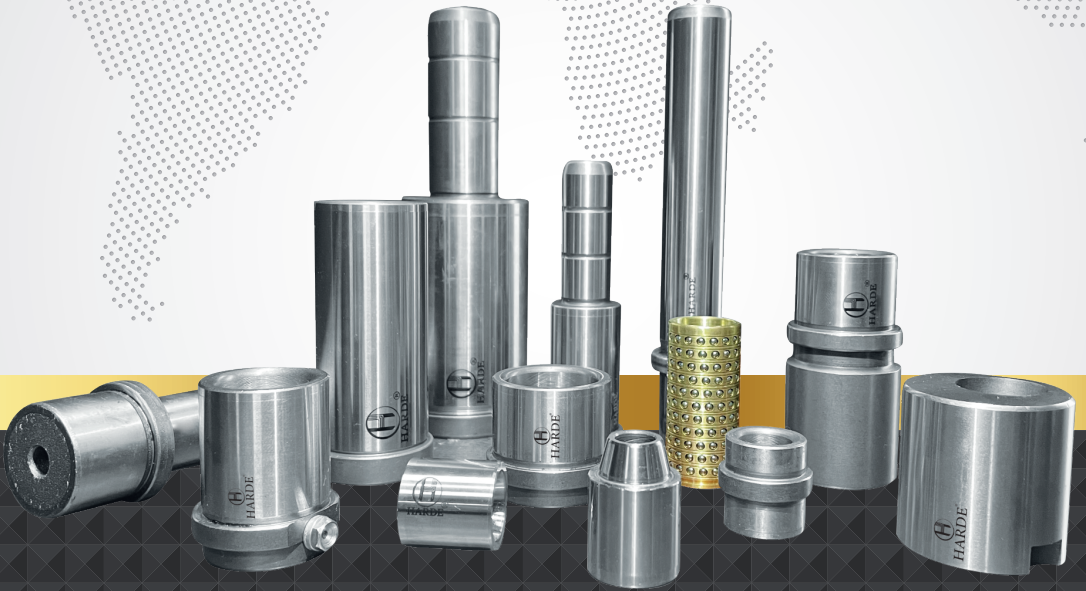




HARDE®

KALIP ELEMANLARI
MOLD COMPONENTS



Always Quality
Right choice





HARDE[®]

KALIP ELEMANLARI

MOLD COMPONENTS

HAKKIMIZDA / About Us

2004 yılında DEDEOĞLU TAŞLAMA adı altında Konya'da yerel bir isim olarak faaliyet göstermeye başlayan firmamız bugün HARDE adıyla Türkiye ve dünya çapında sektörün kalıp elemanlarına olan ihtiyacı karşılamayı kendine görev edinmiştir.

HARDE özellikle enjeksiyon ve sac kalıplarda kullanılan merkezleme elemanları olmak üzere daha nice kalıp elemanları ve özel makine parçaları üretmektedir.

Kalite ve güven parolalarıyla yola çıkan HARDE bugün 1.000 m² kapalı alanı ve yıllık 500 ton üretim kapasitesiyle sektörün ihtiyaçlarına yanıt vermektedir.

HARDE kurulduğu günden bugüne daha kaliteli ürünler ortaya koymayı hedeflemiş olup bu hedef doğrultusunda asla olduğuyla yetinmeyip hep daha iyisini üretmek için çalışmış ve sektörde lider olmak hedefiyle çalışmalarına büyük bir özveriyle devam etmektedir.

Our company, which starting the operate as a local name in Konya in 2004 under the name of DEDEOĞLU TAŞLAMA, has made it its duty to meet the need for mold elements of the sector in Turkey and around the world under the name HARDE.

HARDE produces many more mold elements and special machine parts, especially centering elements used in injection and sheet metal molds.

Setting out with the mottos of quality and trust, HARDE today responds to the needs of the industry with its 1,000 m² closed area and annual production capacity of 500 tons.

Since its establishment, HARDE has aimed to produce higher quality products, and in line with this goal, it has never been satisfied with what it is and has always worked to produce better and continues its activities with great devotion with the aim of being a leader in the sector.

Misyon - Vizyon / Mission - Vision

Biz kalite ve güven parolalarıyla yola çıktık. Bu hedeflerin gerektirdiği yolda kaliteden ödün vermeden daha ucuz ve kısa yoldan bir ürün ortaya koymaktansa sürekli kendimize nasıl daha iyi yapabiliriz sorusunu sorarak bu doğrultuda ürünlerimizi elde etmeyi kendimize görev edindik.

Daha ucuz malzeme kullanarak daha çok kar elde etmek yerine daha kaliteli ürünler üretip müşteri ağıımızı genişletmenin yollarını aradık ve müşteri memnuniyetini esas alarak yolumuza devam ediyoruz.

We set out with the mottos of quality and trust. Instead of producing a product in a cheaper and shorter way without sacrificing quality in the way required by these goals, we have taken it upon ourselves to obtain our products in this direction by constantly asking ourselves the question of how we can do it better.

Instead of making more profit by using cheaper materials, we sought ways to produce higher quality products and expand our customer network, and we continue on our way based on my customer satisfaction.

Teknolojik gelişmeleri takip ederek kendimizi ve ürün kalitemizi sürekli geliştirerek mevcut tecrübeli kadromuzla geniş ürün yelpazesine sahip sektörün ihtiyaçlarını karşılayarak sektöre yön veren ve bu doğrultuda ismiyle kendinden söz ettiren bir dünya markası olmayı hedefliyoruz.

We aim to be a world brand that shapes the sector and makes a name for itself in this direction by meeting the needs of the sector with a wide product range, by constantly improving ourselves and our product quality by following the technological developments.





HARDE®

ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



H01
Şapkalı Kolon
Guide Pillar

S.6 - 7



H01H
Şapkalı Kolon
Guide Pillar

S.8 - 9



H02
Şapkalı Kad.
Kolon
Guide Pillar

S.10 - 15



H03H
Kuy. Şapkalı
Kad. Kolon
Tailed
Guide Pillar

S.16 - 21



H06
Açılı Şapkalı
Kolon
Angle
Guide Pillar

S.22



H07
Masuralı
Bilyalı Burç
Recirculating
Ball Bearing

S.23



H08
Kolon
Guide Pillar

S.24



H20
Şapkalı Burç
Guide Bush

S.25



H21H
Kuyruklu
Şapkalı Burç
Tailed
Guide Bush

S.26 - 27



H22
Ortadan
Flanşlı Burç
Middle
Flanged Bush

S.28



H22B
Bilyalı Ortadan
Flanşlı Burç
Middle Flanged
Bush with Ball
Cage

S.29



H40H
Tespit Burcu
Centring Sleeve

S.30



H50
Konik Kitleme
Locating Unit

S.31



H100
Boynuz Pimi
Yatağı
Reatiner

S.32



H110
Plastik - Metal Kalıp
Yolluk Memeleri
Plastic - Metal Mold
Runner Nozzles

S.33



Cutting Mould Components



H05
Arkası Kalın
Kolon
Guide Pillar

H09
Düz Kolon
Guide Pillar

H23
Ortadan
Şapkalı Burç
Guide Bush

H24
Üstten Şapkalı
Burç
Guide Bush

H25
Uzun Bronz
Geçmeli Burç
*Guide Bush
With Bronze*

H26
Kısa Bronz
Geçmeli Burç
*Guide Bush
With Bronze*

H27
Şapkalı
Bilyalı Burç
*Guide Bush
with Ball Cage*

H28
Kısa Bilyalı
Burç
*Guide Bush
with Ball Cage*

H51
Çektirmeli
Tespit Pimi
Dowel Pins

H60
Bilyalı Burç
*Bush with
Ball Cage*

H90
Bağlama
Pabucu
*Pillar & Bush
Clamp*

Teknik Veriler
Technical Data





HARDE®

H01 Şapkalı Kolon Guide Pillar



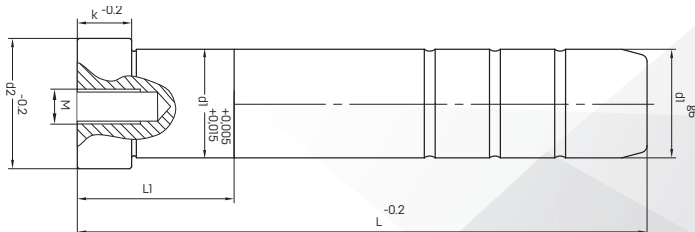
ENJEKSIYON KALIP ELEMANLARI
Injection Mould Components

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



Ürün Kodu / Prod. Code	d1	L	L1	d2	k	M
H01-1260	12	60	22	16	10	-
80		80				
100		100				
120		120				
140		140				
160		160				
H01-1460	14	60	22	18	10	-
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
H01-1660	16	60	22	20	10	6
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
220		220				
250		250				
H01-1860	18	60	22	22	10	6
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
H01-2060	20	60	22	24	10	8
80		80				
100		100				
120		120				
140		140				
160		160				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





H01

Şapkalı Kolon
Guide Pillar



HARDE®

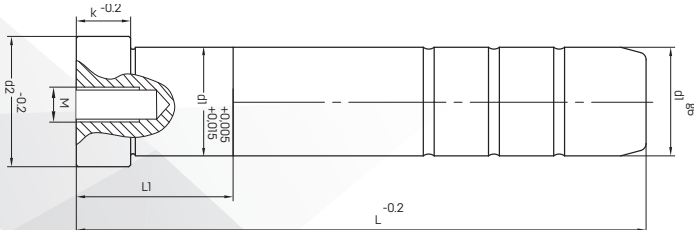
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



ENJEKSİYON KALIP ELEMANLARI
Injection Mold Components

Ürün Kodu / Prod. Code	d1	L	L1	d2	k	M
H01-20180	20	180	46	24	10	8
200		200	56			
220		220				
250		250	66			
280		280				
300		300	76			
315		315				
H01-25100	25	100	27	29	10	8
120		120				
140		140	36			
160		160				
180		180	46			
200		200	56			
220		220				
250		250	66			
300		300	76			
H01-30100	30	100	27	34	12	8
120		120				
140		140	36			
160		160				
180		180	46			
200		200	56			
220		220				
250		250	66			
300		300	76			
H01-40160	40	160	36	48	15	10
180		180	46			
200		200	56			
220		220				
250		250	66			
280		280				
300		300	76			
315		320				
360		360				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H01H Şapkalı Kolon Guide Pillar



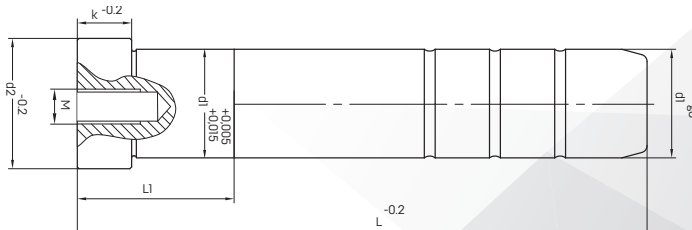
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



Ürün Kodu / Prod. Code	d1	L	L1	d2	k	M
H01H-1040	10	40	17	12	3	-
60		60	22			
80		80				
100		100	27			
120		120				
H01H-1240	12	40	17	16	6	-
60		60	22			
80		80				
100		100	27			
120		120	36			
140		140				
160		160				
H01H-1460	14	60	22	18	8	-
80		80	27			
100		100				
120		120	36			
140		140				
160		160				
180		180	46			
H01H-1640	16	40	17	20	8	6
60		60	22			
80		80				
100		100	36			
120		120				
140		140				
160		160	46			
180		180				
200		200	56			
H01H-1860	18	60	22	22	8	6
80		80	36			
100		100				
120		120				
140		140				
160		160	46	24	8	6
180		180				
200		200	56			
240		240				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





H01H

Şapkalı Kolon

Guide Pillar



HARDE®

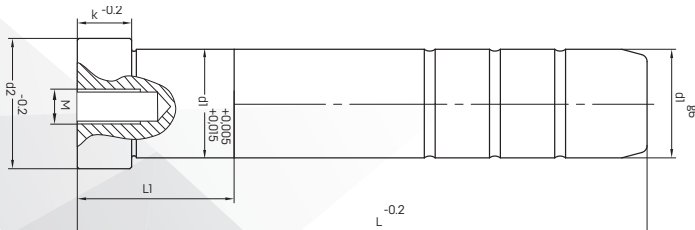
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components

Ürün Kodu / Prod. Code	d1	L	L1	d2	k	m
H01H-2060	20	60	22	24	8	8
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
240		240				
240		240				
H01H-2280	22	80	22	28	15	8
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
220		220				
240		240				
300		300				
H01H-2480	24	80	22	28	15	8
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
220		220				
240		240				
300		300				
H01H-30100	30	100	36	36	15	8
120		120				
140		140				
160		160				
180		180				
200		200				
220		220				
240		240				
300		300				
360		360				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H02

Şapkalı Kademeli Kolon

Guide Pillar

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



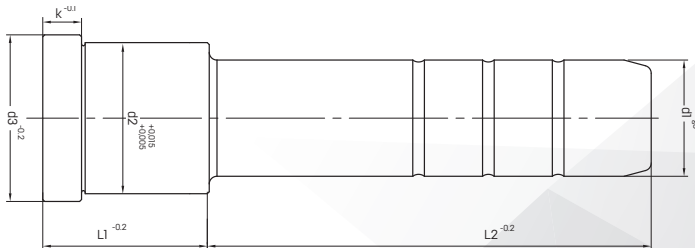
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-122626	12	26	26	16	19	4
36			36			
46			46			
56			56			
H02-123626	12	36	26	16	19	4
36			36			
46			46			
56			56			
H02-124626	12	46	26	16	19	4
36			36			
46			46			
56			56			
H02-142626	14	26	26	20	25	6
36			36			
46			46			
56			56			
66			66			
76			76			
H02-143626	14	36	26	20	25	6
36			36			
46			46			
56			56			
66			66			
86			86			
H02-144626	14	46	26	20	25	6
36			36			
46			46			
56			56			
76			76			
96			96			
H02-145626	14	56	26	20	25	6
36			36			

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-145646	14	56	46	20	25	6
66			66			
86			86			
106			106			
H02-162626	16	26	26	24	28	6
36			36			
46			46			
56			56			
76			76			
96			96			
H02-163626	16	36	26	24	28	6
36			36			
46			46			
56			56			
66			66			
86			86			
106			106			
H02-164626	16	46	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
H02-165626	16	56	26	24	28	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H02 Şapkalı Kademeli Kolon Guide Pillar



HARDE®

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

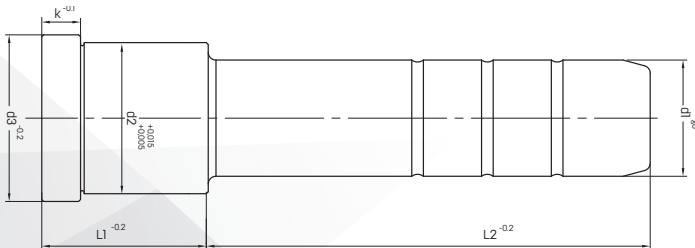
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-166626			26			
36			36			
46			46			
56			56			
66	16	66	66	24	28	6
76			76			
86			86			
106			106			
116			116			
H02-167626			26			
36			36			
46			46			
56	16	76	56	24	28	6
66			66			
76			76			
96			96			
116			116			
H02-168626			26			
36			36			
46			46			
56	16	86	56	24	28	6
66			66			
76			76			
96			96			
116			116			
H02-182626			26			
36			36			
46	18	26	46	26	31	6
56			56			
66			66			
86			86			
H02-183626	18	36	26	26	31	6
36			36			

H02-183646			46			
56			56			
66	18	36	66	26	31	6
86			86			
106			106			
H02-184626			26			
36			36			
46	18	46	46	26	31	6
56			56			
66			66			
86			86			
106			106			
126			126			
H02-185626			26			
36			36			
46	18	56	46	26	31	6
56			56			
66			66			
86			86			
106			106			
126			126			
H02-186626			26			
36			36			
56	18	66	56	26	31	6
76			76			
96			96			
116			116			
H02-187626			26			
46			46			
66	18	76	66	26	31	6
86			86			
106			106			
126			126			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H02

Şapkalı Kademeli Kolon

Guide Pillar



ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components

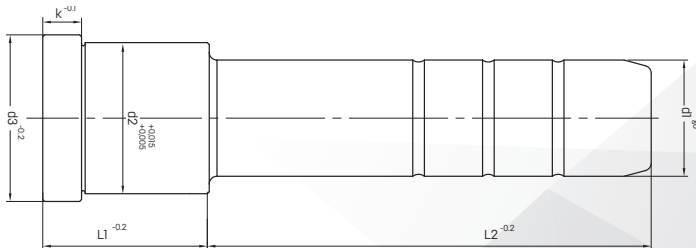
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-188626	18	86	26	26	31	6
46			46			
66			66			
86			86			
106			106			
126			126			
H02-202626	20	26	26	28	32	6
36			36			
46			46			
56			56			
66			66			
86			86			
H02-203626	20	36	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
H02-204626	20	46	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
H02-205626	20	56	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-205696	20	56	96	28	32	6
116			116			
H02-206626	20	66	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
H02-207626	20	76	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
H02-208626	20	86	26	28	32	6
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
H02-209626	20	96	26	28	32	6
36			36			
46			46			
56			56			
66			66			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H02 Şapkalı Kademeli Kolon Guide Pillar



HARDE®

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

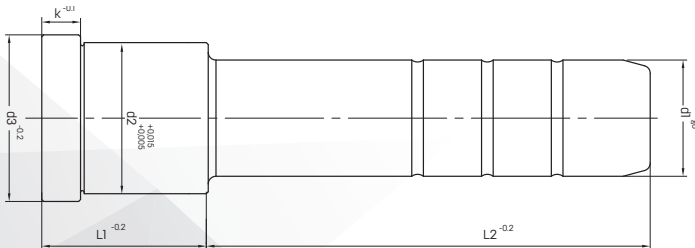


ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-209676	20	96	76	28	32	6
86			86			
106			106			
126			126			
H02-252626	25	26	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
H02-253626	25	36	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
H02-254626	25	46	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
96			96			
116			116			
H02-255626	25	56	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-255696	25	56	96	34	38	8
116			116			
H02-256626	25	66	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
H02-257626	25	76	26	34	38	8
36			36			
46			46			
56			56			
66			66			
76			76			
86			86			
106			106			
126			126			
H02-258636	25	86	36	34	38	8
46			46			
56			56			
66			66			
76			76			
86			86			
96			96			
116			116			
136			136			
H02-259636	25	96	36	34	38	8
46			46			
56			56			
66			66			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H02 Şapkalı Kademeli Kolon Guide Pillar

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



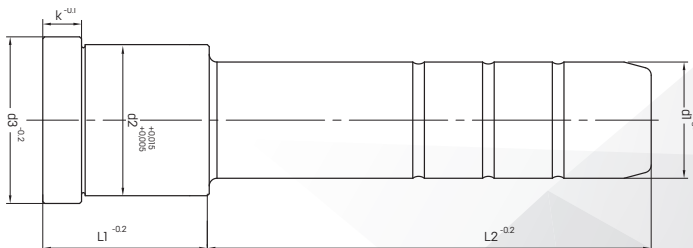
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
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86			86			
96	25	96	96	34	38	8
116			116			
136			136			
H02-2510646			46			
56			56			
66			66			
76	25	106	76	34	38	8
86			86			
96			96			
116			116			
136			136			
H02-303636			36			
46			46			
56			56			
66	30	36	66	39	43	10
86			86			
106			106			
H02-304636			36			
46			46			
56			56			
66	30	46	66	39	43	10
76			76			
96			96			
116			116			
H02-305636			36			
46			46			
56			56			
66			66			
76	30	56	76	39	43	10
86			86			
106			106			
126			126			

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-306636			36			
46			46			
56			56			
66			66			
76	30	66	76	39	43	10
86			86			
96			96			
116			116			
136			136			
H02-307636			36			
46			46			
56			56			
76	30	76	76	39	43	10
96			96			
116			116			
136			136			
H02-308636			36			
46			46			
66			66			
86	30	86	86	39	43	10
106			106			
126			126			
146			146			
H02-309646			46			
66			66			
86			86			
106	30	96	106	39	43	10
126			126			
146			146			
H02-3010656			56			
76			76			
96	30	106	96	39	43	10
116			116			
136			136			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H02 Şapkalı Kademeli Kolon Guide Pillar



HARDE®

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

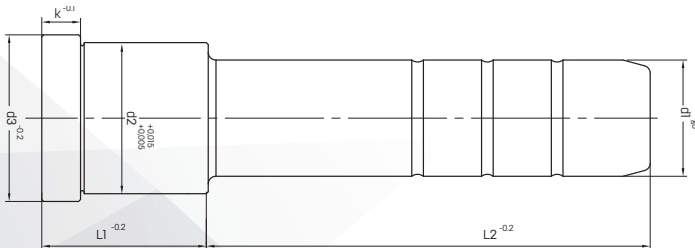
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-3011656	30	116	56	39	43	10
76			76			
96			96			
116			116			
136			136			
H02-405656	40	56	56	54	58	10
86			86			
106			106			
126			126			
156			156			
186			186			
H02-406666	40	66	66	54	58	10
96			96			
116			116			
136			136			
166			166			
196			196			
H02-407676	40	76	76	54	58	10
106			106			
126			126			
146			146			
166			166			
196			196			
216			216			
H02-408686	40	86	86	54	58	10
126			126			
146			146			
176			176			
206			206			
226			226			
H02-409696	40	96	96	54	58	10
136			136			
156			156			

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H02-4096186	40	96	186	54	58	10
216			216			
236			236			
H02-40106106	40	106	106	54	58	10
126			126			
156			156			
186			186			
226			226			
246			246			
H02-40116116	40	116	116	54	58	10
136			136			
166			166			
196			196			
236			236			
256			256			
H02-40126126	40	126	126	54	58	10
166			166			
196			196			
236			236			
266			266			
H02-40136136	40	136	136	54	58	10
196			196			
226			226			
266			266			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H03H Kuyruklu Şapkalı Kad. Kolon Tailed Guide Pillar



ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components

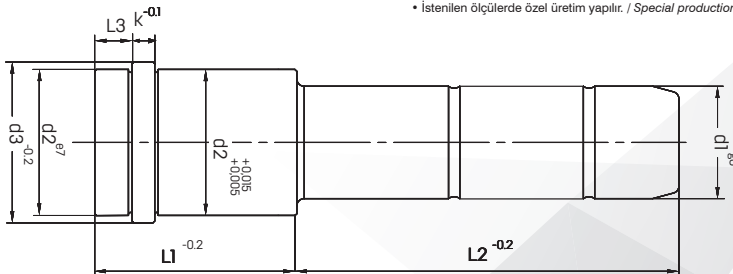
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-141735		H03H-151735			35				
55	14	55	15	17	55	9	20	25	6
75		75			75				
95		95			95				
H03H-142230		H03H-152230			30				
50		50			50				
70		70			70				
90	14	90	15	22	90	9	20	25	6
110		110			110				
125		125			125				
150		150			150				
H03H-142730		H03H-152730			30				
45		45			45				
65		65			65				
85	14	85	15	27	85	9	20	25	6
105		105			105				
125		125			125				
145		145			145				
165		165			165				
H03H-143635		H03H-153635			35				
55		55			55				
75		75			75				
95	14	95	15	36	95	9	20	25	6
115		115			115				
125		125			125				
145		145			145				
155		155			155				

Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-144635		H03H-154635			35				
45		45			45				
65		65			65				
85	14	85	15	46	85	9	20	25	6
105		105			105				
125		125			125				
145		145			145				
H03H-145635		H03H-155635			35				
55		55			55				
75	14	75	15	56	75	9	20	25	6
95		95			95				
135		135			135				
H03H-146655		H03H-156655			55				
65		65			65				
85	14	85	15	66	85	9	20	25	6
95		95			95				
105		105			105				
125		125			125				
H03H-147635		H03H-157635			35				
55		55			55				
75	14	75	15	76	75	9	20	25	6
95		95			95				
125		125			125				
H03H-148655		H03H-158655			55				
75	14	75	15	86	75	9	20	25	6
95		95			95				
H03H-149655		H03H-159655			55				
75	14	75	15	96	75	9	20	25	6
95		95			95				
H03H-1411675	14	H03H-1511675	15	116	75	9	20	25	6

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





H03H

Kuyruklu Şapkalı
Kad. Kolon
Tailed Guide Pillar



HARDE®

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

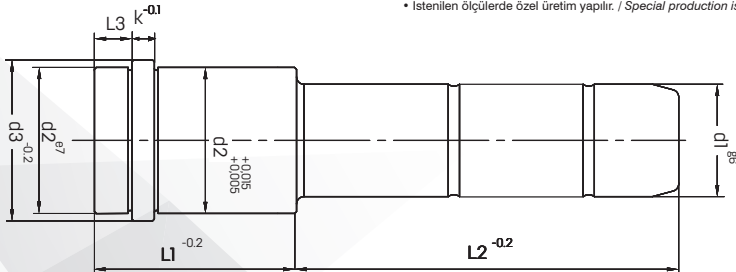


ENJEKSYON KALIP ELEMANLARI
Injection Mould Components

Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-181735	18	H03H-201735	20	17	35	9	26	31	6
55		55			55				
75		75			75				
120		120			120				
H03H-182235	18	H03H-202235	20	22	35	9	26	31	6
45		45			45				
65		65			65				
85		85			85				
95		95			95				
115		115			115				
H03H-182735	18	H03H-202735	20	27	35	9	26	31	6
45		45			45				
65		65			65				
85		85			85				
105		105			105				
125		125			125				
165		165			165				
225		225			225				
245		245			245				
H03H-183635	18	H03H-203635	20	36	35	9	26	31	6
55		55			55				
75		75			75				
95		95			95				
115		115			115				
135		135			135				
165		165			165				
225		225			225				
255		255			255				
H03H-184635	18	H03H-204635	20	46	35	9	26	31	6
45		45			45				
65		65			65				
85		85			85				
105		105			105				
135		135			135				
165		165			165				
245		245			245				

Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-185635	18	H03H-205635	20	56	35	9	26	31	6
55		55			55				
75		75			75				
95		95			95				
115		115			115				
135		135			135				
155		155			155				
H03H-186635	18	H03H-206635	20	66	35	9	26	31	6
55		55			55				
75		75			75				
95		95			95				
115		115			115				
135		135			135				
145		145			145				
H03H-187635	18	H03H-207635	20	76	35	9	26	31	6
55		55			55				
75		75			75				
95		95			95				
115		115			115				
135		135			135				
H03H-188655	18	H03H-208655	20	86	55	9	26	31	6
75		75			75				
95		95			95				
125		125			125				
135		135			135				
H03H-189655	18	H03H-209655	20	96	55	9	26	31	6
75		75			75				
95		95			95				
H03H-1811675	18	H03H-2011675	20	116	75	9	26	31	6
115		115			115				
H03H-18136135	18	H03H-20136135	20	136	35	9	26	31	6

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H03H Kuyruklu Şapkalı Kad. Kolon Tailed Guide Pillar

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



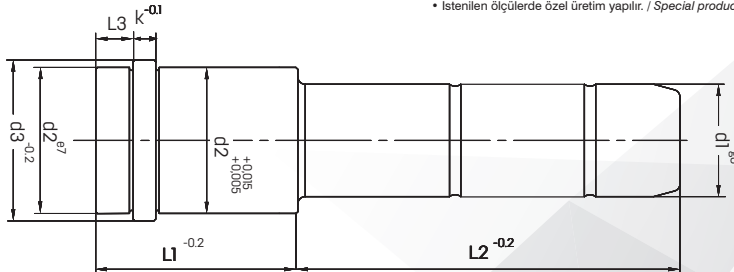
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-221735		H03H-241735			35				
55	22	55	24	17	55	9	30	35	6
75		75			75				
H03H-222235		H03H-242235			35				
55	22	55	24	22	55	9	30	35	6
75		75			75				
95		95			95				
105		105			105				
130		130			130				
H03H-222735		H03H-242735			35				
45	22	45	24	27	45	9	30	35	6
65		65			65				
85		85			85				
105		105			105				
125		125			125				
165		165			165				
205		205			205				
245		245			245				
H03H-223635		H03H-243635			35				
55	22	55	24	36	55	9	30	35	6
75		75			75				
95		95			95				
115		115			115				
135		135			135				
165		165			165				
205		205			205				
245		245			245				
285		285			285				
H03H-224635		H03H-244635			35				
45	22	45	24	46	45	9	30	35	6
65		65			65				
85		85			85				
105		105			105				
125		125			125				
165		165			165				
205		205			205				

Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-225635		H03H-245635			35				
55	22	55	24	56	55	9	30	35	6
75		75			75				
95		95			95				
115		115			115				
135		135			135				
H03H-2256165		H03H-2456165			165				
205	22	205	24	56	205	9	30	35	6
H03H-226635		H03H-246635			35				
55	22	55	24	66	55	9	30	35	6
75		75			75				
95		95			95				
115		115			115				
135		135			135				
155		155			155				
H03H-227635		H03H-247635			35				
55	22	55	24	76	55	9	30	35	6
75		75			75				
95		95			95				
115		115			115				
145		145			145				
H03H-228655		H03H-248655			55				
75	22	75	24	86	75	9	30	35	6
95		95			95				
125		125			125				
135		135			135				
H03H-229655		H03H-249655			55				
75	22	75	24	96	75	9	30	35	6
95		95			95				
125		125			125				
H03H-2210655		H03H-2410655			55				
75	22	75	24	106	75	9	30	35	6
95		95			95				
115		115			115				
H03H-2211675		H03H-2411675			75				
115	22	115	24	116	115	9	30	35	6
155		155			155				
H03H-2213695		H03H-2413695			95				
135	22	135	24	136	135	9	30	35	6

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





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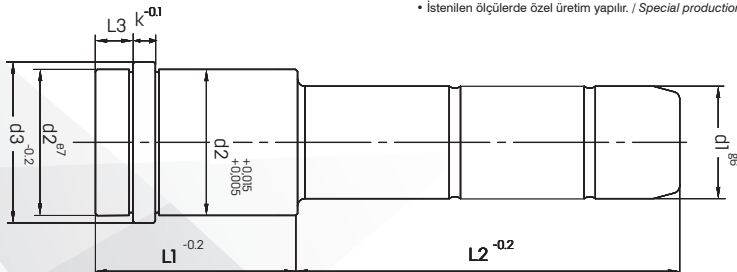
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

ENJEKSİYON KALIP ELEMANLARI



Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k	Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k								
H03H-302735	30	H03H-322735	32	27	35	9	42	47	6	H03H-3056115	30	H03H-3256115	32	56	115	9	42	47	6								
45		45			45					135		135															
65		65			65					155		155															
85		85			85					175		175															
105		105			105					245		245															
125		125			125					295		295															
145		145			145					H03H-306645		H03H-326645			45					9	42	47	6				
165		165			165					55		55															
185		185			185					75		75															
245		245			245					95		95															
285	285	285	115	115																							
H03H-303635	30	H03H-323635	32	36	35	9	42	47	6	135	30	135	32	66	135	9	42	47	6								
55		55			55					155		155															
75		75			75					175		175															
95		95			95					245		245															
115		115			115					295		295															
135		135			135					H03H-307655		H03H-327655			55					9	42	47	6				
155		155			155					75		75															
245		245			245					95		95															
285		285			285					115		115															
H03H-304645		30			H03H-324645					32		46			45									9	42	47	6
65	65		65	155	155																						
85	85		85	225	225																						
105	105		105	H03H-308655	H03H-328655	55	9	42	47		6																
125	125		125	75	75																						
145	145		145	95	95																						
165	165		165	115	115																						
245	245		245	135	135																						
285	285		285	155	155																						
H03H-305645	30		H03H-325645	32	56	45							9	42	47	6	225	30	225	32	86	225	9				
55		55	55			H03H-309655				H03H-329655		55															
75		75	75			75				75																	
95		95	95			95				95																	

• İstenilen ölçülerde özel üretim yapılır. / *Special production is made in desired dimensions.*





HARDE®

H03H Kuyruklu Şapkalı Kad. Kolon Tailed Guide Pillar

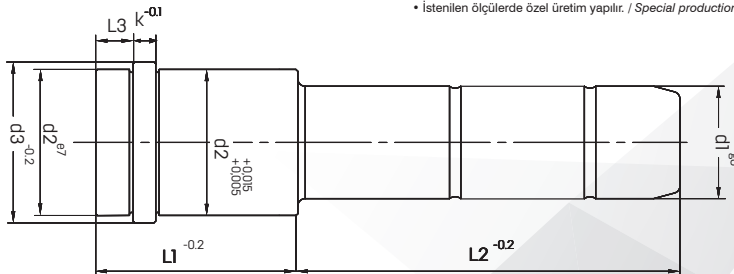
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	L3	d2	d3	k
H03H-3096115	30	H03H-3296115	32	96	115	9	42	47	6
135		135			135				
155		155			155				
205		205			205				
H03H-3010675	30	H03H-3210675	32	106	75	9	42	47	6
95		95			95				
115		115			115				
125		125			125				
145		145			145				
165		165			165				
H03H-3011675	30	H03H-3211675	32	116	75	9	42	47	6
95		95			95				
115		115			115				
135		135			135				
155		155			155				
H03H-3013695	30	H03H-3213695	32	136	95	9	42	47	6
115		115			115				
135		135			135				
155		155			155				
H03H-30156115	30	H03H-32156115	32	156	115	9	42	47	6
155		155			155				
H03H-30196155	30	H03H-32196155	32	196	155	9	42	47	6
195		195			195				
H03H-404695	40	H03H-424695	42	46	95	12	54	60	10
165		165			165				
H03H-405675	40	H03H-425675	42	56	75	12	54	60	10
115		115			115				
155		155			155				
195		195			195				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





H03H
Kuyruklu Şapkalı
Kad. Kolon
Tailed Guide Pillar



HARDE®

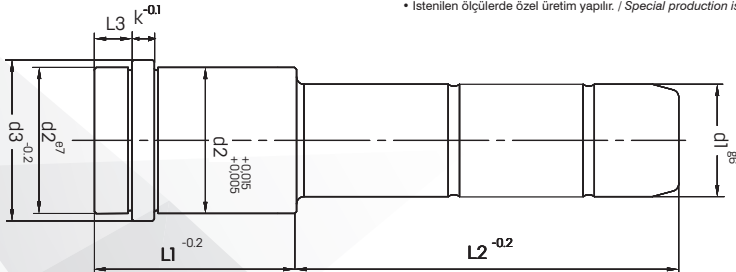
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



ENJEKSYON KALIP ELEMANLARI
Injection Mold Components

Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	d2	L3	d3	k
H03H-406675	40	H03H-426675	42	66	75	54	12	60	10
135		135			135				
H03H-407675	40	H03H-427675	42	76	75	54	12	60	10
115		115			115				
175		175			175				
H03H-408675	40	H03H-428675	42	86	75	54	12	60	10
135		135			135				
H03H-409675	40	H03H-429675	42	96	75	54	12	60	10
115		115			115				
155		155			155				
H03H-4011695	40	H03H-4211695	42	116	95	54	12	60	10
135		135			135				
195		195			195				
H03H-4013695	40	H03H-4213695	42	136	95	54	12	60	10
135		135			135				
215		215			215				
H03H-40156115	40	H03H-42156115	42	156	115	54	12	60	10
155		155			155				
215		215			215				
H03H-40196155	40	H03H-42196155	42	196	155	54	12	60	10
195		195			195				
235		235			235				
H03H-40246165	40	H03H-42246165	42	246	165	54	12	60	10
245		245			245				

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

ENJEKSIYON KALIP ELEMANLARI
Injection Mold Components

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



H06

Açılı Şapkalı

Kolon

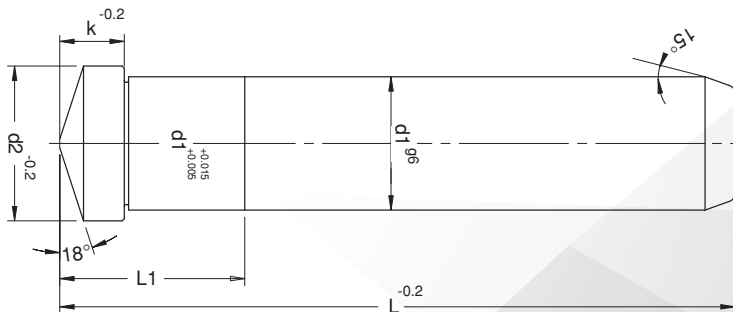
Angled Guide Pillar



Ürün Kodu / Prod. Code	d1	L	L1	d2	k
H06-1260	12	60	17	16	9
80		80	22		
100		100	27		
120		120			
140		140			
160		160	36		
180		180			
H06-1460	14	60	17	18	9
80		80	22		
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200			
H06-1660	16	60	17	20	10
80		80	22		
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200			
H06-2080	20	80	22	24	10
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200			
220		220	56		
240		240			
260		260	66		
280		280			

Ürün Kodu / Prod. Code	d1	L	L1	d2	k
H06-2580	25	80	22	29	11
100		100	27		
120		120			
140		140	36		
160		160			
180		180	46		
200		200	56		
220		220			
240		240	66		
260		260			
280		280	76		
300		300			
H06-30100	30	100	27	34	12
120		120			
140		140	36		
160		160			
180		180	46		
200		200	56		
220		220			
240		240	66		
280		280	76		
320		320			
360		360	86		

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H07
Masuralı
Bilyalı Burç
Recirculating
Ball Bearing



HARDE®

Malzeme / Material
1.7131 (16MnCr5)

Bilya Malz. - Ball Material : 1.3505 (100Cr6)

Bilya Kafesi / Cage Ball : Ms 58

Isıl İşlem / Heat Treatment

Sementasyon / Case Hardened

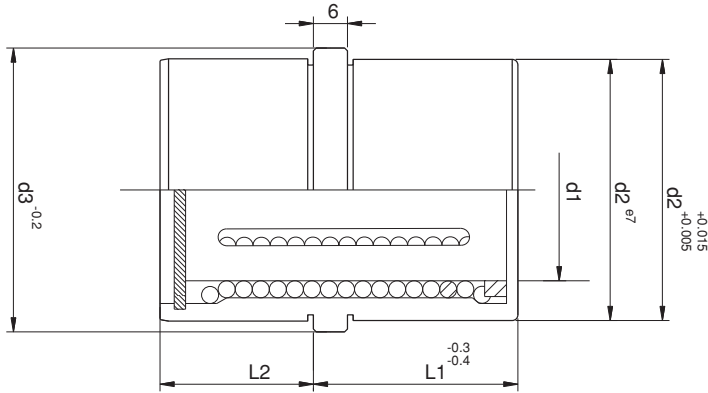
61 - 63 HRC



ENJEKSYON KALIP ELEMANLARI
Injection Mould Components

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3
H07-121217	12	17	12	22	25
H07-181722	18	22	17	30	33
H07-242227	24	27	22	38	41
H07-302736	30	36	27	46	49

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H08 Kolon Guide Pillar

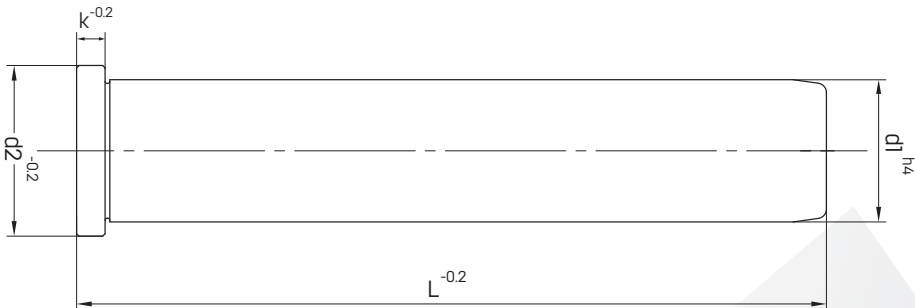
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



ENJEKSİYON KALIP ELEMANLARI
Injection Mold Components

Ürün Kodu / Prod. Code	d1	L	d2	k
H08-1280	12	80	16	4
100		100		
120		120		
H08-18120	18	120	22	6
140		140		
160		160		
H08-24140	24	140	28	6
180		180		
220		220		
H08-30160	30	160	36	6
200		200		
240		240		

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





H20 Şapkalı Burç Guide Bush



HARDE®

Malzeme / Material
1.7131 (16MnCr5)

Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

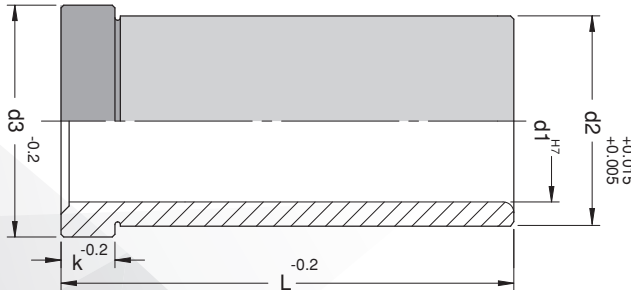
ENJEKSYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L	d2	d3	k
H20-1226	12	26	16	19	4
36		36			
46		46			
56		56			
66		66			
H20-1426	14	26	20	25	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
H20-1626	16	26	24	28	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
H20-1826	18	26	26	31	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
H20-2026	20	26	28	32	6
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
96		96			

Ürün Kodu / Prod. Code	d1	L	d2	d3	k
H20-2526	25	26	34	38	8
36		36			
46		46			
56		56			
66		66			
76		76			
86		86			
96		96			
106		106			
H20-3036	30	36	39	43	10
46		46			
56		56			
66		66			
76		76			
86		86			
96		96			
106		106			
116		116			
H20-4046	40	46	54	58	10
56		56			
66		66			
76		76			
86		86			
96		96			
106		106			
116		116			
126		126			
136		136			
146		146			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H21H

Kuyruklu Şapkalı Burç

Tailed Guide Bush

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

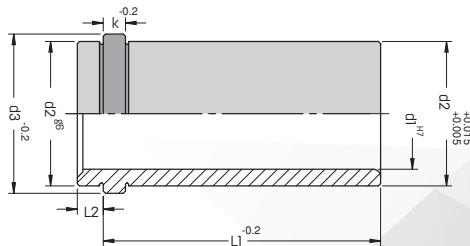


ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H21H-1417	14	H21H-1517	15	17	9	20	25	6
22		22		22				
27		27		27				
36		36		36				
46		46		46				
56		56		56				
66		66		66				
76		76		76				
86		86		86				
96		96		96				
116		116		116				
H21H-1817	18	H21H-2017	20	17	9	26	31	6
22		22		22				
27		27		27				
36		36		36				
46		46		46				
56		56		56				
66		66		66				
76		76		76				
86		86		86				
96		96		96				
106		106		106				
116		116		116				
136		136		136				
H21H-2217	22	H21H-2417	24	17	9	30	35	6
22		22		22				
27		27		27				
36		36		36				
46		46		46				
56		56		56				
66		66		66				
76		76		76				
86		86		86				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H21H

Kuyruklu Şapkalı Burç
Tailed Guide Bush



HARDE®



Malzeme / Material
1.7131 (16MnCr5)

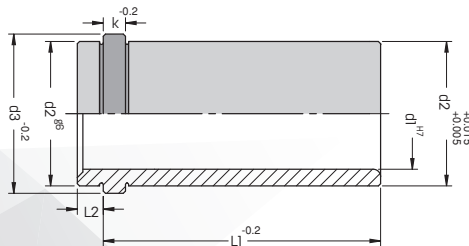
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



ENJEKSYON KALIP ELEMANLARI
Injection Mould Components

Ürün Kodu / Prod. Code	d1	Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	k
H21H-2296	22	H21H-2496	24	96	9	30	35	6
106		106		106				
116		116		116				
136		136		136				
156		156		156				
H21H-3027	30	H21H-3227	32	27	9	42	47	6
36		36		36				
46		46		46				
56		56		56				
66		66		66				
76		76		76				
86		86		86				
96		96		96				
106		106		106				
116		116		116				
126		126		126				
136		136		136				
156		156		156				
196		196		196				
H21H-4046	40	H21H-4246	42	46	12	54	60	10
56		56		56				
66		66		66				
76		76		76				
86		86		86				
96		96		96				
116		116		116				
136		136		136				
156		156		156				
196		196		196				
246		246		246				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H22 Ortadan Flanşlı Burç Middle Flanged Bush

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

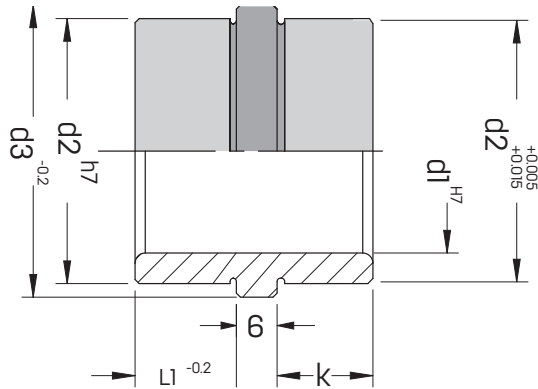


ENJEKSİYON KALIP ELEMANLARI
Injection Mold Components



Ürün Kodu / Prod. Code	d1	L1	d2	d3	k
H22-1416	14	16	20	25	6
H22-1616	16	16	24	28	6
H22-1816	18	16	26	31	6
H22-2016	20	16	28	32	6
H22-2521	25	21	34	38	10
H22-3021	30	21	39	43	10

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H22B
Bilyalı Ortadan
Flanşlı Burç
*Middle Flanged Bush
with Ball Cage*



HARDE®



Malzeme / Material
1.7131 (16MnCr5)

Bilya Malz. - Ball Material : 1.3505 (100Cr6)

Bilya Kafesi / Cage Ball : Ms 58

Isıl İşlem / Heat Treatment

Sementasyon / Case Hardened

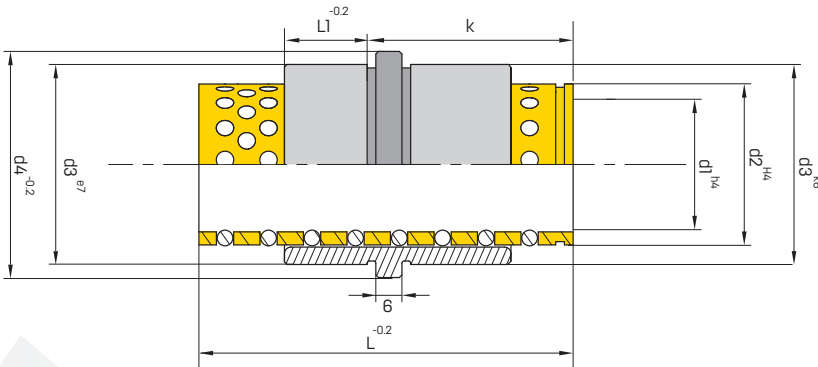
61 - 63 HRC



ENJEKSYON KALIP ELEMANLARI
Injection Mould Components

Ürün Kodu / Prod. Code	d1	L	L1	d2	d3	d4	k
H22B-1240	12	40	6	16	22	26	18
56		56					
H22B-1845	18	45	11	24	30	35	23
56		56					
71		71					
H22B-3056	30	56	21	38	46	52	33
75		75					
95		95					

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H40H Tespit Burcu Centring Sleeve

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



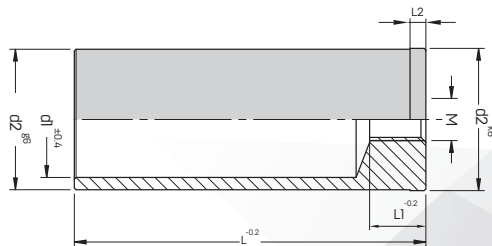
ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L	d2	L1	L2	M
H40H-2030	16	30	20	13	4	12
40		40				
60		60				
80		80				
100		100				
120		120				
140		140				
H40H-2630	21	30	26	13	4	12
40		40				
60		60				
80		80				
100		100				
120		120				
140		140				
160		160				
H40H-3040	25	40	30	13	4	12
60		60				
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				

Ürün Kodu / Prod. Code	d1	L	d2	L1	L2	M
H40H-4240	33	40	42	13	4	12
60		60				
80		80				
100		100				
120		120				
140		140				
160		160				
180		180				
200		200				
220		220				
H40H-5460	43	60	54	16	4	12
80		80				
120		120				
160		160				
200		200				
240		240				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H50 Konik Kitleme Locating Unit



HARDE®

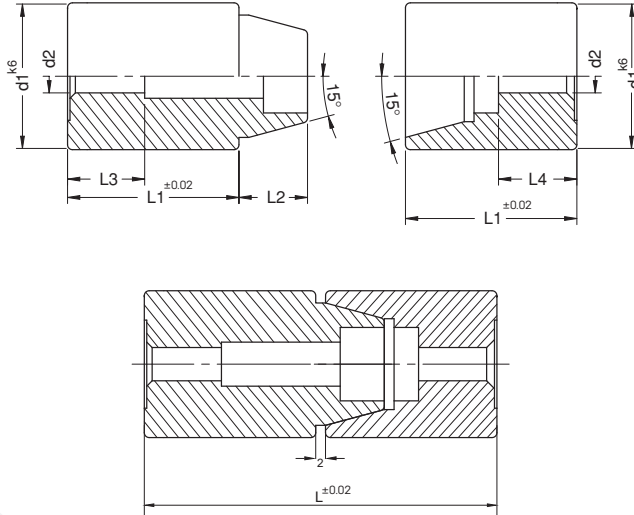


Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

ENJEKSYON KALIP ELEMANLARI
Injection Mold Components

Ürün Kodu / Prod. Code	d1	d2	d3	L	L1	L2	L3	L4
H50-12	12	M4	M3	34	16	4.5	9.5	7.0
H50-14	14	M5	M4	34	16	6	12.4	6.0
H50-16	16	M5	M4	34	16	6	12.4	5.8
H50-20	20	M8	M6	54	26	9	19.7	10.6
H50-25	25	M8	M6	54	26	10	19.7	9.2
H50-30	30	M10	M8	72	35	14	25.0	12.2
H50-42	42	M10	M8	92	45	18	27.0	16.8

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

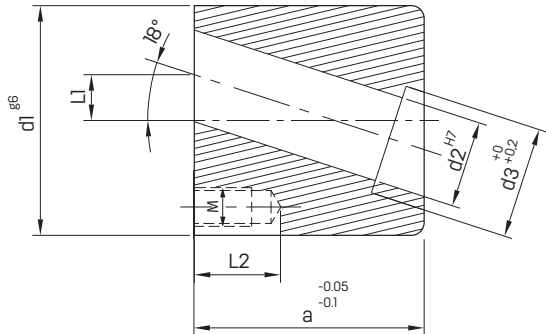
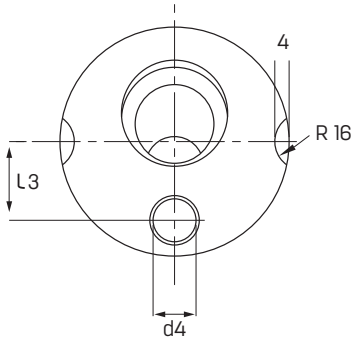
H100 Boynuz Pimi Yatağı Retainer

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



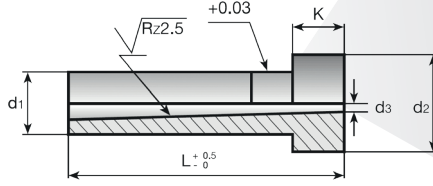
Ürün Kodu / Prod. Code	d1	d2	d3	d4	L1	L2	L3	a
H100-12	32	12	16	M6	7	12	10	36
H100-14	36	14	18	M8	7	16	12	36
H100-16	40	16	20	M8	8.5	16	13.5	46
H100-20	45	20	25	M8	8.5	16	15	46
H100-25	50	25	29	M8	10	16	16	56
H100-30	63	30	34	M10	12	20	21	66

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H110**Plastik - Metal Kalıp Yolluk
Memeleri***Plastic - Metal Mold Runner Nozzles***HARDE®****Metal Yolluk Memesi***Metal Runner Nozzle*

Malzeme / Material
Özel Alaşımlı Çelik / Special Alloy Steel
Yüzey / Surface
Sertleştirilmiş ve Taşlanmış /
Hardened and Ground

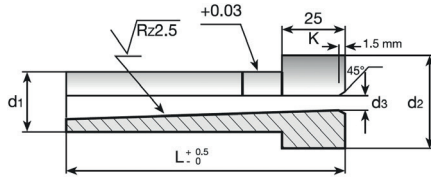


d1	d2	K	d3	L							
				50	65	75	85	95	105	115	125
12	28	25	5,6	✓	✓	✓	✓	✓	✓	✓	✓
14				✓	✓	✓	✓	✓	✓	✓	✓
16				✓	✓	✓	✓	✓	✓	✓	✓
18				✓	✓	✓	✓	✓	✓	✓	✓

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.

Plastik Yolluk Memesi*Plastic Runner Nozzle*

Malzeme / Material
Sıcak İş Çeliği / Hot Work Steel 1.2344
Yüzey / Surface
Sertleştirilmiş ve Taşlanmış /
Hardened and Ground

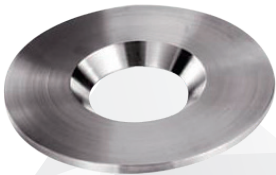


d1	d2	K	d3	L										
				50	65	75	85	95	105	115	125	135	150	200
12	28	20	4,3 3,3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
14				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
16				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
18				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.

Kalıp Yolluk Flanşı*Mold Runner Flange*

Malzeme / Material
Sıcak İş Çeliği / Hot Work Steel 1.2344
Yüzey / Surface
Sertleştirilmiş ve Taşlanmış /
Hardened and Ground

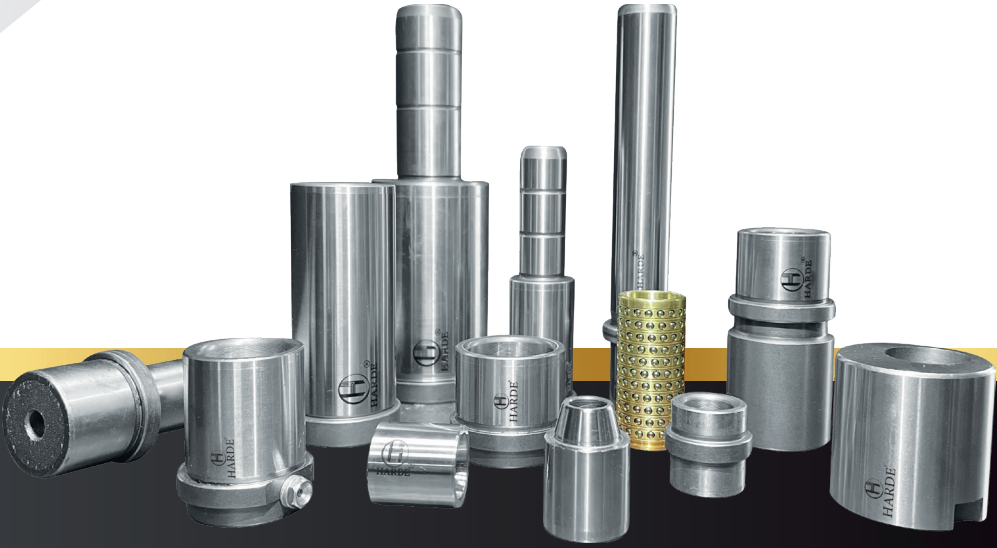


Flanş Çapı / Flange Diameter	80	100	125	150	160	200
Kalınlık / Thickness	25	25	25	25	25	25
Delik Çapı / Hole Diameter	28	28	28	28	28	28



HARDE®

KALIP ELEMANLARI
MOLD COMPONENTS





H00

Ortadan Şapkalı
Kolon
Guide Pillar



HARDE®

Malzeme / Material
1.7131 (16MnCr5)

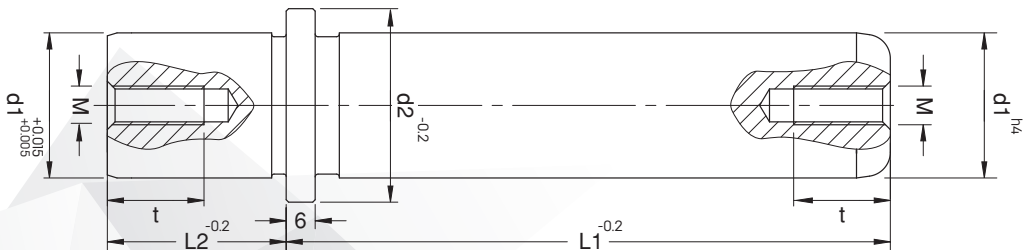
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

ENJEKSİYON KALIP ELEMANLARI
Injection Mould Components



Ürün Kodu / Prod. Code	d1	L1	L2	d2	t	M
H00-1610020	16	100	20	22	20	6
11220		112				
12520		125				
14020		140				
16020		160				
18020		180				
20020		200				
H00-2010023	20	100	23	25	20	8
11223		112				
12523		125				
14023		140				
16023		160				
18023		180				
20023		200				
H00-2510030	25	100	30	32	20	8
11230		112				
12530		125				
14030		140				
16030		160				
18030		180				
20030		200				
22430		224				
25030		250				
H00-3011237	30	112	37	40	20	8
12537		125				
14037		140				
16037		160				
18037		180				
20037		200				
22437		224				
25037		250				
28037		280				
31537		315				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H00 Ortadan Şapkalı Kolon Guide Pillar

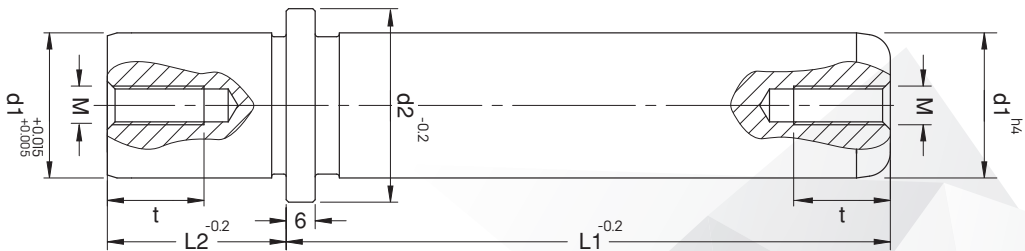
SAC KALIBI ÜRÜNLERİ
Cutting Mould Components

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



Ürün Kodu / Prod. Code	d1	L1	L2	d2	t	M
H00-4012537	40	125	37	50	20	8
14037		140				
16037		160				
18037		180				
20037		200				
22437		224				
25037		250				
28037		280				
31537		315				
35537		355				
H00-5014047	50	140	47	63	20	8
16047		160				
18047		180				
20047		200				
22447		224				
25047		250				
28047		280				
31547		315				
35547		355				
40047		400				
H00-6316047	63	160	47	80	20	8
18047		180				
20047		200				
22447		224				
25047		250				
28047		280				
31547		315				
35547		355				
40047		400				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H05 Arkası Kalın Kolon Guide Pillar



HARDE®

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

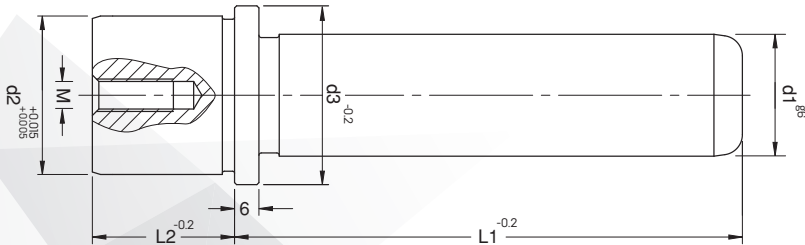
SAC KALIBRI ÜRÜNLERİ
Cutting / Mold Components



Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	M
H05-2010025	20	100	25	28	34	6
35			35			
H05-2012525		125	25			
35			35			
H05-2014025		140	25			
35			35			
H05-2016025		160	25			
35			35			
H05-2018025		180	25			
35			35			
H05-2510025	25	100	25	34	39	8
35			35			
H05-2512525		125	25			
35			35			
H05-2514025		140	25			
35			35			
H05-2516025		160	25			
35			35			
H05-2518025		180	25			
35			35			
H05-2520025		200	25			
35			35			
H05-2522025		220	25			
35			35			
H05-2524025		240	25			
35			35			

Ürün Kodu / Prod. Code	d1	L1	L2	d2	d3	M
H05-3012535	30	125	35	39	44	8
45			45			
H05-3014035		140	35			
45			45			
H05-3016035		160	35			
45			45			
H05-3018035		180	35			
45			45			
H05-3020035	30	200	35	39	44	8
45			45			
H05-3022035		220	35			
45			45			
H05-3024035		240	35			
45			45			
H05-3026035		260	35			
45			45			
H05-3028035		280	35			
45			45			
H05-3031535		315	35			
45			45			

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H09 Düz Kolon Guide Pillar

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

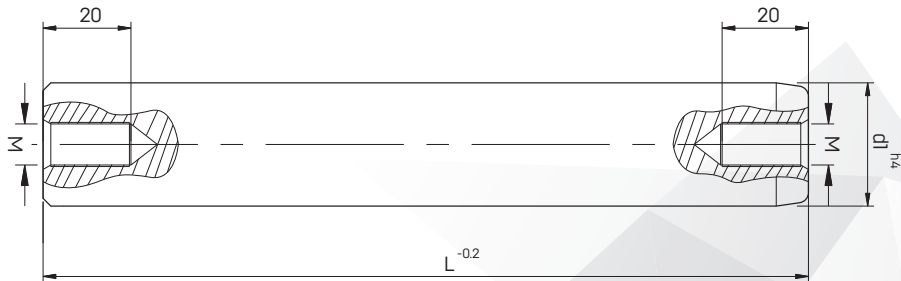
SAC KALIBI ÜRÜNLERİ
Cutting Mould Components



Ürün Kodu / Prod. Code	d1	L	M
H09-1280	12	80	5
100		100	
120		120	
140		140	
160		160	
H09-1880	18	80	8
100		100	
120		120	
140		140	
160		160	
180		180	
H09-20100	20	100	8
112		112	
125		125	
140		140	
160		160	
180		180	
200		200	
224		224	
H09-24100	24	100	8
120		120	
140		140	
160		160	
180		180	
200		200	
H09-25112	25	112	8
125		125	
140		140	
160		160	
180		180	
200		200	
224		224	
250		250	
280		280	

Ürün Kodu / Prod. Code	d1	L	M
H09-30140	30	140	8
160		160	
180		180	
200		200	
224		224	
250		250	
280		280	
315		315	
H09-40160	40	160	8
180		180	
200		200	
224		224	
250		250	
280		280	
315		315	
355		355	
400		400	
H09-50180	50	180	8
200		200	
224		224	
250		250	
280		280	
315		315	
355		355	
400		400	
500		500	
H09-63280	63	280	12
315		315	
355		355	
400		400	

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H23
Ortadan Şapkalı
Burç
Guide Bush



HARDE®

Malzeme / Material
1.7131 (16MnCr5)

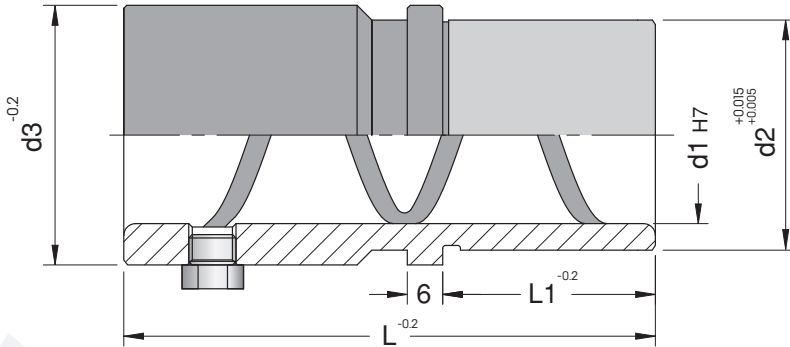
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

SAC KALIBI ÜRÜNLERİ
Cutting Mold Components



Ürün Kodu / Prod. Code	d1	L1	L	d2	d3
H23-2026	20	26	70	28	34
36		36			
H23-2526	25	26	80	34	39
36		36			
H23-3036	30	36	90	39	44
46		46			
H23-4036	40	36	100	50	54
46		46			
H23-5046	50	46	120	60	64
56		56			
H23-6356	63	56	130	85	95
H23-6356			150		

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

H24 Üstten Şapkalı Burç Guide Bush

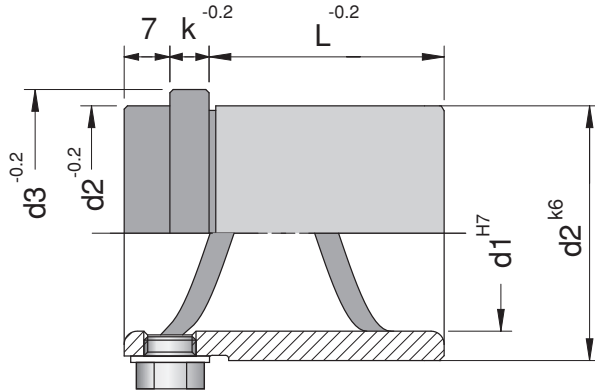
Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

SAC KALIBI ÜRÜNLERİ
Cutting Mould Components



Ürün Kodu / Prod. Code	d1	L	d2	d3	k
H24-2026	20	26	28	34	6
H24-2526	25	26	34	39	6
36		36			
H24-3026	30	26	39	44	6
36		36			
H24-4036	40	36	50	54	6
46		46			
H24-5046	50	46	60	64	6
56		56			
H24-6346	63	46	85	95	6
H24-6356		56			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H25
Uzun Bronz Geçmeli
Burç
Guide Bush with
Bronze



HARDE®

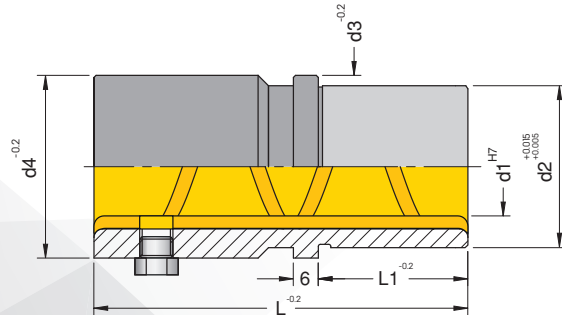
Malzeme / Material
1.7131 (16MnCr5) / Bronz
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

SAC KALIBRI ÜRÜNLERİ
Cutting Mold Components



Ürün Kodu / Prod. Code	d1	L	L1	d2	d3	d4
H25-194323	19	43	23	32	40	39
5923		59	33			
5933						
H25-204323	20	43	23	32	40	39
5923		59	33			
5933						
H25-245923	24	59	23	40	48	46
7923		79	33			
7933						
H25-255923	25	59	23	40	48	46
7923		79	33			
7933						
H25-307530	30	75	30	48	55	53
9330		93	40			
9340						
H25-327530	32	75	30	48	55	53
9330		93	40			
9340						
H25-388237	38	82	37	58	65	63
10837		108	47			
10847						
H25-408237	40	82	37	58	65	63
10837		108	47			
10847						
H25-489747	48	97	47	70	80	77
12747		127	57			
12757						
H25-509747	50	97	47	70	80	77
12747		127	57			
12757						
H25-6311660	63	116	60	85	95	92
H25-6315060		150				

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

Malzeme / Material
1.7131 (16MnCr5) / Bronz
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

SAC KALIBI ÜRÜNLERİ
Cutting Mould Components

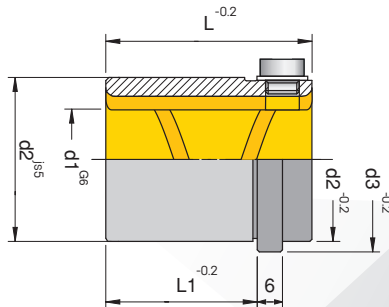


H26 Kısa Bronz Geçmeli Burç Guide Bush with Bronze



Ürün Kodu / Prod. Code	d1	L	L1	d2	d3
H26-193523	19	35	23	32	40
4533		45	33		
H26-203523	20	35	23	32	40
4533		45	33		
H26-243523	24	35	23	40	48
4533		45	33		
H26-253523	25	35	23	40	48
4533		45	33		
H26-304230	30	42	30	48	55
5240		52	40		
H26-324230	32	42	30	48	55
5240		52	40		
H26-385237	38	52	37	58	65
6247		62	47		
H26-405237	40	52	37	58	65
6247		62	47		
H26-486547	48	65	47	70	80
7557		75	57		
H26-506547	50	65	47	70	80
7557		75	57		
H26-638060	63	80	60	85	93

* İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H27
Şapkalı Bilyalı Burç
Guide Bush
with Ball Cage



HARDE®

Malzeme / Material
1.7131 (16MnCr5)

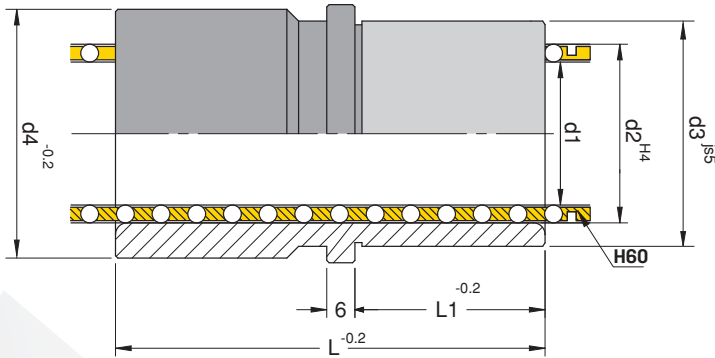
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

SAC KALIBI ÜRÜNLERİ
Cutting Mold Components



Ürün Kodu / Prod. Code	d1	L1	L	d2	d3	d4
H27-1626	16	26	70	22	30	34
36		36				
H27-2026	20	26	80	26	34	39
36		36				
H27-2526	25	26	90	31	40	44
36		36				
H27-3036	30	36	100	38	48	54
46		46				
H27-4036	40	36	112	48	58	64
46		46				
H27-5046	50	46	130	58	70	79
56		56				

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





HARDE®

Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC

SAC KALIBI ÜRÜNLERİ
Cutting Mould Components

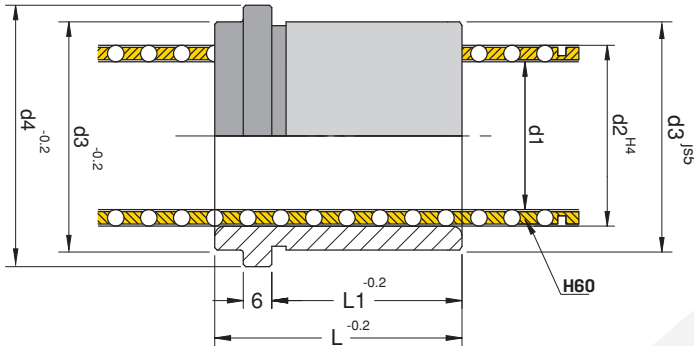


H28 Kısa Bilyalı Burç Guide Bush with Ball Cage



Ürün Kodu / Prod. Code	d1	L1	L	d2	d3	d4
H28-1626	16	26	39	22	30	34
36		36	49			
H28-2026	20	26	39	26	34	39
36		36	49			
H28-2526	25	26	39	31	40	44
36		36	49			
H28-3036	30	36	49	38	48	54
46		46	59			
H28-4036	40	36	49	48	58	64
46		46	59			
H28-5046	50	46	59	58	70	79
56		56	69			

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



H51

Çektirmeli Tespit Pimi
Dowel Pins



HARDE®



Malzeme / Material
1.7131 (16MnCr5)
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



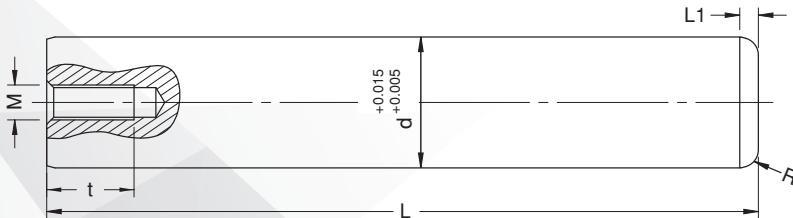
SAC KALIBRI ÜRÜNLERİ
Cutting Mould Components

Ürün Kodu / Product Code	d	L	L1	t	M	R
H51-0520	20					
25	25					
30	30					
35	35					
40	40					
45	45	5	1,7	6	M3	5
50	50					
55	55					
60	60					
70	70					
80	80					
H51-0620	20					
25	25					
30	30					
35	35					
40	40					
45	45					
50	50	6	2,1	6	M4	6
55	55					
60	60					
70	70					
80	80					
90	90					
100	100					
H51-0820	20					
25	25					
30	30					
35	35					
40	40					
45	45					
50	50	8	2,6	8	M5	8
55	55					
60	60					
70	70					
80	80					
90	90					
100	100					
120	120					

Ürün Kodu / Product Code	d	L	L1	t	M	R
H51-1020	20					
25	25					
30	30					
35	35					
40	40					
45	45					
50	50	10	3,0	10	M6	10
55	55					
60	60					
70	70					
80	80					
90	90					
100	100					
120	120					
H51-1220	20					
25	25					
30	30					
35	35					
40	40					
45	45					
50	50	12	3,8	10	M6	12
55	55					
60	60					
70	70					
80	80					
90	90					
100	100					
120	120					
H51-1430	30					
35	35					
40	40					
45	45					
50	50	14	4,0	12	M8	14
55	55					
60	60					
70	70					
80	80					

Ürün Kodu / Product Code	d	L	L1	t	M	R
H51-1490	90					
100	100	14	4,0	12	M8	14
120	120					
140	140					
H51-1630	30					
35	35					
40	40					
45	45					
50	50					
60	60	16	4,7	12	M8	16
70	70					
80	80					
90	90					
100	100					
120	120					
140	140					
H51-2030	30					
35	35					
40	40					
50	50					
60	60					
70	70	20	6,0	16	M10	20
80	80					
90	90					
100	100					
120	120					
140	140					

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.





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H60

Bilyalı Burç

Bush with Ball Cage



SAC KALIBI ÜRÜNLERİ
Cutting Mould Components

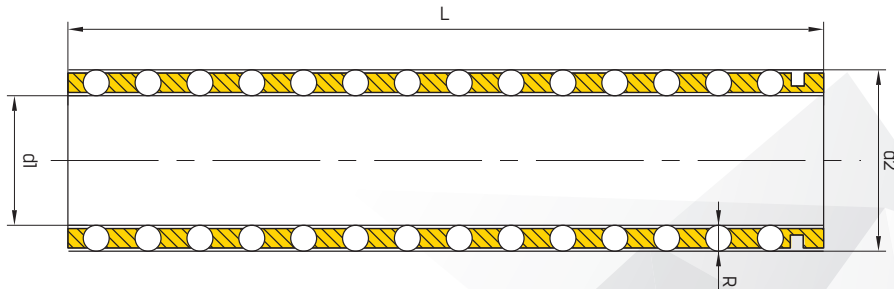
Malzeme / Material
Bilya Malz. - Ball Material : 1.3505 (100Cr6)
Bilya Kafesi / Cage Ball : Ms 58
Isıl İşlem / Heat Treatment
Sementasyon / Case Hardened
61 - 63 HRC



Ürün Kodu / Prod. Code	d1	L	d2	R	n
H60-1645	16	45	22	3	140
56		56			196
71		71			238
H60-2045	20	45	26	3	180
56		56			234
71		71			306
80		80			342
95		95			414
H60-2545	25	45	31	3	180
56		56			240
71		71			280
80		80			320
95		95			440
105		105			480
120		120			560
H60-3045	30	45	38	4	140
56		56			180
71		71			240
80		80			280
95		95			340
105		105			380
120		120			420
140		140			500

Ürün Kodu / Prod. Code	d1	L	d2	R	n
H60-4056	40	56	48	4	216
71		71			288
80		80			336
95		95			408
105		105			456
120		120			528
140		140			624
160		160			720
H60-5071	50	71	58	4	360
80		80			390
95		95			480
105		105			540
120		120			600
140		140			720
160		160			840
H60-6385	63	85	68	4	504
95		95			558
105		105			612
120		120			720
140		140			828
160		160			972

• İstenilen ölçülerde özel üretim yapılır. / Special production is made in desired dimensions.



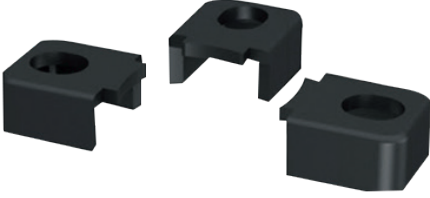
H90
Bağlama Pabucu
Pillar & Bush Clamp

Sertlik / Hardness
40 - 42 HRC

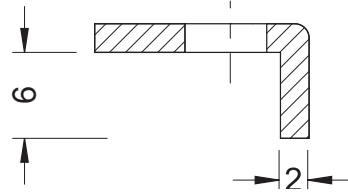
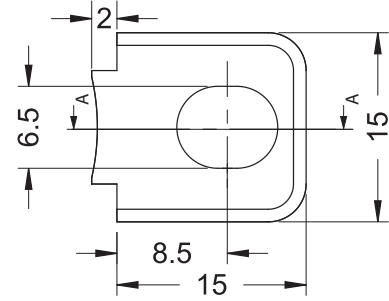
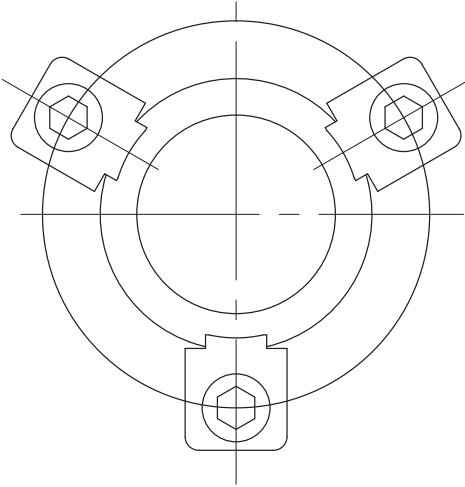


HARDE®

SAC KALIBRI ÜRÜNLERİ
Cutting / Mould Components



A-A KESİTİ



16MnCr5

16MnCr5 alaşımlı bir çeliktir ve kolayca işlenebilir. Sementasyon olabilmemesinden dolayı yüzeyde sert ve aşınmaya dayanıklı, çekirdekte ise daha yumuşak ve tok özelliklerin istenmesi malzemeyi tercih edilebilir kılmaktadır.

It is a 16MnCr5 alloyed steel and can be easily processed. Due to the possibility of case hardened, hard and wear-resistant properties on the surface and softer and tougher properties on the core make the material preferable.

Çeşit / Sort		Sementasyon Çeliği / Case Hardening Steel							
Alaşım Elemanları / Alloy Elements (%)		C	Si	Mn	P	S	Cr	Ni	Mo
	Min	0,14	-	1,00	-	-	0,80	-	-
	Max	0,19	0,40	1,30	0,025	0,035	1,10	-	0,30

100Cr6

100Cr6 rulmanlarda meydana gelen çok yüksek çekme, basınç ve aşınma etkilerini dayanıklı olması sebebiyle tercih edilmektedir.

100Cr6 resistant to very high tensile, pressure and wear effects that occur in rollers because of this, it is preferred.

Çeşit / Sort		Rulman Çeliği / Roller Steel						
Alaşım Elemanları / Alloy Elements (%)		C	Si	Mn	P	S	Cr	Mo
	Min	0,93	0,15	0,25	-	-	1,35	-
	Max	1,05	0,35	0,45	0,025	0,015	1,60	0,10

Tolerans Tablosu / Tolerance Table

Anma Ölçüleri / Nominal Dimensions	e7	f7	g6	h3	h4	h6	h7	js5	k6	G6	H4	H7
6 - 10	-25 -40	-13 -28	-5 -14	0 -2	0 -4	0 -9	0 -15	+3 -3	+10 +1	+14 +5	+4 0	+15 0
10 - 18	-32 -50	-16 -34	-6 -17	0 -2	0 -5	0 -11	0 -18	+4 -4	+12 +1	+17 +6	+5 0	+18 0
18 - 30	-40 -61	-20 -41	-7 -26	0 -3	0 -6	0 -13	0 -21	+4.5 -4.5	+15 +2	+20 +7	+6 0	+21 0
30 - 50	-50 -75	-25 -50	-9 -25	0 -4	0 -7	0 -16	0 -25	+5.5 -5.5	+18 +2	+25 +9	+7 0	+25 0
50 - 80	-60 -90	-30 -60	-10 -29	0 -5	0 -8	0 -19	0 -30	+6.5 -6.5	+21 +2	+29 +10	+8 0	+30 0
80 - 120	-72 -107	-36 -71	-12 -34	0 -6	0 -10	0 -22	0 -35	+7.5 -7.5	+25 +3	+34 +12	+10 0	+35 0





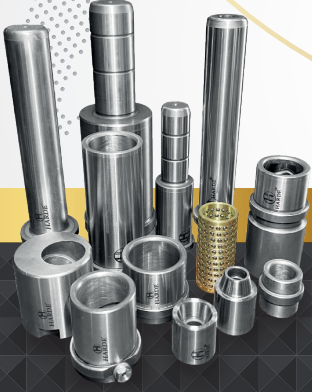
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HARDE[®]

KALIP ELEMENLARI

MOLD COMPONENTS



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