| 280                                 | 48 m6                       | 80  | 940            | 38 m6                     | 60  | -              | 32 m6                  | 60 | 150H7          | 140 H7         | 556            | 480  | 325                          | 865  | 230            | 335 |                |                |                |                                      |  |
| 320                                 | 55 m6                       | 90  | 1055           | 42 m6                     | 70  | -              | 38 m6                  | 60 | 170H7          | 180 H7         | 590            | 545  | 364                          | 975  | 250            | 375 |                |                |                |                                      |  |
|                                     | i <sub>N</sub> = 12,5-40    |     |                | i <sub>N</sub> = 45-80    |     |                |                        |    |                |                |                |      |                              |      |                |     |                |                |                |                                      |  |
| 360                                 | 60 m6                       | 105 | 1160           | 48 m6                     | 80  | 1160           | -                      | -  | 180H7          | 170 H7         | 614            | 610  | 398                          | 1065 | 280            | 405 |                |                |                |                                      |  |
| 400                                 | 70 m6                       | 120 | 1295           | 60 m6                     | 105 | 1295           | -                      | -  | 200H7          | 190 H7         | 684            | 680  | 445                          | 1195 | 315            | 450 |                |                |                |                                      |  |
| 450                                 | 75 m6                       | 120 | 1435           | 70 m6                     | 120 | 1435           | -                      | -  | 230H7          | 220 H7         | 764            | 770  | 505                          | 1330 | 345            | 505 |                |                |                |                                      |  |
|                                     | i <sub>N</sub> = 11,2-45    |     |                | i <sub>N</sub> = 50-80    |     |                |                        |    |                |                |                |      |                              |      |                |     |                |                |                |                                      |  |
| 500                                 | 85 m6                       | 140 | 1595           | 75 m6                     | 120 | 1595           | -                      | -  | 260H7          | 245 H7         | 854            | 860  | 557                          | 1485 | 380            | 550 |                |                |                |                                      |  |
| 560                                 | 100 m6                      | 180 | 1800           | 85 m6                     | 140 | 1800           | -                      | -  | 300H7          | 285 H7         | 914            | 960  | 624                          | 1680 | 425            | 600 |                |                |                |                                      |  |
| 630                                 | 110 m6                      | 180 | -              | 100 m6                    | 180 | -              | -                      | -  | 340H7          | 325 H7         | -              | 1080 | 694                          | 1895 | 470            | 670 |                |                |                |                                      |  |
| 710                                 | 120 n6                      | 210 | -              | 110 n6                    | 180 | -              | -                      | -  | 370H7          | 355 H7         | -              | 1210 | 780                          | 2120 | 530            | 730 |                |                |                |                                      |  |
| 800                                 | 130 n6                      | 210 | -              | 120 n6                    | 210 | -              | -                      | -  | 410H7          | 395 H7         | -              | 1360 | 868                          | 2370 | 605            | 825 |                |                |                |                                      |  |

| Tip<br>type<br>K2N<br>Büyük<br>size | G <sub>5</sub> | h   | H    | b <sub>1</sub> | Bağlantı ölçüleri<br>Torque reaction bolt holes |                      |         |         | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktarı<br>max. oil<br>quantity<br>Litre<br>litres |
|-------------------------------------|----------------|-----|------|----------------|---|----------------------|---------|---------|------------------------------------|--|
|                                     |                |     |      |                | D <sub>5</sub><br>H11<br>mm                     | h <sub>5</sub><br>mm | n<br>mm | r<br>mm |                                    |  |
| 160                                 | 170            | 192 | 390  | 33             | 22  | 125                  | 455     | 23      | 135                                | 7  |
| 180                                 | 185            | 212 | 430  | 35             | 25  | 140                  | 505     | 26      | 190                                | 10   |
| 200                                 | 200            | 238 | 474  | 45             | 30  | 160                  | 560     | 30      | 260                                | 14   |
| 225                                 | 215            | 258 | 522  | 50             | 35  | 170                  | 625     | 35      | 360                                | 19   |
| 250                                 | 240            | 287 | 580  | 55             | 40  | 190                  | 700     | 40      | 490                                | 26   |
| 280                                 | -              | 326 | 658  | 60             | 40  | 220                  | 765     | 40      | 680                                | 36   |
| 320                                 | -              | 361 | 728  | 70             | 45  | 240                  | 875     | 46      | 920                                | 50   |
| 360                                 | -              | 403 | 812  | 80             | 50  | 280                  | 955     | 53      | 1200                               | 65   |
| 400                                 | -              | 453 | 912  | 90             | 55  | 310                  | 1060    | 55      | 1700                               | 90   |
| 450                                 | -              | 505 | 1012 | 105            | 60  | 340                  | 1180    | 60      | 2350                               | 125  |
| 500                                 | -              | 560 | 1122 | 105            | 65  | 380                  | 1320    | 70      | 3300                               | 170  |
| 560                                 | -              | 630 | 1262 | 110            | 70  | 430                  | 1515    | 80      | 4400                               | 230  |
| 630                                 | -              | 694 | 1392 | 110            | 80  | 460                  | 1710    | 90      | 6000                               | 320  |
| 710                                 | -              | 781 | 1562 | 130            | 90  | 520                  | 1910    | 100     | 8100                               | 450  |
| 800                                 | -              | 883 | 1766 | 140            | 100   | 580                  | 2140    | 110     | 11500                              | 640  |

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.

2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.

3) Delikli mil kaması DIN 6885 kısım 1'e göre

4) Delikli mil bağlantı elemanı standart

5) Delikli mil tesbiti bakınız sayfa 35'den 37'ye

6) Fanlı soğutma yalnız büyük 180'den 560'a kadar.

Larger gear units against enquiry.

1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS

2) G3 is furnished only in connection with a fan.

3) Hollow shaft with parallel keyway to DIN 6885/1.

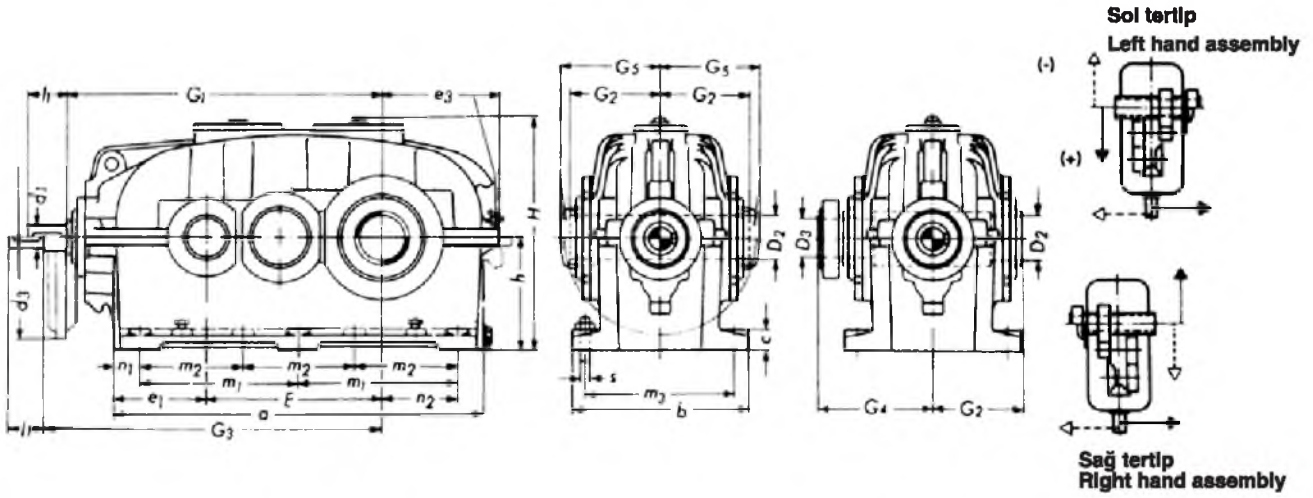
4) Hollow shaft with shrink disc to standard.

5) See pages 35 to 37 for fitting of hollow shaft units.

6) Cooling by fan from size 180 up to 560 only.

**REMAS konik dişli  
Üç kademeli delik milli  
ayaklı redüktörler  
Tip K2A**

**REMAS triple reduction shaft  
mounting bevel-helical gear units  
Type K2A**



**Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities**

| Tip<br>Type<br>K2A | a    | b    | c   | Mil uçları • Shaft and 1) |                |                |                        |                |                |                |                |                | Delik Mil<br>Hollow shaft 2) |     | d <sub>3</sub> | E     | e <sub>1</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | h    | H  |  |
|--------------------|------|------|-----|---------------------------|----------------|----------------|------------------------|----------------|----------------|----------------|----------------|----------------|------------------------------|-----|----------------|-------|----------------|----------------|----------------|----------------|------|----|--|
|                    |      |      |     | d <sub>1</sub>            | l <sub>1</sub> | G <sub>3</sub> | d <sub>2</sub>         | l <sub>2</sub> | G <sub>2</sub> | d <sub>1</sub> | l <sub>1</sub> | D <sub>2</sub> | D <sub>3</sub>               |     |                |       |                |                |                |                |      |    |  |
| Büyüklük<br>size   | mm   | mm   | mm  | mm                        | mm             | mm             | mm                     | mm             | mm             | mm             | mm             | mm             | mm                           | mm  | mm             | mm    | mm             | mm             | mm             | mm             | mm   | mm |  |
| 160                | 800  | 290  | 32  | 28 m6                     | 50             | -              | 22 k6                  | 35             | -              | 19 k6          | 35             | 85H7           | -                            | -   | 272            | 183   | 188            | 522            | 135            | 180            | 375  |    |  |
| 180                | 665  | 320  | 32  | 32 m6                     | 60             | 605            | 24 k6                  | 40             | -              | 22 k6          | 35             | 100H7          | -                            | 252 | 305            | 175   | 209            | 575            | 150            | 200            | 415  |    |  |
| 200                | 745  | 355  | 40  | 38 m6                     | 60             | 675            | 28 k6                  | 50             | -              | 24 k6          | 40             | 110H7          | -                            | 316 | 340            | 197,5 | 238            | 635            | 165            | 225            | 462  |    |  |
| 225                | 840  | 390  | 40  | 38 m6                     | 60             | 765            | 32 m6                  | 60             | -              | 28 m6          | 50             | 120H7          | -                            | 386 | 385            | 222,5 | 263            | 710            | 177,5          | 250            | 511  |    |  |
| 250                | 930  | 450  | 50  | 42 m6                     | 70             | 855            | 38 m6                  | 60             | -              | 32 m6          | 60             | 140H7          | -                            | 426 | 430            | 245   | 293            | 790            | 200            | 280            | 570  |    |  |
| 280                | 1025 | 500  | 50  | 48 m6                     | 80             | 940            | 38 m6                  | 60             | -              | 32 m6          | 60             | 150H7          | 140H7                        | 556 | 480            | 260   | 325            | 865            | 230            | 315            | 644  |    |  |
| 320                | 1160 | 570  | 63  | 55 m6                     | 90             | 1055           | 42 m6                  | 70             | -              | 38 m6          | 60             | 170H7          | 160H7                        | 590 | 545            | 300   | 364            | 975            | 250            | 355            | 719  |    |  |
|                    |      |      |     | i <sub>N</sub> = 12,5-40  |                |                | i <sub>N</sub> = 45-80 |                |                |                |                |                |                              |     |                |       |                |                |                |                |      |    |  |
| 380                | 1280 | 600  | 63  | 60m6                      | 105            | 1160           | 48m6                   | 80             | 1160           | -              | -              | 180H7          | 170H7                        | 614 | 610            | 320   | 398            | 1065           | 280            | 400            | 806  |    |  |
| 400                | 1420 | 690  | 80  | 70m6                      | 120            | 1295           | 60m6                   | 105            | 1295           | -              | -              | 200H7          | 190H7                        | 684 | 680            | 355   | 445            | 1195           | 315            | 450            | 906  |    |  |
| 450                | 1610 | 750  | 80  | 75m6                      | 120            | 1435           | 70m6                   | 120            | 1435           | -              | -              | 230H7          | 220H7                        | 784 | 770            | 400   | 505            | 1330           | 345            | 500            | 1006 |    |  |
|                    |      |      |     | i <sub>N</sub> = 12,5-45  |                |                | i <sub>N</sub> = 50-80 |                |                |                |                |                |                              |     |                |       |                |                |                |                |      |    |  |
| 500                | 1790 | 830  | 100 | 85 m6                     | 140            | 1595           | 75 m6                  | 120            | 1595           | -              | -              | 260H7          | 245H7                        | 854 | 860            | 450   | 557            | 1485           | 380            | 560            | 1121 |    |  |
| 560                | 2010 | 910  | 100 | 100 m6                    | 180            | 1800           | 85 m6                  | 140            | 1800           | -              | -              | 300H7          | 285H7                        | 914 | 960            | 515   | 624            | 1680           | 425            | 630            | 1261 |    |  |
| 630                | 2260 | 1030 | 125 | 110 m6                    | 180            | -              | 100 m6                 | 180            | -              | -              | -              | 340H7          | 325H7                        | -   | 1080           | 575   | 694            | 1895           | 470            | 710            | 1406 |    |  |
| 710                | 2540 | 1160 | 125 | 120 m6                    | 210            | -              | 110 m6                 | 180            | -              | -              | -              | 370H7          | 355H7                        | -   | 1210           | 655   | 780            | 2120           | 530            | 800            | 1581 |    |  |
| 800                | 2850 | 1320 | 180 | 130 m6                    | 210            | -              | 120 m6                 | 210            | -              | -              | -              | 410H7          | 395H7                        | -   | 1360           | 735   | 868            | 2370           | 605            | 900            | 1783 |    |  |

| Tip<br>Type<br>K2A | Sıkma elemanı<br>Shrink disc<br>4) |      | G <sub>3</sub> | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average<br>weight<br>kg | Max. yağ<br>miktarı<br>max. oil<br>quantity<br>Litres |
|--------------------|------------------------------------|------|----------------|----------------|----------------|----------------|----------------|----------------|---------------------------------|--------------|------------------------------------|---|
|                    | G <sub>4</sub>                     | Type |                |                |                |                |                |                | s                               | Adet<br>Qty. |                                    |   |
| Büyüklük<br>size   | mm                                 | 2008 | mm             | mm             | mm             | mm             | mm             | mm             | mm                              | mm           | kg                                 | litres  |
| 160                | -                                  | -    | 170            | -              | 170            | 245            | 45             | 120            | M 16                            | 8            | 160                                | 11  |
| 180                | -                                  | -    | 185            | -              | 190            | 275            | 47,5           | 137,5          | M 16                            | 8            | 220                                | 16  |
| 200                | -                                  | -    | 200            | -              | 210            | 300            | 57,5           | 150            | M 20                            | 8            | 310                                | 21  |
| 225                | -                                  | -    | 215            | -              | 235            | 335            | 67,5           | 165            | M 20                            | 8            | 420                                | 30  |
| 250                | -                                  | -    | 240            | -              | 270            | 380            | 60             | 195            | M 24                            | 8            | 570                                | 40  |
| 280                | 335                                | 195  | -              | -              | 285            | 430            | 85             | 200            | M 24                            | 8            | 800                                | 58  |
| 320                | 375                                | 220  | -              | -              | 320            | 490            | 100            | 215            | M 30                            | 8            | 1100                               | 80  |
| 380                | 405                                | 240  | -              | -              | 360            | 520            | 100            | 250            | M 30                            | 8            | 1450                               | 105   |
| 400                | 450                                | 260  | -              | -              | 400            | 590            | 110            | 275            | M 36                            | 8            | 2100                               | 145   |
| 450                | 505                                | 300  | -              | -              | 450            | 650            | 130            | 310            | M 36                            | 8            | 2850                               | 200   |
| 500                | 550                                | 340  | -              | -              | 500            | 710            | 145            | 335            | M 42                            | 8            | 4100                               | 270   |
| 560                | 600                                | 380  | -              | -              | 560            | 790            | 165            | 370            | M 42                            | 8            | 5500                               | 370   |
| 630                | 670                                | 420  | -              | -              | 630            | 890            | 185            | 420            | M 48                            | 8            | 7600                               | 400   |
| 710                | 730                                | 460  | -              | -              | 710            | 1000           | 205            | 470            | M 48                            | 8            | 10500                              | 630   |
| 800                | 800                                | 500  | -              | -              | 800            | 1140           | 225            | 530            | M 56                            | 8            | 14500                              | 870   |

\* Ölçü değiştirme hakkımız saklıdır.  
\* Dimensions are subject to alteration without notice

Daha büyük redüktörleri sorunuz.

1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.

2) G3 ölçüsü yalnızca fanlı durumlarda imal edilir.

3) Delikli mil kaması DIN 6885 kısım 1'e göre

4) Delikli mil bağlantı elemanı standart

5) Delikli mil tesbiti bakınız sayfa 35'den 37'ye

6) Fanlı soğutma yalnız büyüklük 180'den 560'a kadar.

Larger gear units against enquiry.

1) Shaft end with parallel key to DIN 6885/1 form A and tapped

catering hole to DIN 332 form DS

2) G3 is furnished only in connection with a fan.

3) Hollow shaft with parallel keyway to DIN 6885/1.

4) Hollow shaft with shrink disc to standard.

5) See pages 35 to 37 for fitting of hollow shaft units.

6) Cooling by fan from size 180 up to 560 only.

# MÜMESSİLLİKLERİMİZ - REPRESENTATIVE



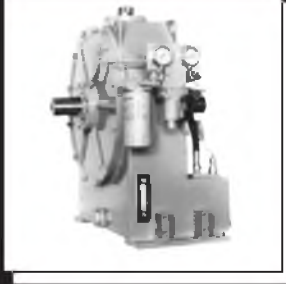
**Oetlinghaus**

•Kavramalar - Clutches



**TRANSFLUID**

•Hidrolik Kaplinler ve Frenler - Fluid Couplings and Brakes



**mav**

•Konik Sıkma Bilezikleri - Shrink Discs and Clamping Devices



**esco**

•Elastik Lamelli ve Dişli Kaplinler - Flexible Disc and Gear Couplings





**Nominal güç**  
**Termal kapasite**  
**Tipler K3N K3A**

**Nom. power ratings**  
**Thermal capacities**  
**Types K3N K3A**

| Tahvil oranı $i_N$ , Devirler $n_{1N}$ ve $n_{2N}$ , Nominal güç $P_{1N}$ • Transmission ratios $i_N$ , speeds $n_{1N}$ and $n_{2N}$ , nom. power ratings $P_{1N}$ |                   |                   |                                      |      |      |      |      |      |      |      |      |      |      |     |     |     |      |
|--|-------------------|-------------------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|------|
| $i_N$  | $n_{1N}$<br>1/min | $n_{2N}$<br>r.p.m | Redüktör Büyüklüğü • Gear unit sizes |      |      |      |      |      |      |      |      |      |      |     |     |     |      |
|  |                   |                   | 160                                  | 180  | 200  | 225  | 250  | 280  | 320  | 360  | 400  | 450  | 500  | 560 | 630 | 710 | 800  |
| Nominal güç $P_{1N}$ - kW • Non.power ratings $P_{1N}$ in kW   |                   |                   |                                      |      |      |      |      |      |      |      |      |      |      |     |     |     |      |
| 90   | 1500              | 16.7              |                                      |      |      |      |      |      |      | 105  | 145  | 205  | 300  | 420 | 560 | 800 | 1150 |
|  | 1000              | 11.1              |                                      |      |      |      |      |      |      | 71   | 98   | 140  | 205  | 285 | 370 | 530 | 770  |
|  | 750               | 8.3               |                                      |      |      |      |      |      |      | 53   | 73   | 105  | 155  | 210 | 280 | 400 | 580  |
| 100  | 1500              | 15                | 7.2                                  | 10.3 | 14.2 | 21   | 28.5 | 41   | 65   | 99   | 130  | 185  | 209  | 400 | 540 | 780 | 1100 |
|  | 1000              | 10                | 4.8                                  | 6.9  | 9.5  | 14   | 19   | 27   | 44   | 66   | 88   | 125  | 195  | 270 | 360 | 520 | 750  |
|  | 750               | 7.5               | 3.5                                  | 5.1  | 7    | 10.5 | 14   | 20   | 33   | 51   | 66   | 93   | 145  | 205 | 270 | 390 | 560  |
| 112  | 1500              | 13.4              | 6.3                                  | 9.4  | 13.2 | 20   | 26.5 | 37   | 58   | 87   | 115  | 170  | 255  | 360 | 480 | 690 | 940  |
|  | 1000              | 8.9               | 4.2                                  | 6.9  | 9.2  | 13.5 | 17.5 | 24.5 | 38   | 60   | 78   | 115  | 170  | 240 | 320 | 470 | 670  |
|  | 750               | 6.7               | 3.1                                  | 4.9  | 6.7  | 9.5  | 13   | 18.5 | 29   | 45   | 58   | 86   | 130  | 185 | 240 | 355 | 500  |
| 125  | 1500              | 12                | 5.7                                  | 8.9  | 12.3 | 18   | 23.5 | 33   | 51   | 79   | 100  | 150  | 230  | 320 | 430 | 610 | 880  |
|  | 1000              | 8                 | 3.8                                  | 6.1  | 8.3  | 12   | 15.5 | 22   | 34   | 54   | 68   | 100  | 155  | 215 | 285 | 410 | 580  |
|  | 750               | 6                 | 2.8                                  | 4.5  | 6.2  | 8.6  | 11.5 | 16.5 | 25.5 | 41   | 51   | 75   | 115  | 165 | 215 | 310 | 440  |
| 140  | 1500              | 10.7              | 5.1                                  | 7.9  | 11.2 | 16   | 21.5 | 29   | 46   | 71   | 89   | 135  | 205  | 295 | 380 | 550 | 800  |
|  | 1000              | 7.1               | 3.4                                  | 5.5  | 7.3  | 11   | 14.5 | 20   | 31   | 49   | 60   | 91   | 240  | 195 | 255 | 365 | 530  |
|  | 750               | 5.4               | 2.5                                  | 4.1  | 5.4  | 8    | 10.5 | 15   | 23   | 36   | 45   | 68   | 105  | 150 | 195 | 275 | 400  |
| 160  | 1500              | 9.4               | 4.5                                  | 7.2  | 9.8  | 14   | 19   | 26.5 | 41   | 63   | 81   | 115  | 180  | 260 | 340 | 490 | 710  |
|  | 1000              | 6.3               | 3.1                                  | 4.9  | 6.9  | 8.9  | 12.5 | 17.5 | 26.5 | 42   | 55   | 77   | 120  | 175 | 225 | 330 | 470  |
|  | 750               | 4.7               | 2.2                                  | 3.6  | 4.9  | 6.8  | 9.5  | 13   | 20.5 | 32   | 41   | 58   | 92   | 135 | 170 | 250 | 360  |
| 180  | 1500              | 8.3               | 4.1                                  | 6.3  | 8.9  | 12.5 | 16.5 | 23.5 | 37   | 57   | 72   | 100  | 160  | 225 | 295 | 440 | 630  |
|  | 1000              | 5.6               | 2.8                                  | 4.2  | 5.9  | 8.1  | 11   | 15.5 | 24.5 | 38   | 48   | 68   | 105  | 150 | 200 | 295 | 420  |
|  | 750               | 4.2               | 2.1                                  | 3.1  | 4.4  | 6.1  | 8    | 11.5 | 18.5 | 29   | 36   | 52   | 82   | 110 | 150 | 220 | 320  |
| 200  | 1500              | 7.5               | 3.6                                  | 5.7  | 7.9  | 11.5 | 15   | 22   | 32   | 51   | 64   | 92   | 145  | 205 | 270 | 390 | 560  |
|  | 1000              | 5                 | 2.4                                  | 3.8  | 5.3  | 7.6  | 10   | 14   | 21.5 | 34   | 43   | 61   | 97   | 135 | 180 | 260 | 380  |
|  | 750               | 3.8               | 1.9                                  | 2.8  | 4.1  | 5.6  | 7.5  | 11   | 16   | 26.5 | 32   | 46   | 73   | 105 | 135 | 200 | 280  |
| 224  | 1500              | 6.7               | 3.2                                  | 4.9  | 6.9  | 10.2 | 13.5 | 19   | 29   | 46   | 57   | 83   | 130  | 185 | 240 | 360 | 500  |
|  | 1000              | 4.5               | 2.2                                  | 3.4  | 4.7  | 6.8  | 8.8  | 13   | 19.5 | 31   | 38   | 55   | 87   | 125 | 160 | 240 | 340  |
|  | 750               | 3.3               | 1.7                                  | 2.5  | 3.6  | 5    | 6.6  | 9.5  | 14.5 | 23.5 | 29   | 42   | 66   | 94  | 120 | 180 | 255  |
| 250  | 1500              | 6                 | 2.8                                  | 4.6  | 6.5  | 8.9  | 12.2 | 17   | 26   | 40   | 51   | 72   | 115  | 165 | 215 | 320 | 450  |
|  | 1000              | 4                 | 1.9                                  | 3.1  | 4.4  | 5.8  | 8.2  | 11.5 | 17   | 27   | 34   | 49   | 77   | 110 | 145 | 215 | 300  |
|  | 750               | 3                 | 1.4                                  | 2.3  | 3.3  | 4.3  | 6.2  | 8.5  | 13   | 20.5 | 26   | 37   | 58   | 83  | 110 | 160 | 225  |
| 280  | 1500              | 5.4               | 2.5                                  | 3.4  | 5.5  | 7.9  | 11.2 | 15.5 | 23   | 36   | 46   | 66   | 100  | 145 | 195 | 280 | 390  |
|  | 1000              | 3.6               | 1.7                                  | 2.3  | 3.8  | 5.4  | 7.3  | 10.5 | 15.5 | 24   | 31   | 47   | 67   | 97  | 130 | 185 | 265  |
|  | 750               | 2.7               | 1.2                                  | 1.7  | 2.7  | 4    | 5.3  | 7.6  | 11.5 | 18.5 | 23   | 33   | 51   | 73  | 98  | 140 | 195  |
| 315  | 1500              | 4.8               | 2.3                                  | 3.1  | 5.1  | 7.4  | 9.3  | 13.6 | 20.5 | 33   | 40   | 58   | 92   | 130 | 170 | 250 | 240  |
|  | 1000              | 3.2               | 1.5                                  | 2.1  | 3.5  | 4.8  | 6.3  | 8.7  | 13.5 | 21.5 | 27   | 39   | 61   | 87  | 115 | 165 | 230  |
|  | 750               | 2.4               | 1.1                                  | 1.5  | 2.6  | 3.7  | 4.7  | 6.7  | 10.5 | 16.5 | 20.5 | 29.5 | 47   | 66  | 86  | 125 | 175  |
| 355  | 1500              | 4.2               | 2.1                                  | 2.8  | 4.5  | 6.5  | 8.3  | 11.7 | 17.5 | 24   | 36   | 46   | 83   | 115 | 155 | 210 | 275  |
|  | 1000              | 2.8               | 1.4                                  | 1.9  | 2.9  | 4.3  | 5.8  | 7.8  | 11.5 | 16.5 | 24   | 31   | 54   | 77  | 105 | 140 | 185  |
|  | 750               | 2.1               | 1                                    | 1.4  | 2.2  | 3.2  | 4.1  | 5.8  | 8.6  | 12.5 | 18   | 23.5 | 42   | 59  | 78  | 105 | 140  |
| 400  | 1500              | 3.8               | 1.7                                  | 2.4  | 3.8  | 5.6  | 7.2  | 9.7  | 15   | 22   | 30   | 41   | 72   | 100 | 125 | 175 | 245  |
|  | 1000              | 2.5               | 1.1                                  | 1.6  | 2.5  | 3.8  | 4.8  | 6.5  | 10   | 14.5 | 20   | 27.5 | 48   | 68  | 84  | 115 | 165  |
|  | 750               | 1.9               | 0.8                                  | 1.2  | 1.9  | 2.8  | 3.5  | 4.8  | 7.3  | 11.5 | 15.5 | 20.5 | 37   | 52  | 63  | 88  | 125  |
| 450  | 1500              | 3.3               | 1.4                                  | 2.1  | 3.1  | 4.9  | 6.5  | 8.8  | 13   | 19.5 | 28   | 37   | 58   | 88  | 110 | 155 | 220  |
|  | 1000              | 2.2               | 0.9                                  | 1.4  | 2.1  | 3.2  | 4.3  | 5.9  | 8.6  | 13.5 | 19   | 25   | 39   | 59  | 74  | 105 | 150  |
|  | 750               | 1.7               | 0.7                                  | 1.1  | 1.6  | 2.4  | 3.2  | 4.4  | 6.3  | 10   | 14   | 18.5 | 29.5 | 45  | 56  | 78  | 110  |
| 500  | 1500              | 3                 |                                      | 1.8  | 2.6  | 3.9  | 5.9  | 7.1  | 10   | 17   | 24   | 33   | 50   | 71  | 97  | 150 | 190  |
|  | 1000              | 2                 |                                      | 1.2  | 1.8  | 2.6  | 3.9  | 4.7  | 6.6  | 11.5 | 16   | 22.5 | 34   | 47  | 65  | 100 | 130  |
|  | 750               | 1.5               |                                      | 1    | 1.3  | 2    | 2.9  | 3.5  | 4.8  | 8.6  | 12   | 16.5 | 25.5 | 36  | 49  | 76  | 95   |

| Termal kapasite • Thermal capacities                              |  |                                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|---|--|--------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| $P_{G1}$  | Rüzgar hızı<br>Air flow  | Redüktör Büyüklüğü • Gear unit sizes |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|   |  | 160                                  | 180 | 200 | 225 | 250 | 280 | 320 | 360 | 400 | 450 | 500 | 560 | 630 | 710 | 800 |     |
| Termal kapasite $P_{G1}$ - kW • Thermal capacities $P_{G1}$ in kW |  |                                      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| $P_{G1}$  | Kapalı küçük hacimlerde soğutmasız<br>without cooling for small confined spaces      | w<br>> 0,5m/s                        | 17  | 21  | 26  | 32  | 40  | 50  | 63  | 78  | 96  | 120 | 150 | 185 | 230 | 290 | 360 |
|   | Geniş hacimlerde soğutmasız<br>without cooling for large premises,<br>workshops etc. | w<br>> 1,4m/s                        | 23  | 30  | 37  | 45  | 57  | 72  | 96  | 110 | 140 | 170 | 210 | 260 | 330 | 410 | 510 |
|   | Açık yerlerde soğutmasız<br>without cooling in the open                              | w<br>> 3.7m/s                        | 32  | 40  | 48  | 60  | 76  | 96  | 115 | 145 | 185 | 225 | 285 | 350 | 430 | 540 | 680 |

Isı hesabına göre, gerekliyse soğutma sistemi konulur.

Auxiliary cooling must be provided if the thermal rating exceeds thermal capacity.

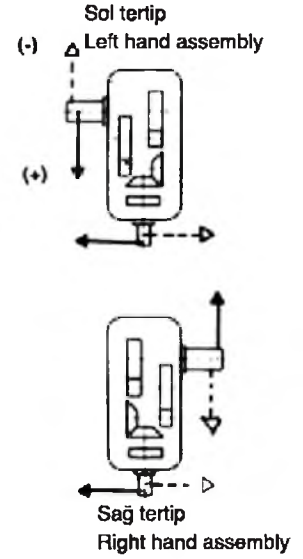
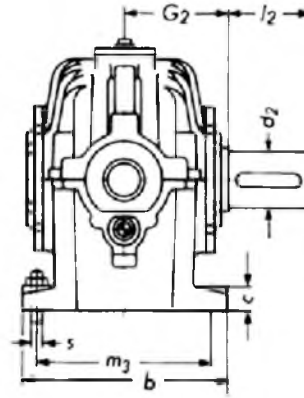
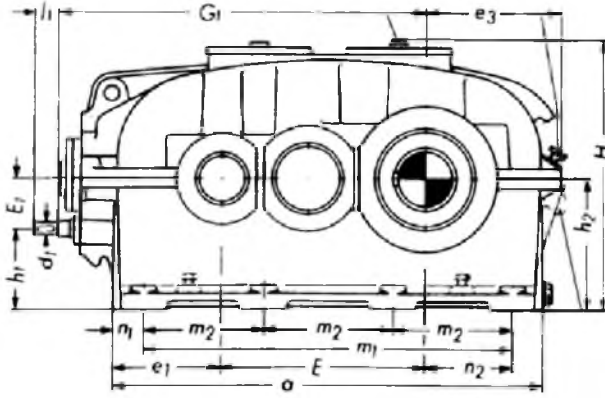
• Ölçü değiştirme hakkımız saklıdır.

• Dimensions are subject to alteration without notice



**REMAS konik dişli  
dört kademeli ayaklı redüktörler  
Tip K3N**

**REMAS quadruple reduction  
bevel-helical gear units  
Type K3N**



| Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities |      |      |     |                           |                |                            |                |                |                |      |     |       |                |                |                |                |                |                |                |   |
|---|------|------|-----|---------------------------|----------------|----------------------------|----------------|----------------|----------------|------|-----|-------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---|
| Tip<br>Type<br>K3N  | a    | b    | c   | Mil uçları • Shaft end 1) |                |                            |                |                |                |      |     | E     | E <sub>1</sub> | e <sub>1</sub> | e <sub>3</sub> | G <sub>3</sub> | G <sub>2</sub> | h <sub>2</sub> | h <sub>1</sub> | H |
|   |      |      |     | d <sub>1</sub>            | l <sub>1</sub> | d <sub>1</sub>             | l <sub>1</sub> | d <sub>2</sub> | l <sub>2</sub> |      |     |       |                |                |                |                |                |                |                |   |
| Büyükük<br>size   | mm   | mm   | mm  | l <sub>N</sub> =100-200   |                | l <sub>N</sub> =224-500    |                | mm             | mm             | mm   | mm  | mm    | mm             | mm             | mm             | mm             | mm             | mm             | mm             |   |
| 160   | 600  | 290  | 32  | 19 k6                     | 30             | 14 k6                      | 30             | 75m6           | 120            | 272  | 63  | 163   | 188            | 507            | 140            | 180            | 117            | 375            |                |   |
| 180   | 665  | 320  | 32  | 19 k6                     | 35             | 16 k6                      | 30             | 85m6           | 140            | 305  | 70  | 175   | 209            | 565            | 155            | 200            | 130            | 415            |                |   |
| 200   | 745  | 355  | 40  | 22 k6                     | 35             | 19 k6                      | 35             | 95m6           | 160            | 340  | 80  | 197,5 | 238            | 622            | 170            | 225            | 145            | 462            |                |   |
| 225   | 840  | 390  | 40  | 24 k6                     | 40             | 22 k6                      | 35             | 100m6          | 180            | 385  | 90  | 222,5 | 263            | 700            | 190            | 250            | 160            | 511            |                |   |
| 250   | 930  | 450  | 50  | 28 m6                     | 50             | 24 k6                      | 40             | 110 n6         | 180            | 430  | 100 | 245   | 293            | 778            | 215            | 280            | 180            | 570            |                |   |
| 280   | 1025 | 500  | 50  | 32 m6                     | 60             | 28 m6                      | 50             | 130 n6         | 210            | 480  | 112 | 280   | 325            | 862            | 240            | 315            | 203            | 644            |                |   |
| 320   | 1160 | 570  | 63  | 32 m6                     | 60             | 28 m6                      | 50             | 140 n6         | 240            | 545  | 125 | 300   | 364            | 970            | 270            | 355            | 230            | 719            |                |   |
|   |      |      |     | l <sub>N</sub> = 90 - 160 |                | l <sub>N</sub> = 180 - 500 |                |                |                |      |     |       |                |                |                |                |                |                |                |   |
| 360   | 1280 | 600  | 63  | 38 m6                     | 60             | 28 m6                      | 50             | 170 n6         | 270            | 610  | 140 | 320   | 398            | 1070           | 290            | 400            | 260            | 806            |                |   |
| 400   | 1420 | 690  | 80  | 42 m6                     | 70             | 32 m6                      | 60             | 180 n6         | 310            | 680  | 160 | 355   | 445            | 1195           | 320            | 450            | 290            | 906            |                |   |
| 450   | 1610 | 750  | 80  | 48 m6                     | 80             | 38 m6                      | 60             | 210 n6         | 350            | 770  | 180 | 400   | 505            | 1330           | 360            | 500            | 320            | 1006           |                |   |
|   |      |      |     | l <sub>N</sub> = 90 - 280 |                | l <sub>N</sub> = 315 - 500 |                |                |                |      |     |       |                |                |                |                |                |                |                |   |
| 500   | 1790 | 830  | 100 | 55 m6                     | 90             | 42 m6                      | 70             | 240 n6         | 400            | 860  | 200 | 450   | 557            | 1480           | 400            | 560            | 360            | 1121           |                |   |
| 560   | 2010 | 910  | 100 | 60 m6                     | 105            | 42 m6                      | 70             | 270 n6         | 450            | 960  | 225 | 515   | 624            | 1680           | 440            | 630            | 405            | 1261           |                |   |
| 630   | 2260 | 1030 | 125 | 65 m6                     | 105            | 48 m6                      | 80             | 300 n6         | 500            | 1080 | 250 | 575   | 694            | 1895           | 500            | 710            | 460            | 1406           |                |   |
| 710   | 2540 | 1160 | 125 | 75 m6                     | 120            | 60 m6                      | 105            | 340 n6         | 550            | 1210 | 280 | 655   | 780            | 2120           | 560            | 800            | 520            | 1581           |                |   |
| 800   | 2850 | 1320 | 160 | 90 m6                     | 160            | 65 m6                      | 105            | 390 n6         | 650            | 1360 | 320 | 735   | 868            | 2370           | 645            | 900            | 580            | 1783           |                |   |

| Tip<br>Type<br>K3A | m    | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average weight<br>Kg | Max. yağ<br>miktarı<br>Max. oil quantity<br>Litres |
|--------------------|------|----------------|----------------|----------------|----------------|---------------------------------|--------------|---------------------------------|--|
|                    |      |                |                |                |                | s                               | Adet<br>Qty. |                                 |  |
| Büyükük<br>size    | mm   | mm             | mm             | mm             | mm             | mm                              |              |                                 |  |
| 160                | 510  | 170            | 245            | 45             | 120            | M16                             | 8            | 160                             | 11   |
| 180                | 570  | 190            | 275            | 47,5           | 137,5          | M16                             | 8            | 225                             | 16   |
| 200                | 630  | 210            | 300            | 57,5           | 150            | M20                             | 8            | 320                             | 21   |
| 225                | 705  | 235            | 335            | 67,5           | 165            | M20                             | 8            | 430                             | 30   |
| 250                | 810  | 270            | 380            | 60             | 195            | M24                             | 8            | 580                             | 40   |
| 280                | 855  | 285            | 430            | 85             | 200            | M24                             | 8            | 820                             | 58   |
| 320                | 980  | 320            | 490            | 100            | 215            | M30                             | 8            | 1150                            | 80   |
| 360                | 1080 | 360            | 520            | 100            | 250            | M30                             | 8            | 1500                            | 115  |
| 400                | 1200 | 400            | 590            | 110            | 275            | M36                             | 8            | 2150                            | 160  |
| 450                | 1350 | 450            | 650            | 130            | 310            | M36                             | 8            | 2900                            | 220  |
| 500                | 1500 | 500            | 710            | 145            | 335            | M42                             | 8            | 4200                            | 300  |
| 560                | 1680 | 560            | 790            | 165            | 370            | M42                             | 8            | 5800                            | 450  |
| 630                | 1890 | 630            | 890            | 185            | 420            | M48                             | 8            | 7700                            | 520  |
| 710                | 2130 | 710            | 1000           | 205            | 470            | M48                             | 8            | 10500                           | 820  |
| 800                | 2400 | 800            | 1140           | 225            | 530            | M56                             | 8            | 14500                           | 1150   |

Daha büyük redüktörleri sorunuz.

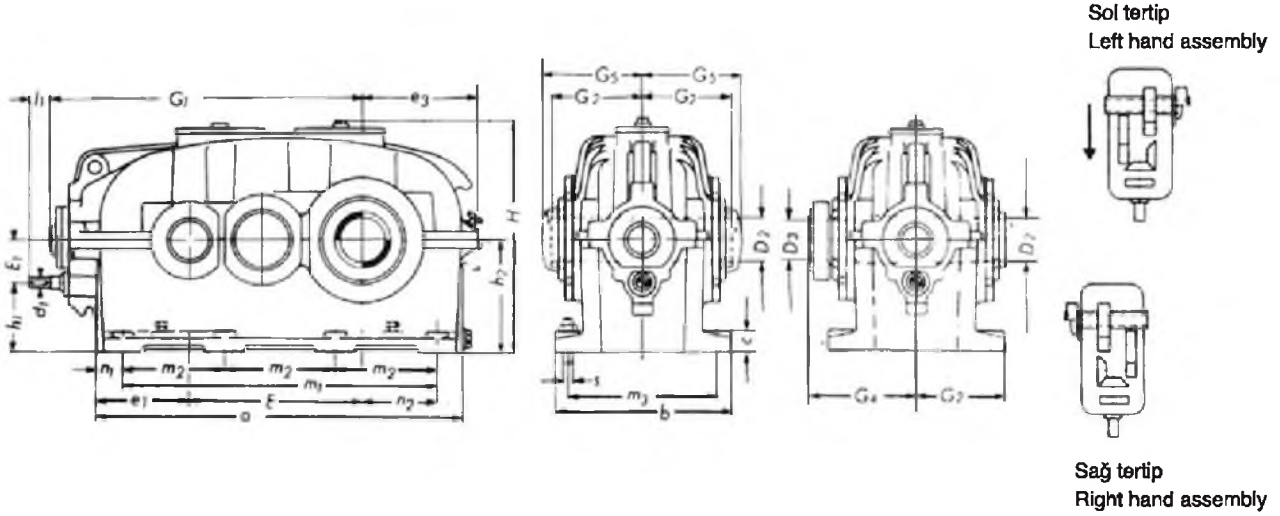
1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.

Larger gear units against enquiry.

1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS

**REMAS konik dişli**  
**Dört kademeli delik milli**  
**Ayaklı redüktörler**  
**Tip K3A**

**REMAS quadruple reduction shaft**  
**mounting bevel-helical gear units**  
**Type K3A**



Ölçüler, ağırlıklar, yağ miktarı • Dimensions, weights and oil quantities

| Tip<br>Type     | a    | b    | c   | Mil uçları<br>Shaft end 1)      |     |                |     | Delik mil<br>Hollow shaft 4)     |                | E    | E <sub>1</sub> | e <sub>1</sub> | e <sub>3</sub> | G <sub>1</sub> | G <sub>2</sub> | G <sub>4</sub> | Sıkma elemanı<br>Shrink disc |      |  |
|-----------------|------|------|-----|---------------------------------|-----|----------------|-----|----------------------------------|----------------|------|----------------|----------------|----------------|----------------|----------------|----------------|------------------------------|------|--|
|                 |      |      |     | d <sub>1</sub>                  | l   | d <sub>1</sub> | l   | D <sub>2</sub>                   | D <sub>3</sub> |      |                |                |                |                |                |                | Type                         | 2008 |  |
| K3A             |      |      |     |                                 |     |                |     |                                  |                |      |                |                |                |                |                |                |                              |      |  |
| Büyükük<br>Size | mm   | mm   | mm  | mm                              | mm  | mm             | mm  | mm                               | mm             | mm   | mm             | mm             | mm             | mm             | mm             | mm             | mm                           | 2008 |  |
| 160             | 600  | 280  | 32  | 16 k6                           | 30  | 14 k6          | 30  | 85 H7                            | -              | 272  | 63             | 163            | 188            | 507            | 135            | -              | -                            | -    |  |
| 180             | 665  | 320  | 32  | 19 k6                           | 35  | 16 k6          | 30  | 100H7                            | -              | 305  | 70             | 175            | 209            | 565            | 150            | -              | -                            | -    |  |
| 200             | 745  | 355  | 40  | 22 k6                           | 35  | 19 k6          | 35  | 110H7                            | -              | 340  | 80             | 197.5          | 238            | 622            | 165            | -              | -                            | -    |  |
| 225             | 840  | 390  | 40  | 24 k6                           | 40  | 22 k6          | 35  | 120H7                            | -              | 385  | 90             | 222.3          | 263            | 700            | 177.5          | -              | -                            | -    |  |
| 250             | 930  | 450  | 50  | 28 m6                           | 50  | 24 k6          | 40  | 140H7                            | -              | 430  | 100            | 245            | 293            | 778            | 200            | -              | -                            | -    |  |
| 280             | 1025 | 500  | 50  | 32 m6                           | 60  | 28 m6          | 50  | 150H7                            | 140H7          | 480  | 112            | 260            | 325            | 862            | 230            | 335            | 195                          | -    |  |
| 320             | 1160 | 570  | 63  | 32 m6                           | 60  | 28 m6          | 50  | 170H7                            | 160H7          | 545  | 125            | 300            | 364            | 970            | 250            | 375            | 220                          | -    |  |
|                 |      |      |     | <i>l<sub>N</sub> = 90 - 160</i> |     |                |     | <i>l<sub>N</sub> = 180 - 500</i> |                |      |                |                |                |                |                |                |                              |      |  |
| 360             | 1280 | 600  | 63  | 38 m6                           | 60  | 28 m6          | 50  | 180H7                            | 170H7          | 610  | 140            | 320            | 398            | 1070           | 280            | 405            | 240                          | -    |  |
| 400             | 1420 | 680  | 80  | 42 m6                           | 70  | 32 m6          | 60  | 200H7                            | 190H7          | 680  | 160            | 355            | 445            | 1195           | 315            | 450            | 260                          | -    |  |
| 450             | 1610 | 750  | 80  | 48 m6                           | 80  | 38 m6          | 60  | 230H7                            | 220H7          | 770  | 180            | 400            | 505            | 1330           | 345            | 505            | 300                          | -    |  |
|                 |      |      |     | <i>l<sub>N</sub> = 90 - 280</i> |     |                |     | <i>l<sub>N</sub> = 315 - 500</i> |                |      |                |                |                |                |                |                |                              |      |  |
| 500             | 1790 | 830  | 100 | 55 m6                           | 90  | 42 m6          | 70  | 260H7                            | 245H7          | 860  | 200            | 450            | 557            | 1480           | 380            | 550            | 340                          | -    |  |
| 560             | 2010 | 910  | 100 | 60 m6                           | 105 | 42 m6          | 70  | 300H7                            | 285H7          | 960  | 225            | 515            | 624            | 1680           | 425            | 600            | 380                          | -    |  |
| 630             | 2280 | 1030 | 125 | 65 m6                           | 105 | 48 m6          | 80  | 340H7                            | 325H7          | 1080 | 250            | 575            | 694            | 1895           | 470            | 670            | 420                          | -    |  |
| 710             | 2540 | 1160 | 125 | 75 m6                           | 120 | 60 m6          | 105 | 370H7                            | 355H7          | 1210 | 280            | 655            | 780            | 2120           | 530            | 730            | 460                          | -    |  |
| 800             | 2850 | 1320 | 160 | 90 m6                           | 160 | 65 m6          | 105 | 410H7                            | 395H7          | 1360 | 320            | 735            | 868            | 2370           | 605            | 825            | 500                          | -    |  |

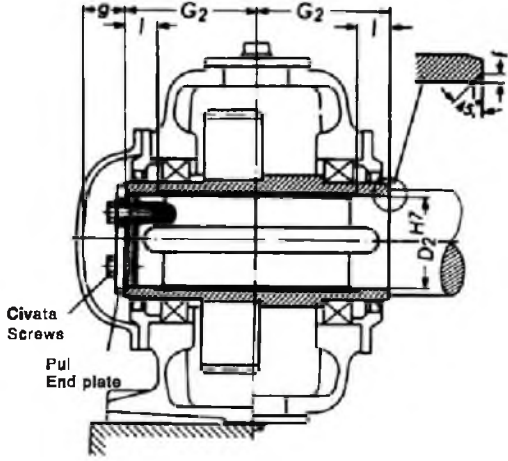
| Tip<br>Type     | G <sub>5</sub> | h <sub>1</sub> | h <sub>2</sub> | H    | m <sub>1</sub> | m <sub>2</sub> | m <sub>3</sub> | n <sub>1</sub> | n <sub>2</sub> | Ayak civataları<br>Found. Bolts |              | Ağırlık<br>Average weight | Max. yağ<br>miktarı<br>Max. oil quantity |
|-----------------|----------------|----------------|----------------|------|----------------|----------------|----------------|----------------|----------------|---------------------------------|--------------|---------------------------|--|
|                 |                |                |                |      |                |                |                |                |                | s                               | Adet<br>Qty. |                           |  |
| K3A             |                |                |                |      |                |                |                |                |                |                                 |              |                           |  |
| Büyükük<br>size | mm             | mm             | mm             | mm   | mm             | mm             | mm             | mm             | mm             | mm                              |              | Kg                        | Litre                                    |
| 160             | 170            | 117            | 180            | 375  | 510            | 170            | 245            | 45             | 120            | M 16                            | 8            | 160                       | 11                                       |
| 180             | 185            | 130            | 200            | 415  | 570            | 190            | 275            | 47,5           | 137,5          | M 16                            | 8            | 225                       | 16                                       |
| 200             | 200            | 145            | 225            | 462  | 630            | 210            | 300            | 57,5           | 150            | M 20                            | 8            | 320                       | 21                                       |
| 225             | 215            | 160            | 250            | 511  | 705            | 235            | 335            | 67,5           | 165            | M 20                            | 8            | 430                       | 30                                       |
| 250             | 240            | 180            | 280            | 570  | 810            | 270            | 380            | 60             | 195            | M 24                            | 8            | 580                       | 40                                       |
| 280             | -              | 203            | 315            | 644  | 855            | 285            | 430            | 85             | 200            | M 24                            | 8            | 820                       | 58                                       |
| 320             | -              | 230            | 355            | 719  | 960            | 320            | 490            | 100            | 215            | M 30                            | 8            | 1150                      | 80                                       |
| 360             | -              | 260            | 400            | 806  | 1080           | 360            | 520            | 100            | 250            | M 30                            | 8            | 1500                      | 115                                      |
| 400             | -              | 290            | 450            | 906  | 1200           | 400            | 590            | 110            | 275            | M 36                            | 8            | 2150                      | 160                                      |
| 450             | -              | 320            | 500            | 1006 | 1350           | 450            | 650            | 130            | 310            | M 36                            | 8            | 2900                      | 220                                      |
| 500             | -              | 360            | 560            | 1121 | 1500           | 500            | 710            | 145            | 335            | M 42                            | 8            | 4200                      | 300                                      |
| 560             | -              | 405            | 630            | 1261 | 1680           | 560            | 790            | 165            | 370            | M 42                            | 8            | 5600                      | 450                                      |
| 630             | -              | 460            | 710            | 1406 | 1890           | 630            | 890            | 185            | 420            | M 48                            | 8            | 7700                      | 520                                      |
| 710             | -              | 520            | 800            | 1580 | 2130           | 710            | 1000           | 205            | 470            | M 48                            | 8            | 10500                     | 820                                      |
| 800             | -              | 580            | 900            | 1783 | 2400           | 800            | 1090           | 225            | 530            | M 56                            | 8            | 14500                     | 1150                                     |

• Ölçü değiştirme hakkımız saklıdır. • Dimensions are subject to alteration without notice

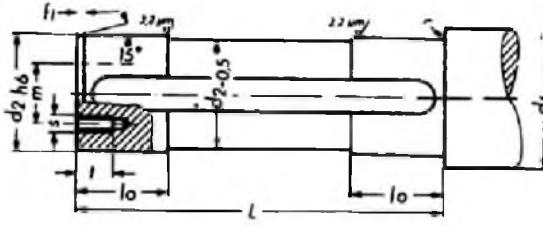
- Daha büyük redüktörleri sorunuz.
- 1) Mil kamaları DIN 6885 kısım 1, Form A ve punta yeri DIN 332 Form DS.
  - 2) Delikli mil kaması DIN 6885 kısım 1'e göre
  - 3) Delikli mil bağlantı elemanı standart
  - 4) Delikli mil tespiti bakınız sayfa 35'den 37'ye
- Larger gear units against enquiry.
- 1) Shaft end with parallel key to DIN 6885/1 form A and tapped centering hole to DIN 332 form DS
  - 2) Hollow shaft with parallel keyway to DIN 6885/1.
  - 3) Hollow shaft with shrink disc to standard.
  - 4) See pages 35 to 37 for fitting of hollow shaft units.

**REMAs delik milli, kamalı  
Redüktörler  
Büyükölük 250'ye kadar**

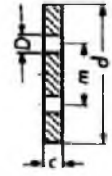
**Fitting of  
REMAs shaft mounting gear units  
parallel key connection  
to size 250**



İş makinası tarafı kamalı mil detayı  
Driven machine shaft for parallel key connection



Kama DIN 6885 Telli 1  
Parallel key to DIN 6885/1



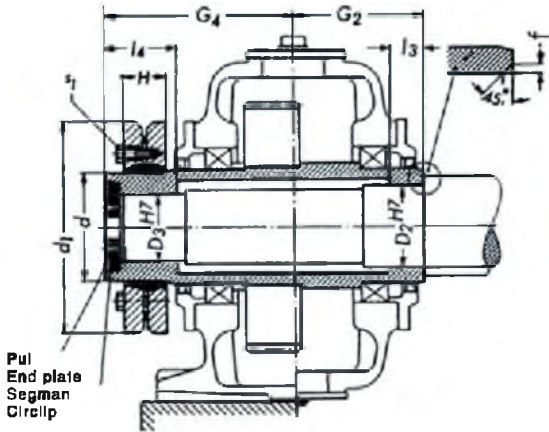
Pul  
End Plate

| Şaft bağlantı ölçüleri - Shaft end fitting dimensions                               |     |     |     |     |                                      |  |                      |                      |         |                      |         |                            |         |         |         |                         |         |                      |         |                             |         |         |                     |              |
|---|-----|-----|-----|-----|--------------------------------------|--|----------------------|----------------------|---------|----------------------|---------|----------------------------|---------|---------|---------|-------------------------|---------|----------------------|---------|-----------------------------|---------|---------|---------------------|--------------|
| REMAs Boş milli redüktör tipleri<br>REMAs shaft mounting gear units<br>Tip<br>Types |     |     |     |     |                                      | İş Makinası<br>Şaftı<br>Shaft of driven<br>machine |                      |                      |         |                      |         | Çektirme pulu<br>End plate |         |         |         | Boş mil<br>Hollow shaft |         |                      |         | Çektirme civatası<br>Screws |         |         |                     |              |
| S2A   | S3A | S4A | K1A | K2A | K3A                                  | d <sub>2</sub><br>mm                               | d <sub>6</sub><br>mm | f <sub>1</sub><br>mm | L<br>mm | l <sub>0</sub><br>mm | r<br>mm | s<br>mm                    | t<br>mm | c<br>mm | D<br>mm | d<br>mm                 | m<br>mm | D <sub>2</sub><br>mm | f<br>mm | G <sub>2</sub><br>mm        | g<br>mm | l<br>mm | Boyut<br>Size<br>mm | Adet<br>Qty. |
| S20   | S30 | S40 | K10 | K20 | Redüktör büyüklüğü<br>Gear unit size |  |                      |                      |         |                      |         |                            |         |         |         |                         |         |                      |         |                             |         |         |                     |              |
| 160   | 160 |     | 160 | 160 | 160                                  | 85   | 95                   | 5                    | 268     | 50                   | 2,5     | M10                        | 17      | 10      | 11      | 100                     | 60      | 85                   | 3       | 135                         | 30      | 40      | M 10X25             | 2            |
| 180   | 160 | 180 |     | 180 | 180                                  | 100  | 110                  | 5                    | 298     | 50                   | 4       | M10                        | 17      | 10      | 11      | 120                     | 70      | 100                  | 4       | 150                         | 30      | 35      | M 10X25             | 2            |
| 200   | 200 | 200 | 200 | 200 | 200                                  | 110  | 120                  | 5                    | 328     | 50                   | 4       | M12                        | 20      | 10      | 14      | 130                     | 75      | 110                  | 4       | 165                         | 32      | 40      | M 12X30             | 2            |
| 225   | 225 | 225 |     | 225 | 225                                  | 120  | 130                  | 5                    | 353     | 50                   | 4       | M12                        | 20      | 12      | 14      | 140                     | 80      | 120                  | 4       | 177,5                       | 32      | 40      | M 12X30             | 2            |
| 250   | 250 | 250 | 250 | 250 | 250                                  | 140  | 150                  | 5                    | 398     | 55                   | 4       | M12                        | 20      | 12      | 14      | 160                     | 90      | 140                  | 4       | 200                         | 32      | 45      | M 12X30             | 2            |

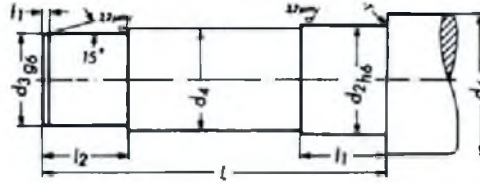
Çektirme pulu ve civataları ayrı sipariş edilmelidir.  
End plate, screws and parallel key must be ordered separately.

**REMAS delik milli, sıkma bileziği bağlantılı redüktörler**  
**Büyüklik 280'den büyükler için**

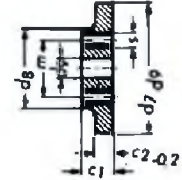
**Fitting of REMAS shaft mounting gear units shrink disc connection from size 280**



İş makinası tarafı sıkma bileziği bağlantılı mil detayı  
 Driven machine shaft for shrink disc connection



Millin yağ ve gresden arındırılmış olması lazım  
 Machine shaft must be clean, free from oil or grease



Puy  
 End P late

**Şaft bağlantı ölçüleri • Shaft end fitting dimensions**

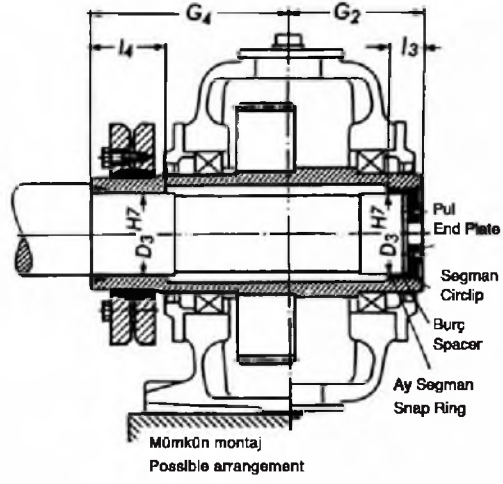
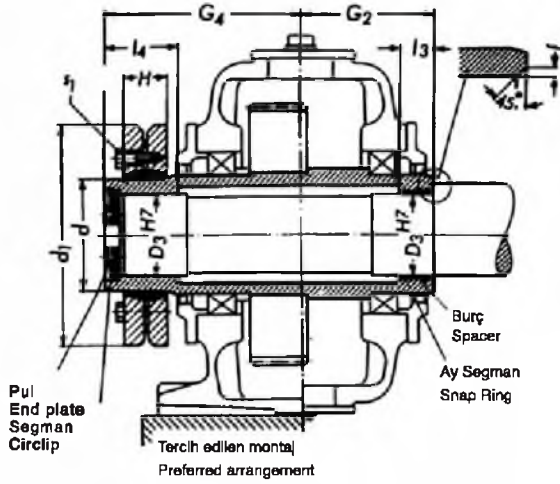
| REMAS Boş milli redüktör tipleri<br>REMAS shaft mounting gear units<br>Tip<br>Types |                          | İş Makinası Şaftı<br>Shaft of driven machine |                   |                      |                                    |                      |                      |                      |         |                      |                      | Çektime pulu<br>End plate |                      |                      |                      |                      | Diş ölçüsü<br>Thread |         | Sigman<br>Cırcılp<br>DIN 472 |              |       |
|---|--------------------------|--|-------------------|----------------------|------------------------------------|----------------------|----------------------|----------------------|---------|----------------------|----------------------|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------|------------------------------|--------------|-------|
| S2A<br>S20  | S3A<br>S30<br>S4A<br>S40 | K1A<br>K10                                   | K2A<br>K20<br>K3A | d <sub>2</sub><br>mm | d <sub>3</sub> <sup>2)</sup><br>mm | d <sub>4</sub><br>mm | d <sub>6</sub><br>mm | f <sub>1</sub><br>mm | L<br>mm | l <sub>1</sub><br>mm | l <sub>2</sub><br>mm | r<br>mm                   | c <sub>1</sub><br>mm | c <sub>2</sub><br>mm | d <sub>7</sub><br>mm | d <sub>8</sub><br>mm | d <sub>9</sub><br>mm | m<br>mm | s                            | Adet<br>Qty. | mm    |
| 280   | 280                      |  | 280               | 150                  | 140                                | 145                  | 160                  | 6                    | 542     | 78                   | 90                   | 2                         | 23                   | 10                   | 150                  | 110                  | 33                   | 70      | M12                          | 2            | 150x4 |
| 320   | 320                      |  | 320               | 170                  | 160                                | 165                  | 180                  | 6                    | 602     | 96                   | 110                  | 2                         | 23                   | 10                   | 170                  | 120                  | 33                   | 80      | M12                          | 2            | 170x4 |
| 360   | 360                      |  | 360               | 180                  | 170                                | 175                  | 190                  | 6                    | 662     | 101                  | 115                  | 2                         | 23                   | 10                   | 180                  | 120                  | 33                   | 80      | M16                          | 2            | 180x4 |
| 400   | 400                      |  | 400               | 200                  | 190                                | 195                  | 210                  | 6                    | 742     | 113                  | 125                  | 2                         | 23                   | 10                   | 200                  | 130                  | 33                   | 90      | M16                          | 2            | 200x4 |
| 450   | 450                      |  | 450               | 230                  | 220                                | 225                  | 240                  | 8                    | 822     | 134                  | 150                  | 2                         | 28                   | 14                   | 230                  | 150                  | 33                   | 100     | M20                          | 2            | 230x5 |
| 500   | 500                      |  | 500               | 260                  | 245                                | 255                  | 280                  | 8                    | 898     | 147                  | 165                  | 3                         | 32                   | 15                   | 260                  | 170                  | 39                   | 120     | M20                          | 2            | 260x5 |
| 560   | 560                      |  | 560               | 300                  | 285                                | 295                  | 320                  | 8                    | 993     | 158                  | 175                  | 3                         | 32                   | 15                   | 300                  | 200                  | 39                   | 140     | M24                          | 2            | 300x6 |
|   | 630                      |  | 630               | 340                  | 325                                | 335                  | 360                  | 8                    | 1100    | 180                  | 195                  | 3                         | 40                   | 19                   | 340                  | 240                  | 45                   | 160     | M24                          | 2            | 340x6 |
|   | 710                      |  | 710               | 370                  | 355                                | 365                  | 390                  | 8                    | 1220    | 189                  | 205                  | 3                         | 40                   | 19                   | 370                  | 280                  | 45                   | 180     | M30                          | 2            | 370x6 |
|   | 800                      |  | 800               | 410                  | 395                                | 405                  | 430                  | 8                    | 1380    | 206                  | 220                  | 3                         | 50                   | 25                   | 410                  | 320                  | 45                   | 200     | M30                          | 2            | 410x7 |
|   |                          | 280  |                   | 150                  | 140                                | 145                  | 160                  | 6                    | 587     | 78                   | 90                   | 2                         | 23                   | 10                   | 150                  | 110                  | 33                   | 70      | M12                          | 2            | 150x4 |
|   |                          | 320  |                   | 170                  | 160                                | 165                  | 180                  | 6                    | 662     | 96                   | 110                  | 2                         | 23                   | 10                   | 170                  | 120                  | 33                   | 80      | M12                          | 2            | 170x4 |
|   |                          | 380  |                   | 180                  | 170                                | 175                  | 190                  | 6                    | 722     | 101                  | 115                  | 2                         | 23                   | 10                   | 180                  | 120                  | 33                   | 80      | M16                          | 2            | 180x4 |
|   |                          | 400  |                   | 200                  | 190                                | 195                  | 210                  | 6                    | 822     | 113                  | 125                  | 2                         | 23                   | 10                   | 200                  | 130                  | 33                   | 90      | M16                          | 2            | 200x4 |
|   |                          | 450  |                   | 230                  | 220                                | 225                  | 240                  | 8                    | 932     | 134                  | 150                  | 2                         | 28                   | 14                   | 230                  | 150                  | 33                   | 100     | M20                          | 2            | 230x5 |
|   |                          | 500  |                   | 260                  | 245                                | 255                  | 280                  | 8                    | 1028    | 147                  | 165                  | 3                         | 32                   | 15                   | 260                  | 170                  | 39                   | 120     | M20                          | 2            | 260x5 |
| 630   |                          |  |                   | 340                  | 325                                | 335                  | 360                  | 8                    | 1080    | 180                  | 195                  | 3                         | 40                   | 19                   | 340                  | 240                  | 45                   | 160     | M24                          | 2            | 340x6 |
| 710   |                          |  |                   | 370                  | 355                                | 365                  | 390                  | 8                    | 1170    | 189                  | 205                  | 3                         | 40                   | 19                   | 370                  | 280                  | 45                   | 180     | M30                          | 2            | 370x6 |

| REMAS Boş milli redüktör tipleri<br>REMAS shaft mounting gear units<br>Tip<br>Types |                          | Boş mil<br>Hollow shaft |                   |                      |                      |         |                      |                      |                      | Sıkma bileziği<br>Shrink disc |            |         |                      | Çektime<br>cıvatası<br>Screws |                      |                |
|---|--------------------------|-------------------------|-------------------|----------------------|----------------------|---------|----------------------|----------------------|----------------------|-------------------------------|------------|---------|----------------------|-------------------------------|----------------------|----------------|
| S2A<br>S20  | S3A<br>S30<br>S4A<br>S40 | K1A<br>K10              | K2A<br>K20<br>K3A | D <sub>2</sub><br>mm | D <sub>3</sub><br>mm | f<br>mm | G <sub>2</sub><br>mm | G <sub>4</sub><br>mm | l <sub>3</sub><br>mm | l <sub>4</sub><br>mm          | 2008<br>mm | d<br>mm | d <sub>1</sub><br>mm | H<br>mm                       | S <sub>1</sub><br>mm | N <sub>m</sub> |
| 280   | 280                      |                         | 280               | 150                  | 140                  | 2       | 230                  | 335                  | 55                   | 107                           | 195        | 195     | 350                  | 85                            | M 16                 | 240            |
| 320   | 320                      |                         | 320               | 170                  | 160                  | 2       | 250                  | 375                  | 55                   | 125                           | 220        | 220     | 370                  | 104                           | M 16                 | 240            |
| 360   | 360                      |                         | 360               | 180                  | 170                  | 2       | 280                  | 405                  | 65                   | 130                           | 240        | 240     | 405                  | 108                           | M 20                 | 470            |
| 400   | 400                      |                         | 400               | 200                  | 190                  | 2       | 315                  | 450                  | 70                   | 142                           | 260        | 260     | 430                  | 119                           | M 20                 | 470            |
| 450   | 450                      |                         | 450               | 230                  | 220                  | 2       | 345                  | 505                  | 80                   | 170                           | 300        | 300     | 485                  | 140                           | M 20                 | 470            |
| 500   | 500                      |                         | 500               | 260                  | 245                  | 3       | 380                  | 550                  | 90                   | 187                           | 340        | 340     | 570                  | 156                           | M 20                 | 470            |
| 560   | 560                      |                         | 560               | 300                  | 285                  | 3       | 425                  | 600                  | 95                   | 198                           | 380        | 380     | 645                  | 164                           | M 24                 | 820            |
|   | 630                      |                         | 630               | 340                  | 325                  | 3       | 470                  | 670                  | 105                  | 228                           | 420        | 420     | 690                  | 190                           | M 24                 | 820            |
|   | 710                      |                         | 710               | 370                  | 355                  | 3       | 530                  | 730                  | 115                  | 237                           | 460        | 460     | 770                  | 202                           | M 24                 | 820            |
|   | 800                      |                         | 800               | 410                  | 395                  | 3       | 605                  | 825                  | 125                  | 264                           | 500        | 500     | 850                  | 213                           | M 24                 | 820            |
|   |                          | 280                     |                   | 150                  | 140                  | 2       | 255                  | 355                  | 55                   | 107                           | 195        | 195     | 350                  | 85                            | M 16                 | 240            |
|   |                          | 320                     |                   | 170                  | 160                  | 2       | 285                  | 400                  | 55                   | 125                           | 220        | 220     | 370                  | 104                           | M 16                 | 240            |
|   |                          | 380                     |                   | 180                  | 170                  | 2       | 310                  | 435                  | 65                   | 130                           | 240        | 240     | 405                  | 108                           | M 20                 | 470            |
|   |                          | 400                     |                   | 200                  | 190                  | 2       | 355                  | 490                  | 70                   | 142                           | 260        | 260     | 430                  | 119                           | M 20                 | 470            |
|   |                          | 450                     |                   | 230                  | 220                  | 2       | 400                  | 560                  | 80                   | 170                           | 300        | 300     | 485                  | 140                           | M 20                 | 470            |
|   |                          | 500                     |                   | 260                  | 245                  | 3       | 445                  | 615                  | 90                   | 187                           | 340        | 340     | 570                  | 156                           | M 20                 | 470            |
| 630   |                          |                         |                   | 340                  | 325                  | 3       | 460                  | 660                  | 105                  | 228                           | 420        | 420     | 690                  | 190                           | M 24                 | 820            |
| 710   |                          |                         |                   | 370                  | 355                  | 3       | 505                  | 705                  | 115                  | 237                           | 460        | 460     | 770                  | 202                           | M 24                 | 820            |

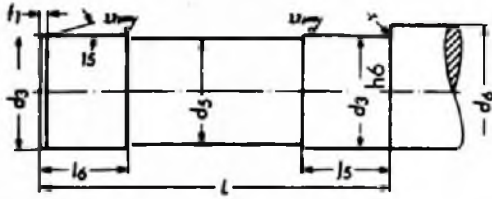


**REMAS delik milli, her iki tarafa sıkma bilezik bağlanabilir redüktörler**  
**Büyüklik 280'den büyükler için**

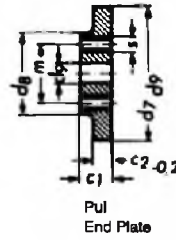
**Fitting of REMAS shaft mounting gear units shrink disc connection**  
**Mounting option on both sides from size 280**



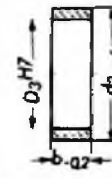
İş makinası tarafı sıkma bilezik bağlantılı mil detayı  
 Driven machine shaft for shrink disc connection



Milini yağ ve gresden arındırılmış olması lazım  
 Machine shaft must be clean, free from oil or grease



Pul End Plate



Bronz Burç Spacer material: red brass



Ay Segman Snap Ring

**Şaft bağlantı ölçüleri - Shaft end fitting dimensions**

| REMAS Delik milli redüktör tipleri<br>REMAS shaft mounting gear units |                          | İş makinası shaftı<br>Shaft of driven machine |                   |                          |       |       |       |       |     |       |       | Çektirme pulu<br>End plate |       |       |       |       |       |     | Segman<br>Circlip<br>DIN472 | Ay<br>Segman<br>Snap<br>ring<br>Size | Burç<br>Spacer |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
|---|--------------------------|---|-------------------|--------------------------|-------|-------|-------|-------|-----|-------|-------|----------------------------|-------|-------|-------|-------|-------|-----|-----------------------------|--------------------------------------|----------------|----|-----|-----|----|----|----|----|----|----|----|----|--|--|--|
| Tip   | Types                    |   |                   |                          |       |       |       |       |     |       |       |                            |       |       |       |       |       |     | Diş<br>ölçüsü<br>Thread     |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
| S2A<br>S2O  | S3A<br>S3O<br>S4A<br>S4O | K1A<br>K1O                                    | K2A<br>K2O<br>K3A | $d_3$                    | $g_6$ | $d_5$ | $d_6$ | $f_1$ | L   | $l_5$ | $l_6$ | r                          | $c_1$ | $c_2$ | $d_7$ | $d_8$ | $d_9$ | m   | s                           | AD.                                  | mm             | mm | mm  | mm  | mm | mm | mm | mm | mm | mm | mm | mm |  |  |  |
| Redüktör büyüklüğü  |                          | Gear unit size                                |                   |                          |       |       |       |       |     |       |       |                            |       |       |       |       |       |     |                             |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
| 280   | 280                      |   | 280               | 140                      | 139   | 160   | 6     | 542   | 110 | 90    | 6     | 23                         | 10    | 150   | 110   | 33    | 70    | M12 | 2                           | 150x4                                | 150x2,5        | 25 | 140 | 150 |    |    |    |    |    |    |    |    |  |  |  |
| 320   | 320                      |   | 320               | 160                      | 159   | 180   | 6     | 602   | 130 | 110   | 6     | 23                         | 10    | 170   | 120   | 33    | 80    | M12 | 2                           | 170x4                                | 170x2,5        | 25 | 160 | 170 |    |    |    |    |    |    |    |    |  |  |  |
| 360   | 360                      |   | 360               | 170                      | 169   | 190   | 6     | 662   | 135 | 115   | 6     | 23                         | 10    | 180   | 120   | 33    | 80    | M16 | 2                           | 180x4                                | 180x2,5        | 30 | 170 | 180 |    |    |    |    |    |    |    |    |  |  |  |
| 400   | 400                      |   | 400               | 190                      | 189   | 210   | 6     | 742   | 145 | 130   | 6     | 23                         | 10    | 200   | 130   | 33    | 90    | M16 | 2                           | 200x4                                | 200x3          | 35 | 190 | 200 |    |    |    |    |    |    |    |    |  |  |  |
| 450   | 450                      |   | 450               | 220                      | 219   | 240   | 8     | 822   | 175 | 160   | 6     | 28                         | 14    | 230   | 150   | 33    | 100   | M20 | 2                           | 230x5                                | 230x3          | 40 | 220 | 230 |    |    |    |    |    |    |    |    |  |  |  |
| 500   | 500                      |   | 500               | 245                      | 244   | 280   | 8     | 898   | 190 | 170   | 10    | 32                         | 15    | 260   | 170   | 39    | 120   | M20 | 2                           | 260x5                                | 260x4          | 45 | 245 | 260 |    |    |    |    |    |    |    |    |  |  |  |
| 560   | 560                      |   | 560               | 285                      | 284   | 320   | 8     | 993   | 200 | 180   | 10    | 32                         | 15    | 300   | 200   | 39    | 140   | M24 | 2                           | 300x5                                | 300x4          | 50 | 285 | 300 |    |    |    |    |    |    |    |    |  |  |  |
|   | 630                      |   | 630               | İsteğe göre - on request |       |       |       |       |     |       |       |                            |       |       |       |       |       |     |                             |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
|   | 710                      |   | 710               | İsteğe göre - on request |       |       |       |       |     |       |       |                            |       |       |       |       |       |     |                             |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
|   | 800                      |   | 800               | İsteğe göre - on request |       |       |       |       |     |       |       |                            |       |       |       |       |       |     |                             |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
|   |                          | 280   |                   | 140                      | 139   | 160   | 6     | 587   | 110 | 90    | 6     | 23                         | 10    | 150   | 110   | 33    | 70    | M12 | 2                           | 150x4                                | 150x2,5        | 25 | 140 | 150 |    |    |    |    |    |    |    |    |  |  |  |
|   |                          | 320   |                   | 160                      | 159   | 180   | 6     | 662   | 130 | 110   | 6     | 23                         | 10    | 170   | 120   | 33    | 80    | M12 | 2                           | 170x4                                | 170x2,5        | 25 | 160 | 170 |    |    |    |    |    |    |    |    |  |  |  |
|   |                          | 360   |                   | 170                      | 169   | 190   | 6     | 722   | 135 | 115   | 6     | 23                         | 10    | 180   | 120   | 33    | 80    | M16 | 2                           | 180x4                                | 180x2,5        | 30 | 170 | 180 |    |    |    |    |    |    |    |    |  |  |  |
|   |                          | 400   |                   | 190                      | 189   | 210   | 6     | 822   | 145 | 130   | 6     | 23                         | 10    | 200   | 130   | 33    | 90    | M16 | 2                           | 200x4                                | 200x3          | 35 | 190 | 200 |    |    |    |    |    |    |    |    |  |  |  |
|   |                          | 450   |                   | 220                      | 219   | 240   | 8     | 932   | 175 | 160   | 6     | 28                         | 14    | 230   | 150   | 33    | 100   | M20 | 2                           | 230x5                                | 230x3          | 40 | 220 | 230 |    |    |    |    |    |    |    |    |  |  |  |
|   |                          | 500   |                   | 245                      | 244   | 280   | 8     | 1028  | 190 | 170   | 10    | 32                         | 15    | 260   | 170   | 39    | 120   | M20 | 2                           | 260x4                                | 260x4          | 45 | 245 | 260 |    |    |    |    |    |    |    |    |  |  |  |
| 630   |                          |   |                   | İsteğe göre - on request |       |       |       |       |     |       |       |                            |       |       |       |       |       |     |                             |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |
| 710   |                          |   |                   | İsteğe göre - on request |       |       |       |       |     |       |       |                            |       |       |       |       |       |     |                             |                                      |                |    |     |     |    |    |    |    |    |    |    |    |  |  |  |

## Yağ Seçim Tablosu

## Lubricant selection table

| Yağ seçim tablosu • Lubricant selection table                                 |   |  |                        |                   |                           |
|---|---|--|------------------------|-------------------|---------------------------|
| Yağlar<br>Lubricants  | Viskosite<br>Viskosity<br>ISO-VG<br>DIN 51 519<br>bei/at 4 °C<br>mm <sup>2</sup> /S | Yağ cinsi örnekleri • Examples of oil grades |                        |                   |                           |
|   |   | PETROL OFİSİ                                 | BP                     | MOBİL OIL         | SHELL                     |
| Mineral<br>esaslı<br>dişli<br>yağları<br><br>Gear oils<br>on mineral<br>basis | VG 460  | GRAVIS<br>MP 460                             | BP Energol<br>GR-XP460 | Mobil gear<br>634 | Shell<br>Omala Oil<br>460 |
|   | VG 320  | GRAVIS<br>MP 320                             | BP Energol<br>GR-XP320 | Mobil gear<br>632 | Shell<br>Omala Oil<br>320 |
|   | VG 220  | GRAVIS<br>MP 220                             | BP Energol<br>GR-XP220 | Mobil gear<br>630 | Shell<br>Omala Oil<br>220 |

\* Redüktörler standart olarak yağsız sevk edilmektedir.

\* Gearboxes delivered without oil as a standard.

\* Yağ dolumunda seviye göstergesi esas alınacaktır.

\* Oil level indicator has to be consider for oil filling

### YASAL UYARILAR

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**NOTLAR:**

**NOTES:**

A series of horizontal dotted lines for taking notes, spanning the width of the page under both the 'NOTLAR:' and 'NOTES:' headings.