

**ZET**  
R e d ü k t ö r



## Sonsuz Vidalı Redüktörler Worm Gearboxes

**S** Serisi  
Series

Gövde Büyüklüğü : 7  
Tork Aralığı : 22 - 710 Nm  
Çıkış Mil Çapı Aralığı : 14 - 42 mm

# Sonsuz Vidalı Redüktörler / Worm Gearboxes

## Tek Parça Alüminyum Alaşımli Gövde

MIL-STD 276 standardına göre üretilmiş gövde için herhangi bir ikincil yüzey işlemine gerek yoktur. Yüzeyler boyanabilir. Hafif gövde yapısı ve yüksek mukavemet birlikte sunulmaktadır. Yüksek hasssiyette işlenmiştir.

### Single-piece aluminum alloy housing

*Is vacuum impregnated (MIL-STD 276) for protection and sealing. No secondary finish required but readily accepts paint. Combines light weight with high tensile strength. Precision machined for alignment of bearings and gearing.*

## Tek parça alaşımli çelik giriş mili ve sonsuz vida çark dişlisi

Yüksek helis açılı sonsuz vida, ısıtım işlem görmüş (58-60 HRC), silindirik ve profil taşlanmıştır. Düşük ses seviyesi ve yüksek verim için çeşitli profil düzeltmeleri yapılmıştır.

### Single piece alloy steel input shaft and worm shaft.

*High helix angle worm is case-hardened (Rc 58-60), ground, teeth are profiled and radiused, for noise reduction and enhanced efficiency.*

## Giriş Mili

Sonsuz vida milinde çok yüklere, dur kalk çalışmaya ve ters yönlü çalışmaya uygun ön gerilmeli rulmanlar, yüksek sıcaklığa dayanıklı NBR keçeler ile birlikte kullanılmıştır.

### Oversized bearings

*Support positively-retained, high speed shaft for higher shock load capacity - ideal for frequent starting and reversing application. Premium, Nitrile® high temperature seals each end.*

## Keçe

Yüksek sıcaklığa dayanıklı NBR keçeler kullanılmaktadır.

### Premium, high temperature

*Nitrile® output seals*

## Çıkış Mili

Tork kollu kullanıma uygun kovan çıkış mili, tek ve çift çıkış mili opsiyonları sunulmaktadır.

### Standard hollow output shaft mounting

*Reduces total drive envelope size, weight and cost. Single and double solid output shaft is available.*

## Yağlama

Redüktörler montaj sonrası -15, +130 derece sıcaklığa dayanıklı sentetik yağlar ile yağlanmaktadır. Havalandırma Tapası kullanımına gerek yoktur.

### Vent Free Design.

*No breather or vents to leak! Factory lubricated for life with synthetic, semi-fluid gear lubricant with an operating range of -15°C to 130°C.*

## Flanş

Tüm giriş flanşları IEC standardına uygundur.

### Flange

*Fully modular to IEC and compact integrated motor. NEMA C flange.*

## Sonsuz Vida Çark Dişlisi

Santrüfjü döküm tekniği ile üretilmiş bronz alaşımli sonsuz vida çarkı maksimum mukavemet için çelik göbek ile birleştirilmiştir.

### Bronze alloy worm gears.

*Is centrifugally cast onto an iron hub for maximum strength and superior life.*

## Rulmanlar

Yüksek radyal ve aksel yük taşıma kapasitesine sahip rulmanlar kullanılmıştır.

### Oversize bearing

*For radial load capability and maximum hollow output shaft diameter.*

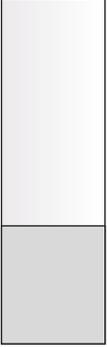
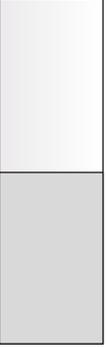


# Sonsuz Vidalı Redüktörler / Worm Gearboxes

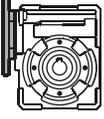
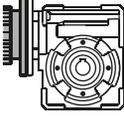
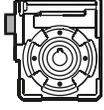
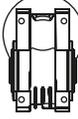
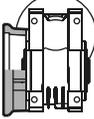
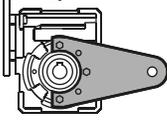
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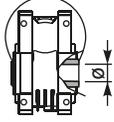
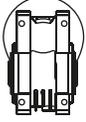
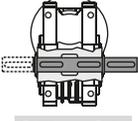
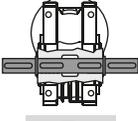
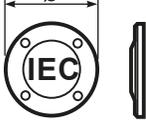
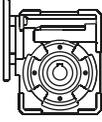
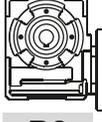
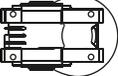
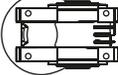
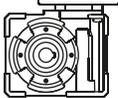
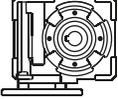
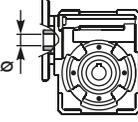
Tip / Types →

12	14	16	18	20	22	24
						
<b>S030</b> 22 Nm	<b>S040</b> 44 Nm	<b>S050</b> 75 Nm	<b>S063</b> 145 Nm	<b>S075</b> 225 Nm	<b>S090</b> 400 Nm	<b>S110</b> 710 Nm

## NASIL SİPARİŞ EDİLİR / HOW TO ORDER

Tip / Type	Gövde Büyüklüğü / Size	Montaj Şekli / Mounting
<b>P</b>	<b>S040</b>	<b>FC</b>
<p>Sonsuz Vidalı Redüktörler Worm gearboxes</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>P</b></p> </div> <div style="text-align: center;">  <p><b>M</b></p> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;"> <div style="text-align: center;">  <p><b>B</b></p> </div> </div>	<p><b>S030</b> <b>S040</b> <b>S050</b> <b>S063</b> <b>S075</b> <b>S090</b> <b>S110</b></p>	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p><b>FB</b></p> </div> <div style="text-align: center;">  <p><b>FR</b> <b>FL</b></p> </div> </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 20px;">  <p><b>BR</b> <b>BL</b></p> </div> <p><b>Motor tarafından bakılarak yön seçilmelidir. Görseller FRve BR'dir.</b></p> <p>Direction must be selected as viewed from the motor end. The images are in FR and BR.</p>

## NASIL SİPARİŞ EDİLİR / HOW TO ORDER

Tahvil Oranı Ratio	Çıkış Mili Hub	Çıkış Mili Konfigürasyonu Output shaft	Motor Büyüklüğü Motor size	Montaj Pozisyonu Mounting position	Düşük Çaplı Giriş Mili Konfigürasyonu Reduced Input bore	Montaj Pozisyonu Mountin position	Terminal Kutusu Pozisyonu Terminal box position
<b>10</b>	<b>C</b>	<b>Ø</b>	<b>-Q</b>	<b>B3</b>	<b>ST</b>	<b>---</b>	
Ölçü tablolarına bakınız See technical data table	 <b>STANDART</b> <b>C</b> S030 ⇔ ø14 S040 ⇔ ø18 S050 ⇔ ø25 S063 ⇔ ø25 S075 ⇔ ø28 S090 ⇔ ø35 S110 ⇔ ø42	 <b>Ø</b>  <b>SR - SL</b>  <b>D</b>	 <b>-M</b> Flanşsız without flange B5 -A=56 (ø120) -B=63 (ø140) -C=71 (ø160) -D=80 (ø200) -E=90 (ø200) -F= $\begin{matrix} 100 \\ 112 \end{matrix}$ (ø250) -G=132 (ø300) B14 -O=56 (ø80) -P=63 (ø90) -Q=71 (ø105) -R=80 (ø120) -T=90 (ø140) -U= $\begin{matrix} 100 \\ 112 \end{matrix}$ (ø160)	 <b>B3</b>  <b>B8</b>  <b>B6</b>  <b>B7</b>  <b>V5</b>  <b>V6</b>	 <b>ST</b> <b>Standart</b> <b>Giriş Mili</b> Standard bore * Kit R standart <b>Redüksiyon Burçsuz</b> <b>Giriş Mili</b> Input bore without Reduction Bushing -O = 9mm -P = 11mm -Q = 14mm -R = 19mm -T = 24mm -U = 28mm -V = 38mm *Uygun olan yerlerde Redüksiyon Burcu ile With reduction bushing where applicable	Yalnızca çift sonsuz vidalı redüktörler için. Ölçü sayfalarına bakınız. Only for combined units See technical data table	 <b>A</b>  <b>B</b> <b>STANDART</b>  <b>C</b>  <b>D</b>

## GEREKLİ FORMÜLLER / USEFUL FORMULAS

### GEREKLİ GÜÇ / REQUIRED POWER

Kaldırma / Lifting

$$P [KW] = \frac{M [Kg] \cdot g [9.81] \cdot v [m / s]}{1000}$$

Döndürme / Rotation

$$P [KW] = \frac{M [Nm] \cdot n [rpm]}{9550}$$

Doğrusal hareket / Linear movement

$$P [KW] = \frac{F [N] \cdot v [m / s]}{1000}$$

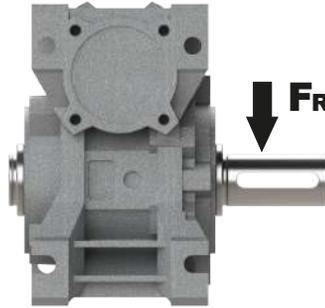
### MOMENT / TORQUE

$$M [Nm] = \frac{9550 \cdot P [KW]}{n [rpm]}$$

$$M [lb in] = \frac{63030 \cdot P [HP]}{n [rpm]}$$

## RADYAL YÜKLER / RADIAL LOADS

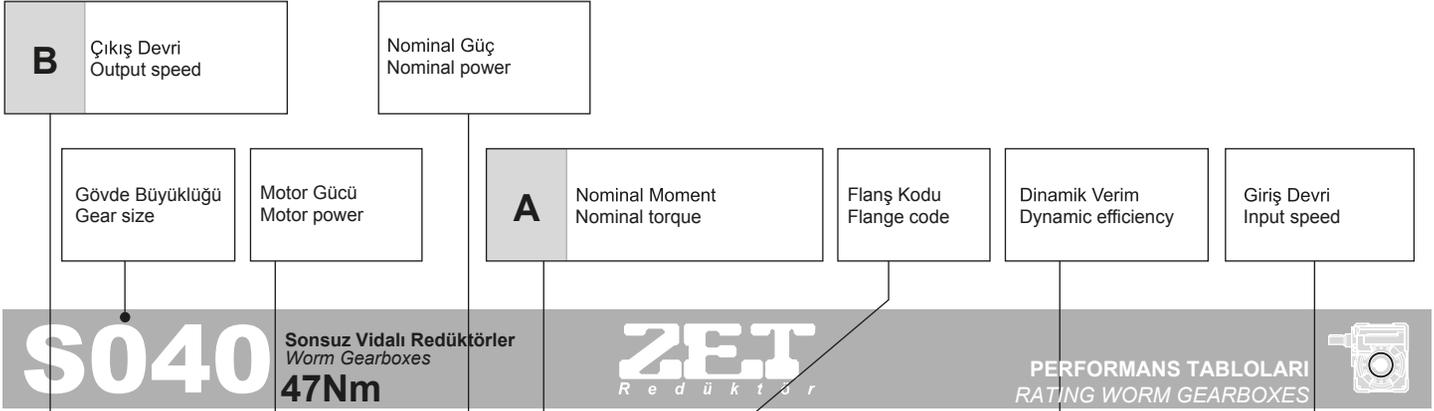
- Radyal yükler giriş ve çıkış milinde harici güç aktarım elemanları tarafından oluşturulur.
- Radial load generated by external transmissions keyed onto input and/or output shafts.



$F_R [N] = \frac{M [Nm] \cdot 2000}{d [mm]} \cdot f_k$		$F_R [N] = \frac{M [lb in] \cdot 8.9}{d [in]} \cdot f_k$	
<b>M</b>	Çıkış momenti / Output torque		
<b>d</b>	Güç aktarım elemanı çapı / Diameter of driving element		
<b>f<sub>k</sub></b>	Düzeltilme katsayısı / Factor 1.15 Dişli / Gearwheels 1.25 Zincir Dişli / Chain sprochets 1.75 V kayış / Narrow v-belt pulley 2.50 Düz kayış / Flat-belt pulley		

- Daha yüksek radyal yükler için teknik ofisimiz ile iletişime geçiniz.
- If your application requires higher radial loads, contact our technical office. Higher load may be possible.

# REDÜKTÖR SEÇİMİ NASIL YAPILIR / HOW TO SELECT A GEARBOX



## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed (n1) = 1400 r.p.m

Çıkış devri Output Speed $n_2$ [r.p.m]	Tahvil Output Speed $i$	Motor gücü Motor Power $P_{1M}$ [kW]	Çıkış momenti Output Torque $M_{2M}$ [Nm]	Servis faktörü Service Factor f.s.	Nominal güç Nominal Power $P_{1R}$ [kW]	Nominal moment Nominal Torque $M_{2R}$ [Nm]	Uygun/Available B5 motor flanşları B5 Motor Flanges		Uygun/Available B14 motor flanşları B14 Motor Flanges			Dinamik verim Dynamic Efficiency RD	Modül Module [mm]	Tahvil kodu Retion Code
							-B	-C	-O	-P	-Q			
200	7	0.37	14	2.2	0.80	30	B		B-C	B-C		80	2.2	01
140	10	0.37	20	1.5	0.57	30	B		B-C	B-C		79	2.2	02
100	14	0.37	27	1.1	0.41	30	B		B-C	B-C		77	2.4	03

C Tahvil Oranı  
Ratio

Modül  
Nominal module

Notlar  
Notes

Çıkış Momenti  
Transmitted torque

Servis Faktörü  
Service factor

fs		Günlük Çalışma Süresi Oper. hours per day		
Yük Sınıfı ve Saatteki Dur-Kalk Sayısı Type of load and starts per hour		<2 sa	2-8 sa	8-16sa
Sürekli yada Aralıklı Çalışmada Dur-Kalk Sayısı / Saat Application with start / stop $\leq 10$	Düzgün Yükleme / Uniform	0.9	1	1.25
	Orta Darbeli Yükleme / Moderate	1	1.25	1.5
	Ağır Yükleme / Heavy	1.25	1.5	1.75
Aralıklı Çalışmada Dur-Kalk Sayısı / Saat Intermittent application with start / hour $> 10$	Düzgün Yükleme / Uniform	1.25	1.5	1.75
	Orta Darbeli Yükleme / Moderate	1.5	1.75	2
	Ağır Yükleme / Heavy	1.75	2	2.25

D Standart motor flanşı  
Motor flange available

B) Burç ile montajı yapılabilir  
Mounting with reduction ring



C) Terminal kutusu flanş pozisyonu  
Motor flangeholes position/terminal box position



B) Burç kullanılmadan montajı yapılabilir  
Available without reduction bushes

A	Servis faktörüne bağlı gerekli moment belirlenir	Select required torque (according to service factor)
B	Gerekli çıkış devri belirlenir	Select output speed
C	Aynı satırda belirlenen redüktörün tahvil oranı görülebilir	On the same line of selected geared motor, you can find the gear ratio
D	Uygun motor flanşı belirlenir (Gerekli olduğu durumlarda)	Select motor flange available (if requested)



Güç Power [kW]	Çıkış Devri Output Speed $n_2$ [r.p.m]	Çıkış Momenti Output Torque $m_2$ [Nm]	Nominal Moment Nominal Torque $m_{2N}$	Tahvil Ratio $i$	Servis Faktörü Service Factor $f_s$	Redüktör Gearbox	Motor Motors	Verim Dynamic Efficiency RD	Ölçü Sayfası Dim Page
0,06 kW	187	3	18	7,5	6,9	S030	56-A4	85	12
	140	3	18	10	5,4			83	
	93	5	18	15	3,8			77	
	70	6	18	20	3,0			73	
	56	7	21	25	3,0			68	
	47	8	20	30	2,5			65	
	35	10	18	40	1,9			59	
	28	11	17	50	1,5			54	
	23	13	17	60	1,3			53	
18	14	13	80	0,9	43				
0,09 kW	28	19	38	50	2,0	S040	56-B4	62	14
	23	21	36	60	1,7			57	
	18	26	34	80	1,3			53	
	14	29	29	100	1,0			47	
	187	4	18	7,5	4,6	S030	56-B4	85	12
	140	5	18	10	3,6			81	
	93	7	18	15	2,5			77	
	70	9	18	20	2,0			73	
	56	10	20	25	2,0			65	
47	12	20	30	1,7	65				
35	14	17	40	1,2	57				
28	17	17	50	1,0	55				
23	19	17	60	0,9	52				
0,12 kW	23	29	67	60	2,3	S050	63-A4	59	16
	18	35	67	80	1,9			53	
	14	40	56	100	1,4			49	
	47	17	45	30	2,6	S040	63-A4	70	14
	35	21	40	40	1,9			64	
	28	25	38	50	1,5			61	
	23	28	36	60	1,3			57	
	18	34	34	80	1,0			52	
	14	38	30	100	0,8	46			
	187	5	18	7,5	3,4	S030	63-A4	85	12
	140	7	18	10	2,7			82	
	93	10	18	15	1,9			77	
70	12	18	20	1,5	73				
56	14	21	25	1,5	68				
47	16	21	30	1,3	65				
35	19	17	40	0,9	58				
28	23	18	50	0,8	56				
0,18 kW	35	32	74	40	2,3	S050	63-B4	65	16
	28	39	74	50	1,9			64	
	23	43	69	60	1,6			58	
	18	52	62	80	1,2			53	
	14	60	54	100	0,9			49	
	70	19	38	20	2,0	S040	63-B4	77	14
	56	23	39	25	1,7			75	
	47	26	44	30	1,7			71	
	35	32	42	40	1,3			65	
	28	38	38	50	1,0			62	
	23	43	34	60	0,8	58			
	187	8	18	7,5	2,3	S030	63-B4	85	12
	140	10	18	10	1,8			81	
	93	14	18	15	1,3			76	
	70	18	18	20	1,0			73	
56	21	21	25	1,0	68				
47	24	19	30	0,8	65				



Güç Power [kW]	Çıkış Devri Output Speed $n_2$ [r.p.m]	Çıkış Momenti Output Torque $m_2$ [Nm]	Nominal Moment Nominal Torque $m_{2N}$	Tahvil Ratio $i$	Servis Faktörü Service Factor $f_s$	Redüktör Gearbox	Motor Motors	Verim Dynamic Efficiency RD	Ölçü Sayfası Dim Page
0,25 kW	28	56	134	50	2,4	S063	71-A4	66	18
	23	63	126	60	2,0			61	
	18	78	125	80	1,6			57	
	14	87	122	100	1,4			51	
	70	26	70	20	2,7	S050	71-A4	76	16
	56	32	70	25	2,2			75	
	47	37	85	30	2,3			72	
	35	46	78	40	1,7			67	
	28	54	76	50	1,4			63	
	23	60	66	60	1,1			59	
	18	72	65	80	0,9			53	
	187	11	40	7,5	3,6			S040	
	140	14	39	10	2,8	82			
	93	21	40	15	1,9	82			
	70	27	41	20	1,5	79			
	56	32	38	25	1,2	75			
47	36	47	30	1,3	70				
35	44	40	40	0,9	65				
28	37	30	50	0,8	43				
0,37 kW	35	70	147	40	2,1	S063	71-B4	69	18
	28	83	133	50	1,6			66	
	23	94	132	60	1,4			62	
	18	115	127	80	1,1			57	
	14	129	116	100	0,9	51	S050	71-B4	16
	140	21	69	10	3,3	83			
	93	31	74	15	2,4	82			
	70	40	72	20	1,8	79			
	56	48	72	25	1,5	76			
	47	55	83	30	1,5	73			
	35	68	75	40	1,1	67			
	28	80	72	50	0,9	63			
	23	89	71	60	0,8	59	S040	71-B4	14
	187	16	38	7,5	2,4	85			
	140	21	40	10	1,9	83			
	93	31	40	15	1,3	82			
70	39	39	20	1,0	77				
56	47	38	25	0,8	74				
47	53	42	30	0,8	70				
0,55 kW	70	60	132	20	2,2	S063			
	56	73	131	25	1,8		78		
	47	83	158	30	1,9		74		
	35	105	147	40	1,4		70		
	28	124	136	50	1,1		66		
	23	140	126	60	0,9		62	S050	80-A4
	187	25	73	7,5	2,9	89			
	140	32	70	10	2,2	85			
	93	46	74	15	1,6	82			
	70	59	71	20	1,2	79			
	56	71	71	25	1,0	76			
	47	81	81	30	1,0	72			
35	80	72	40	0,9	53				



Güç Power [kW]	Çıkış Devri Output Speed $n_2$ [r.p.m]	Çıkış Momenti Output Torque $m_2$ [Nm]	Nominal Moment Nominal Torque $m_{2N}$	Tahvil Ratio $i$	Servis Faktörü Service Factor $f_s$	Redüktör Gearbox	Motor Motors	Verim Dynamic Efficiency RD	Ölçü Sayfası Dim Page
0,75 kW	28	184	331	50	1,8	S090	80-B4	72	22
	23	212	318	60	1,5				
	18	258	284	80	1,1				
	14	302	272	100	0,9				
	56	102	204	25	2,0	S075	80-B4	80	20
	47	117	234	30	2,0				
	35	147	221	40	1,5				
	28	177	212	50	1,2				
	23	200	200	60	1,0	S063	80-B4	65	18
	93	63	139	15	2,2				
	70	83	133	20	1,6				
	56	100	130	25	1,3				
	47	114	160	30	1,4	S050	80-B4	74	16
	35	143	143	40	1,0				
	187	34	71	7,5	2,1				
	140	44	70	10	1,6				
93	63	76	15	1,2			82		
70	81	73	20	0,9			79		
1,1 kW	28	281	646	50	2,3	S110	90-S4	75	24
	23	324	616	60	1,9				
	18	402	523	80	1,3				
	14	473	473	100	1,0				
	35	225	360	40	1,6	S090	90-S4	75	22
	28	270	351	50	1,3				
	23	311	311	60	1,0				
	18	328	295	80	0,9				
	93	95	200	15	2,1	S075	90-S4	84	20
	70	123	209	20	1,7				
	56	150	195	25	1,3				
	47	171	222	30	1,3				
	35	216	216	40	1,0	S063	90-S4	72	18
	28	264	238	50	0,9				
	23	223	178	60	0,8				
	187	49	127	7,5	2,6				
140	65	130	10	2,0			87		
93	93	140	15	1,5			83		
70	122	134	20	1,1			81		
56	146	131	25	0,9			78		
47	167	167	30	1,0			74		
35	165	149	40	0,9			55		
1,5 kW	35	319	702	40	2,2	S110	90-L4	78	24
	28	384	653	50	1,7				
	23	442	619	60	1,4				
	18	548	493	80	0,9				
	70	171	359	20	2,1	S090	90-L4	84	22
	56	210	336	25	1,6				
	47	239	406	30	1,7				
	35	307	368	40	1,2				
	28	368	331	50	0,9	S075	90-L4	72	20
	23	424	339	60	0,8				
	140	90	198	10	2,2				
	93	130	195	15	1,5				
	70	168	218	20	1,3	S063	90-L4	82	18
	56	205	205	25	1,0				
	47	233	233	30	1,0				
	187	67	127	7,5	1,9				
140	89	134	10	1,5			87		
93	127	140	15	1,1			83		
70	166	133	20	0,8			81		



Güç Power [kW]	Çıkış Devri Output Speed $n_2$ [r.p.m]	Çıkış Momenti Output Torque $m_2$ [Nm]	Nominal Moment Nominal Torque $m_{2N}$	Tahvil Ratio $i$	Servis Faktörü Service Factor $f_s$	Redüktör Gearbox	Motor Motors	Verim Dynamic Efficiency RD	Ölçü Sayfası Dim Page
2,2 kW	70	255	638	20	2,5	S110	100-LA4	85	24
	56	315	693	25	2,2			84	
	47	356	712	30	2,0			79	
	35	468	702	40	1,5			78	
	28	563	676	50	1,2			75	
	23	648	648	60	1,0			72	
	187	101	293	7,5	2,9	S090	100-LA4	90	22
	140	134	308	10	2,3			89	
	93	194	369	15	1,9			86	
	70	252	353	20	1,4			84	
	56	308	339	25	1,1			82	
	47	351	421	30	1,2			78	
	35	433	433	40	1,0	72			
	28	393	354	50	0,9	52			
	187	100	180	7,5	1,8	S075	100-LA4	89	20
	140	132	198	10	1,5			88	
	93	191	191	15	1,0			85	
	70	240	216	20	0,9			80	
47	269	215	30	0,8	60				
35	308	215	40	0,8	60				
3 kW	93	264	660	15	2,5	S110	100-LB4	86	24
	70	348	661	20	1,9			85	
	56	430	688	25	1,6			84	
	47	485	728	30	1,5			79	
	35	638	702	40	1,1			78	
	28	767	690	50	0,9			75	
	187	138	290	7,5	2,1	S090	100-LB4	90	22
	140	182	309	10	1,7			89	
	93	264	370	15	1,4			86	
	70	344	344	20	1,0			84	
	56	420	336	25	0,8			82	
	47	479	431	30	0,9			78	
187	136	190	7,5	1,4	S075	100-LB4	89	20	
140	180	198	10	1,1			88		
93	261	209	15	0,8			85		
4 kW	140	242	605	10	2,5	S110	112-M4	89	24
	93	352	669	15	1,9			86	
	70	464	650	20	1,4			85	
	56	573	688	25	1,2			84	
	47	647	712	30	1,1			79	
	35	767	690	40	0,9			75	
	187	184	294	7,5	1,6	S090	112-M4	90	22
	140	243	316	10	1,3			89	
	93	352	352	15	1,0			86	
	70	458	366	20	0,8			84	
	56	573	366	25	0,8			82	
	47	647	431	30	0,9			78	
187	182	182	7,5	1,0	S075	112-M4	89	20	
140	240	192	10	0,8			88		
5,5 kW	187	253	557	7,5	2,2	S110	132-S4	90	24
	140	334	601	10	1,8			89	
	93	484	678	15	1,4			86	
	70	638	638	20	1,0			85	
	56	711	640	25	0,9			76	
7,5 kW	187	345	552	7,5	1,6	S110	132-MA4	90	24
	140	455	592	10	1,3			89	
	93	660	660	15	1,0			86	



## ■ HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flanşları B5 motor flanges		Uygun / Available B14 motor flanşları B14 motor flanges		Dinamik verim Dynamic efficiency RD	Tahvil kodu Ration code
							-A	-B	-O	-P		
							56	63	56	63		
187	7,5	0,18	7,8	2,3	0,35	18	B		B		85	1
140	10	0,18	10	1,8	0,26	18	B		B		81	2
93	15	0,18	14	1,3	0,18	18	B		B		76	3
70	20	0,18	18	1	0,13	18	B		B		73	4
56	25	0,18	21	1	0,12	21	B		B		68	5
47	30	0,12	16	1,3	0,10	21	B		B		65	6
35	40	0,12	19	0,9	0,06	17	B		B		58	7
28	50	0,09	17	1	0,05	17	B		B		55	8
23	60	0,06	13	1,3	0,04	17	B		B		53	9
18	80	0,06	14	0,9	0,02	13	B		B		43	10

■ Uygun Motor Flanşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR** S030 Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.

Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve eksenel yükler tanımlanmıştır.

**EN** Unit S030 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.

See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

■ YAĞLAMA S030 YAĞ MİKTARI 0.04Lt.  
■ LUBRICATION S030 Oil Quantity 0.04Lt.

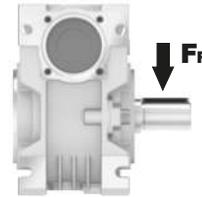
Sentetik 320

Tablo 1

Daha fazla ayrıntı için internet sitemizi inceleyiniz.  
For all details on lubrication and plugs check our website

## ■ RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft

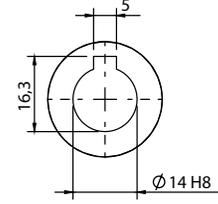
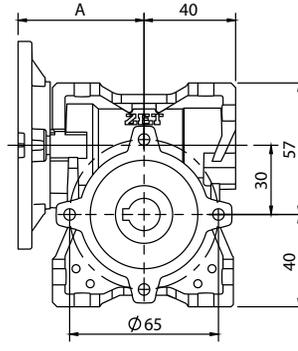
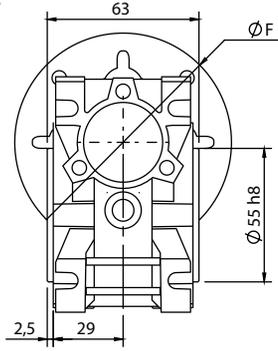


$n_2$ [r.p.m]	FR [N]
187	680
140	750
93	860
70	940
56	1020
47	1080
35	1190
28	1280
23	1360
18	1500

Tablo 2

**S030FB...** Standart Redüktör  
Basic wormbox

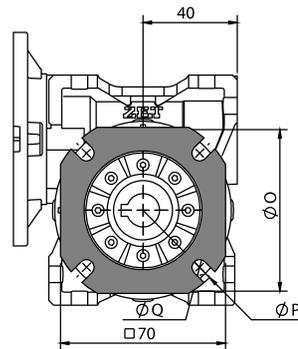
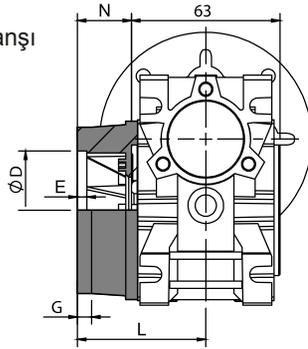
M. Flanşlar	ØF	A
56B5	120	55
63B5	140	55
56B14	80	55
63B14	90	55



Standart Kovan Mil  
Hallow Shaft

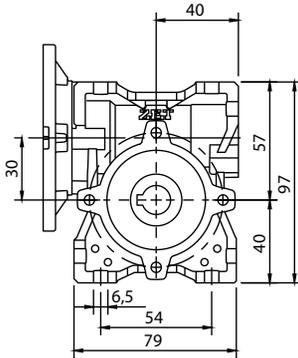
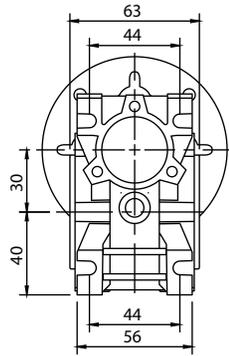
Ağırlık  
Gearbox  
weight **1.2 kg**

**S030FC...** Kare Çıkış Flanşı  
Square Flange

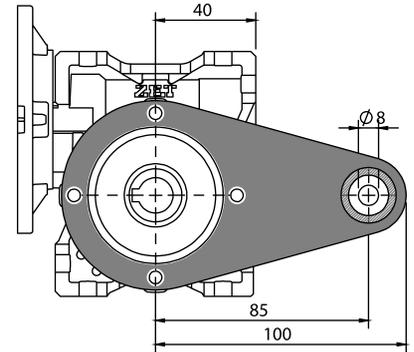
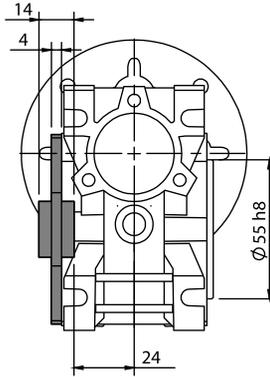


	ØD	E	G	L	N	ØO	ØP	ØQ
FC	50 H8	4	7	54,5	23	68	80	6,5

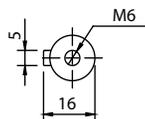
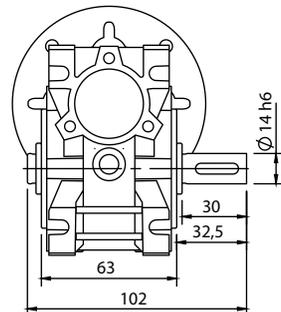
**S030FB...** Ayak  
Feet



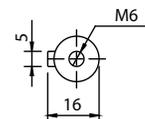
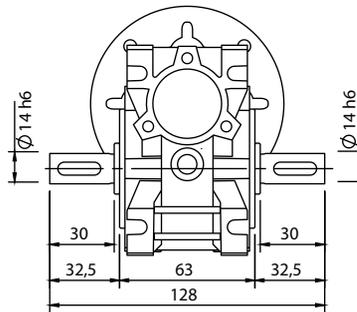
**S030BR...** Tork Kolu  
Reaction Arm



**S030...S...** Tek Çıkış Mili  
Single Shaft



**S030...D...** Çift Çıkış Mili  
Double Shaft





## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flaşları B5 motor flanges			Uygun / Available B14 motor flaşları B14 motor flanges			Dinamik verim Dynamic efficiency RD	Tahvil kodu Ration code
							-A	-B	-C	-O	-P	-Q		
							56	63	71	56	63	71		
187	7,5	0,37	16,0	2,4	0,75	38	B	B		B	B		85	1
140	10	0,37	21	1,9	0,58	40	B	B		B	B		83	2
93	15	0,37	31	1,3	0,39	40	B	B		B	B		82	3
70	20	0,37	39	1	0,29	39	B	B		B	B		77	4
56	25	0,25	32	1,2	0,23	38	B	B		B	B		75	5
47	30	0,25	36	1,3	0,23	47	B	B		B	B		70	6
35	40	0,25	44	0,9	0,15	40	B	B		B	B		65	7
28	50	0,18	38	1	0,11	38	B	B		B	B		62	8
23	60	0,12	28	1,3	0,09	36	B	B		B	B		57	9
18	80	0,12	34	1	0,06	34	B	B		B	B		52	10
14	100	0,09	29	1	0,04	29	B	B		B	B		47	11

Uygun Motor Flaşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR S040** Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.  
Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve aksel yükler tanımlanmıştır.

**EN** Unit **S040** is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.  
See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

**YAĞLAMA S040 YAĞ MİKTARI 0.08Lt.**  
**LUBRICATION S040 Oil Quantity 0.08Lt.**

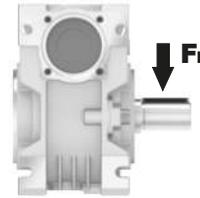
Sentetik 320

Tablo 1

Daha fazla ayrıntı için internet sitemizi inceleyiniz.  
For all details on lubrication and plugs check our website

## RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft

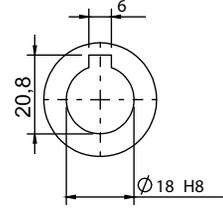
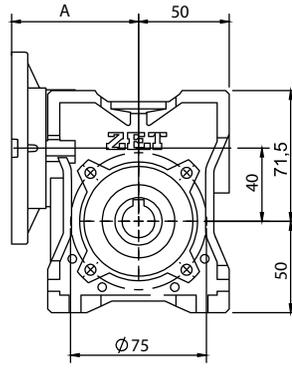
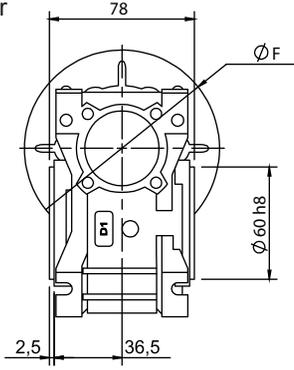


$n_2$ [r.p.m]	FR [N]
187	1310
140	1440
93	1650
70	1820
56	1960
47	2080
35	2290
28	2470
23	2630
18	2890
14	3110

Tablo 2

**S040FB...** Standart Redüktör  
Basic wormbox

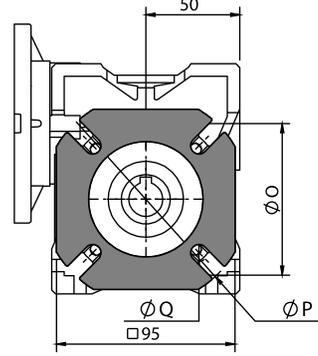
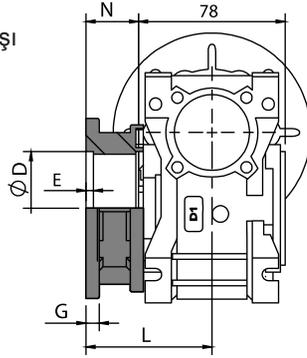
M. Flanşları	ØF	A
56B5	120	71
63B5	140	70.5
71B5	160	70
56B14	80	71
63B14	90	70
71B14	105	70



Standart Kovan Mil  
Hallow Shaft

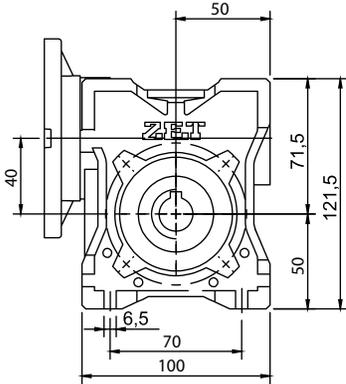
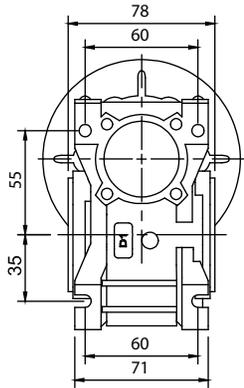
Ağırlık  
Gearbox  
weight **2.3 kg**

**S040FC...** Kare Çıkış Flanşı  
Square Flange

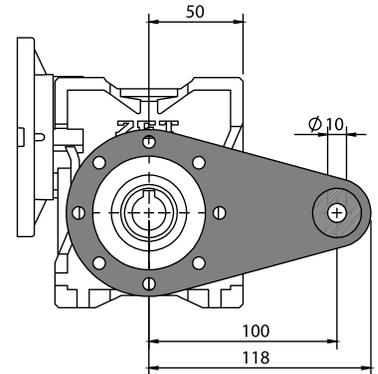
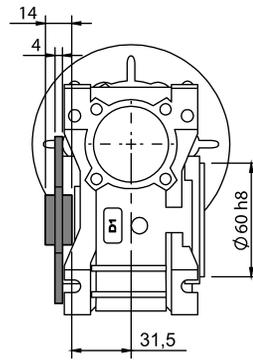


	ØD	E	G	L	N	ØO	ØP	ØQ
FC	60 H8	4	7	67	28	80	110	9

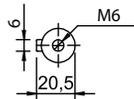
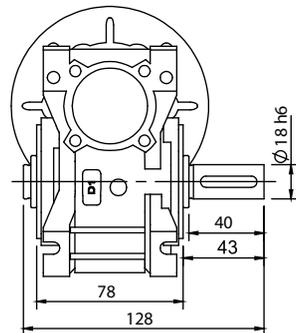
**S040FB...** Ayak  
Feet



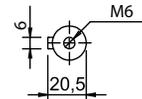
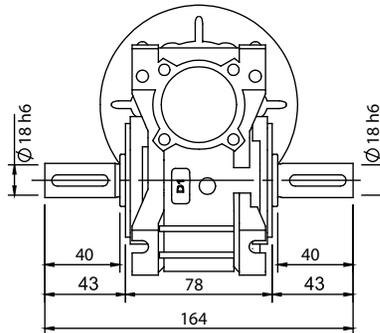
**S040BR...** Tork Kolu  
Reaction Arm



**S040...S...** Tek Çıkış Mili  
Single Shaft



**S040...D...** Çift Çıkış Mili  
Double Shaft





## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flanşları B5 motor flanges			Uygun / Available B14 motor flanşları B14 motor flanges			Dinamik verim Dynamic efficiency RD	Tahvil kodu Ration code
							-B	-C	-D	-P	-Q	-R		
							63	71	80	63	71	80		
187	7,5	0,75	34,0	2,1	1,40	71	B	B		B	B		89	1
140	10	0,75	44	1,6	1,03	70	B	B		B	B		86	2
93	15	0,75	63	1,2	0,74	76	B	B		B	B		82	3
70	20	0,75	81	0,9	0,53	73	B	B		B	B		79	4
56	25	0,55	71	1	0,42	71	B	B		B	B		76	5
47	30	0,55	81	1	0,40	81	B	B		B	B		72	6
35	40	0,37	68	1,1	0,27	75	B	B		B	B		67	7
28	50	0,37	80	0,9	0,21	72	B	B		B	B		63	8
23	60	0,25	60	1,1	0,16	66	B	B		B	B		59	9
18	80	0,25	72	0,9	0,12	65	B	B		B	B		53	10
14	100	0,18	60	0,9	0,08	54	B	B		B	B		49	11

Uygun Motor Flanşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR** S050 Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.  
Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve aksel yükler tanımlanmıştır.

**EN** Unit S050 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.  
See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

YAĞLAMA S050 YAĞ MİKTARI 0.15Lt.  
LUBRICATION S050 Oil Quantity 0.15Lt.

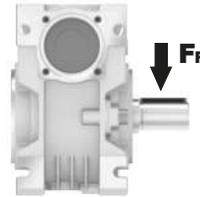
Sentetik 320

Tablo 1

Daha fazla ayrıntı için internet sitemizi inceleyiniz.  
For all details on lubrication and plugs check our website

## RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft

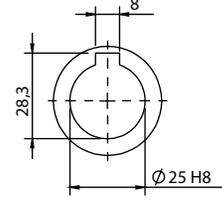
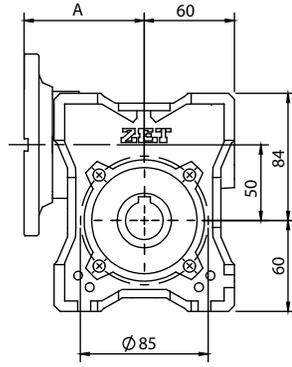
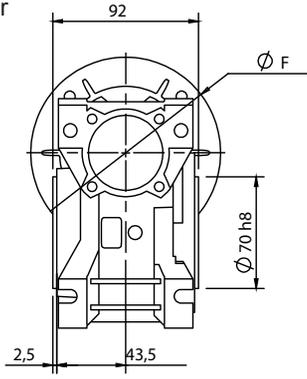


$n_2$ [r.p.m]	FR [N]
187	1800
140	1980
93	2270
70	2500
56	2690
47	2860
35	3150
28	3390
23	3610
18	3970
14	4280

Tablo 2

**S050FB...** Standart Redüktör  
Basic wormbox

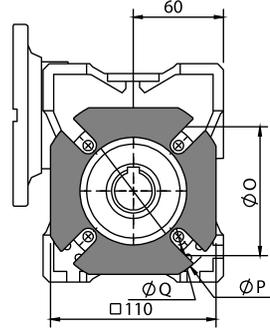
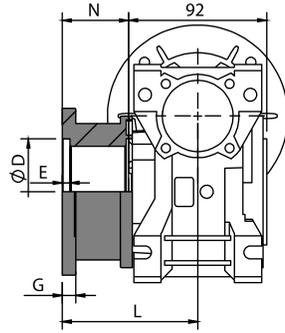
M. Flanşları	ØF	A
63B5	140	80.5
71B5	160	80
80B5	200	82
63B14	90	80
71B14	105	80
80B14	120	80



Standart Kovan Mil  
Hallow Shaft

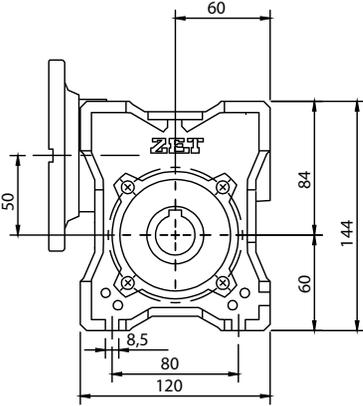
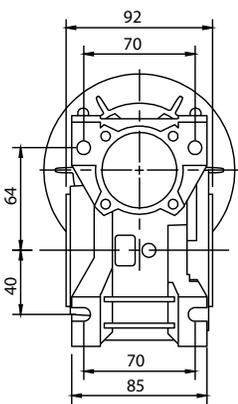
Ağırlık  
Gearbox  
weight **2.3 kg**

**S050FC...** Kare Çıkış Flanşı  
Square Flange

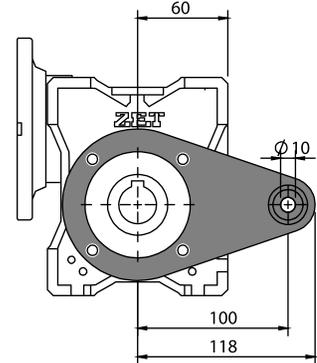
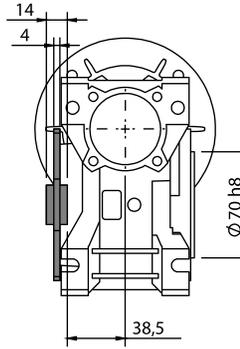


	ØD	E	G	L	N	ØO	ØP	ØQ
FC	70 H8	5	9	90	44	85	125	11

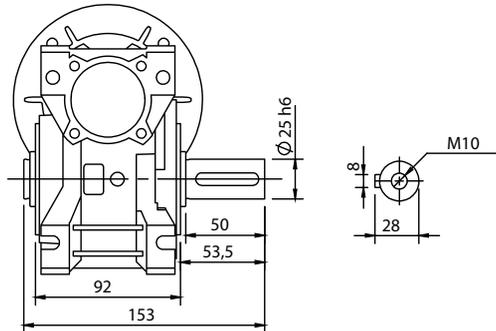
**S050FB...** Ayak  
Feet



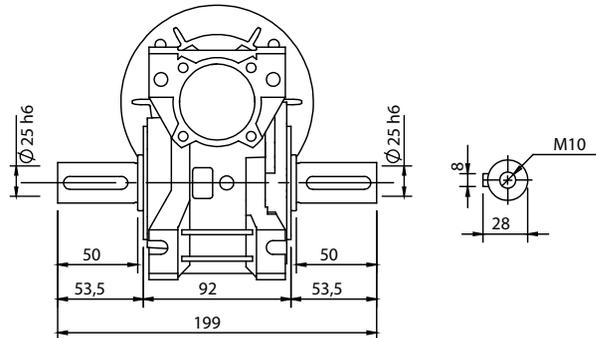
**S050BR...** Tork Kolu  
Reaction Arm



**S050...S...** Tek Çıkış Mili  
Single Shaft



**S050...D...** Çift Çıkış Mili  
Double Shaft





## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flanşları B5 motor flanges			Uygun / Available B14 motor flanşları B14 motor flanges			Dinamik verim Dynamic efficiency RD	Tahvil kodu Ration code
							-C	-D	-E	-Q	-R	-T		
							71	80	90	71	80	90		
187	7,5	1,5	67,0	1,9	2,49	127	B	B		B	B		87	1
140	10	1,5	89	1,5	1,96	134	B	B		B	B		87	2
93	15	1,5	127	1,1	1,37	140	B	B		B	B		83	3
70	20	1,1	122	1,1	0,98	134	B	B		B	B		81	4
56	25	1,1	146	0,9	0,77	131	B	B		B	B		78	5
47	30	1,1	167	1	0,82	167	B	B		B	B		74	6
35	40	1,1	165	0,9	0,54	149	B	B		B	B		55	7
28	50	0,55	124	1,1	0,40	136	B	B		B	B		66	8
23	60	0,55	140	0,9	0,31	126	B	B		B	B		62	9
18	80	0,37	115	1,1	0,23	127	B			B			57	10
14	100	0,37	129	0,9	0,17	116,1	B			B			51	11

Uygun Motor Flanşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR** S063 Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.

Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve eksenel yükler tanımlanmıştır.

**EN** Unit S063 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.

See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

YAĞLAMA S063 YAĞ MİKTARI 0.03Lt.  
LUBRICATION S063 Oil Quantity 0.03Lt.

Sentetik 320

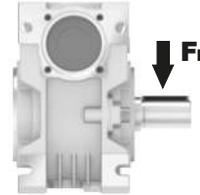
Tablo 1

Daha fazla ayrıntı için internet sitemizi inceleyiniz.

For all details on lubrication and plugs check our website

## RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft



$n_2$ [r.p.m]	FR [N]
187	2350
140	2590
93	2970
70	3270
56	3520
47	3740
35	3590
28	4440
23	4710
18	5190
14	5590

Tablo 2





## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flanşları B5 motor flanges			Uygun / Available B14 motor flanşları B14 motor flanges			Dinamik verim Dynamic efficiency RD	Tahvil kodu Ration code
							-D	-E	-F	-R	-T	-U		
							80	90	100 112	80	90	100 112		
187	7,5	4	182,0	1	3,56	182	B	B		B	B		89	1
140	10	4	240	0,8	2,81	192	B	B		B	B		88	2
93	15	3	261	0,8	2,04	209	B	B		B	B		85	3
70	20	2,2	240	0,9	1,58	216	B	B		B	B		80	4
56	25	2,2	269	0,8	1,26	215	B	B		B	B		72	5
47	30	1,5	233	1	1,14	233	B	B		B	B		76	6
35	40	1,1	216	1	0,79	216	B	B		B	B		72	7
28	50	1,1	264	0,9	0,70	238	B			B			70	8
23	60	0,75	200	1	0,49	200	B			B			65	9
18	80	0,55	165	0,9	0,27	149	B			B			55	10
14	100	0,55	155	0,8	0,18	124	B			B			41	11

Uygun Motor Flanşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR** S075 Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.  
Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve aksel yükler tanımlanmıştır.

**EN** Unit S075 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.  
See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

YAĞLAMA S075 YAĞ MİKTARI 0.55Lt.  
LUBRICATION S075 Oil Quantity 0.55Lt.

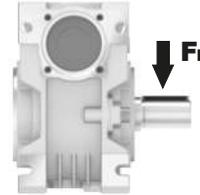
Sentetik 320

Tablo 1

Daha fazla ayrıntı için internet sitemizi inceleyiniz.  
For all details on lubrication and plugs check our website

## RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft

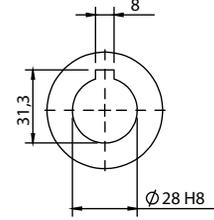
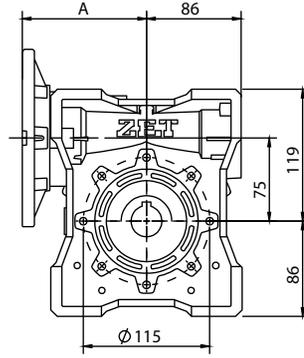
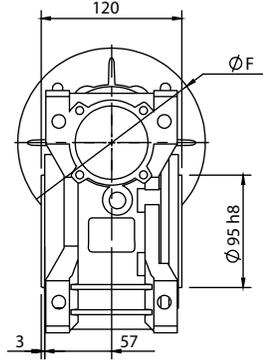


$n_2$ [r.p.m]	FR [N]
187	2780
140	3060
93	3500
70	3860
56	4160
47	4420
35	4860
28	4600
23	4890
18	4800
14	4900

Tablo 2

**S075FB...** Standart Redüktör  
Basic wormbox

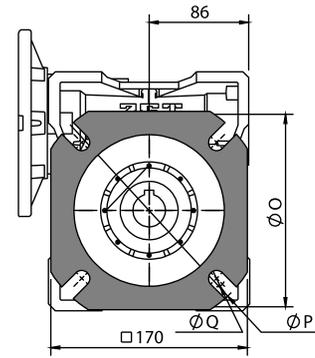
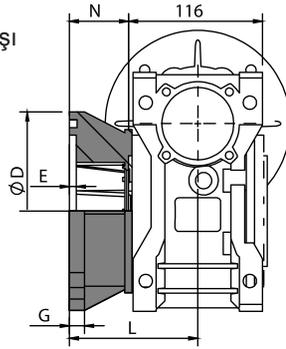
M. Flanşları	ØF	A
80B5/90B5	200	113
100/112B5	250	113
80B14	120	113
90B14	140	113
100/112B14	160	113



Standart Kovan Mil  
Hallow Shaft

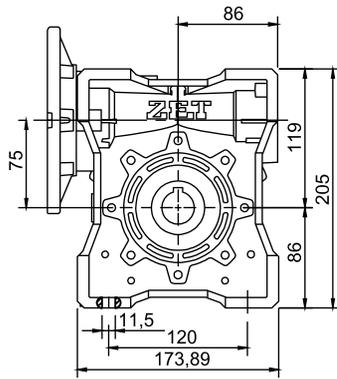
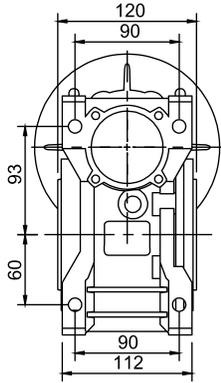
Ağırlık  
Gearbox  
weight **9 kg**

**S075FC...** Kare Çıkış Flanşı  
Square Flange

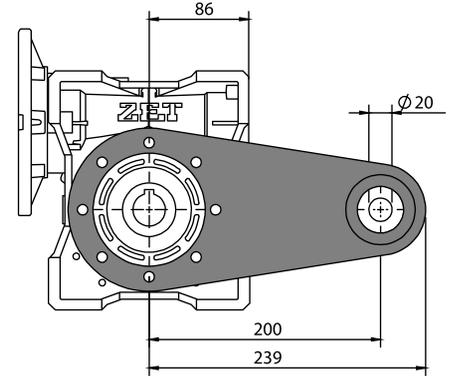
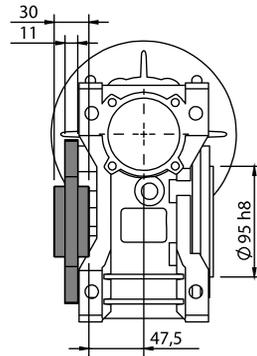


	ØD	E	G	L	N	ØO	ØP	ØQ
FC	130 H8	6	13	111	51	165	200	14

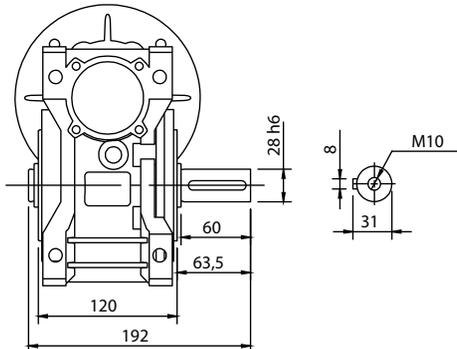
**S075FB...** Ayak  
Feet



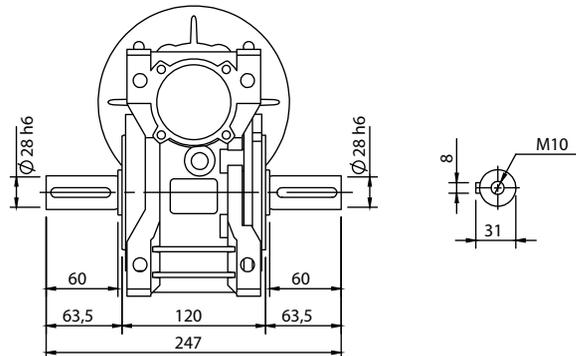
**S075BR...** Tork Kolu  
Reaction Arm



**S075...S...** Tek Çıkış Mil  
Single Shaft



**S075...D...** Çift Çıkış Mil  
Double Shaft





## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flanşları B5 motor flanges			Uygun / Available B14 motor flanşları B14 motor flanges			Dinamik verim Dynamic efficiency  RD	Tahvil kodu Ration code
							-D	-E	-F	-R	-T	-U		
							80	90	100 112	80	90	100 112		
187	7,5	4	184,0	1,6	5,75	294	B	B		B	B		90	1
140	10	4	243	1,3	4,63	316	B	B		B	B		89	2
93	15	4	352	1	3,44	352	B	B		B	B		86	3
70	20	3	344	1	2,52	344	B	B		B	B		84	4
56	25	3	420	0,8	1,97	336	B	B		B	B		82	5
47	30	3	479	0,9	2,11	431	B	B		B	B		78	6
35	40	2,2	433	1	1,59	433	B	B		B	B		72	7
28	50	2,2	393	0,9	1,04	354	B	B		B	B		52	8
23	60	1,5	424	0,8	0,83	339	B	B		B	B		69	9
18	80	1,1	328	0,9	0,54	295	B			B			55	10
14	100	0,75	302	0,9	0,40	271,8	B			B			59	11

Uygun Motor Flanşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR** S090 Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.

Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve eksenel yükler tanımlanmıştır.

**EN** Unit S090 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.

See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

YAĞLAMA S090 YAĞ MİKTARI 1LT.  
LUBRICATION S090 Oil Quantity 1Lt.

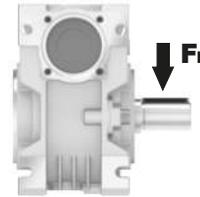
Sentetik 320

Tablo 1

Daha fazla ayrıntı için internet sitemizi inceleyiniz.  
For all details on lubrication and plugs check our website

## RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft

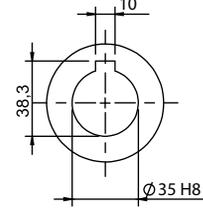
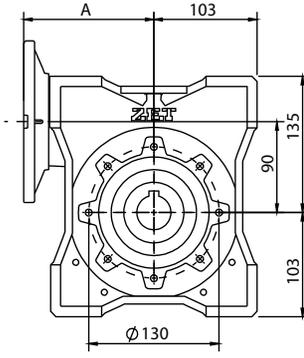
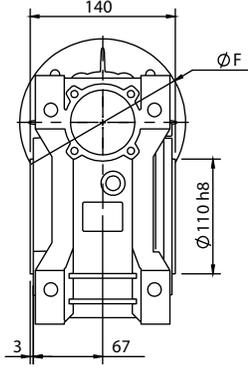


$n_2$ [r.p.m]	FR [N]
187	3080
140	3390
93	3880
70	4270
56	4600
47	4890
35	5380
28	5790
23	6160
18	6170
14	7300

Tablo 2

**S090FB...** Standart Redüktör  
Basic wormbox

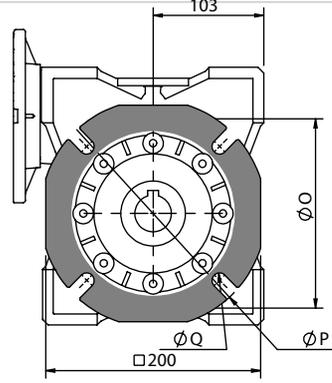
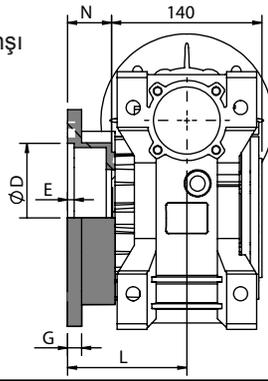
M. Flanşları	ØF	A
80B5/90B5	200	113
100/112B5	250	113
80B14	120	113
90B14	140	113
100/112B14	160	113



Standart Kovan Mil  
Hallow Shaft

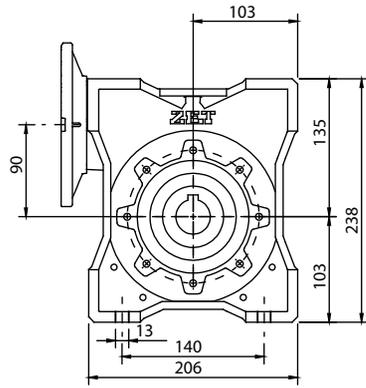
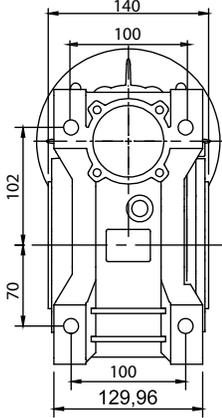
Ağırlık  
Gearbox  
weight **13 kg**

**S090FC...** Kare Çıkış Flanşı  
Square Flange

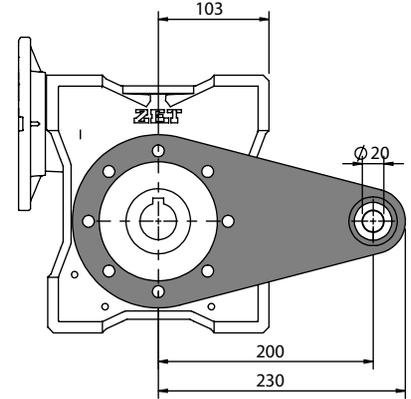
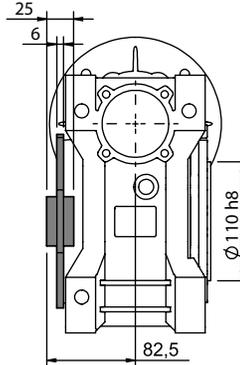


	ØD	E	G	L	N	ØO	ØP	ØQ
FC	152 H8	6	13	111	41	175	210	14

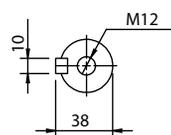
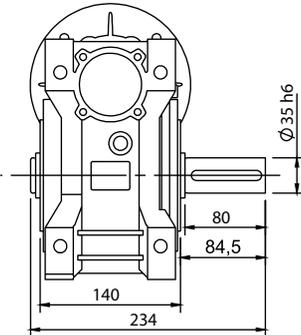
**S090FB...** Ayak  
Feet



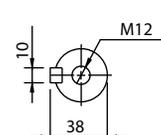
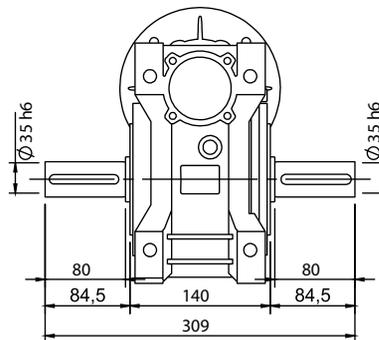
**S090BR...** Tork Kolu  
Reaction Arm



**S090...S...** Tek Çıkış Mili  
Single Shaft



**S090...D...** Çift Çıkış Mili  
Double Shaft





## HIZLI SEÇİM / Quick Selection

Giriş Devri / Input Speed ( $n_1$ ) = 1400 r.p.m

Çıkış Devri Output Speed $n_2$ [r.p.m]	Tahvil Ratio $i$	Motor gücü Motor power $P_{1M}$ [kW]	Çıkış Momenti Output torque $M_{2M}$ [Nm]	Servis Faktörü Service Factor f.s.	Nominal Güç Nominal power $P_{1R}$ [kW]	Nominal Moment Nominal torque $M_{2R}$ [Nm]	Uygun / Available B5 motor Flanşları B5 motor flanges			Uygun / Available B14 motor flanşları B14 motor flanges		Dinamik verim Dynamic efficiency RD	Tahvil kodu Ration code
							-E	-F	-G	-T	-U		
							90	100 112	132	90	100 112		
187	7,5	7,5	345,0	1,6	10,79	552	B	B		B	B	90	1
140	10	7,5	455	1,3	8,67	592	B	B		B	B	89	2
93	15	7,5	660	1	6,45	660	B	B		B	B	86	3
70	20	5,5	638	1	4,68	638	B	B		B	B	85	4
56	25	5,5	711	0,9	3,75	640	B	B		B	B	76	5
47	30	4	647	1,1	3,48	712	B	B		B	B	79	6
35	40	3	638	1,1	2,57	702	B	B		B	B	78	7
28	50	3	767	0,9	2,02	690	B	B		B	B	75	8
23	60	2,2	648	1	1,58	648	B	B		B	B	72	9
18	80	1,5	548	0,9	0,90	493	B			B		67	10
14	100	1,1	473	1	0,69	473	B			B		63	11

Uygun Motor Flanşları / Motor Flanges Available

\* Tablolarda verilen değerlerin üzerindeki motor güçleri için seçimleri  $M_{2R}$  değerini referans alarak yapınız.  
Power higher than the maximum one which can be supported by the gearbox. Select according to the torque  $M_{2R}$

**TR** S110 Kare Gövde Sonsuz Vidalı Redüktörler ömürlük sentetik yağ ile yağlanmıştır. V5-V6 montaj pozisyonları için bizimle iletişime geçiniz.  
Tablo 1'de uygun yağ seçenekleri ve yağ miktarları tanımlanmıştır. Tablo 2'de izin verilebilir radyal ve aksel yükler tanımlanmıştır.

**EN** Unit S110 is supplied with synthetic oil, providing "long life" lubrication. For mounting position V5-V6 please contact us.  
See table 1 for lubrication and recommended quantity. In table 2 please see possible radial loads and axial loads on the gearbox.

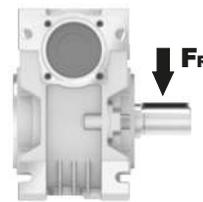
Standart	Diğer montaj pozisyonlarını siparişte belirtiniz veya uygun miktarda yağ ekleyiniz. For these mounting position specify in the order or add oil				
B3	B6	B7	B8	V5	V6
3 LT	2,5 LT	2,5 LT	2,2 LT	3 LT	2,2 LT
Mineral 460					

Daha fazla ayrıntı için internet sitemizi inceleyiniz.  
For all details on lubrication and plugs check our website

Tablo 1

## RADYAL VE EKSENEL YÜKLER / RADIAL AND AXIAL LOADS

Çıkış Mili  
Output shaft

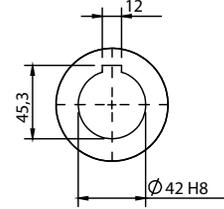
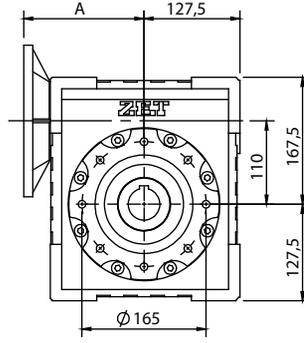
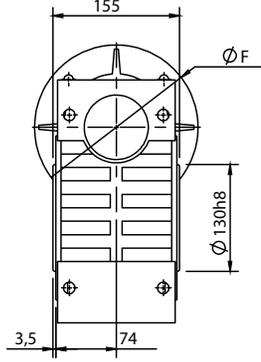


$n_2$ [r.p.m]	FR [N]
187	3890
140	4280
93	4900
70	5390
56	5810
47	6180
35	6800
28	7320
23	7780
18	8570
14	9230

Tablo 2

**S110FB...** Standart Redüktör  
Basic wormbox

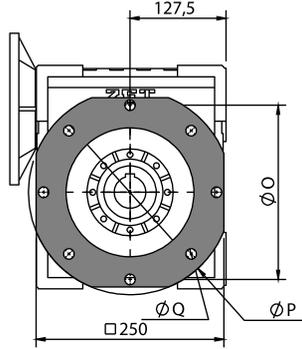
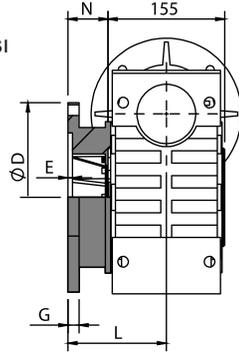
M. Flanşları	ØF	A
90B5	200	160
100/112B5	250	160
132B5	300	160
90B14	140	160
100/112B14	160	160



Standart Kovan Mil  
Hallow Shaft

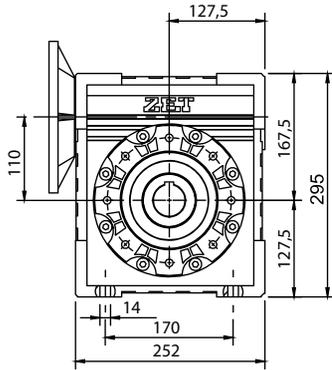
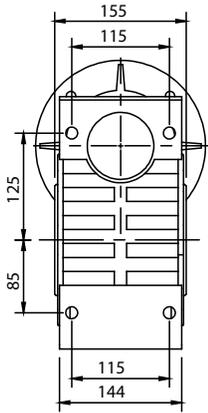
Ağırlık  
Gearbox  
weight **35 kg**

**S110FC...** Kare Çıkış Flanşı  
Square Flange

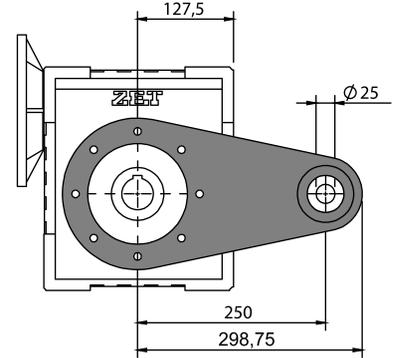
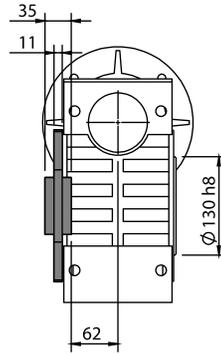


	ØD	E	G	L	N	ØO	ØP	ØQ
FC	170 H8	6	15	131	53,5	230	270	14

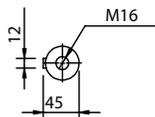
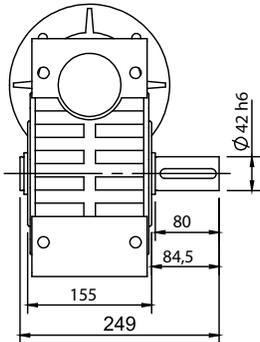
**S110FB...** Ayak  
Feet



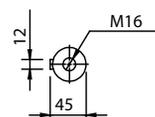
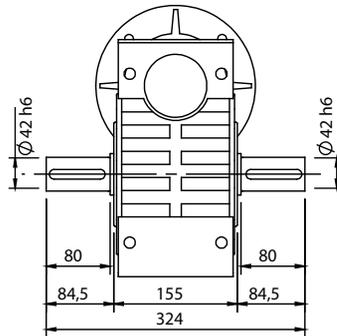
**S110BR...** Tork Kolu  
Reaction Arm



**S110...S...** Tek Çıkış Mili  
Single Shaft



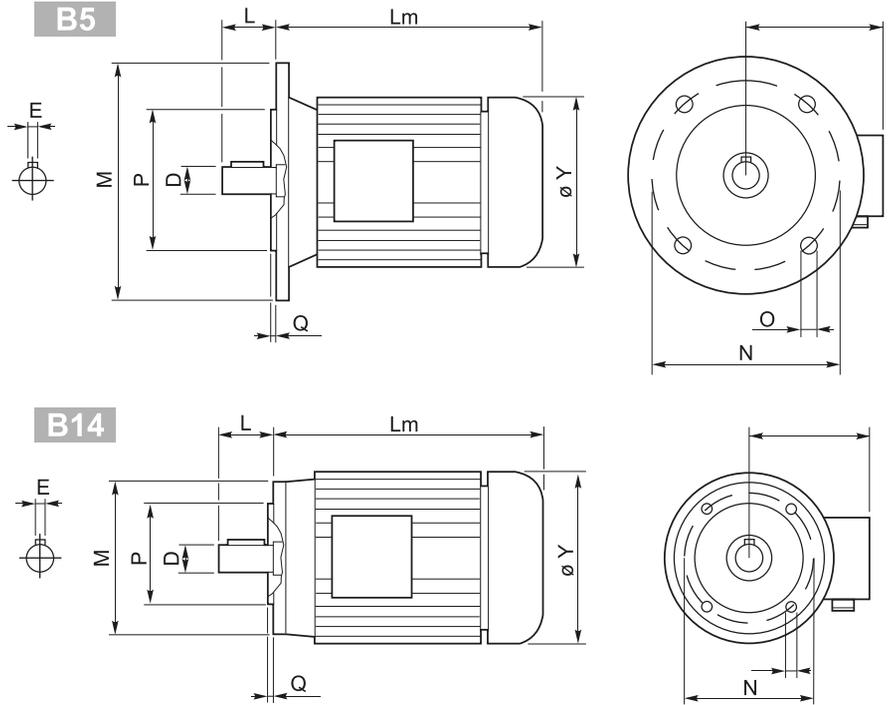
**S110...D...** Çift Çıkış Mili  
Double Shaft





- 1) 230/400V - 50Hz 3 fazlı asenkron indüksiyon motoru
- 2) F klas izolasyon
- 3) S1
- 4) IP 55 koruma
- 5) Boyasız
- 6) Aktarım sırasında çıkış milini korumak için sert plastik kılıf

- 1) 230/400V - 50 Hz three-phase asynchronous induction motor
- 2) Class F insulation
- 3) S1 duty
- 4) IP 55 protection
- 5) Not painted
- 6) Hard plastic sleeve to protect output shaft during the transportation



**Dış ölçüler ve ağırlık üretici firmaya bağlı olarak farklılık gösterebilir**  
*Outside dimensions and weight may be different according to manufacturers*

	2 poli / poles			4 poli / poles			6 poli / poles			B5-B14					B5					B14					Kg	
	kW	Nm	A (400V)	kW	Nm	A (400V)	kW	Nm	A (400V)	D (mm)	E (mm)	L (mm)	Lm (mm)	Y (mm)	AD (mm)	P (mm)	N (mm)	M (mm)	O (mm)	Q (mm)	P (mm)	N (mm)	M (mm)	O (mm)		Q (mm)
56 A	0.09	0.32	0.38	0.06	0.44	0.27	—	—	—	9	3	20	179	108	96	80	100	120	7	2.5	50	65	80	M5	2.5	2.7
56 B	0.12	0.42	0.46	0.09	0.67	0.37	—	—	—	9	3	20	179	108	96	80	100	120	7	2.5	50	65	80	M5	2.5	2.9
63 A	0.18	0.63	0.60	0.12	0.84	0.50	0.09	0.99	0.57	11	4	23	185	120	99	95	115	140	9.5	3	60	75	90	M5	2.5	3.8
63 B	0.25	0.87	0.76	0.18	1.30	0.69	0.12	1.32	0.74	11	4	23	185	120	99	95	115	140	9.5	3	60	75	90	M5	2.5	4.2
71 A	0.37	1.30	1.00	0.25	1.70	0.91	0.18	1.90	0.80	14	5	30	-	130	104	110	130	160	9.5	3.5	70	85	105	M6	2.5	5.9
71 B	0.55	1.90	1.54	0.37	2.52	1.14	0.25	2.72	1.10	14	5	30	225	141	107	110	130	160	9.5	3.5	70	85	105	M6	2.5	6.5
80 A	0.75	2.60	1.85	0.55	3.77	1.51	0.37	3.84	1.18	19	6	40	256	159	127	130	165	200	11.5	3.5	80	100	120	M6	3	8.5
80 B	1.1	3.90	2.64	0.75	5.11	2.57	0.55	5.84	1.80	19	6	40	256	159	127	130	165	200	11.5	3.5	80	100	120	M6	3	10
90 S	1.5	5.00	3.31	1.1	7.45	2.78	0.75	7.92	2.32	24	8	50	-	170	135	130	165	200	11.5	3.5	95	115	140	M8	3	12.5
90 L	2.2	7.50	4.46	1.5	10.2	3.61	1.1	11.6	3.45	24	8	50	280	170	135	130	165	200	11.5	3.5	95	115	140	M8	3	15
100 LA	3.0	10.0	6.28	2.2	14.8	5.07	1.5	15.4	3.88	28	8	60	-	190	148	180	215	250	13	4	110	130	160	M8	3.5	20
100 LB	—	—	—	3.0	20.1	6.66	—	—	—	28	8	60	-	190	148	180	215	250	13	4	110	130	160	M8	3.5	22
112 M	4.0	13.4	8.10	4.0	26.7	8.55	2.2	22.6	5.30	28	8	60	321	210	164	180	215	250	13	4	110	130	160	M8	3.5	35
132 S	5.5	18.3	11.2	5.5	36.5	11.4	3.0	30.2	7.20	38	10	80	375	244	180	230	265	300	14	4	130	165	200	M10	4	41
	7.5	24.9	15.3										420													51
132 M	—	—	—	7.5	49.4	15.0	4.0	40.0	9.13	38	10	80	420	244	180	230	265	300	14	4	130	165	200	M10	4	51
9	61.4	18.5	51																							
160 M	—	—	—	11	72	21.5	—	—	—	42	12	110	503	335	246	250	300	350	18	5	—	—	—	—	—	79.2
160 L	—	—	—	15	98	29	—	—	—	42	12	110	547	335	246	250	300	350	18	5	—	—	—	—	—	97.5
180 M	—	—	—	18.5	121	35.5	—	—	—	48	14	110	602	366	266	250	300	350	19	5	—	—	—	—	—	170
180 L	—	—	—	22	144	42	—	—	—	48	14	110	602	366	266	250	300	350	19	5	—	—	—	—	—	170
200 L	—	—	—	30	196	53	—	—	—	55	16	110	670	405	341	300	350	400	19	5	—	—	—	—	—	240
225 S	—	—	—	37	240	69	—	—	—	60	18	140	748	463	360	350	400	450	19	5	—	—	—	—	—	305
225 M	—	—	—	45	292	84	—	—	—	60	18	140	748	463	360	350	400	450	19	5	—	—	—	—	—	310

## DİĞER ÜRÜNLERİMİZ / OUR OTHER PRODUCT



S Serisi / Series

### Sonsuz Vidalı Redüktörler Worm Gearboxes

Tahvil Oranı Ratio : 7,5 – 100  
Nominal moment Nominal Torque : 20 – 700 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø14 – 42 mm

7 gövde büyüklüğü / 7 Housing Size



C Serisi / Series

### Koaksiyel Redüktörler Helical In-Line Gearboxes

Tahvil Oranı Ratio : 3,30 – 360  
Nominal moment Nominal Torque : 175 – 4.600 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø25 – 70 mm

8 gövde büyüklüğü / 8 Housing Size



X Serisi / Series

### Konik Helisel Dişli Redüktörler Helical Bevel Gearboxes

Tahvil Oranı Ratio : 6,0 – 820  
Nominal moment Nominal Torque : 160 – 4.600 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø25 – 70 mm

8 gövde büyüklüğü / 8 Housing Size



F Serisi / Series

### Saft Montajlı Redüktörler Shaft Mounted Gearboxes

Tahvil Oranı Ratio : 3,30 – 360  
Nominal moment Nominal Torque : 175 – 4.600 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø25 – 70 mm

7 gövde büyüklüğü / 7 Housing Size



H Serisi / Series

### Paralel Millî Redüktörler Parallel Shaft Helical Gearboxes

Tahvil Oranı Ratio : 2,60 – 80  
Nominal moment Nominal Torque : 265 – 2.100 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø35 – 50 mm

3 gövde büyüklüğü / 3 Housing Size



H-EX Serisi / Series

### Paralel Millî Tek Vida Ekstruder Redüktörler Parallel Shaft Single Screw Extruder Gearboxes

Tahvil Oranı Ratio : 3,65 – 680  
Nominal moment Nominal Torque : 380 – 2.100 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø25 – 40 mm

3 gövde büyüklüğü / 3 Housing Size



HE-MHE Serisi / Series

### MonoBlok Paralel Millî Ağır Hizmet Redüktörler Monoblock Parallel Shaft Heavy Duty Gearboxes

Tahvil Oranı Ratio : 2,50 – 130  
Nominal moment Nominal Torque : 3.500 – 79.000 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø60 – 180 mm

10 gövde büyüklüğü / 10 Housing Size



KH-MKH Serisi / Series

### MonoBlok Konik Helisel Dişli Ağır Hizmet Redüktörler Monoblock Bevel Helical Heavy Duty Gearboxes

Tahvil Oranı Ratio : 6,00 – 128  
Nominal moment Nominal Torque : 2.900 – 74.000 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø60 – 180 mm

10 gövde büyüklüğü / 10 Housing Size



HE-EX Serisi / Series

### MonoBlok Paralel Millî Tek Vida Ağır Hizmet Ekstruder Redüktörler Monoblock Parallel Shaft Single Screw Heavy Duty Extruder Gearboxes

Tahvil Oranı Ratio : 6,00 – 25,0  
Nominal moment Nominal Torque : 4.200 – 71.000 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø55 – 160 mm

9 gövde büyüklüğü / 9 Housing Size



HE-LEX Serisi / Series

### MonoBlok Paralel Millî Tek Vida Ağır Hizmet Uzun Dizayn Ekstruder Redüktörler Monoblock Parallel Shaft Single Screw Heavy Duty Long Design Extruder Gearboxes

Tahvil Oranı Ratio : 6,00 – 25,0  
Nominal moment Nominal Torque : 7.500 – 17.000 Nm  
Çıkış Mili Çapı Output Shaft Diameter : Ø60 – 90 mm

4 gövde büyüklüğü / 4 Housing Size



Elektrik Motorları  
Electric Motors

Güç Power : 0,09 – 1000 kW

Kutup Sayısı Poles : 2-4-6

# ZET

*R e d ü k t ö r*

## ZET Redüktör Sanayi ve Ticaret A.Ş.

### İSTANBUL MERKEZ OFİS / HEAD OFFICE

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☎ +90 (216) 327 7255  
✉ info@zetreduktor.com

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