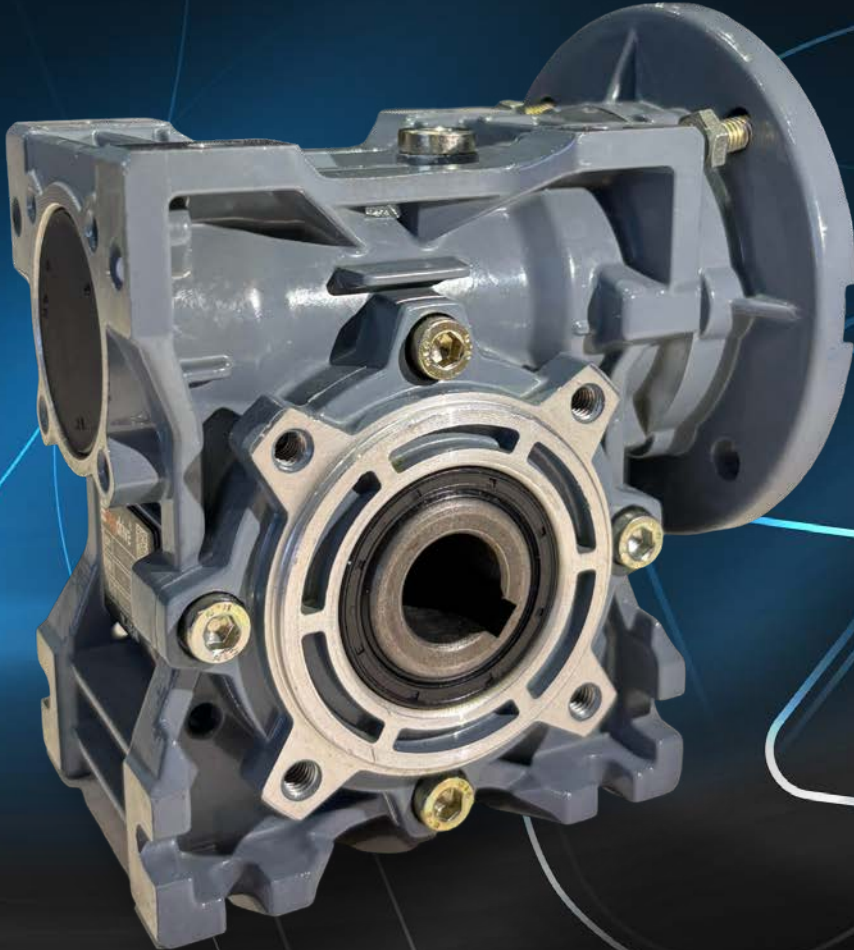


**VERİMLİ, GÜVENİLİR,
SÜRDÜRÜLEBİLİR
PERFORMANS**
Efficient, Reliable,
Sustainable Performance

Sonsuz Vidalı Redüktör

Worm Gear Boxes



TR / ENG

**Redüktör Teknolojisinde
Dünya Standartlarında
Performans!**

World-Class
Performance in
Reducer Technology!

 **degdrive**



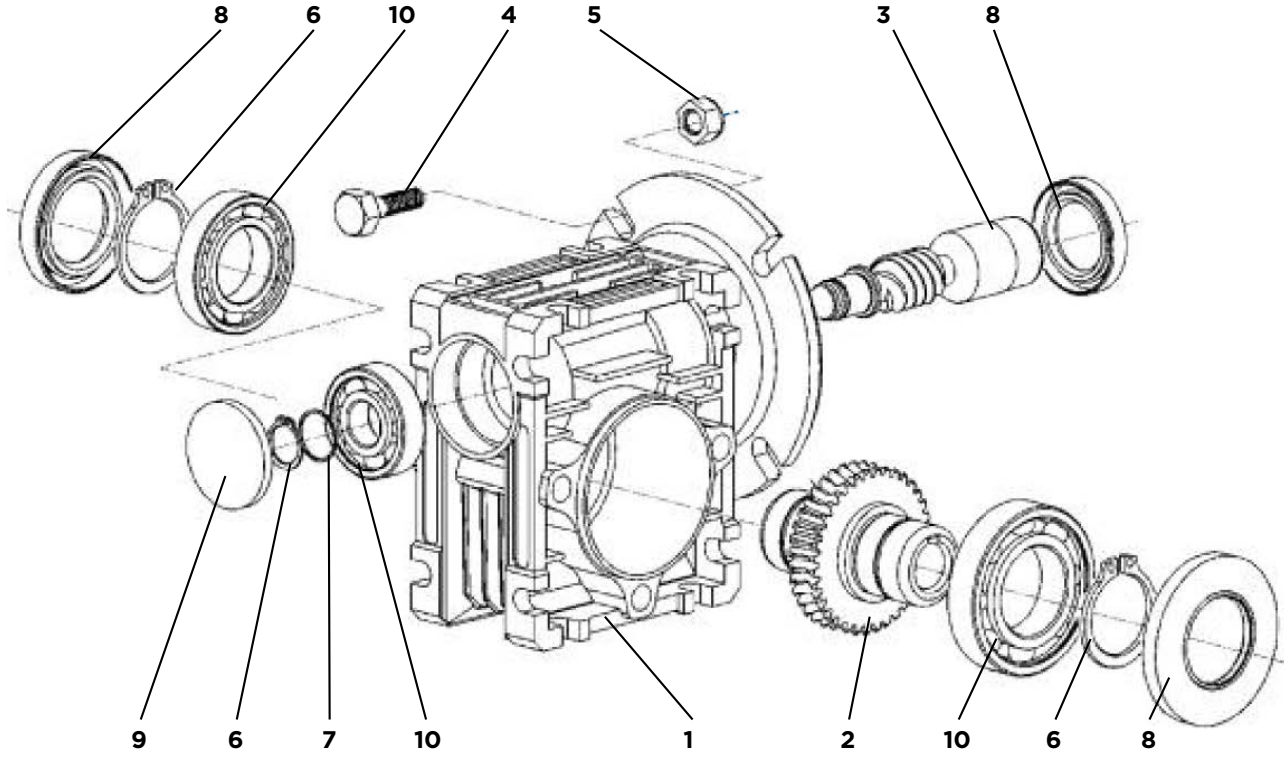
VERİMLİ, GÜVENİLİR,
SÜRDÜRÜLEBİLİR PERFORMANS

EFFICIENT, RELIABLE,
SUSTAINABLE PERFORMANCE

Sonsuz Vidalı Redüktör

Worm Gear Boxes

Parça Dağılımı Exploded View

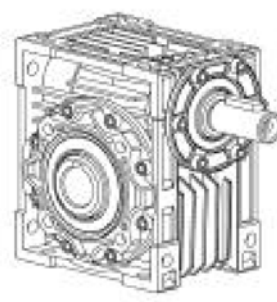


- | | |
|----------------------|----------------------|
| 1. Gövde | 1. Casing |
| 2. Bronz Çark | 2. Worm Wheel |
| 3. Sonsuz Vida Diğli | 3. PAM Worm |
| 4. Vida | 4. Screw DIN 931 |
| 5. Somun | 5. Nut DIN 934/5 |
| 6. Segman | 6. Circlip DIN 471 |
| 7. Burç | 7. Spacer DIN 988 |
| 8. Yağ Keçesi | 8. Oil Seal DIN 3760 |
| 9. Yağ Kapağı | 9. Cap |
| 10. Rulman | 10. Bearing |

MSVR 025-150



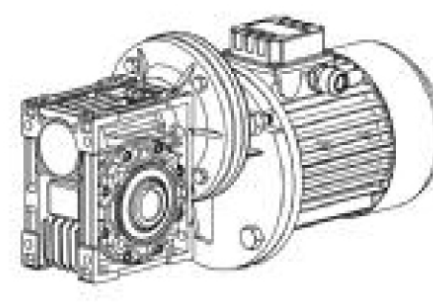
SVR 030-150



Genel Özellikler General Features

- Alüminyum döküm gövde, mükemmel soğutma yüzeyi tasarımı sayesinde, termal kapasitesi döküm gövde redüktörlerden daha yüksektir.
- Sonsuz vida milinin iki rulmanla yataklanması sayesinde esnek montaj şekillerine imkân tanıyan bir yapıya sahiptir. Yüksek kaliteli rulmanları sayesinde uzun ömürlüdür.
- Üniversal motor flanşları ile geniş ve pratik çözümler sunar.
- Çift dudaklı keçeleri sayesinde redüktörün termal kapasitesini artırır ve ömrünü uzatır.
- Giriş flanşlarında ve çıkış kapaklarında O-ring kullanımı sayesinde, contaya kıyasla yağ sızdırmazlığı çok daha üstündür.
- Sertleştirilmiş sonsuz vida flanşı, dövme şaftlara göre daha mukavim bir yapıya sahiptir.
- Standart delik mili flanşları ve opsiyonel olarak takılabilen milleri sayesinde düşük stok maliyeti ve geniş seçenekler sunar.
- Polyester epoksi kaplı iç ve dış gövde boyası sayesinde paslanmaya karşı koruma sağlar.
- Bakım gerektirmeyen havalandırma, boşaltma yan tapalarına gereksinim duymayan yapısı sayesinde her türlü montaj pozisyonuna uygun gövde ve oksidasyona karşı minimum risk.
- Otomasyona dayalı üretim süreci sayesinde hatasız ve güvenilir dişli yapısına sahiptir.
- Alüminyum gövdeler sentetik yağ, döküm gövdeler ise madeni yağ ile doldurulur.
- Aluminium alloy housing heat sink design provides greater surface area and higher thermal capacity than traditional cast-iron housings.
- Two bearings along the input shaft prevent leaks and contribute to flexibility in mounting. High quality bearings increase reducer life.
- IEC motor inputs available for greater customer flexibility.
- Double-lip oil seals aid the reducer's thermal capacity and extended the reducer's oil life.
- Use of O-rings on the input flange and output cover prevents leaks more effectively than a paper gasket.
- Hardened worm shaft gives increased durability versus forged worm shafts.
- Standard hollow output bore and optional plug-in shafts provide greater flexibility in ordering and reduced inventory.
- Polyester epoxy paint applied on the inside and outside of the gearcase protects against rust.
- No vent plug or breather is required are universal mounting sealed for life, maintenance free reducers, with little risk of oil oxidation or contamination.
- Automated manufacturing process, reliable gearing.
- Aluminium units are prefilled with synthetic oil; cast iron units are prefilled with mineral oil.

PC - MSVR



MSVR - MVR



Yağlama Lubrication

Yağ değişimi genellikle 10.000 saat çalışma sonrasında gereklidir. Ancak bu periyot, çalışma şartları ve çevre koşullarına göre değişiklik gösterir.

- 025 - 030 - 040 - 050 - 063 - 075 - 090 tip redüktörler üretici tarafından sentetik yağ ile sevk edilirler.
- 110 ve 130 redüktörler madeni yağ viskozite değeri 460 cst ile sevk edilir.
- 110 ve 130 tip redüktörler aksi belirtilmediği takdirde B3 montaj pozisyonu seviyesinde yağ doldurulur.
- 110 ve 130 tip redüktörler doldurma, havalandırma ve boşaltma tapaları ile donatılmıştır.

The oil needs to be changed after approximately 10,000 hours. This period depends on the type of service and the environment where the reduction unit works.

- The reduction units size 025 - 030 - 040 - 050 - 063 - 075 - 090 are supplied complete with lubricant for life, synthetic oil and can therefore be mounted in any position envisaged in the catalogue.
- The reduction units size 110 - 130 are supplied complete with lubricant, mineral oil.
- For size 110 - 130 it is necessary to specify the position, otherwise the reduction units are supplied with the quantity of relating to position B3.
- Only reduction units 110 - 130 are fitted with breather, level and oil drainage plugs.

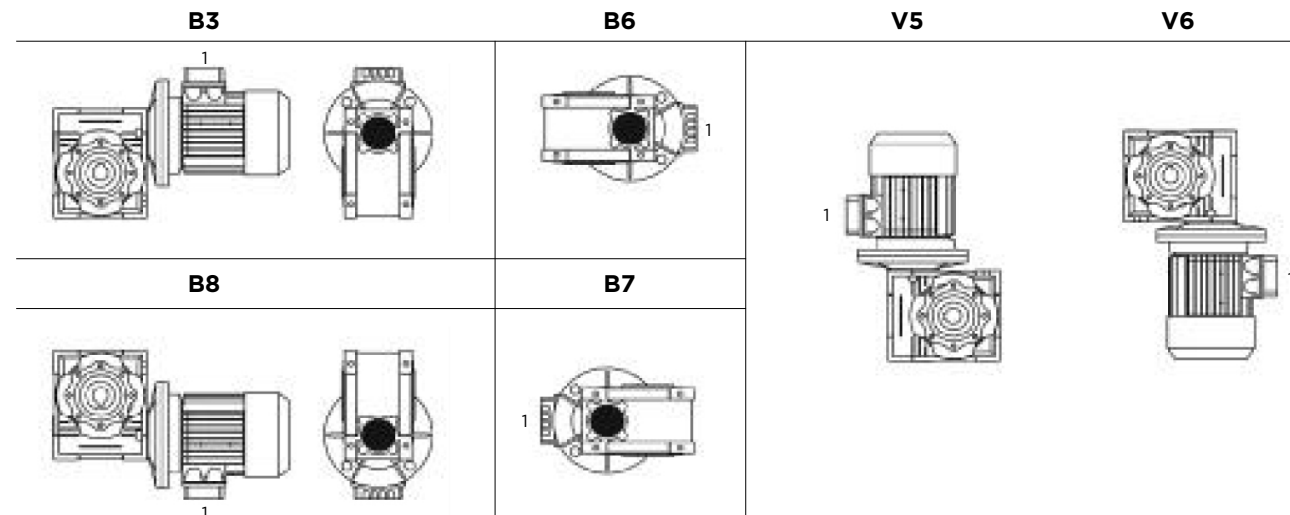
	T°C - ISO	AGIP	SHELL	ESSO	MOBIL	CASTROL	BP	
MSVR 025 / 090 PC 063 / 090	(-25) / (+50) ISO VG320	TELUM VSF320	TELUM VSF320	S220	GIYGOYLE 30	ALPHASYN PG320	ENERGOL SG-XP320	Synthetic Oil
MSVR 110 / 150	(-5) / (+40) ISO VG460	BLASIA 460	OMALA OIL 460	SPARTAN EP460	MOBILGEAR 634	ALPHA MAX 460	ENERGOL GR-XP460	Mineral Oil
	(15) / (+25) ISO VG220	BLASIA 220	OMALA OIL 220	SPARTAN EP220	MOBILGEAR 630	ALPHA MAX 220	ENERGOL GR-XP220	

Yağ Miktarları

MSVR	025	030	040	050	063	075	090	110	130	150	PC	063	071	080	090
B3								3	4.5	7					
B8								2.2	3.3	5.1					
B6-B7	0.02	0.04	0.08	0.15	0.3	0.55	1	2.5	3.5	5.4		0.05	0.07	0.15	0.16
V5								3	4.5	7					
V6								2.2	3.3	5.1					

Quantity Of Oil in Litres

MSVR



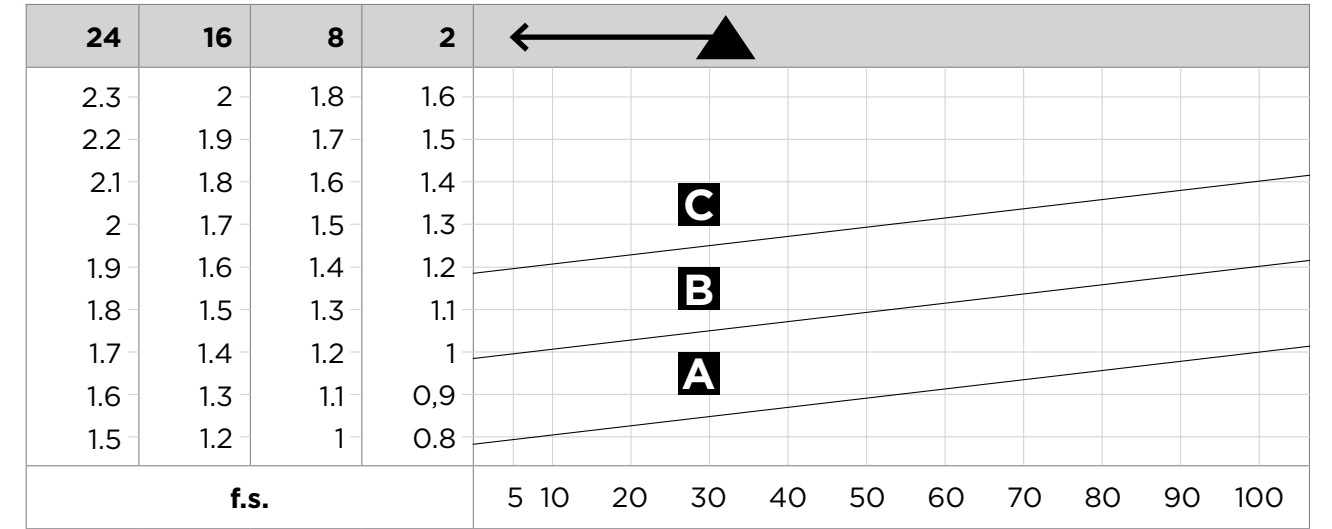
Servis Faktörü Service Factor

Servis faktörü redüktörlerin çalışma şartlarına göre seçilmelidir.

- Yük sınıfı: A - B - C
- Günlük çalışma süresi: (▲) saat/gün
- Devreye girme ve durma periyodu (*) start/saat

The service factor (f.s) depends on the operating conditions the reduction unit is subjected to. The parameters that need to be taken into consideration to select the most adequate service factor correctly comprise:

- Type of load of the operated machine: A - B - C
- Length of daily operating time: hours / day (▲)
- Start-up frequency: starts/hour (*)



C Düzenli Yük

B Orta Seviyeli Şok Yükler

A Ağır Şok Yükler

C Uniform Load

B Moderate Shock Loads

A Heavy Shock Loads

Performans Tablosu
Performance Table

n1=1400		Geared Motors				
i	n2 1/min	Type	P1 (kW)		M2 (Nm)	f.s.
5	280	MSVR030	0.22	63C4	6.5	2.8
7.5	186.7		0.22	63C4	10	1.9
10	140		0.22	63C4	12	1.5
15	93.3		0.22	63C4	17	1.0
20	70.0		0.22	63C4	22	0.8
25	56.0		0.18	63B4	21	1.0
30	46.7		0.18	63B4	24	0.8
40	35.0		0.12	63B4	23	0.9
50	28.0		0.12	63B4	23	0.8
60	23.3		0.09	56B4	19	0.9
80	17.5		0.06	56B4	14	0.9
5	280	MSVR040	0.55	71C4	17	2.0
7.5	186.7		0.55	71C4	24	1.6
10	140		0.55	71C4	32	1.3
15	93.3		0.55	71C4	46	0.9
20	70		0.37	71B4	39	1.0
25	56		0.37	71B4	47	0.8
30	46.7		0.37	71B4	53	0.8
40	35		0.25	71A4	44	0.9
50	28		0.22	63C4	47	0.8
60	23.3		0.18	63B4	43	0.8
80	17.5		0.12	63A4	34	1.0
100	14		0.12	63A4	38	0.8
5	280	MSVR050	0.92	80C4	28	2.2
7.5	186.7		0.92	80C4	41	1.7
10	140.0		0.92	80C4	54	1.3
15	93.3		0.92	80C4	77	1.0
20	70.0		0.75	80B4	81	0.9
25	56.0		0.55	80A4	71	1.0
30	46.7		0.55	80A4	81	1.0
40	35.0		0.37	71B4	68	1.1
50	28.0		0.37	71B4	80	0.9
60	23.3		0.37	71B4	89	0.8
80	17.5		0.25	71A4	72	0.9
100	14.0		0.18	63B4	60	0.9
7.5	186.7	MSVR063	1.84	90L4	83	1.5
10	140.0		1.84	90L4	109	1.2
15	93.3		1.84	90L4	156	0.9
20	70.0		1.5	90L4	166	0.8
25	56.0		1.1	90S4	146	0.9
30	46.7		1.1	90S4	167	1.0
40	35.0		0.92	80C4	176	0.8
50	28.0		0.55	80A4	124	1.1
60	23.3		0.55	80A4	140	0.9
80	17.5		0.37	71B4	115	1.1
100	14.0		0.37	71B4	129	0.9

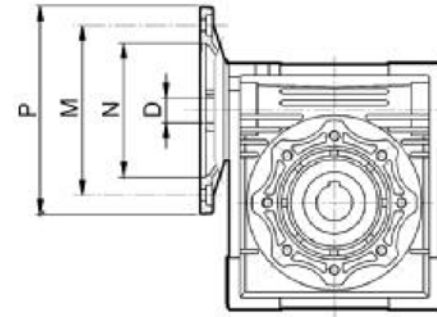
Performans Tablosu
Performance Table



n1=1400		Geared Motors				
i	n2 1/min	Type	P1 (kW)		M2 (Nm)	f.s.
7.5	186.7	MSVR075	4	112M4	182	1.0
10	140.0		4	112M4	240	0.8
15	93.3		3	100LB4	261	0.8
20	70.0		1.84	90L4	206	1.0
25	56.0		1.84	90L4	251	0.8
30	46.7		1.84	90L4	286	0.8
40	35.0		1.84	90S4	216	1.0
50	28.0		0.92	80C4	217	1.0
60	23.3		0.92	80C4	245	0.8
80	17.5		0.55	80A4	180	1.1
100	14.0		0.55	80A4	206	0.9
7.5	186.7	MSVR090	4.8	112MS4	221	1.3
10	140		4.8	112MS4	291	1.1
15	93.3		4.8	112MS4	422	0.9
20	70.0		4	112M4	458	0.8
25	56.0		3	100LB4	420	0.8
30	46.7		3	100LB4	479	0.9
40	35.0		1.84	90L4	377	1.0
50	28.0		1.84	90L4	452	0.8
60	23.3		1.5	90L4	424	0.8
80	17.5		0.92	80C4	316	0.9
100	14.0		0.75	80B4	302	0.9
7.5	186.7	MSVR110	9.2	132L4	424	1.3
10	140		7.5	132M4	455	1.3
15	93.3		7.5	132M4	660	1.0
20	70.0		5.5	132S4	638	1.0
25	56.0		4.8	112MS4	688	1.0
30	46.7		4	112M4	647	1.1
40	35.0		3	100LB4	638	1.1
50	28.0		3	100LB4	767	0.9
60	23.3		2.2	100LA4	648	1.0
80	17.5		1.5	90L4	548	0.9
100	14.0		1.1	90S4	473	1.0
7.5	186.7	MSVR130	15	160L4	698	1.7
10	140		15	160L4	921	1.3
15	93.3		15	160L4	1351	0.9
20	70.0		15	160L4	1760	0.7
25	56.0		11	160M4	1576	0.8
30	46.7		9.2	132M4	1563	0.8
40	35.0		9.2	132M4	1958	0.8
50	28.0		0.55	132S4	1426	1.0
60	23.3		0.55	132S4	1643	0.8
80	17.5		4	112M4	1484	0.8
100	14.0		3	100LB4	1310	0.8

Motor Bağlantı Uygunluğu

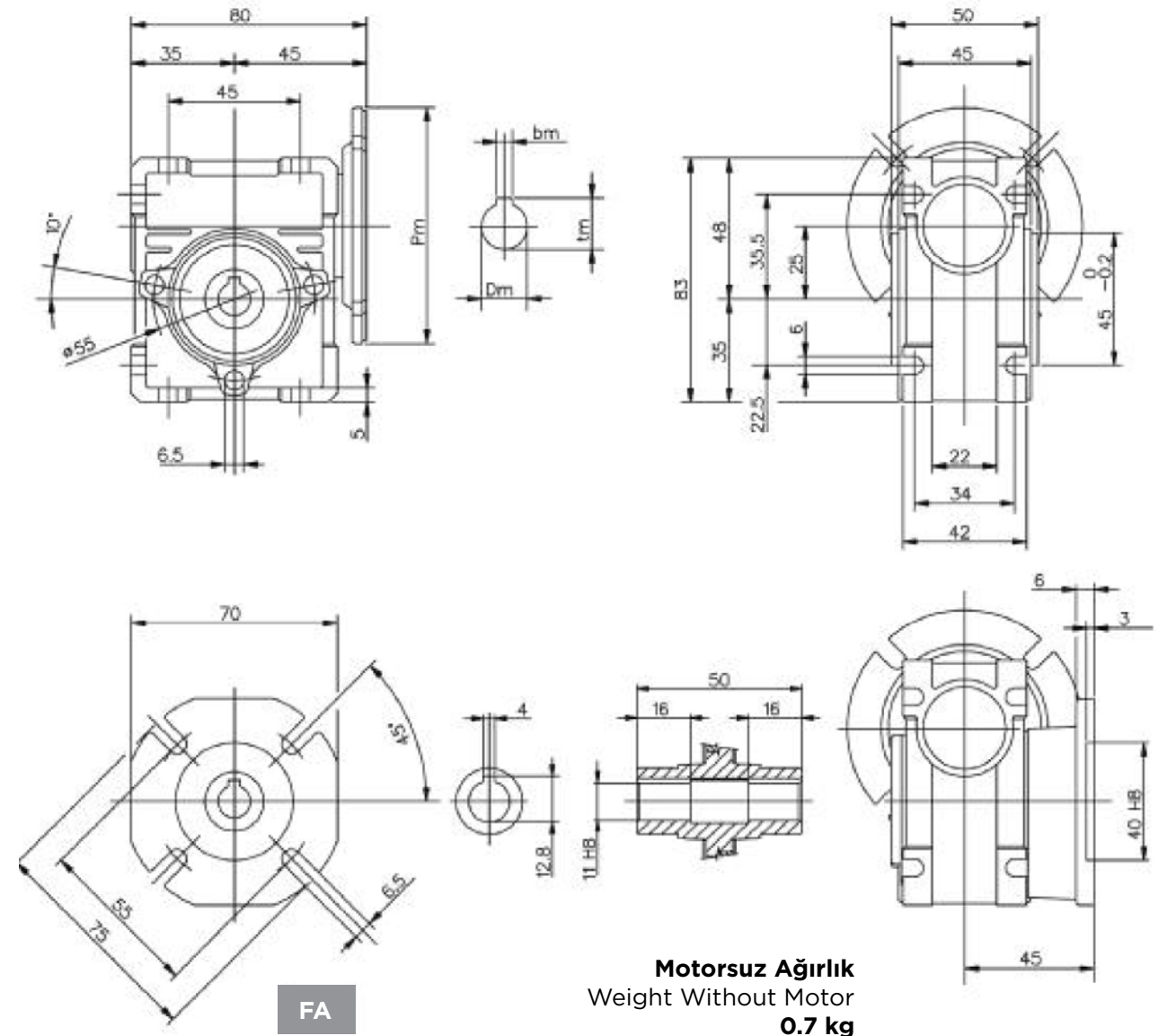
Possible Motor Attachment



MSVR	PALM IEC	N	M	P	D											
					5	7.5	10	15	20	25	30	40	50	60	80	100
025	56B14	50	65	80	9	9	9	9	9	9	9	9	9	9	-	-
030	63B5	95	115	140	11	11	11	11	11	11	11	11	11	-	-	-
	63B14	60	70	90												
	56B5	80	100	120	9	9	9	9	9	9	9	9	9	9	9	-
	56B14	50	65	80												
040	71B5	110	130	160	14	14	14	14	14	14	14	14	-	-	-	-
	71B14	70	85	105												
	63B5	95	115	140	11	11	11	11	11	11	11	11	11	11	11	11
	63B14	60	75	90												
	56B5	80	100	120	-	-	-	-	-	-	-	-	9	9	9	9
050	80B5	130	165	200	-	19	19	19	19	19	19	19	-	-	-	-
	80B14	80	100	120												
	71B5	110	130	160	-	14	14	14	14	14	14	14	14	14	14	-
	71B14	70	85	105												
	63B5	95	115	140	-	-	-	-	-	-	-	-	11	11	11	11
063	90B5	130	165	200	-	24	24	24	24	24	24	24	-	-	-	-
	90B14	95	115	140	-											
	80B5	130	165	200	-	19	19	19	19	19	19	19	19	19	-	-
	80B14	80	100	120	-											
	71B5	110	130	160	-	-	-	-	-	-	-	-	14	14	14	14
075	71B14	70	85	105	-											
	80B5	180	215	250	-	28	28	28	-	-	-	-	-	-	-	-
	80B14	110	130	160												
	71B5	130	165	200	-	24	24	24	24	24	24	24	-	-	-	-
	71B14	95	115	140												
090	100/112B5	130	165	200	-	-	-	-	19	19	19	19	19	19	19	19
	100/112B14	80	100	120												
	90B5	110	130	160	-	-	-	-	-	-	-	-	14	14	14	14
	100/112B5	180	215	250	-	28	28	28	28	28	28	28	-	-	-	-
	100/112B14	110	130	160												
110	90B5	130	165	200	-	24	24	24	24	24	24	24	24	24	-	-
	90B14	95	115	140												
	80B5	130	165	200	-	-	-	-	-	-	-	-	19	19	19	19
	80B14	80	100	120												
	132B5	230	265	300	-	38*	38*	38*	38*	-	-	-	-	-	-	-
130	100/112B5	180	215	250	-	28	28	28	28	28	28	28	28	28	28	28
	100/112B14	110	130	160												
	90B5	130	165	200	-	-	-	-	-	-	-	-	-	-	-	-
	90B5 -	130	165	200	-	-	-	-	-	-	-	-	-	-	24	24
	132B5	230	265	300	-	38*	38*	38*	38*	38*	38*	38*	-	-	-	-

Tip 25 Değerleri

Type 25 Specifications

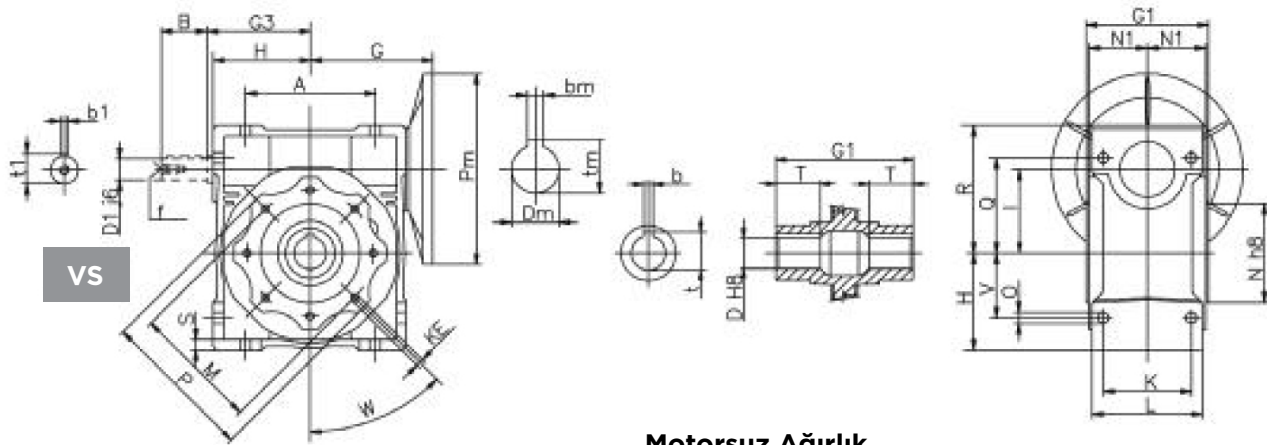


Motorsuz Ağırlık
Weight Without Motor
0.7 kg

n1=1400		Geared Motors				
i	n2 1/min	Type	P1 (kW)	M2 (Nm)	f.s.	
5	280.0	MSVR025	0.09	56B4	2.7	4.1
7.5	186.7		0.09	56B4	3.9	2.8
10	140.0		0.09	56B4	5.1	2.4
15	93.3		0.09	56B4	7.3	1.6
20	70.0		0.09	56B4	9.2	1.3
30	46.7		0.09	56B4	12	1.1
40	35.0		0.09	56B4	15	0.9
50	28.0		0.06	56A4	21	0.9
60	23.3		0.09	56A4	14	0.7

Genel Ölçüler

General Dimensions

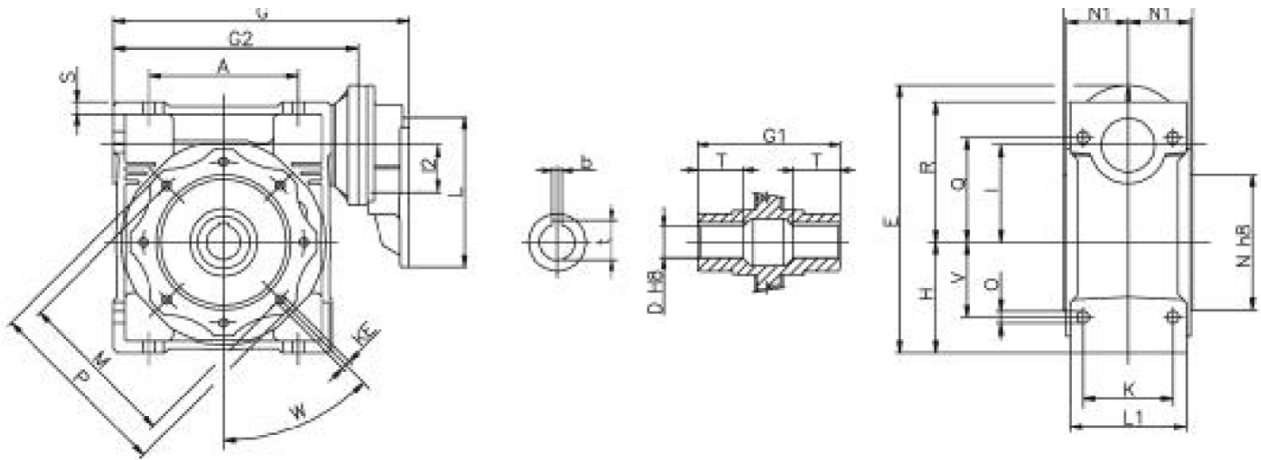


Motorsuz Ağırlık
Weight Without Motor

	030	040	050	063	075	090	110	130
A	54	70	80	100	120	140	170	200
B	20	23	30	40	50	60	80	80
D	14	18	19	25(24)	28(35)	35(38)	42	45
D1	9	11	14	19	24	28	30	30
G	55	70	80	95	112.5	129.5	160	180
G1	63	78	92	112	120	140	155	170
G3	45	53	64	75	90	108	135	155
H	40	50	60	72	86	103	127.5	147.5
I	30	40	50	63	75	90	110	130
K	44	60	70	85	90	100	115	120
KE	M6*11(4)	M6*10(4)	M8*10(8)	M8*14(8)	M8*14(8)	M10*14(8)	M10*18(8)	M12*21(8)
L	56	71	85	103	112	130	144	155
M	65	75	85	95	115	130	165	215
N	55	60	70	80	95	110	130	180
N1	29	36.5	43.5	53	57	67	74	81
O	6.5	6.5	8.5	8.5	11.5	13	14	16
P	75	87	100	110	140	160	200	250
Q	44	55	64	80	93	102	125	140
R	57	71.5	84	102	119	135	167.5	187.5
S	5.5	6.5	7	8	8	10	12	15.5
T	21	26	30	36	40	45	60	80
V	27	35	40	50	60	70	85	100
W	0°	45°	45°	45°	45°	45°	45°	45°
b	5	6	8	8	8(10)	10	12	14
t	16.3	20.8(21.8)	28.3(27.3)	28.3(31.3)	31.3(38.3)	38.3 (41.3)	45.3	48.8
b1	3	4	6	6	8	8	8	8
t1	10.2	12.5	21.5	21.5	27	27	31	33
f	-	-	M6	M6	M8	M8	M10	M10
-Kg	1.2	2.3	6.2	6.2	9	13	35	48

Genel Ölçüler

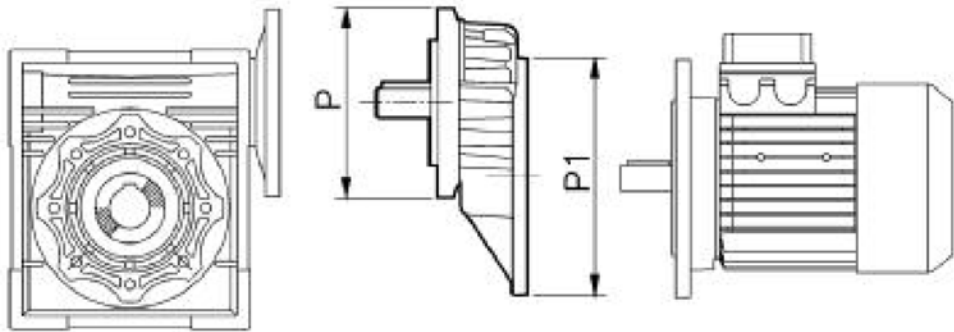
General Dimensions



	PC063 + MSVR			PC071 + MSVR				PC080 / PC090 + MSVR			
	040	050	063	050	063	075	090	075	090	110	130
A	70	80	100	80	100	120	140	120	140	170	200
E	147	167	192	177.5	202.5	228.5	260.5	241	273	317.5	357.5
G	165	185	212	193	220	251.5	285.5	267.5	301.5	356.5	396.5
G1	78	92	112	92	112	132	140	108	135	155	170
G2	120	140	167	140	167	198.5	232.5	198.5	232.5	287.5	327.5
H	50	60	72	60	72	86	103	86	103	127.5	147.5
I	40	50	63	50	63	75	90	75	90	110	130
I2	40	40	40	50	50	50	50	63	63	63	63
L	140	140	160	160	160	200	200	200	200	200	200
L1	71	85	103	85	103	112	130	112	130	144	155
K	60	70	85	70	85	90	100	90	100	115	120
KE	M6*10(4)	M8*10(4)	M8*14(8)	M8*10(4)	M8*14(8)	M8*14(8)	M10*18(8)	M8*14(8)	M10*18(8)	M10*18(8)	M12*21(8)
M	75	85	95	85	95	115	130	115	130	165	215
N	75	85	95	85	95	110	95	95	110	130	180
N1	36.5	43.5	53	43.5	53	57	67	57	67	74	81
O	6.5	8.5	8.5	8.5	8.5	11.5	13	11.51	13	14	16
P	87	100	110	100	110	140	160	140	160	200	250
Q	55	64	80	64	80	93	102	93	102	125	140
R	71.5	84	102	84	102	119	135	119	135	167.5	187.5
S	6.5	7	8	7	8	10	11	10	11	14.5	15.5
T	21	26	30	26	30	40	45	40	45	50	60
V	35	40	50	40	50	60	70	60	70	85	100
W	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°	45°
D	18	25	25	25	25	28	35	28	35	42	45
b	6	8	8	8	8	10	12	10	12	12	14
t	20.8	28.3	28.3	28.3	28.3	31.3	38.3	31.3	38.3	45.3	48.8
-kg	3.4	4.6	7.3	5.1	7.8	10.6	14.6	12.4	16.4	38.4	51.4

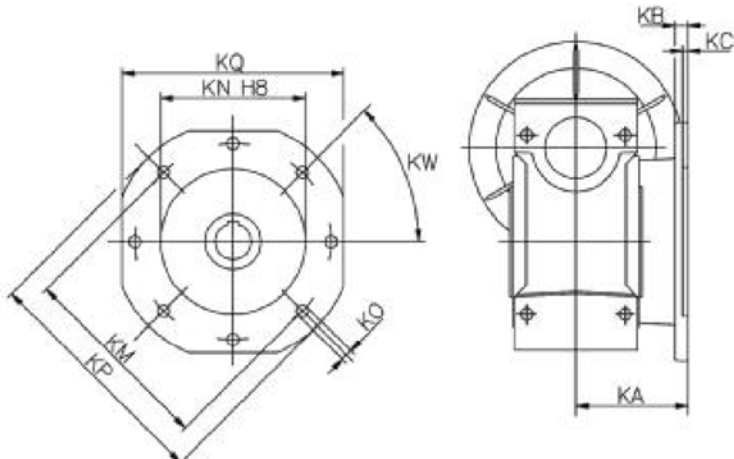
Genel Ölçüler
General Dimensions

MSVR	i	PC 063		PC 071		PC 080			PC 090		
		105/11 i=3	105/14 i=3	120/14 i=3	120/19 i=3	160/19 i=3	160/24 i=3	160/28 i=3	160/19 i=2,42	160/24 i=2,42	160/28 i=2,42
040	25										
	30										
	40										
	50										
	60										
	80										
050	100										
	25										
	30										
	40										
	50										
	60										
063	80										
	100										
	25										
	30										
	40										
	50										
075	60										
	80										
	100										
	25										
	30										
	40										
090	50										
	60										
	80										
	100										
	25										
	30										
110	40										
	50										
	60										
	80										
	100										
	25										
130	30										
	40										
	50										
	60										
	80										
	100										



	P1	P	(P)
PC 063	63B5 - 140 / 11	105 / 11	(105 / 14)
PC 071	71B5 - 160 / 14	120 / 14	(120 / 19)
PC 080	80B5 - 200 / 19	160 / 19	(160 / 24) (160 / 28)
PC 090	90B5 - 200 / 24	160 / 24	(160 / 19) (160 / 28)

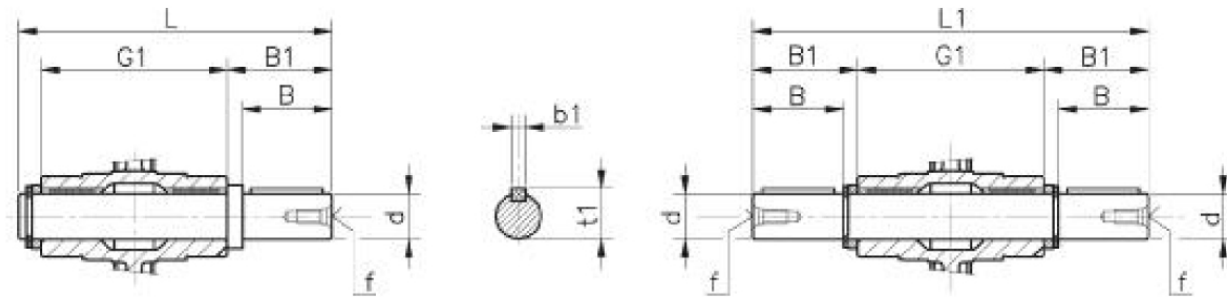
Genel Ölçüler
General Dimensions



		030	040	050	063	075	090	110	130
FA	KA	54,5	67	90	82	111	111	131	140
	KB	6	7	9	10	13	13	15	15
	KC	4	4	6	6	6	6	6	6
	KN	50	60	70	115	130	152	170	180
	KM	68	80 min	90 min	150	165	175	230	255
	KO	6.5 (n°4)	9 (n°4)	11 (n°4)	11 (n°4)	14 (n°4)	14 (n°4)	14 (n°8)	16 (n°8)
	KP	80	110	125	180	200	210	280	320
	KQ	70	95	110	142	170	200	260	290
	KW	45°	45°	45°	45°	45°	45°	45°	22.5°
FB	KA	97	120	112	90	122	180	-	-
	KB	-	7	9	10	13	18	15	-
	KC	-	4	5	6	6	6	6	-
	KN	-	60	70	115	110	180	170	-
	KM	-	80 min	90 min	150	130	215	230	-
	KO	-	9 (n°4)	11 (n°4)	11 (n°4)	14 (n°4)	14 (n°4)	14 (n°8)	-
	KP	-	110	125	180	160	250	280	-
	KQ	-	95	110	142	-	-	280	-
	KW	-	45°	45°	45°	45°	45°	45°	-
FC	KA	-	80	89	98	-	110	-	-
	KB	-	9	10	10	-	17	-	-
	KC	-	5	5	5	-	6	-	-
	KN	-	95	110	130	-	130	-	-
	KM	-	115	130	165	-	165	-	-
	KO	-	9.5 (n°4)	9.5 (n°4)	11 (n°4)	-	11 (n°4)	-	-
	KP	-	140	160	200	-	200	-	-
	KQ	-	140	160	200	-	200	-	-
	KW	-	45°	45°	45°	-	45°	-	-
FD	KA	-	58	72	107	-	151	-	-
	KB	-	12	14,5	10	-	13	-	-
	KC	-	5	5	5	-	6	-	-
	KN	-	80	95	130	-	152	-	-
	KM	-	100	115	165	-	175	-	-
	KO	-	9 (n°4)	11 (n°4)	11 (n°4)	-	14 (n°4)	-	-
	KP	-	120	140	200	-	210	-	-
	KQ	-	120	140	200	-	210	-	-
	KW	-	45°	45°	45°	-	45°	-	-

Çıkış Milleri

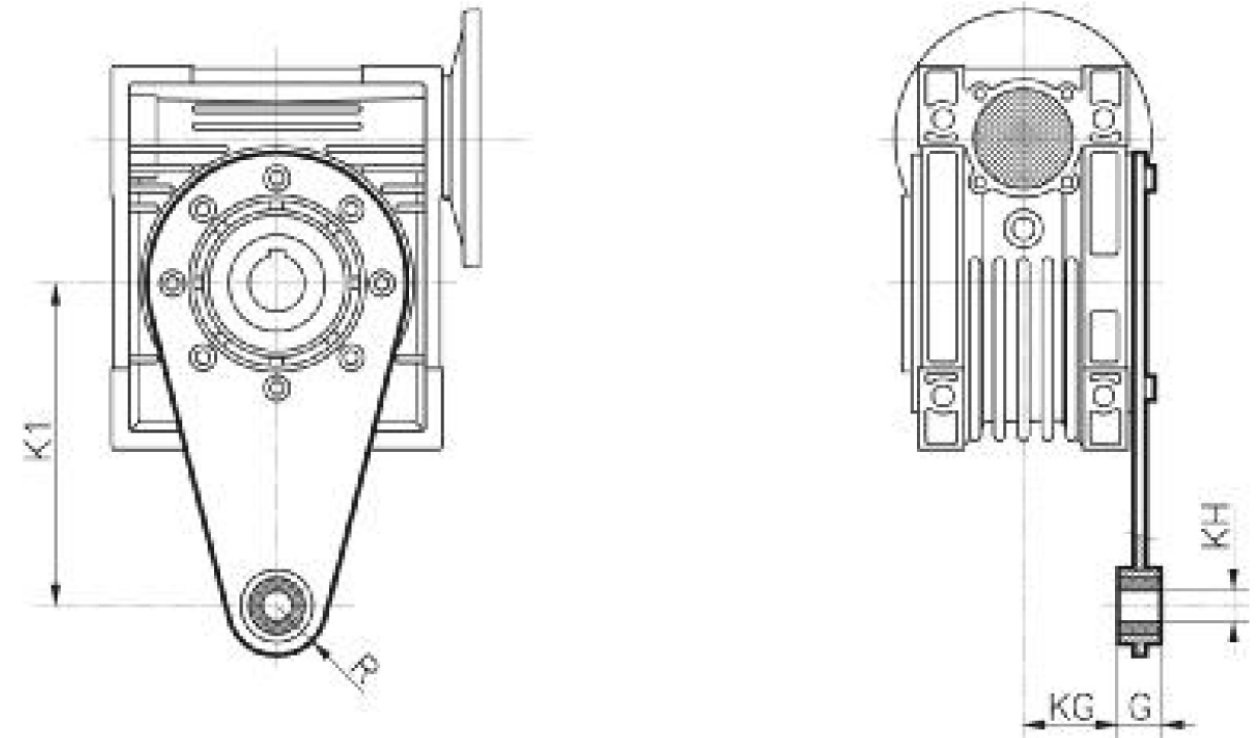
Low Speed Shafts



	d	B	B1	G1	L	L1	f	b1	t1
025	11g6 (9)	23 (25)	25.5 (30)	50	81 (85.5)	101	-	4 (3)	12.5 (10.2)
030	14 h6	30	32,5	63	102	128	M6	5	16
040	18 h6	40	43	78	128	164	M6	6	20,5
050	25 h6	50	53,5	92	153	199	M10	8	28
063	25 h6	50	53,5	112	173	219	M10	8	28
075	28 h6	60	63,5	120	192	247	M10	8	31
090	35 h6	80	84,5	140	234	309	M12	10	38
110	42 h6	80	84,5	155	249	324	M16	12	45
130	45 h6	80	85	170	265	340	M16	14	48,5

Tork Kolu

Torque Arm



	K1	G	KG	KH	R
025	70	14	17,5	8	15
030	85	14	24	8	15
040	100	14	31,5	10	18
050	100	14	38,5	10	18
063	150	14	49	10	18
075	200	25	47,5	20	30
090	200	25	57,5	20	30
110	250	30	62	25	35
130	250	30	69	25	35

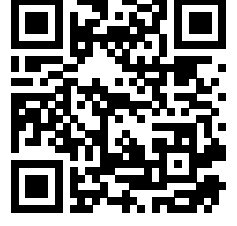
Notlar

Notes

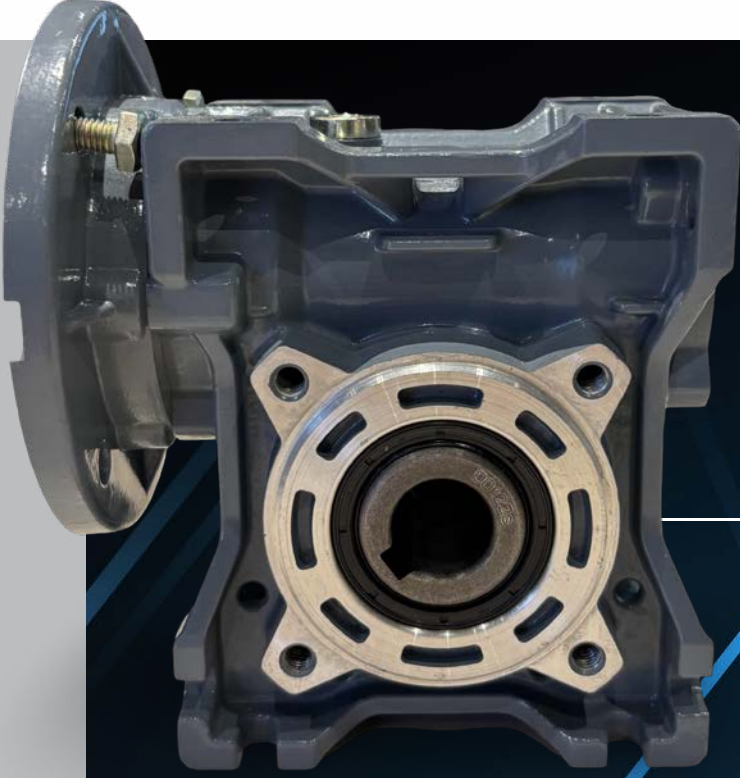
Notlar

Notes





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