



Cliynder Equipment



SEKTÖRDE TAMAMLAYICI **GÜÇ**
COMPLEMENT **POWER** in the SECTOR

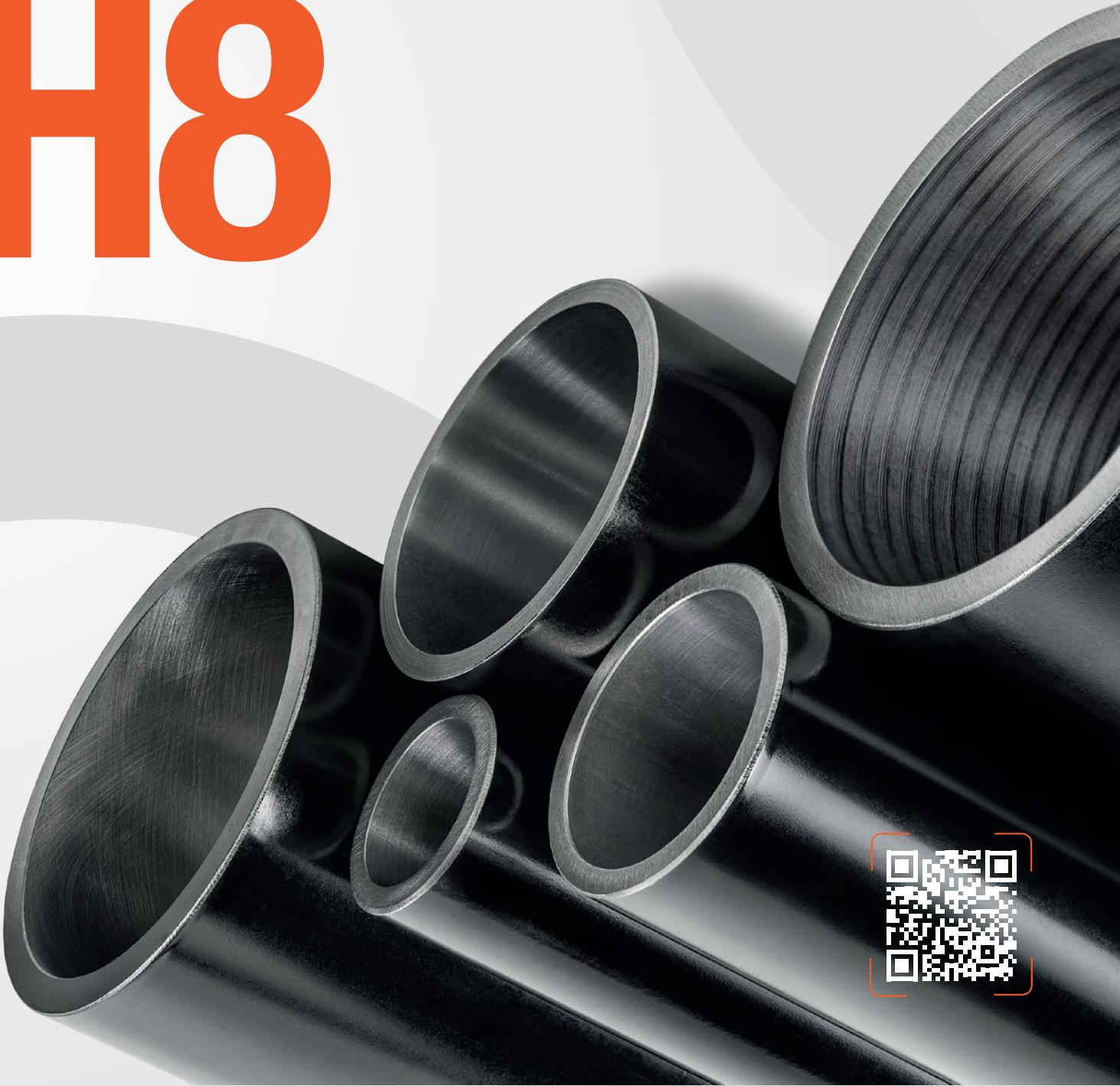
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**H8 HONLANMIŞ
BORULAR**

**H8 HONED
TUBES**

H8



SKIVED VE RULO PARLAKLANMIŞ SİLİNDİR BORULARI H8 SKIVED AND ROLLER BURNISHED CYLINDER TUBES H8

H8

TECHNICAL CHARACTERISTICS Caratteristiche tecniche

GRADE
SEVİYE

E355

TREATMENT TEDAVİ

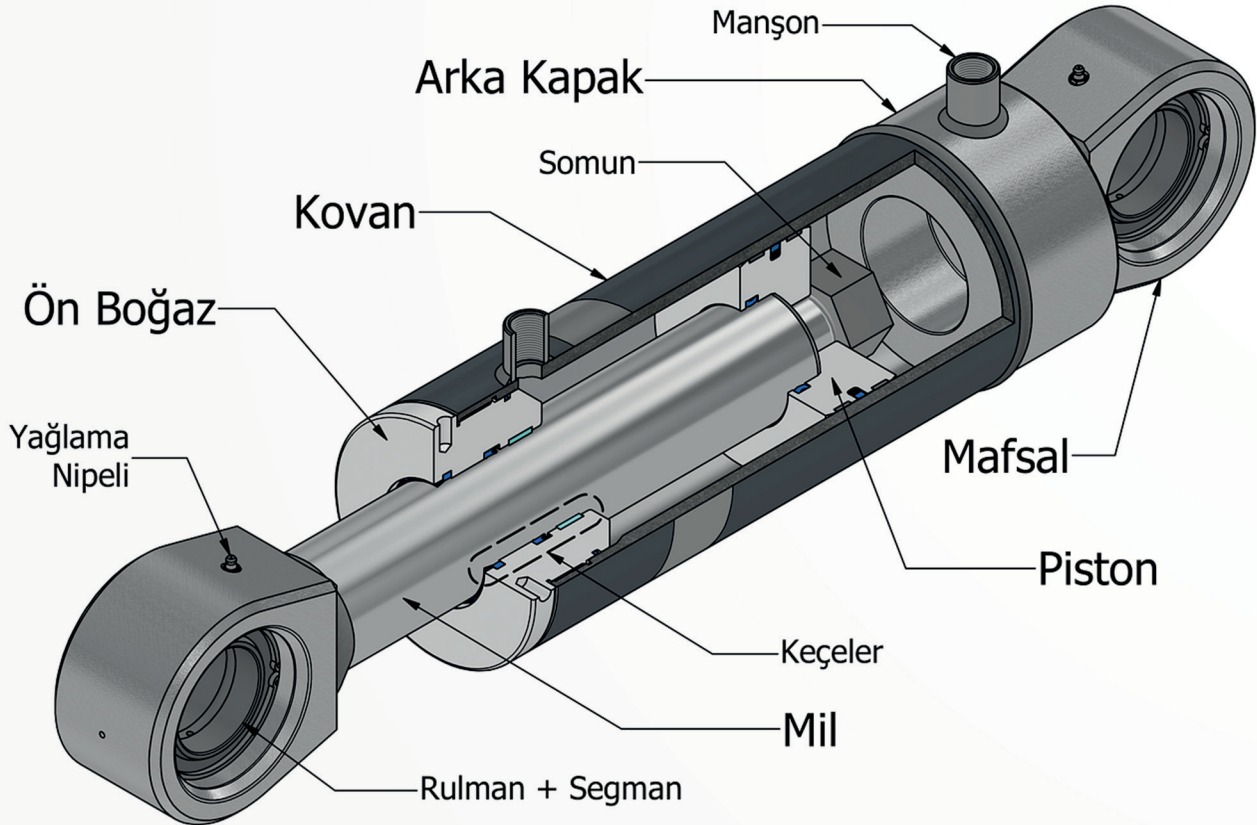
+SR (BKS)

SURFACE FINISHING
YÜZEY İŞLEME

- Outside diameter: smooth as drawn (EN 10305-2)
Diametro esterna liscio e trafilato sec. EN 10305-2
- Inside diameter: skived and roller-burnished H8 Ra max 0.3 μ
Diametro interno: pelati e rullati H8 Ra max 0,3 μ

DIMENSIONAL TOLERANCES
BOYUT TOLERANSLARI

- Insidel diameter: ISO H8, min. 40 mm - max. 220 mm
Diametro interna: ISO H8, min. 40 mm - max. 220 mm



İç / Dış Çap (mm)	Tolerans (ISO)	Malzeme	Ağırlık (kg/m)
40 / 50	H8	St 52.3	5,55
50 / 60	H8	St 52.3	6,78
50 / 65	H8	St 52.3	10,63
55 / 65	H8	St 52.3	7,39
60 / 70	H8	St 52.3	8,01
60 / 75	H8	St 52.3	12,48
60 / 80	H8	St 52.3	17,25
63 / 73	H8	St 52.3	8,38
63 / 75	H8	St 52.3	10,20
63 / 78	H8	St 52.3	13,03
65 / 80	H8	St 52.3	13,40
65 / 85	H8	St 52.3	18,49
70 / 80	H8	St 52.3	9,24
70 / 85	H8	St 52.3	14,33
70 / 90	H8	St 52.3	19,72
75 / 85	H8	St 52.3	9,86
75 / 90	H8	St 52.3	15,25
75 / 95	H8	St 52.3	20,95
80 / 90	H8	St 52.3	10,47
80 / 95	H8	St 52.3	16,18
80 / 100	H8	St 52.3	22,18
85 / 100	H8	St 52.3	17,10
90 / 105	H8	St 52.3	18,02
90 / 110	H8	St 52.3	24,65
95 / 110	H8	St 52.3	18,95
100 / 120	H8	St 52.3	27,11
100 / 125	H8	St 52.3	34,66
100 / 130	H8	St 52.3	42,52
110 / 125	H8	St 52.3	21,72
110 / 130	H8	St 52.3	29,58
110 / 135	H8	St 52.3	37,74
110 / 140	H8	St 52.3	46,22
115 / 130	H8	St 52.3	22,64
115 / 135	H8	St 52.3	30,81
115 / 140	H8	St 52.3	39,28
120 / 135	H8	St 52.3	23,57
120 / 140	H8	St 52.3	32,04
120 / 145	H8	St 52.3	40,82
120 / 150	H8	St 52.3	41,25
125 / 145	H8	St 52.3	33,27

İç / Dış Çap (mm)	Tolerans (ISO)	Malzeme	Ağırlık (kg/m)
125 / 150	H8	St 52.3	42,36
130 / 150	H8	St 52.3	34,51
130 / 160	H8	St 52.3	53,61
140 / 160	H8	St 52.3	36,97
140 / 165	H8	St 52.3	46,98
140 / 170	H8	St 52.3	57,30
140 / 175	H8	St 52.3	67,93
145 / 170	H8	St 52.3	48,52
145 / 175	H8	St 52.3	59,15
150 / 170	H8	St 52.3	39,44
150 / 180	H8	St 52.3	61,00
160 / 180	H8	St 52.3	53,15
160 / 185	H8	St 52.3	53,14
160 / 190	H8	St 52.3	64,70
165 / 195	H8	St 52.3	66,55
170 / 200	H8	St 52.3	68,4
180 / 200	H8	St 52.3	48,63
180 / 210	H8	St 52.3	72,09
200 / 220	H8	St 52.3	51,76
200 / 225	H8	St 52.3	65,47
200 / 230	H8	St 52.3	79,49
200 / 245	H8	St 52.3	123,39
220 / 250	H8	St 52.3	86,88
220 / 270	H8	St 52.3	150,97
250 / 300	H8	St 52.3	169,46

H9 HONLAMAYA HAZIR BORULAR

H9 HONING READY PIPES





KULLANIMA HAZIR SİLİNDİR BORULARI H9

READY-TO-USE CYLINDER TUBES H9

TECHNICAL CHARACTERISTICS / TEKNİK ÖZELLİKLER

GRADE KALİTE	E355
TREATMENT	+C
SURFACE FINISHING YÜZEY İŞLEME	• Outside diameter smooth as drawn (EN 10305-2) • Inside diameter roughness Ra < 0.80 µm (average 0.50÷0.60) µm
DIMENSIONAL TOLERANCES BOYUT TOLERANSLARI	• Outside diameter 50% EN 10305-2 • Inside diameter ISO H9 (ISO H10 for thickness < 4 mm) • Eccentricity < 3% • Straightness 1:1000 mm

DELIVERY CONDITIONS - Tedarik koşulları

Commercial lengths 5000-8000 mm, custom lengths upon request Ticari uzunluklar 5000-8000 mm, özel uzunluklar talep üzerine

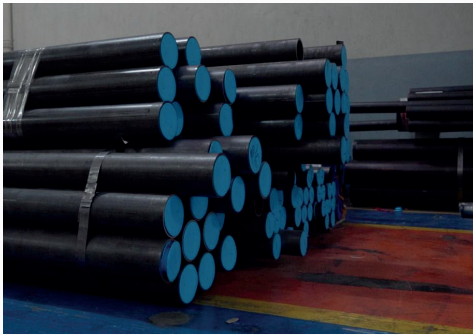
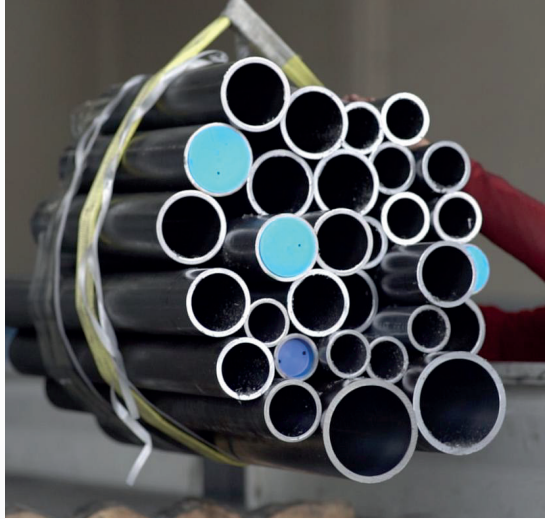
Surface protection Yüzey koruyucu

Marking: MM E355 OD x ID EN 10305-2 +C - Heath

İşaretleme: MM E355 OD x ID EN 10305-2 +C - Heath

Çap / Diameter (mm)	Tolerans / Tolerance (ISO)		Malzeme / Material (DIN)
32 / 40	H9	E355 +C	3,54
40 / 50	H9	E355 +C	5,54
45 / 55	H9	E355 +C	6,16
50 / 60	H9	E355 +C	6,77
60 / 70	H9	E355 +C	8,01
63 / 75	H9	E355 +C	10,20
63 / 78	H9	E355 +C	13,03
65 / 75	H9	E355 +C	8,62
70 / 80	H9	E355 +C	9,24
70 / 85	H9	E355 +C	14,33
80 / 90	H9	E355 +C	10,47
80 / 95	H9	E355 +C	16,17
90 / 105	H9	E355 +C	18,02
100 / 115	H9	E355 +C	19,87
110 / 125	H9	E355 +C	21,72
120 / 135	H9	E355 +C	23,57
125 / 140	H9	E355 +C	24,49

SEKTÖRDE TAMAMLAYICI **GÜÇ** COMPLEMENT **POWER** in the SECTOR



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KROM KAPLAMALI ÇELİK ÇUBUKLAR

CHROME PLATED
STEEL BARS



CB



Bir uygulama için doğru ürünü seçerken dikkate alınması gereken bazı hususlar vardır. Hemtemel malzemin hemde bitmiş yüzeyin özellikleri, optimum çözümün sağlanmasında hayati öneme sahiptir. Doğru kararı vermek için cevaplanması gereken sorular şunlardır.

In choosing the right product for an application, there are certain aspects to be taken into consideration. Both the properties of the base material and those of the finished surface are of crucial importance in delivering the optimal solution. The questions to be answered in making the correct decision are:

- Uygulamanın işlevine ve teknik gereksinimlerine en uygun ürün nedir? Maliyet açısından en uygun ürün nedir?
What is the product that best fits the application's function and its technical requirements? What is the most effective cost-wise solution?
- Etkili çözüm nedir?
Which is the product with the less long term impact on the environment?

ÇELİK KALİTELERİ MUHABİRLERİ / STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
C45E	1.1191	Ck45	080M46	C45	S45C	45	1045
C35E	1.1181	Ck35	080M36	C35	S35C	35	1035
-	1.5217	20MnV6	55M	-	-	-	A572
38MnVS6	1.1303	38MnSiVS5	-	-	-	-	(15V41) *
46MnVS6	1.1304	44MnSiVS6	-	-	-	-	(10V45) *
42CrMo4	1.7225	42CrMo4	708M40	42CrMo4	SCM440(H)	40ChFA	4140

* Equivalent

KİMYASAL BİRLEŞİMİ - AĞIRLIK OLARAK % OLARAK / CHEMICAL COMPOSITION - IN % BY WEIGHT

Steel grade	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	N
C45E *	0.42 ÷ 0.50	0.10 ÷ 0.40	0.50 ÷ 0.80	max. 0.025	max. 0.035	max. 0.40	max. 0.10	max. 0.40	max. 0.30	-	-
C35E *	0.32 ÷ 0.39	0.10 ÷ 0.40	0.50 ÷ 0.80	max. 0.025	max. 0.035	-	max. 0.10	max. 0.40	max. 0.30	-	-
20MnV6	0.16 ÷ 0.22	0.10 ÷ 0.50	1.30 ÷ 1.70	max. 0.035	max. 0.035	max. 0.40	-	-	-	0.08 ÷ 0.20	-
38MnVS6	0.34 ÷ 0.41	0.15 ÷ 0.80	1.20 ÷ 1.60	max. 0.025	0.020 ÷ 0.060	max. 0.30	max. 0.08	-	-	0.08 ÷ 0.20	0.010 ÷ 0.020
46MnVS6	0.42 ÷ 0.49	0.15 ÷ 0.80	1.20 ÷ 1.60	max. 0.025	0.020 ÷ 0.060	max. 0.30	max. 0.08	-	-	0.08 ÷ 0.20	0.010 ÷ 0.020
42CrMo4	0.38 ÷ 0.45	0.10 ÷ 0.40	0.60 ÷ 0.90	max. 0.025	max. 0.035	0.90 ÷ 1.20	0.15 ÷ 0.30	-	max. 0.40	-	-

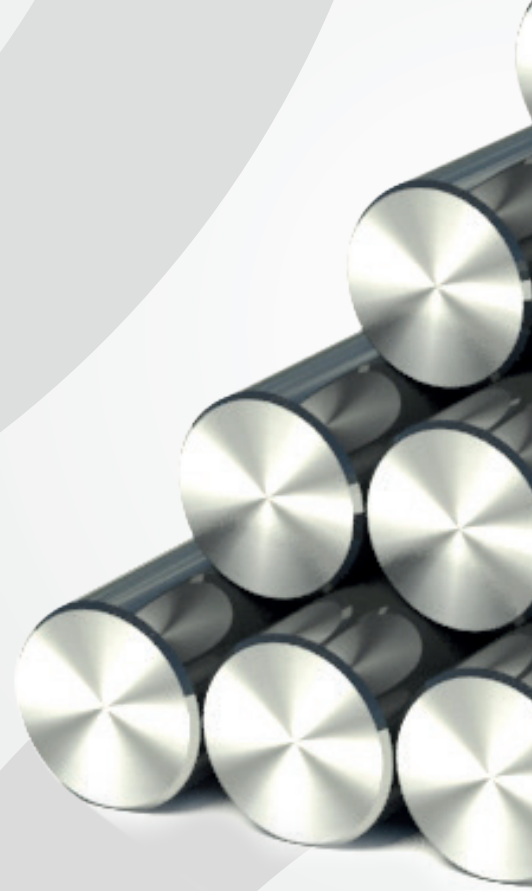
* Cr+Mo+Ni = max. 0.63

KROM KAPLAMALI ÇELİK ÇUBUKLAR / CHROME PLATED STEEL BARS

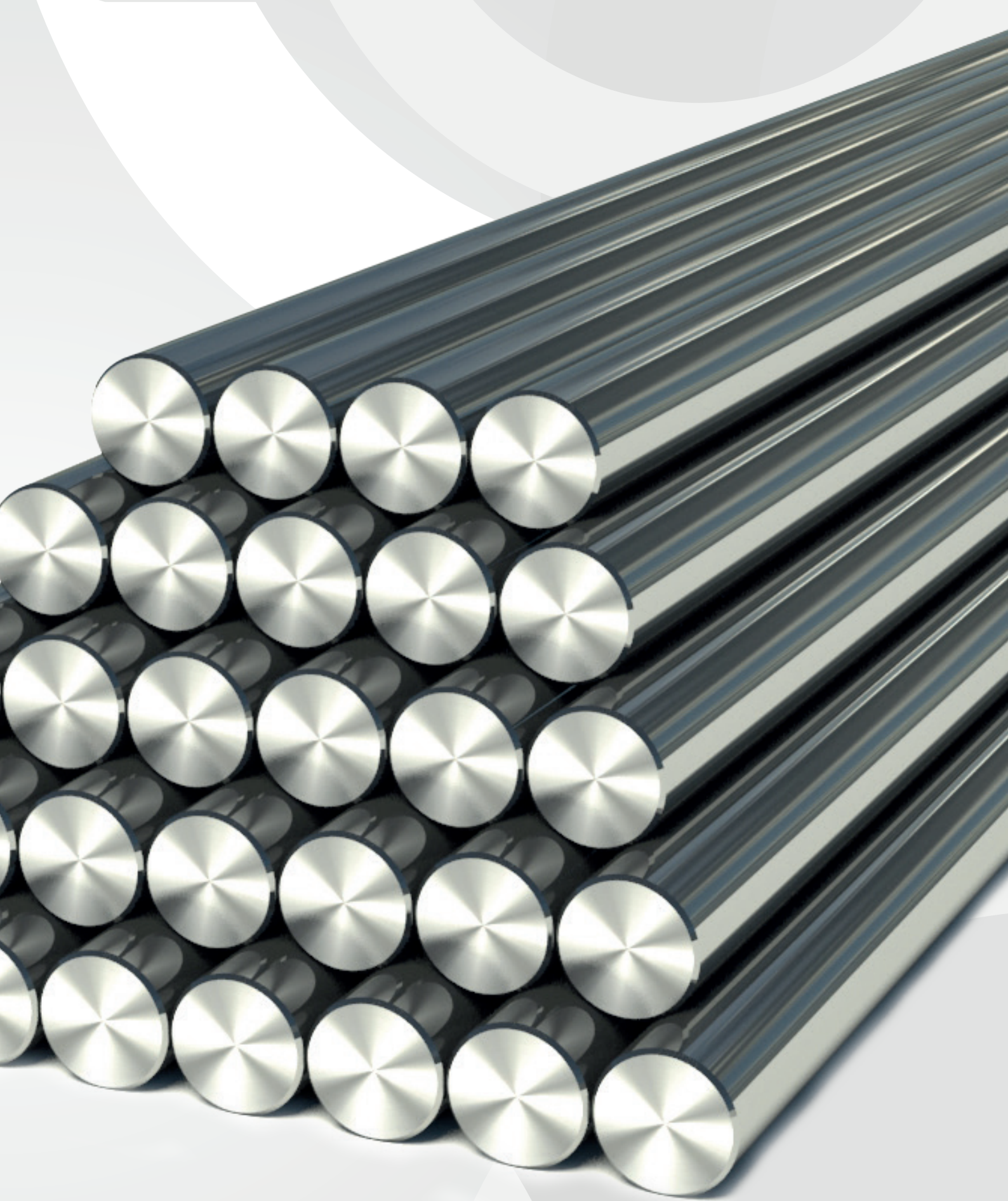
Çap / Diameter (mm)	Tolerans / Tolerance (ISO)	Malzeme / Material (DIN)	Ağırlık / Weight (kg/m)
6	f7	Ck 45	0,22
8	f7	Ck 45	0,39
10	f7	Ck 45	0,62
12	f7	Ck 45	0,89
14	f7	Ck 45	1,20
15	f7	Ck 45	1,38
16	f7	Ck 45	1,58
18	f7	Ck 45	2,00
20	f7	Ck 45	2,46
22	f7	Ck 45	2,98
25	f7	Ck 45	3,85
28	f7	Ck 45	4,93
30	f7	Ck 45	5,55
32	f7	Ck 45	6,31
35	f7	Ck 45	7,55
36	f7	Ck 45	7,99
38	f7	Ck 45	8,90
40	f7	Ck 45	9,86
45	f7	Ck 45	12,48
50	f7	Ck 45	15,41
50,8	f7	Ck 45	15,90
55	f7	Ck 45	18,64
56	f7	Ck 45	19,32
60	f7	Ck 45	22,18
63	f7	Ck 45	24,46
63,5	f7	Ck 45	24,84
65	f7	Ck 45	26,03
70	f7	Ck 45	30,19
75	f7	Ck 45	34,66
80	f7	Ck 45	39,44
85	f7	Ck 45	44,52
90	f7	Ck 45	49,91
95	f7	Ck 45	55,61
100	f7	Ck 45	61,62
105	f7	Ck 45	67,94
110	f7	Ck 45	74,56
115	f7	Ck 45	81,49
120	f7	Ck 45	88,73
125	f7	Ck 45	96,28
130	f7	Ck 45	104,14
140	f7	Ck 45	120,78
150	f7	Ck 45	138,65
160	f7	Ck 45	157,75

İNDİKSİYON SERTLEŞTİRİLMİŞ VE KROM KAPLAMALI ÇELİK ÇUBUKLAR

INDUCTION
HARDENED AND
CHROME PLATED
STEEL **B**ARS



ICB



Bir uygulama için doğru ürünü seçerken dikkate alınması gereken bazı hususlar vardır. Hemtemel malzemin hemde bitmiş yüzeyin özellikleri, optimum çözümün sağlanmasında hayati öneme sahiptir. Doğru kararı vermek için cevaplanması gereken sorular şunlardır.

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What is the product that best fits the application's function and its technical requirements?
- Etkili çözüm nedir?
What is the most effective cost-wise solution?
- Çevreye uzun vadede daha az etkisi olan ürün hangisidir?
Which is the product with the less long term impact on the environment?

ÇELİK KALİTELERİ MUHABİRLERİ / STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
C45E	1.1191	Ck45	080M46	C45	S45C	45	1045
C35E	1.1181	Ck35	080M36	C35	S35C	35	1035
-	1.5217	20MnV6	55M	-	-	-	A572
38MnVS6	1.1303	38MnSiVS5	-	-	-	-	(15V41) *
46MnVS6	1.1304	44MnSiVS6	-	-	-	-	(10V45) *
42CrMo4	1.7225	42CrMo4	708M40	42CrMo4	SCM440(H)	40ChFA	4140

* Equivalent

KİMYASAL BİRLEŞİMİ - AĞIRLIK OLARAK % OLARAK / CHEMICAL COMPOSITION -IN % BY WEIGHT

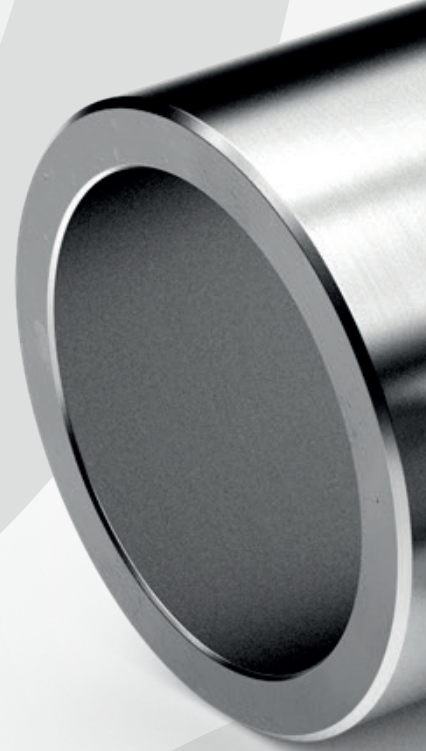
Steel grade	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	N
C45E *	0.42 ÷ 0.50	0.10 ÷ 0.40	0.50 ÷ 0.80	max. 0.025	max. 0.035	max. 0.40	max. 0.10	max. 0.40	max. 0.30	-	-
C35E *	0.32 ÷ 0.39	0.10 ÷ 0.40	0.50 ÷ 0.80	max. 0.025	max. 0.035	max. 0.40	max. 0.10	max. 0.40	max. 0.30	-	-
20MnV6	0.16 ÷ 0.22	0.10 ÷ 0.50	1.30 ÷ 1.70	max. 0.035	max. 0.035	-	-	-	-	0.08 ÷ 0.20	-
38MnVS6	0.34 ÷ 0.41	0.15 ÷ 0.80	1.20 ÷ 1.60	max. 0.025	0.020 ÷ 0.060	max. 0.30	max. 0.08	-	-	0.08 ÷ 0.20	0.010 ÷ 0.020
46MnVS6	0.42 ÷ 0.49	0.15 ÷ 0.80	1.20 ÷ 1.60	max. 0.025	0.020 ÷ 0.060	max. 0.30	max. 0.08	-	-	0.08 ÷ 0.20	0.010 ÷ 0.020
42CrMo4	0.38 ÷ 0.45	0.10 ÷ 0.40	0.60 ÷ 0.90	max. 0.025	max. 0.035	0.90 ÷ 1.20	0.15 ÷ 0.30	-	max. 0.40	-	-

* Cr+Mo+Ni = max. 0.63

Çap / Diameter (mm)	Tolerans / Tolerance (ISO)	Malzeme / Material (DIN)	Ağırlık / Weight (kg/m)
6	f7	Ck 45	0,22
8	f7	Ck 45	0,39
10	f7	Ck 45	0,61
12	f7	Ck 45	0,88
14	f7	Ck 45	1,20
15	f7	Ck 45	1,38
16	f7	Ck 45	1,57
18	f7	Ck 45	2,00
20	f7	Ck 45	2,46
22	f7	Ck 45	2,99
25	f7	Ck 45	3,85
25,4	f7	Ck 45	3,97
28	f7	Ck 45	4,83
30	f7	Ck 45	5,54
32	f7	Ck 45	6,31
35	f7	Ck 45	7,54
36	f7	Ck 45	7,98
38	f7	Ck 45	8,89
40	f7	Ck 45	9,85
45	f7	Ck 45	12,47
50	f7	Ck 45	15,40
50,8	f7	Ck 45	15,90
55	f7	Ck 45	18,61
56	f7	Ck 45	19,32
60	f7	Ck 45	22,18
63	f7	Ck 45	24,45
63,5	f7	Ck 45	24,84
65	f7	Ck 45	26,03
70	f7	Ck 45	30,19
75	f7	Ck 45	34,66
80	f7	Ck 45	39,43
85	f7	Ck 45	44,52
90	f7	Ck 45	49,91
95	f7	Ck 45	55,61
100	f7	Ck 45	61,62
105	f7	Ck 45	67,93
110	f7	Ck 45	74,56
115	f7	Ck 45	81,49
120	f7	Ck 45	88,73
125	f7	Ck 45	96,28
140	f7	Ck 45	120,78

KROM KAPLAMALI BORU ROD

CHROME PLATED PIPE ROD



CT



ÇELİK KALİTELERİ MUHABİRLERİ
STEEL GRADES CORRESPONDENTS

EN	Werkstoff	DIN	B.S.	UNI	JIS	GOST	AISI / SAE / ASTM
E355	1.0580	St52	CFS5	Fe510	STKM19A	St6sp	1524/1024
P460N	1.8905	StE460	55C	FeE460KG	-	18G2AF	-
-	1.5217	20MnV6	55M	-	-	-	A572

KİMYASAL BİRLEŞİMİ - AĞIRLIK OLARAK % OLARAK
CHEMICAL COMPOSITION -IN % BY WEIGHT

Steel grade	C	Si	Mn	P	S	Cr	Mo	Ni	Cu	V	N
E355	max. 0.22	max. 0.55	max. 1.60	max. 0.025	max. 0.025	-	-	-	-	-	-
P460N	max. 0.20	max. 0.60	1.00 ÷ 1.70	max. 0.025	max. 0.020	max. 0.30	max. 0.10	max. 0.80	max. 0.20	max. 0.70	max. 0.020
20MnV6	0.16 ÷ 0.22	0.10 ÷ 0.50	1.30 ÷ 1.70	max. 0.035	max. 0.035	-	-	-	0.08 ÷ 0.20	-	-

*Cr+Mo+Ni = max. 0.63

MECHANICAL PROPERTIES
MEKANİK ÖZELLİKLER

Steel grade	Tensile strength R_m N/mm ²	Yield point $R_{p0.2}$ N/mm ²	Elongation (longitudinal) A_5 %	Impact energy (longitudinal direction) KV_2 J	Hardness *** Brinell N/mm ²	Norm
E355+SR	min. 580	min. 450	min. 10	(min. 27J / -20°C) **	min. 175	EN 10305-1
P460N+N	560 - 730	min. 460 *	min. 19	min. 40J / -20°C	170 - 220	EN 10216-3
20MnV6+N	550 - 800	min. 450	min. 22	min. 27J / -20°C	165 - 240	Technical data according to internal norm

*** The Yield Point value is for information only

SR = stress-relieved, N = normalized

* Wall thickness ≤ 12 mm

** On request

*** The hardness values is for information only

BORU ROD / TUBES ROD

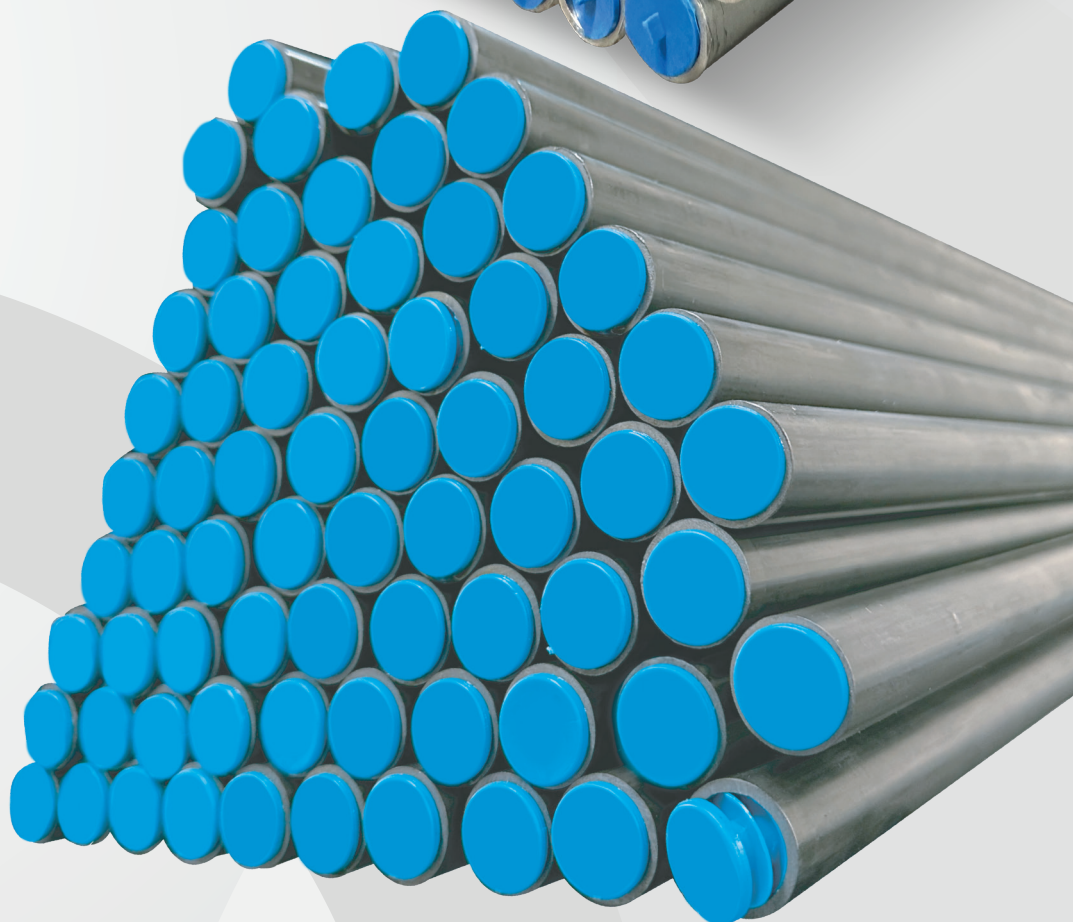
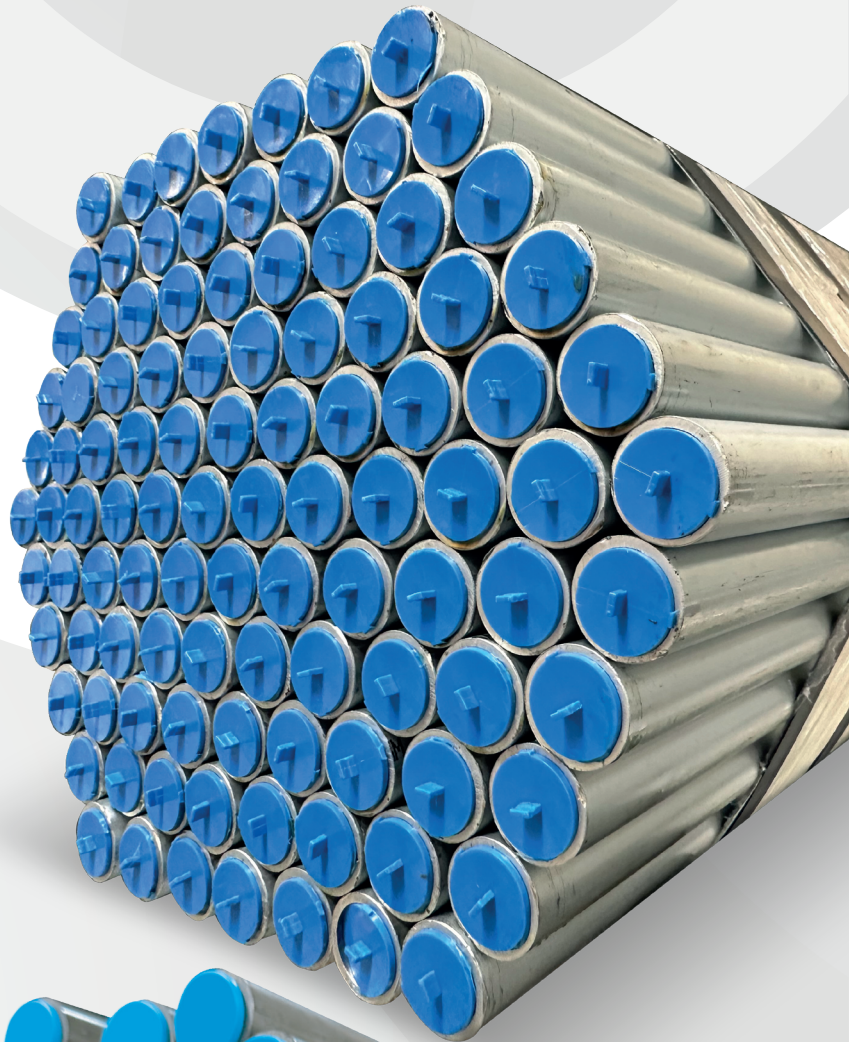
Çap / Diameter (mm)	Tolerans / Tolerance (ISO)	Malzeme / Material (DIN)	Ağırlık / Weight (kg/m)
30/16	f7	St 44	3,97
35/20	f7	St 44	6,00
40/25	f7	St 44	8,62
45/30	f7	St 44	6,93
50/34	f7	St 44	9,85
55/35	f7	St 44	11,09
60/40	f7	St 44	12,32
63/43	f7	St 44	11,97
65/45	f7	St 44	13,55
70/50	f7	St 44	14,78
75/55	f7	St 44	16,02
80/60	f7	St 44	17,25
85/65	f7	St 44	18,49
90/60	f7	St 44	27,73
100/70	f7	St 44	31,43
110/80	f7	St 44	35,12
120/80	f7	St 44	39,50
125/100	f7	St 44	34,66
140/100	f7	St 44	59,16



HİDROLİK TESİSAT BORULARI

HYDRAULIC INSTALLATION PIPES





HİDROLİK TESİSAT BORULARI

HYDRAULIC INSTALLATION PIPES

Welded precision steel tubes – Benteler ZISTA 07 / Kaynaklı hassas çelik borular – Benteler ZISTA 07	
Dimensions / Boyutlar	4.75 x 0.5 mm to 12 x 1.8 mm
Tolerances / Toleranslar	outside diameter acc. to EN 10305-2 wall thickness acc. to EN 10305-3
Lengths / Uzunluklar	6 m other lengths and fixed lengths on request
Delivery conditions Teslim şartları	+N (NBK) +CR1 other delivery conditions on request
Materials Malzemeler	Steel grade (EN) E195 E235 other materials on request
Surface treatment Yüzey işleme	outside galvanized and yellow chromated or outside galvanized and blue passivated (Chromium VI-free acc. to End of Life Vehicle Directive) thin and thick coat passivation on request
Testing / Test yapmak	eddy current testing acc. to EN 10246-3
Certification / Sertifikasyon	2.2 acc. to EN 10204

ZISTAPLEX	
Standard / Standart	EN 10305-1/-2/-3/-4
Dimensions / Boyutlar	4 x 0.5 mm to 42 x 6 mm
Lengths / Uzunluklar	6 m other lengths and fixed lengths on request
Delivery conditions Teslim şartları	+C (BK) +N (NBK) other delivery conditions on request
Materials / Malzemeler	Steel grade (EN)
Surface treatment Yüzey işleme	outside galvanized, additional organic coating, RAL 9005, black other colors on request
continuous marking along the entire tube length on request	
Certification Sertifikasyon	3.1 acc. to EN 10204 other certifications on request



HİDROLİK TESİSAT BORULARI / HYDRAULIC INSTALLATION PIPES

Dış Çap (mm)	Et Kalınlığı (mm)	Maksimum Basınç (bar)	Ağırlık (Kg/mt)
6	1	320	0,12
6	1,5	350	0,14
8	1	290	0,17
8	1,5	441	0,24
10	1	320	0,29
10	1,5	350	0,31
10	2	499	0,39
12	1,5	305	0,39
12	2	320	0,49
15	1,5	290	0,50
15	2	320	0,50
16	2	305	0,69
16	2,5	389	0,83
18	1,5	210	0,61
18	2	305	0,61
20	2	250	0,89
20	2,5	320	1,08
22	2	225	0,99
25	2,5	250	1,39
25	3	250	1,63
28	2	180	1,28
30	3	250	2,00
35	3	215	2,37
38	4	260	3,35
42	4	238	3,75

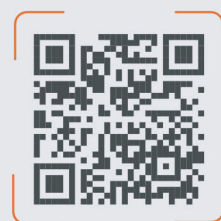
Standart boylar 6mt olup plastik tapalıdır.

Fosfatlı borular DIN 2391/C, Galvanizli borular DIN 1630 normludur.

HİDROLİK SİLİNDİR EKİPMANLARI

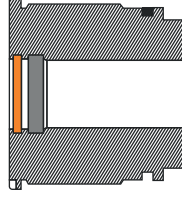
HYDRAULIC CYLINDER EQUIPMENT





HİDROLİK SİLİNDİR DÖKÜM BOĞAZ KEP

HYDRAULIC CIRCUIT PIPES

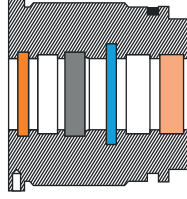


- TOZ KEÇESİ
- NUTRING
- ÖRING



HİDROLİK SİLİNDİR ÇELİK BOĞAZ KEP

HYDRAULIC CYLINDER
STEEL THROAT CAP

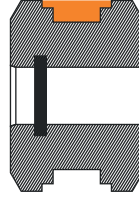


- TOZ KEÇESİ
- NUTRING
- ÖRING
- ÖN BASINÇ RİNGİ
- YATAKLAMA



HİDROLİK SİLİNDİR ÇELİK PİSTON DÜZ TİP

HYDRAULIC CYLINDER
STEEL PISTON STRAIGHT TYPE

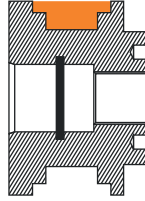


- KOMPACT SET
- ÖRING



HİDROLİK SİLİNDİR ÇELİK PİSTON VİDALI TİP

HYDRAULIC CYLINDER STEEL
PISTON SCREW TYPE

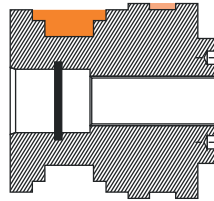


- KOMPACT SET
- ÖRING



HİDROLİK SİLİNDİR ÇELİK PİSTON TEK YATAKLI VİDALI TİP

HYDRAULIC CYLINDER STEEL
PISTON SINGLE BEARING SCREW TYPE

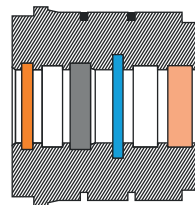


- KOMPACT SET
- ÖRING
- YATAKLAMA



ARAÇ ÜSTÜ MOBİL VİNÇ UZATMA KEPLERİ DIŞTAN SOMUNLU

VEHICLE MOUNTED MOBILE CRANE
EXTENSION CAP OUTSIDE WITH NUT

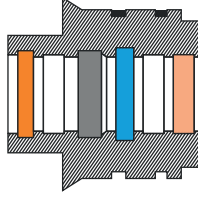


- TOZ KEÇESİ
- NUTRING
- ÖRING
- ÖN BASINÇ RİNGİ
- YATAKLAMA



ARAÇ ÜSTÜ MOBİL VİNÇ ÇAKMA TİP ROT KEPLERİ

VEHICLE MOUNTED MOBILE CRANE
FORGED TYPE TIE CAPS

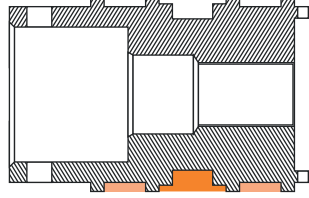


- TOZ KEÇESİ
- NUTRING
- ORING
- ÖN BASINÇ RINGİ
- YATAKLAMA



ARAÇ ÜSTÜ MOBİL VİNÇ UZATMA PİSTONLARI

VEHICLE MOUNTED MOBILE
CRANE EXTENSION PISTONS



- KOMPAKT SET
- YATAKLAMA



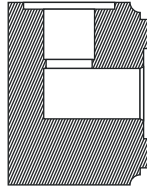
HİDROLİK SİLİNDİR ARKA KAPAK BASİT TİP

HYDRAULIC CYLINDER
BACK COVER SIMPLE TYPE



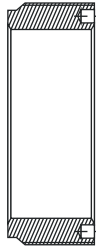
HİDROLİK SİLİNDİR ARKA KAPAK YAĞ GİRİŞLİ

HYDRAULIC CYLINDER
REAR COVER WITH OIL INLET



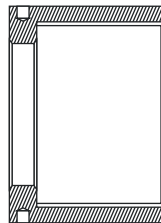
ARAÇ ÜSTÜ MOBİL VİNÇ ÇAKMA KEP SOMUNLARI (İÇTEN)

VEHICLE MOUNTED MOBILE CRANE
FITTING CAP NUTS (SINCERE)



ARAÇ ÜSTÜ MOBİL VİNÇ ROT KEPİ SOMUNLARI (DIŞTAN)

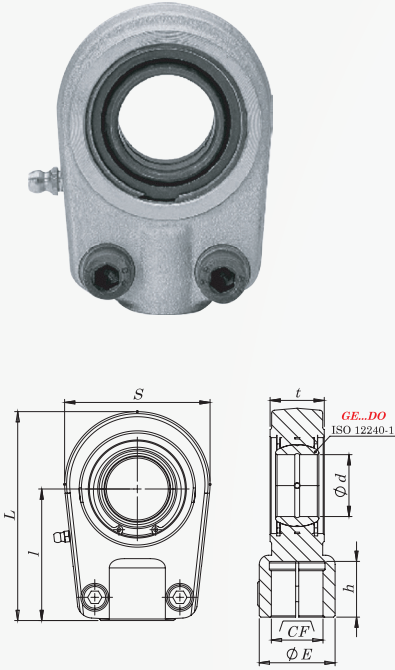
VEHICLE MOUNTED MOBILE
CRANE ROD CAP NUTS (OUTSIDE)



ROT MAFSALLARI

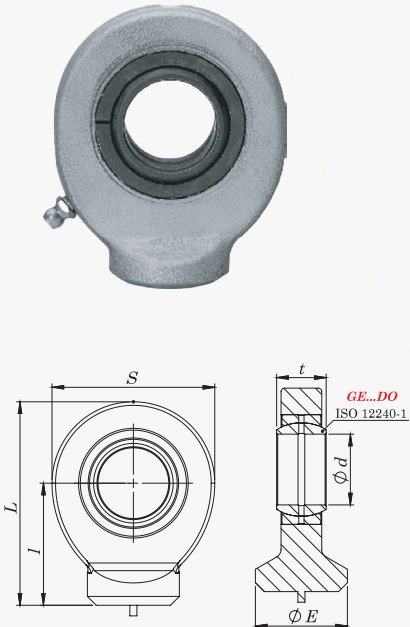
RHEUMATIC KNOCKS

VİDALI TİP ROT MAFSALLARI / SCREW TYPE ROD JOINTS



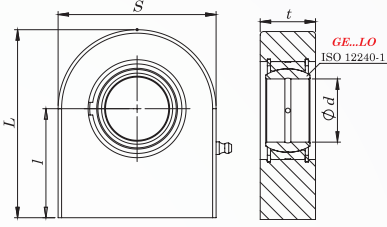
Kod	Ød	S	L	l	CF	t	h	ØE
PR 20 U	20	56	80	50	M16 x 1,5	19	17	25
PR 25 U	25	56	80	50	M16 x 1,5	23	17	25
PR 30 U	30	64	94	60	M22 x 1,5	28	23	32
PR 35 U	35	78	112	70	M28 x 1,5	30	29	40
PR 40 U	40	94	134	85	M35 x 1,5	35	36	49
PR 50 U	50	116	168	105	M45 x 1,5	40	46	61
PR 60 U	60	130	200	130	M58 x 1,5	50	59	75
PR 70 U	70	157	232	150	M65 x 1,5	55	66	86
PR 80 U	80	178	265	170	M80 x 2	60	81	105
PR 90 U	90	210	323	210	M100 x 2	65	101	124
PR 100 U	100	234	360,7	235	M110 x 2	70	111	138
PR 110 U	110	270	408,2	265	M120 x 3	80	125	152

YUVARLAK TİP ROT MAFSALLARI / ROUND TYPE ROD JOINTS

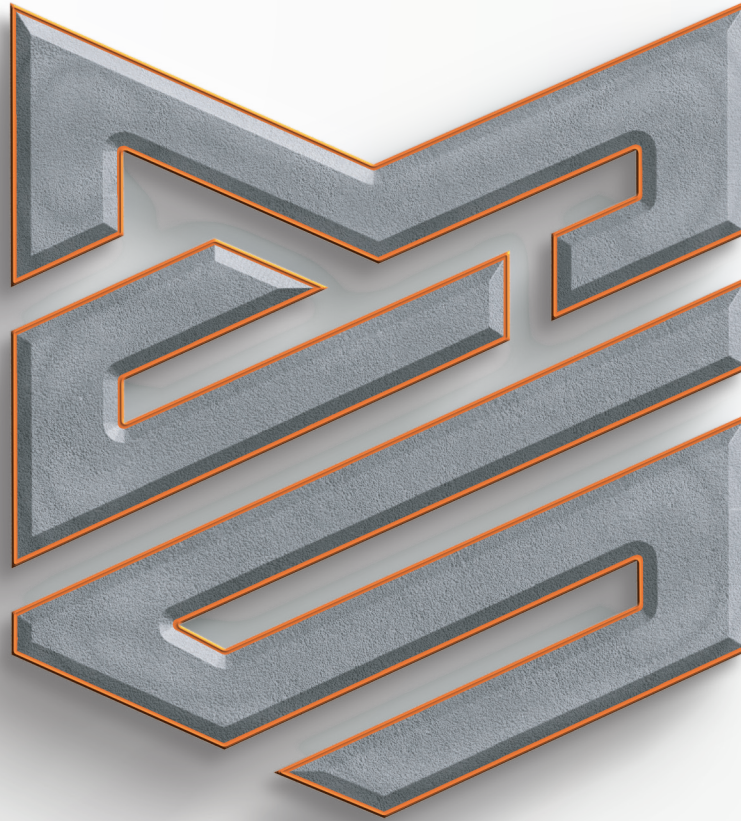


Kod	Ød	S	L	l	t	ØE
S 20 C	20	53	65	38	16	28
S 25 C	25	64	77	45	20	34
S 30 C	30	73	88	51	22	40
S 35 C	35	82	102	61	25	47
S 40 C	40	92	115	69	28	52
S 45 C	45	102	128	77	32	58
S 50 C	50	112	144	88	35	62
S 60 C	60	137	168	100	44	70
S 70 C	70	161	195	115	49	80
S 80 C	80	180	231	141	55	95

DİKDÖRTGEN TİP ROT MAFSALLARI / RECTANGULAR TYPE ROD JOINTS



Kod	Ød	S	L	I	t
S 20 N	20	50	63	38	19
S 25 N	25	55	73	45	23
S 30 N	30	65	84	51	28
S 35 N	35	83	103	61	30
S 40 N	40	101	119	69	35
S 45 N	45	111	132	77	40
S 50 N	50	123	150	88	40
S 60 N	60	140	170	100	50
S 70 N	70	164	197	115	55
S 80 N	80	180	231	141	60
S 90 N	90	226	263	150	65
S 100 N	100	250	295	170	70





NIMET ARTROM MARCEGAGLIA

BENTELER

HIDROLİK | HYDRAULIC



KONYA MERKEZ

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