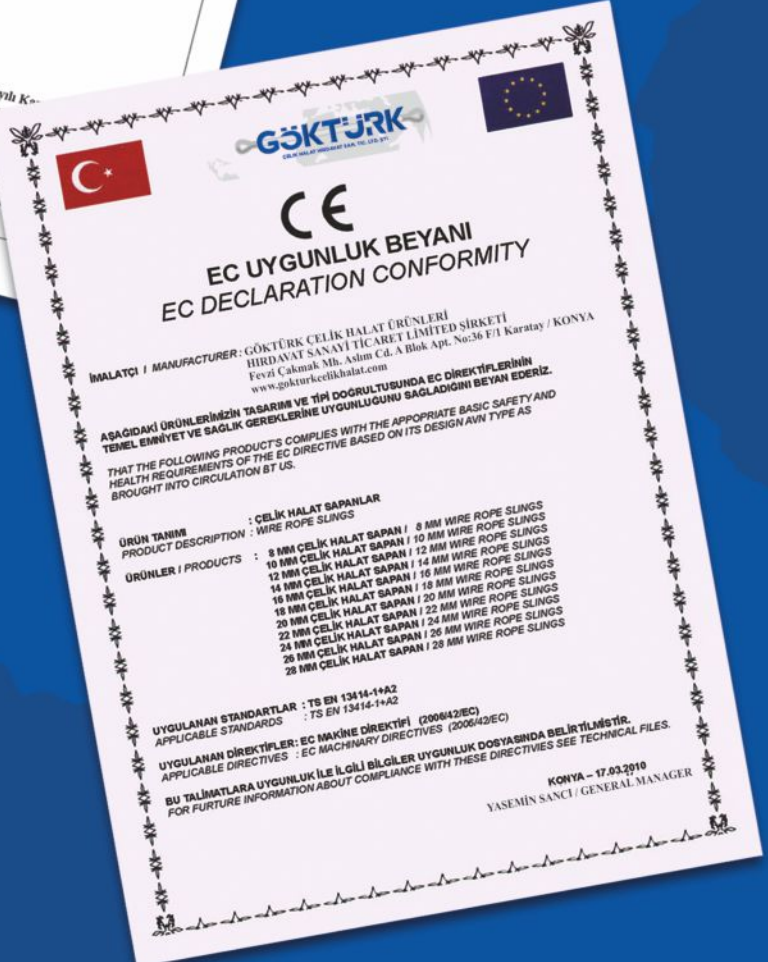


ÜRÜN
KATALOĞU
Product Catalogue



Hyfil K16

Hyfil K16'nın Özellikleri

Benefits of Hyfil K16:

- Hyfil K16 yüksekliğin önemli olduğu alanlarda kullanımı en uygun halattır.
Hyfil K16 is the most suitable rope for high lifting height application.
- Hyfil K16 iç ve dış damarları compact olup, dönmeye karşı mukaveletlidir.
Hyfil K16 is a rotation resistant rope, and made with compacted both parts of outer strands and inner strands.



Regular Lay	Langs Lay	Compacted	Rotary Swaged	PI
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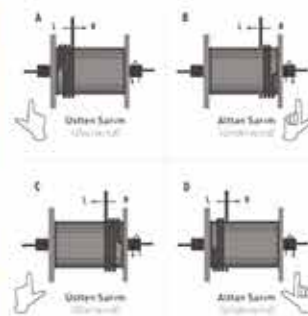
- Hyfil K16 makara sıkışmalarına karşı çok kuvvetli olup yüksek kopma dayanımına sahiptir. Hyfil K16 has an extremely high breaking strength with a very strong resistance against drum crushing.
- Hyfil K16 galvaniz ve siyah tellerden yapılmış olup tam olarak yağlanmıştır.
The rope is fully lubricated and made out of galvanized/ungalvanized wires.

Hyfil K16'nin Dizaynı (The basic designed data of Hyfil K16)

mm (Size)	8-40
Toplam Tel Adedi (Total Number of Wire)	361
Dis Damarlarda Yüke Binen Toplam Tel Sayısı (Number of Load-bearing Wires in Outer Strands)	228
Dis Damarlarda Bulunan Dis Tel Sayısı (Number of Outer Wires in Outer Strands)	108
Ortalama Dolgu Faktörü (Average Fill Factor)	0,64

Değiştirme Kriteri (Discard Criteria)		
Dış Damarlarda Yüke Binen Tel Kırıkları Sayısı (The number of break in the load bearing wires in outer strands)		
Uzunluk Length	Langs Ray	
	6Xd	30Xd
Discard	19	38

Halat Çapı Wire Diameter		Çap Toleransı Diameter Tolerance		Yaklaşık Birim Ağırlığı Approximate Unit Wt.		Minimum Kopma Kuvveti (Minimum Breaking Force (Fmin, MBF))							
						Metric Unit				Imperial Unit			
						1960 Grade		2160 Grade		1960 Grade		2160 Grade	
mm	inch	mm	mm	kg/m	lb/ft	kN	t(metric)	kN	t(metric)	klb	t(short)	klb	t(short)
10		10.0	10.4	0.510		91.8	9.4	97.9	10.0				
(11.1)	7/16	11.1	11.5		0.41					25.0	12.5	26.6	13.3
12		12.0	12.5	0.735		132.2	13.5	141.0	14.4				
(12.7)	1/2	12.7	13.2		0.55					33.3	16.6	35.5	17.8
13		13.0	13.5	0.862		155.1	15.8	165.5	16.9				
14		14.0	14.6	1.00		179.9	18.3	192.0	19.6				
(14.3)	9/16	14.3	14.9		0.70					42.2	21.1	45.0	22.5
15		15.0	15.6	1.15		206.5	21.1	220.4	22.5				
(15.9)	5/8	15.9	16.5		0.88					52.8	26.4	56.4	28.2
16		16.0	16.6	1.31		235.0	24.0	250.7	25.6				
18		18.0	18.7	1.65		297.4	30.3	317.3	32.4				
19		19.0	19.8	1.84		331.0	33.8	353.2	36.0				
(19.1)	3/4	19.1	19.9		1.24					74.4	37.2	79.4	39.7
20		20.0	20.8	2.04		366.8	37.4	391.4	39.9				
22		22.0	22.9	2.47		443.8	45.3	473.6	48.3				
(22.2)	7/8	22.2	23.1		1.69					101.6	50.8	108.4	54.2
24		24.0	25.0	2.94		528.2	53.9	563.6	57.5				
25		25.0	26.0	3.19		573.1	58.4	611.5	62.4				
(25.4)	1	25.4	26.4		2.21					133.0	66.5	141.9	71.0
26		26.0	27.0	3.45		619.9	63.2	661.4	67.4				
27		27.0	28.1	3.72		668.5	68.2	713.3	72.7				
28		28.0	29.1	4.00		718.9	73.3	767.4	78.2				
(28.6)	1-1/8	28.6	29.7		2.80					168.4	84.2	179.7	89.9
29		29.0	30.2	4.29		770.4	78.36	822.1	83.8				
30		30.0	31.2	4.59		824.4	84.1	879.7	89.7				
31		31.0	32.2	4.90		880.3	89.8	939.4	95.8				
(31.8)	1-1/4	31.8	33.1		3.51					210.9	105.4	225.0	112.5
32		32.0	33.3	5.23		938.0	95.6	1,000.9	102.1				



Tambur - Halat Çapı Oranları Drum Rope Diameter Ratio		
Const.	Optimized D/d	Min. D/d
9x7	72	42
19x7, 10x7	58	34
6x19 S	50	34
6x21 F	45	30
6x28 W	48	30
30x7	41	27
6x25 F	39	26
6x31 W	39	26
6x37	39	26
6x30 W	35	23
6x41 W	30	21
6x19 E	41	27
6x25 F (flex)	32	21

Hyfil K8

Hyfil K8'in Özellikleri

Benefits of Hyfil 8:

1. Hyfil KB kompakt bir demetler ile 2' arasında plastik dışıya sahiptir.
Hyfil KB has a plastic layer between the core and the compacted outer strands.
2. Hyfil KB yüksek kopma kuvvetine ve yapısal sağlamlığa sahiptir.
Hyfil KB has a high breaking load and good structural stability.
3. Hyfil KB galvaniz veya sıfır tellerden yapılmış olup tam olarak yağlanmıştır.
Hyfil KB is fully lubricated and made out of galvanized/ungalvanized wires.



Değiştirme Kriteri (Discard Criteria)

Diş Damarlarda Yüke Binen Tel Kırıkları Sayısı
(The number of break in the load bearing wires in outer strands)

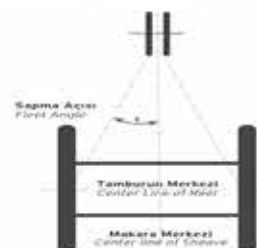
Uzunluk Length	Regular Ray		Langs Ray	
	6Xd	30Xd	6Xd	30Xd
Discard	18	35	9	18

Hyfil K6'nın Dizaynı

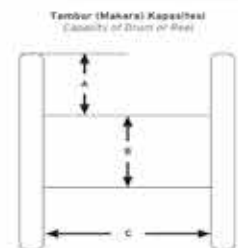
(The basic designed data of Hyfil K8)

mm (Size)	12-42	42-78	42-54
Toplam Tel Adedi (Total Number of Wire)	341	381	421
Dış Damarlarda Yüke Binen Toplam Tel Sayısı (Number of Load-bearing Wires in Outer Strands)	208	248	288
Dış Damarlarda Bulunan Dış Tel Sayısı (Number of Outer Wires in Outer Strands)	80	96	112
Ortalama Dolgu Faktörü (Average Fill Factor)		0.67	

Halat Çapı Wire Diameter		Çap Toleransı Diameter Tolerance		Yaklaşık Birim Ağırlığı Approximate Unit Wt.		Minimum Kopma Kuvveti (Minimum Breaking Force (Fmin, MBF))							
						Metric Unit				Imperial Unit			
		min.	max.			1960 Grade		2160 Grade		1960 Grade		2160 Grade	
mm	inch	mm	mm	kg/m	lb/ft	kN	t(metric)	kN	t(metric)	klb	t(short)	klb	t(short)
12	1/2	12.0	12.5	0.660	0.50	126.7	12.9	135.5	13.8	31.9	15.9	34.1	17.1
(12.7)		12.7	13.2										
13		13.0	13.5										
14	9/16	14.0	14.6	0.899	0.63	172.4	17.6	184.5	18.8	40.4	20.2	43.3	21.6
(14.3)		14.3	14.9										
15		15.0	15.6										
(15.9)	5/8	15.9	16.5	1.03	0.79	197.9	20.02	211.7	21.6	50.6	25.3	54.1	27.1
16		16.0	16.6										
18		18.0	18.7										
19	3/4	19.0	19.8	1.66	1.11	317.2	32.3	339.4	34.6	71.3	35.7	76.3	38.1
(19.1)		19.1	19.9										
20		20.0	20.8										
22	7/8	22.0	22.9	2.22	1.52	425.3	43.4	455.0	46.4	97.4	48.7	104.2	52.1
(22.2)		22.2	23.1										
24		24.0	25.0										
25	1	25.0	26.0	2.87	1.99	548.7	55.9	587.0	59.9	127.3	63.7	136.2	68.1
(25.4)		25.4	26.4										
26		26.0	27.0										
27	1-1/8	27.0	28.1	3.34	2.52	640.0	65.3	684.7	69.8	161.4	80.7	172.7	86.4
28		28.0	29.1										
(28.6)		28.6	29.7										
29		29.0	30.2	3.86		738.3	75.3	789.9	80.5				
30		30.0	31.2	4.13		790.1	80.6	845.3	86.2				



Tayssiré Edition Agé
 Recyclé et durable
 Vivir Tamboor (Chapitre 1) 2000
 Dûe Tamboor (Chapitre 2) 2000



Formül (Formulas)
 $\frac{A}{n} = \frac{C}{n} = \frac{1}{n} \cdot n(A + B) = \dots$ Kapasite (Capacity)

ÇELİK HALAT SAPAN ÇEŞİTLERİ

TEK KOLLU Ç. HALAT SAPAN



G-1



G-2



G-3



G-4



G-5

İKİ KOLLU Ç. HALAT SAPAN



G-6



G-7



G-8



G-9

ÜÇ KOLLU Ç. HALAT SAPAN



G-10



G-11



G-12



G-13

DÖRT KOLLU Ç. HALAT SAPAN



G-14



G-15

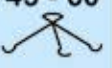


G-16



G-17

KULLANIM ALANLARINA GÖRE EMNİYETLİ ÇALIŞMA GÜÇLERİ

Çelik Halat Çapı	 Kg	 Kg	 Kg	 0 - 45 Kg	 Kg	 45 - 60 Kg	 Kg	 0 - 45 Kg	 45 - 60 Kg
8	800	630	3.150	1.120	900	800	630	1.700	1.250
10	1.250	1.000	5.000	1.800	1.400	1.250	1.000	2.650	1.900
12	1.800	1.500	7.100	2.500	2.000	1.800	1.500	3.750	2.800
14	2.500	2.000	10.000	3.550	2.800	2.500	2.000	5.300	3.750
16	3.350	2.650	13.200	4.500	3.750	3.350	2.650	6.700	5.000
18	4.000	3.350	16.000	5.600	4.500	4.000	3.350	8.500	6.300
20	5.000	4.000	20.000	7.100	5.600	5.000	4.000	10.600	7.500
22	6.300	5.000	25.000	8.500	6.700	6.300	5.000	12.500	9.000
24	7.500	6.000	30.000	10.000	8.000	7.500	6.000	15.000	11.200
26	8.500	6.700	33.500	12.500	9.500	8.500	6.700	18.000	13.200
28	10.000	8.000	40.000	14.000	11.200	10.000	8.000	21.200	15.000
32	13.200	10.000	53.000	18.000	14.000	13.200	10.000	28.000	20.000
36	16.000	13.200	63.000	23.600	18.000	16.000	13.200	35.500	25.000
40	20.000	16.000	80.000	28.000	22.400	20.000	16.000	42.500	30.000
44	25.000	20.000	100.000	35.000	28.000	25.000	20.000	.....	.....
48	30.000	23.600	.....	40.000	33.500	30.000	23.600	.....	.....
52	35.500	28.000	.....	47.500	40.000	35.500	28.000	.....	.....
56	40.000	31.500	.....	.....	.....	.....	.....	.....	.....
60	45.000	37.500	.....	.....	.....	.....	.....	.....	.....

6 X 36 + L.ÖZ (TS 1918 / 14)	mm	kg/m	MIN K.Y. M.B.L./kg
12	0,547	8.550	
13	0,643	10.040	
14	0,745	11.600	
16	0,973	15.200	
18	1,230	19.200	
19	1,370	21.500	
20	1,520	23.800	
22	1,840	28.700	
24	2,190	34.200	
26	2,570	40.100	
28	2,980	46.600	
30	3,430	53.700	
32	3,890	60.800	
36	4,930	77.000	
40	6,080	95.000	
44	7,360	115.000	
48	8,760	137.000	
52	10,300	161.000	
56	11,900	186.000	

6 X 36 + Ç.ÖZ (TS 1918 / 14)	kg/m	MIN K.Y. M.B.L./kg
0,602	9.230	
0,707	10.800	
0,820	12.600	
1,070	16.400	
1,350	20.800	
1,510	23.200	
1,670	25.600	
2,020	31.000	
2,410	36.900	
2,830	43.300	
3,280	50.300	
3,780	58.000	
4,280	65.700	
5,420	83.100	
6,690	103.000	
8,100	124.000	
9,640	148.000	
11,300	173.000	
13,100	201.000	

18 X 7 (TS 1918 / 14)	mm	kg/m	MIN K.Y. M.B.L./kg
08	0,257	3.780	
10	0,402	5.910	
12	0,579	8.500	
14	0,788	11.600	
16	1,030	15.100	
18	1,300	19.100	
19	1,450	21.350	
20	1,610	23.600	
22	1,950	28.600	
24	2,310	34.000	
26	2,720	39.900	
28	3.150	46.300	

U4 X 39 SES GALV.	mm	kg/m	MIN K.Y. M.B.L./kg
22	1,95	33.500	
26	2,72	46.800	
28	3,15	54.300	
32	4,12	70.900	
33,5	4,51	77.700	



BİR KOLLU ZİNCİR



GM-1



GM-2



GM-3



GM-4

BİR KOLLU SONSUZ ZİNCİR SAPANLAR



GM-17



GM-18

İKİ KOLLU ZİNCİR SAPANLAR



GM-5



GM-6



GM-7



GM-8

İKİ KOLLU SONSUZ ZİNCİR SAPANLAR



GM-19



GM-20

ÜÇ KOLLU ZİNCİR SAPANLAR



GM-9



GM-10



GM-11



GM-12

SONSUZ ZİNCİRLİ SAPAN



GM-21

BİR KOLLU ZİNCİR SAPANLAR



GM-13



GM-14



GM-15



GM-16

HALATLI ZİNCİR SAPANLARI



GM-22

KULLANIM ALANLARINA GÖRE EMNİYETLİ ÇALIŞMA GÜÇLERİ

Safety factor Coefficient de sécurité Factor de seguridad		1-leg chains Élingues à 1 brin Cadenas de 1 ramal		2-leg chains Élingues à 2 brins Cadenas de 2 ramales				3- and 4-leg chains Élingues à 3 et 4 brins Cadenas de 3 y 4 ramales		Endless chain sling Anneaux de suspension Argolas de suspensão	Loop chains Chaines de bouclage Cadenas cerradas					
4																
Angle of inclination Angle d'écartement Ángulo de inclinación		-	-	up to 45° jusqu'à 45° hasta 45°		45°-60°		up to 45° jusqu'à 45° hasta 45°		45°-60°		-	up to 45° jusqu'à 45° hasta 45°	0°-45°		
Load factor Facteur de charge Factor de carga		1	0,8	1,4		1		1,12		0,8		2,1	1,5	1,8	1,4	2,1
Code	d	Load capacity / Charge maximale d'utilisation / Capacidad de carga (kg)														
WIN 5	5	1000	800	1400	1000	1120	800	2000	1500	1600	1400	2000				
Ni 5 G8	5	800	640	1.120	800	900	640	1.600	1.180	1.250	1.120	1.600				
WIN 6	6	1.400	1.120	2.000	1.400	1.600	1.120	3.000	2.120	2.240	2.000	3.000				
Ni 6 G8	6	1.120	900	1.600	1.120	1.250	900	2.360	1.700	1.800	1.600	2.360				
WIN 7	7	1.900	1.500	2.650	1.900	2.120	1.500	4.000	2.800	3.000	2.650	4.000				
Ni 7 G8	7	1.500	1.200	2.120	1.500	1.700	1.200	3.150	2.240	2.500	2.120	3.150				
WIN 8	8	2.500	2.000	3.550	2.500	2.800	2.000	5.300	3.750	4.000	3.550	5.300				
Ni 8 G8	8	2.000	1.600	2.800	2.000	2.240	1.600	4.250	3.000	3.150	2.800	4.250				
WIN 10	10	4.000	3.150	5.600	4.000	4.250	3.150	8.000	6.000	6.300	5.600	8.000				
Ni 10 G8	10	3.150	2.500	4.250	3.150	3.550	2.500	6.700	4.750	5.000	4.250	6.700				
WIN 13	13	6.700	5.300	9.500	6.700	7.500	5.300	14.000	10.000	10.600	9.500	14.000				
Ni 13 G8	13	5.300	4.250	7.500	5.300	5.900	4.250	11.200	8.000	8.500	7.500	11.200				
WIN 16	16	10.000	8.000	14.000	10.000	11.200	8.000	21.200	15.000	16.000	14.000	21.200				
Ni 16 G8	16	8.000	6.300	11.200	8.000	9.000	6.300	17.000	11.800	12.500	11.200	17.000				

Geleneksel çözüm



15 komponent



7 komponent



4 komponent

GrabiQ



sadece 3 komponent



sadece 1 komponent



sadece 1 komponent



GM-23



GM-24



GM-25



GM-26



ZGK-1



ZGK-2



ZGK-3



ZGK-4



ZGK-5



ZGK-6



ZGK-7



ZGK-8



ZGK-9



ZGK-10



ZGK-11



ZGK-12



ZGK-13



ZGK-14



ZGK-15



ECO 103



ECO 104



ST 07



ST 07BS-05



ST 11-TV1



ST 0342



ST CMF11



ST F003



ST GC11



STplus 11BS-07BE



ZGM-1



ZGM-1



ZGM-1



STplus TV3



STplus TV4-LXJ



İŞ-1



İŞ-2



İŞ-3



İŞ-6



İŞ-7



İŞ-8



İŞ-9



İŞ-10



İŞ-11



İŞ-12



İŞ-13



İŞ-14

POLYESTER SAPANLARIN EMNİYETLİ ÇALIŞMA YÜKLERİ

Bağlama Şekli Taşıma Gücü		Tek Sapanla					Çift Sapanla			
		Düz Kaldırma	Boğma	7' ye Kadar	45' e Kadar	45 - 60 Üzeri	Düz 45' e Kadar	Boğma 45' e Kadar	Düz 45 - 60 Üzeri	Boğma 45 - 60 Üzeri
		1,0	0,8	2,0	1,4	1,0	1,4	1,12	1,0	0,8
1000 Kg	Mor	1000	800	2000	1400	1000	1400	1120	1000	1000
2000 Kg	Yeşil	2000	1600	4000	2800	2000	2800	2240	2000	1600
3000 Kg	Sarı	3000	2400	6000	4200	3000	4200	3360	3000	2400
4000 Kg	Gri	4000	3200	8000	5600	4000	5600	4480	4000	3200
5000 Kg	Kırmızı	5000	4000	10000	7000	5000	7000	5600	5000	4000
6000 Kg	Kahve	6000	4800	12000	8400	6000	8400	6720	6000	4800
8000 Kg	Mavi	8000	6400	16000	11200	8000	11200	8960	8000	6400
10000 Kg	Turuncu	10000	8000	20000	14000	10000	14000	11200	10000	8000



GSM-1



GSM-2



GSM-3



GSM-4



GSM-5

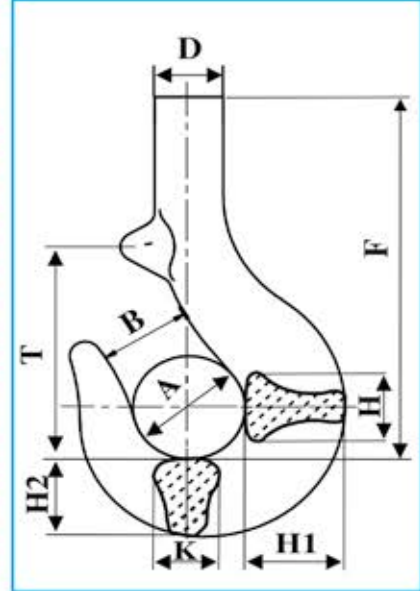


GSM-6

Strength class	Drive group ¹⁾										Strength class
M	Hooks used in a drive group lower than 1B _m are not included here.				1B _m	1A _m	2 _m	3 _m	4 _m	5 _m	M
P					1B _m	1A _m	2 _m	3 _m	4 _m	5 _m	P
S					1B _m	1A _m	2 _m	3 _m	4 _m	5 _m	S
T					1B _m	1A _m	2 _m	3 _m	4 _m	5 _m	T
V	1B _m	1A _m	2 _m	3 _m	4 _m	—	—	—	—	—	V
Hook number	Lifting capacity, in kg										Hook number
006	320	250	200	160	125	100	—	—	—	—	006
010	500	400	320	250	200	160	125	100	—	—	010
012	630	500	400	320	250	200	160	125	100	—	012
020	1 000	800	630	500	400	320	250	200	160	125	020
025	1 250	1 000	800	630	500	400	320	250	200	160	025
04	2 000	1 600	1 250	1 000	800	630	500	400	320	250	04
05	2 500	2 000	1 600	1 250	1 000	800	630	500	400	320	05
08	4 000	3 200	2 500	2 000	1 600	1 250	1 000	800	630	500	08
1	5 000	4 000	3 200	2 500	2 000	1 600	1 250	1 000	800	630	1
1.6	8 000	6 300	5 000	4 000	3 200	2 500	2 000	1 600	1 250	1 000	1.6
2.5	12 500	10 000	8 000	6 300	5 000	4 000	3 200	2 500	2 000	1 600	2.5
4	20 000	16 000	12 500	10 000	8 000	6 300	5 000	4 000	3 200	2 500	4
5	25 000	20 000	16 000	12 500	10 000	8 000	6 300	5 000	4 000	3 200	5
6	32 000	25 000	20 000	16 000	12 500	10 000	8 000	6 300	5 000	4 000	6
8	40 000	32 000	25 000	20 000	16 000	12 500	10 000	8 000	6 300	5 000	8
10	50 000	40 000	32 000	25 000	20 000	16 000	12 500	10 000	8 000	6 300	10
12	63 000	50 000	40 000	32 000	25 000	20 000	16 000	12 500	10 000	8 000	12
16	80 000	63 000	50 000	40 000	32 000	25 000	20 000	16 000	12 500	10 000	16

Shank Hook DIN GM 15401

Nr	Dimensions									Weight Kg/Pcs
	A	B	D	F	H	H1	H2	K	T	
05	42	34	25	172	30	38	31	26	95	1,40
08	48	38	30	191	37	44	37	32	103	2,30
1	50	40	32	206	41	48	40	35	108	2,60
1.6	56	45	36	233	46	56	48	40	119	4,32
2.5	63	50	42	263	56	67	58	48	135	6,95
4	71	56	48	297	65	80	67	54	152	9,90
5	80	63	55	332	73	90	75	62	170	12,30
6	91	72	62	390	80	100	86	67	195	19,20
8	105	85	75	426	92	118	95	80	219	35,10
10	120	93	77	490	105	125	110	90	225	39,00
12	135	112	95	560	117	147	118	102	253	75,00
16	145	114	111	600	130	168	132	118	290	93,00
20	170	130	120	680	145	188	150	125	340	120,00
25	185	145	130	750	165	205	170	140	370	150,00
32	200	170	136	830	180	240	190	160	420	200,00
40	220	180	155	930	200	250	215	170	440	310,00
50	250	210	175	1000	224	280	236	190	480	430,00



GM 319



GM 15412



GM 15402



GM 210



GM 209



GM 2130



GM 322



GM 701



GM 320



GM 705 GM 704 GM 703 GM 702



GM 1480 GM 1482 GM 1478



GM 422



GM LSK



GM 580



GM 11422



GM 14420-1



GM 14420-2



GM 14420 S



GSK-1



GSK-2



GSK-3



GSK-4



GSK-5



GSK-6



GKTM-1



GKTM-2



GKTM-3



GKTM-4



GKTM-5



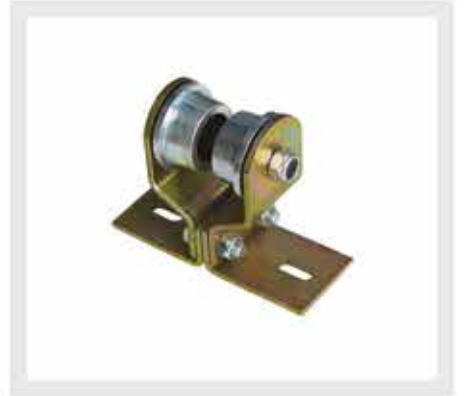
GKTM-6



GKTM-7



GKTM-8



GKTM-9



GKTM-10



GKTM-11



GKTM-12



GKTM-13



GKTM-14



GKTM-15



GKTM-16



GKTM-17



GKTM-18



GKTM-19



GKTM-20



GKTM-21



GKTM-23



GKTM-24



GKTM-25



GKTM-26



GKTM-27



GKTM-28



GKTM-29



GKTM-30



GKTM-31



GKTM-32



GKTM-33



GKTM-34



GMK-1



GMK-2



GMK-3



GMK-4



GMK-5



GMK-6



GMK-7



GMK-8



GMK-9



GMK-10



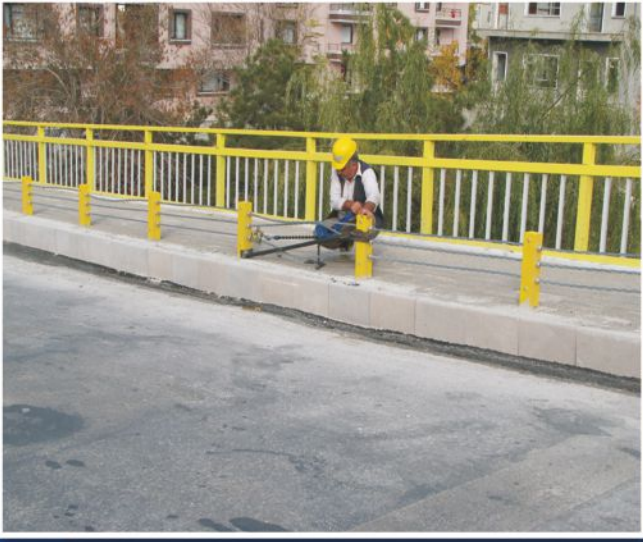
GMK-11



GMK-12



MEVLANA KÜLTÜR MERKEZİNİN BASIN TRÜBÜNÜ HALAT SİSTEMLERİ



KONYA AHMET ÖKSÜZ ÜSTGEÇİDİ, AYDINLIK EVLER ALTGEÇİDİ ve MARANGOZLAR ALTGEÇİTLERİNİN BARIYER HALAT SİSTEMLERİ



KONYA TÜYAP FUAR ALANININ 45 mm. ÖRGÜLÜ ÇELİK HALAT SAPAN SİSTEMLERİ



KULE VİNCİ, TELESKOPİK ve HİYAP VİNÇLERİN, MAKARA ve HALAT SİSTEMLERİ



SONDAJ MAKİNALARININ HALAT SİSTEMLERİNİ ve EKİPMANLARI



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