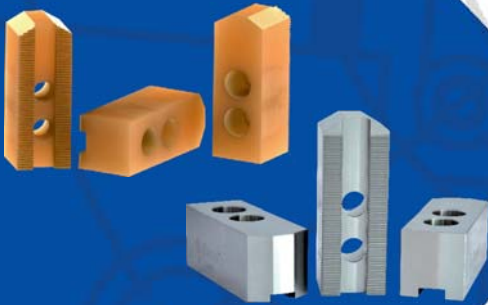


since
1994

18/01

GENEL KATALOG / GENERAL CATALOGUE

ÖZKAYALI Makina; 1994 yılında kurulmuş olup, Makina Takımları ve Ekipmanları üzerine üretime başlamıştır. Kalite ve standart üretimi kendisine bir ilke edinmiştir. Teknolojiyi yakından takip eden firmamız, her geçen gün yaptığı yeni yatırımları ile üretim kapasitesini ve ürün yelpazesini artırmaktadır.

ÖZKAYALI Makina; bu güne kadar ekonomik ve kaliteli üretim yaparak, müşteri memnuniyetini ön planda tutmaktadır.

Firmamızın ürünlerini tercih edip bizlere destek verdiğinizden dolayı teşekkür eder, işlerinizde başarılar dileriz.

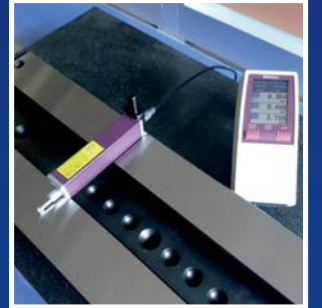
Saygılarımızla

OZKAYALI Machinery was established in 1994 and started to manufacture machinery equipment. When beginning production, it made quality principle and continuous to the way of making standart production. Upon request of companies who are producing automotive and machine tool as well as standart production, it produces special centers and machine tools. Because of increase productivity, OZKAYALI has been appreciated.

OZKAYALI adopts quality and problem-free economic production as a duty for your special centers and machine tools orders.

You can inform your complaints and request directly to our company or via dealers and contact with us for your orders for special centers and machine tools.

Best Regards





01

**3 Ayaklı
Açık Merkez
Hidrolik Ayna**
3 Jaw High-Speed
Open-Center
Hydraulic Chucks

CHS



02

**4 Ayaklı
Açık Merkez
Hidrolik Ayna**
4 Jaw High-Speed
Open-Center
Hydraulic Chucks

CHS



03

**3 Ayaklı
Büyük Açık Merkez
Hidrolik Ayna**
3 Jaw High-Speed
Mega Bore
Open-Center
Hydraulic Chucks

CHB



04

**2 Ayaklı
Açık Merkez
Hidrolik Ayna**
2 Jaw High-Speed
Open-Center
Hydraulic Chucks

CHS



05

**5 Eksen Makine
Mengenesi**
5 Axis Machinery
Vice

CNX



06

**Çoklu Seri Bağlama
Mengene**
Multiple Serial
Vices

CSM



07

**Hidrolik
Mengene**
Hydraulic
Vice

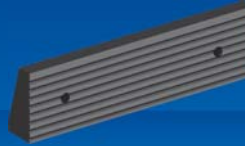
HM



08

**Süper Hassas
Tezgah Mengenesi**
Super Precision
Machine Vice

CTM



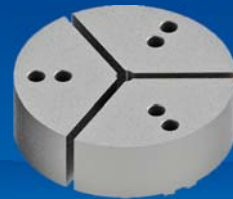
09-10

**Mengene
Yedekler**
Vice Parts



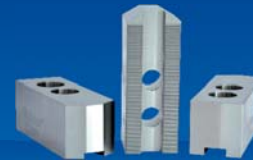
11-13

Yumuşak Ayaklar
Soft Jaws



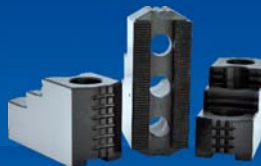
14

**Daire Yumuşak
Ayaklar**
Circle
Soft Jaw



15

**INCH Yumuşak
Ayaklar**
INCH Soft
Jaws



16

**Hidrolik Ayna
Sert Ayak**
Power Chuck
Hard Jaws



17-18

**Hidrolik Ayna
Tırnaklı Sert Ayak**
*Hydraulic Chuck
Claw Hard Jaw*



**Yumuşak Ayak
Tornalama Aparatı**
*Soft Jaw Turning
Apparatus*



19

T - Somunlar
T - Nuts



20

**CNC Hidrolik Ayna
İçin Pnömatik Silindir**
*Pneumatic Cylinder
For Hydraulic
Chucks*



**CNC Torna İçin
Çubuk Çekici**
*Bar Puller For
CNC Lathers*



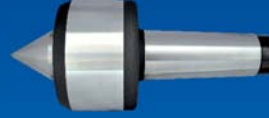
21

**Hassas CNC normal
döner punta**
*Precision CNC normal
rotary centers*



22

**CNC normal somunlu
döner punta**
*Precision CNC nut
rotary centers*



23

**Ağır yük için
hassas döner punta**
*Precision rotary centers
for heavy load*



24

Hassas döner punta
Precision rotary centers



25

**Yüksek devir CNC
hassas döner punta**
*Precision CNC rotary
center high rotation*



26

**Hassas CNC ince
çaplı döner punta**
*Precision CNC slim
size rotary center*



27

**Hassas değişir uçlu
CNC döner punta**
*With precision
convertible edge
CNC rotary center*



28


Hassas döner boru puntası
Precision rotary pipe centers

29


Hassas somunlu döner boru puntası
Precision nut rotary pipe centers

30


Hassas sert metal uçlu döner punta
Precision hard metal tipped rotary center

31


Şapkalı boru puntası
Capped pipe centers

32


Silindir Şaftlı Set Tırnaklı Punta
Cylindrical Connector Center With Set Jaws

33


Hassas mekanik kilitli tırnaklı punta
Precision mechanic locked catch type centers

34


Altıköşe Açma Döner Punta
Hexagonal Opening Rotary Center

Altıköşe Zimba
Hexagonal Punch

35-36


Somunlu sabit punta
Fixed centre with nut

Hassas normal sabit punta
Precision normal fixed center

37


CNC Torna Kater Redüksiyon Kovanı
CNC Lathe Shank Hive Reduction

39


CNC Torna Kater Redüksiyon Kovanı
CNC Lathe Shank Hive Reduction

40


CNC Torna Mors Adaptörü
CNC Lathe Morse Adapter

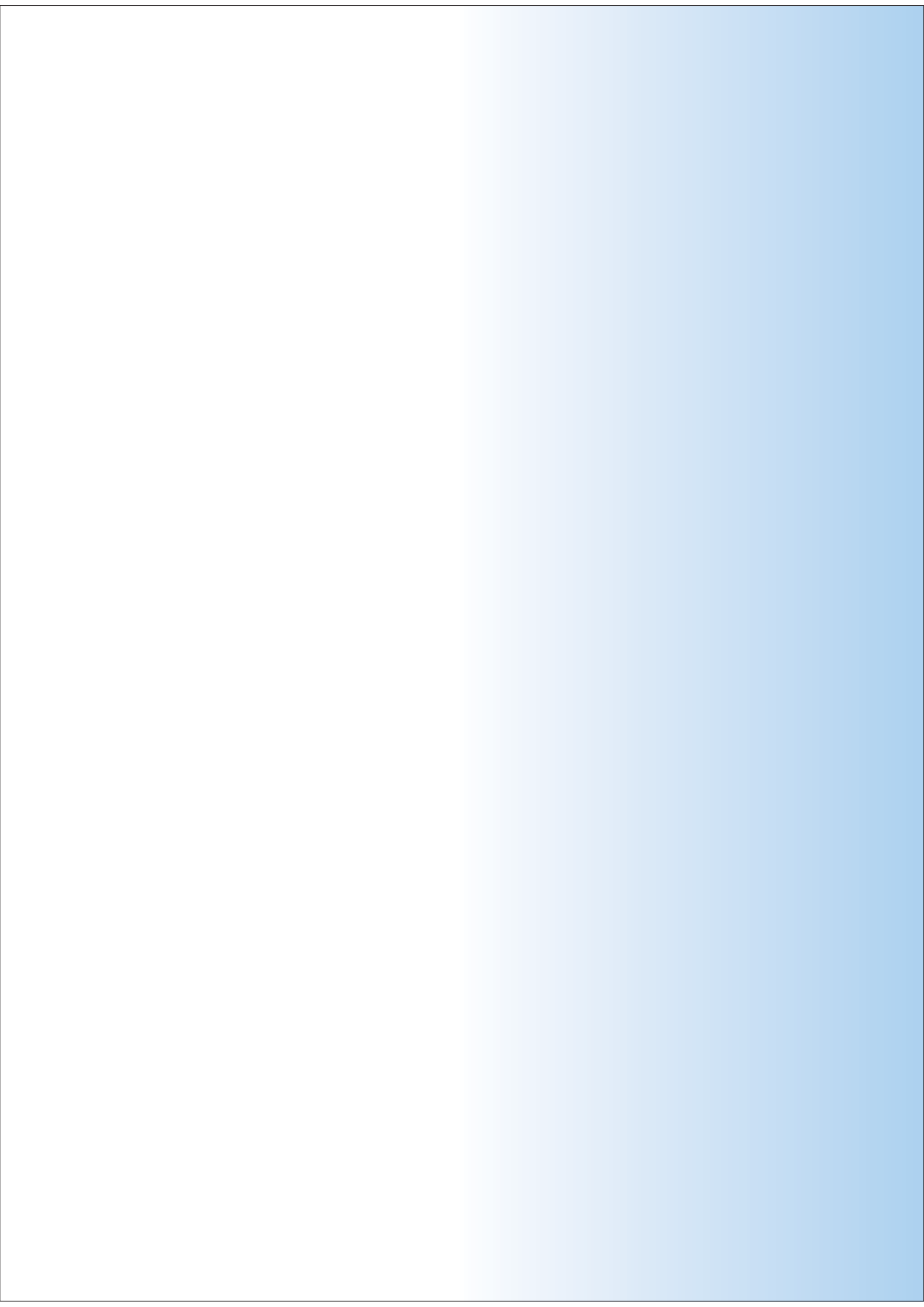
41


Hassas mors kovanları
Precision morse hives

42


Hassas mandren koniği
Precision mandren conic

Uzatma Mors Kovanı
Extension morse hive

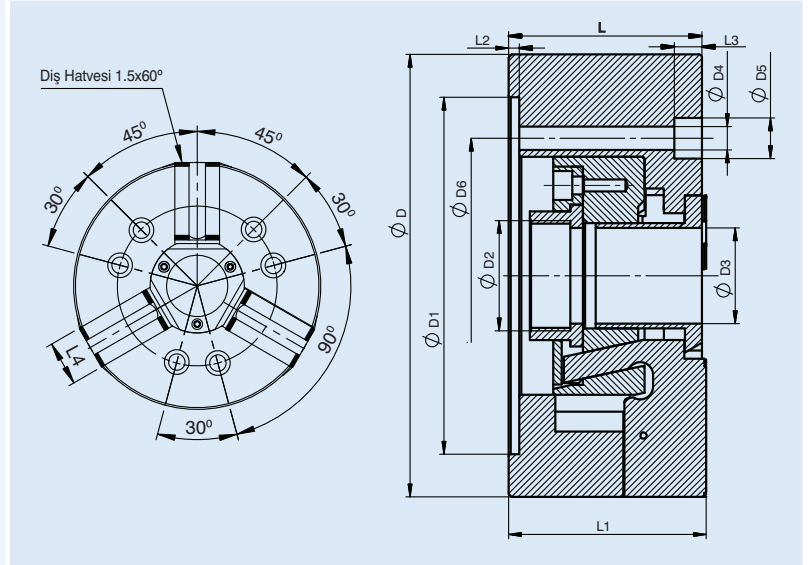
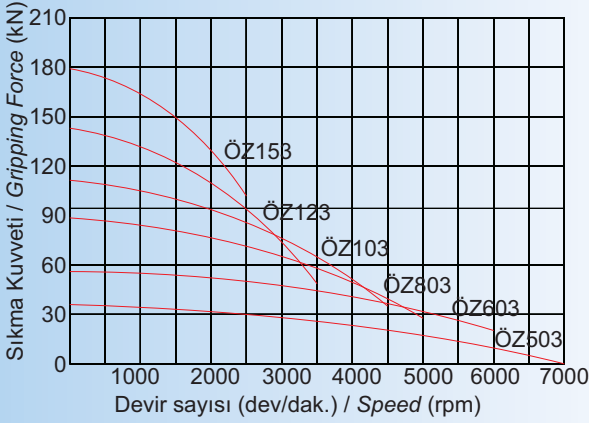


CHS

3 AYAKLI AÇIK MERKEZ HİDROLİK AYNA 3 JAW HIGH-SPEED OPEN-CENTER HYDRAULIC CHUCKS



Devir Sayısı - Sıkma Kuvveti
Speed - Gripping Force Diagram



Ayna gövdesi ve hareketli parçalar alaşımlı çelikten üretilmiş olup sertleştirilmiş ve yüksek hassasiyetli olarak taşlanmıştır.

Yüksek hassasiyet, yüksek dayanımlılık.

*Moving parts and chuck's body have been made of hardened alloy steel and precisely ground.
High precision and durability.*

Teknik Ölçüler / Technical Dimensions

Sipariş Kodu Order Code	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
ÖZ503	135	110	M40X1,5	33	12	17	82,60	62	64	4	12	24
ÖZ603	169	140	M55X2	45	12	17	104,80	81	83	5	12	32
ÖZ803	210	170	M60X2	52	14	20	133,40	91	93	5	18	38
ÖZ103	254	220	M85X2	75	18	26	171,40	100	102	5	18	41
ÖZ123	305	280	M100X2	85	18	26	171,40	110	112	6	18	51
ÖZ153	381	300	M130X2	120	22	32	235	134	138	6	22	62

Teknik Özellikler / Technical Specifications

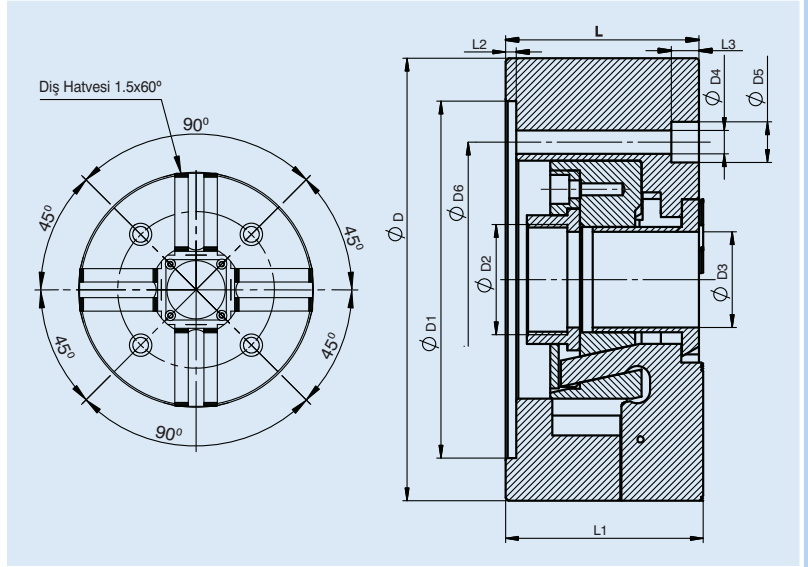
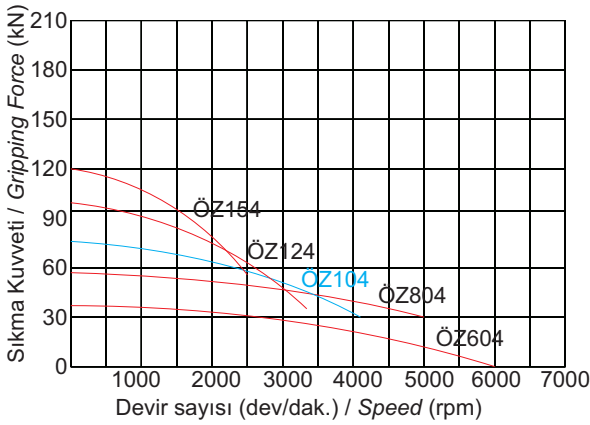
Sipariş Kodu Order Code	Ayak Stroku Jaw Stroke	Max. Devir Max. Speed	Max. Çekme Kuvveti Max. Drawbar Pull	Max. Sıkma Kuvveti Max. Gripping Force	Piston Stroku Shifter Stroke	Bağlantı Flanş No Flange No	Sert Ayak ile Sıkma Çapı Min.-Max. Gripping Dia With Hard Jaws Min.-Max.	Ağırlık (kg) Weight
ÖZ503	5.5	7000	17 KN	36 KN	10	A4	11 135	7
ÖZ603	5.5	6000	21 KN	56 KN	13	A5	12 169	10
ÖZ803	7.3	5000	35 KN	85 KN	17	A5 - A6	12 210	20
ÖZ103	8.5	4500	42 KN	110 KN	20	A6 - A8	28 254	30
ÖZ123	8.5	3500	54 KN	143 KN	20	A8	32 305	46
ÖZ153	10.6	2500	71 KN	179 KN	23	A8 - A11	45 381	120

CHS

4 AYAKLI AÇIK MERKEZ HİDROLİK AYNA 4 JAW HIGH-SPEED OPEN-CENTER HYDRAULIC CHUCKS



Devir Sayısı - Sıkma Kuvveti
Speed - Gripping Force Diagram



Ayna gövdesi ve hareketli parçalar alaşımlı çelikten üretilmiş olup sertleştirilmiş ve yüksek hassasiyetli olarak taşlanmıştır.

Yüksek hassasiyet, yüksek dayanımlılık.

*Moving parts and chuck's body have been made of hardened alloy steel and precisely ground.
High precision and durability.*

Teknik Ölçüler / Technical Dimensions

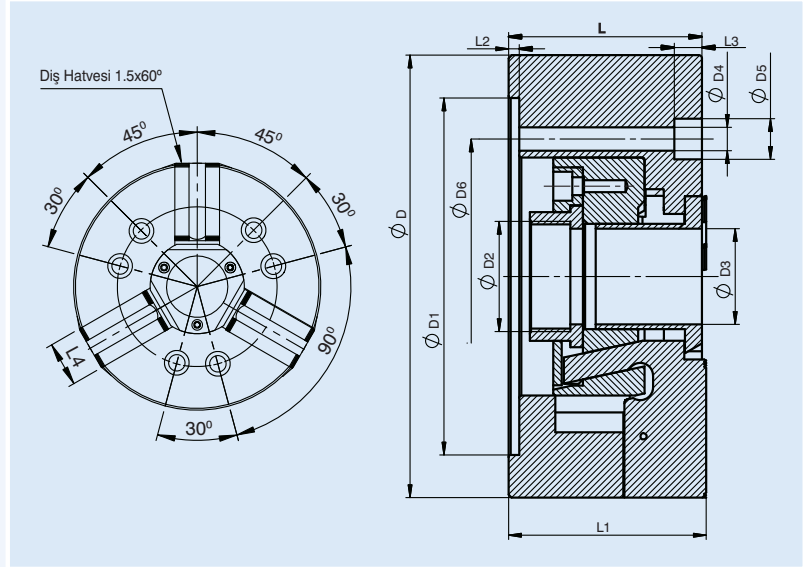
Sipariş Kodu	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
Order Code												
ÖZ604	169	140	M55X2	45	12	17	104,80	81	83	5	12	32
ÖZ804	210	170	M60X2	52	14	20	133,40	91	93	5	18	38
ÖZ104	254	220	M85X2	75	18	26	171,40	100	102	5	18	41
ÖZ124	305	280	M100X2	85	18	26	171,40	110	112	6	18	51
ÖZ154	381	300	M130X2	120	22	32	235	134	138	6	22	62

Teknik Özellikler / Technical Specifications

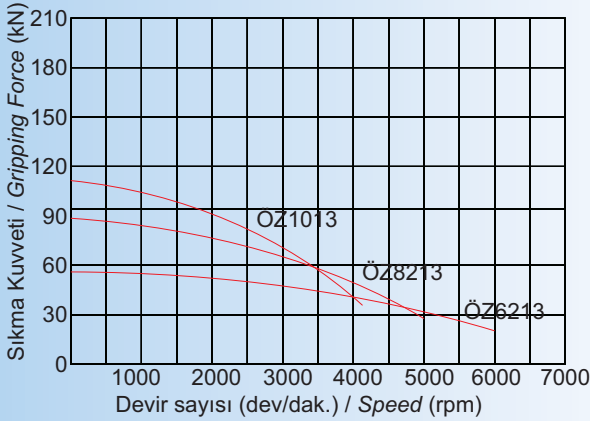
Sipariş Kodu	Ayak Stroku	Max. Devir	Max. Çekme Kuvveti	Max. Sıkma Kuvveti	Piston Stroku	Bağlantı Flanş No	Sert Ayak ile Sıkma Çapı Min.-Max.		Ağırlık (kg)
Order Code	Jaw Stroke	Max. Speed	Max. Drawbar Pull	Max. Gripping Force	Shifter Stroke	Flange No	Gripping Dia With Hard Jaws Min.-Max.		Weight
ÖZ604	5.5	6000	15 KN	38 KN	13	A5	12	169	10
ÖZ804	7.3	5000	23 KN	57 KN	17	A6	12	210	20
ÖZ104	8.5	4200	28 KN	74 KN	20	A8	28	254	30
ÖZ124	8.5	3300	37 KN	96 KN	20	A8	32	305	46
ÖZ154	10.6	2500	43 KN	120 KN	23	A8 - A11	45	381	120

CHB

3 AYAKLI BÜYÜK AÇIK MERKEZ HİDROLİK AYNA 3 JAW HIGH-SPEED MEGA BORE OPEN-CENTER HYDRAULIC CHUCKS



Devir Sayısı - Sıkma Kuvveti
Speed - Gripping Force Diagram



Ayna gövdesi ve hareketli parçalar alaşımlı çelikten üretilmiş olup sertleştirilmiş ve yüksek hassasiyetli olarak taşlanmıştır.

Yüksek hassasiyet, yüksek dayanımlılık.

Moving parts and chuck's body have been made of hardened alloy steel and precisely ground.

High precision and durability.

Teknik Ölçüler / Technical Dimensions

Sipariş Kodu Order Code	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
ÖZ6213	169	140	M60X2	52	12	17	104,80	81	83	5	12	32
ÖZ8213	210	170	M75X2	66	14	20	133,40	91	93	5	18	38
ÖZ1013	254	220	M90X2	81	18	26	171,40	100	102	5	18	41

Teknik Özellikler / Technical Specifications

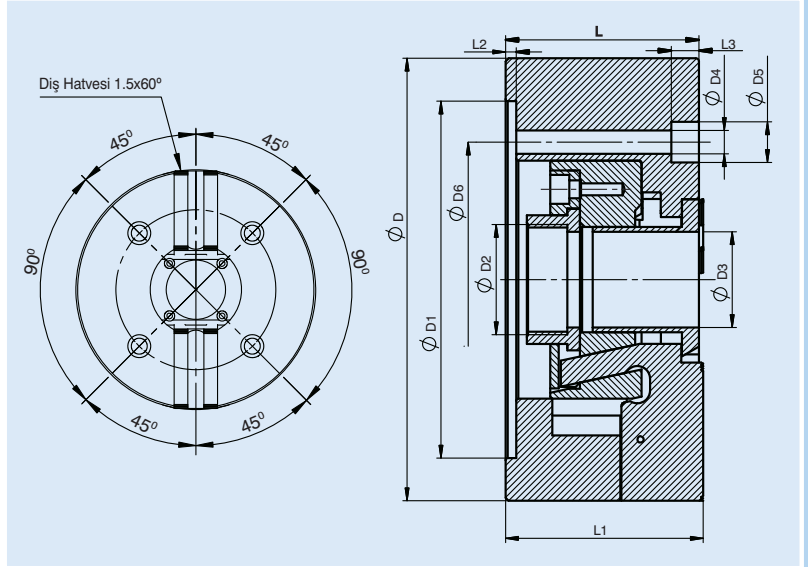
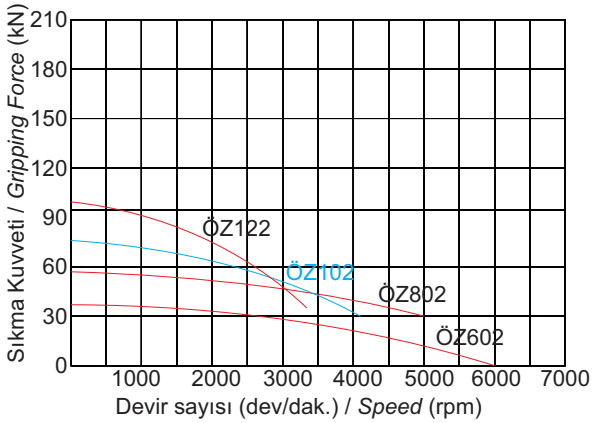
Sipariş Kodu Order Code	Ayak Stroku Jaw Stroke	Max. Devir Max. Speed	Max. Çekme Kuvveti Max. Drawbar Pull	Max. Sıkma Kuvveti Max. Gripping Force	Piston Stroku Shifter Stroke	Bağlantı Flanş No Flange No	Sert Ayak ile Sıkma Çapı Min.-Max. Gripping Dia With Hard Jaws Min.-Max.	Ağırlık (kg) Weight
ÖZ6213	5.5	6000	24.7 KN	58 KN	13	A5	12 169	12
ÖZ8213	7.3	5000	36.4 KN	87 KN	17	A6	12 210	20
ÖZ1013	8.5	4500	49 KN	126 KN	20	A8	28 254	30

CHS

2 AYAKLI AÇIK MERKEZ HİDROLİK AYNA 2 JAW HIGH-SPEED OPEN-CENTER HYDRAULIC CHUCKS



Devir Sayısı - Sıkma Kuvveti
Speed - Gripping Force Diagram



Ayna gövdesi ve hareketli parçalar alaşımlı çelikten üretilmiş olup sertleştirilmiş ve yüksek hassasiyetli olarak taşlanmıştır.
Yüksek hassasiyet, yüksek dayanımlılık.

*Moving parts and chuck's body have been made of hardened alloy steel and precisely ground.
High precision and durability.*

Teknik Ölçüler / Technical Dimensions

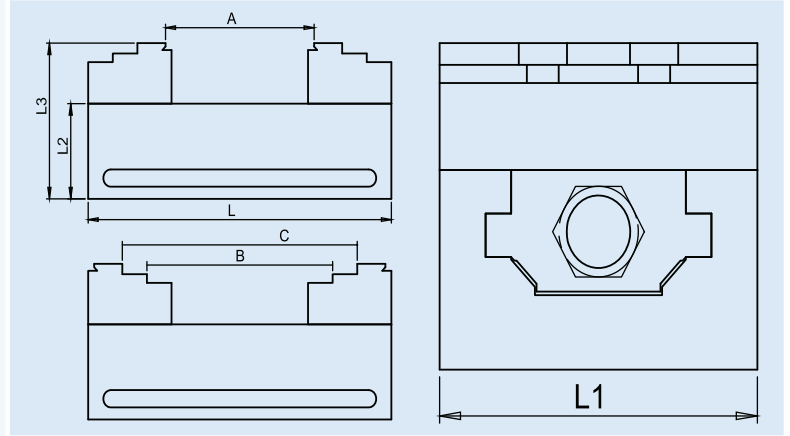
Sipariş Kodu Order Code	D	D1	D2	D3	D4	D5	D6	L	L1	L2	L3	L4
ÖZ602	169	140	M55X2	45	12	17	104,80	81	83	5	12	32
ÖZ802	210	170	M60X2	52	14	20	133,40	91	93	5	18	38
ÖZ102	254	220	M85X2	75	18	26	171,40	100	102	5	18	41
ÖZ122	305	280	M100X2	85	18	26	171,40	110	112	6	18	51

Teknik Özellikler / Technical Specifications

Sipariş Kodu Order Code	Ayak Stroku Jaw Stroke	Max. Devir Max. Speed	Max. Çekme Kuvveti Max. Drawbar Pull	Max. Sıkma Kuvveti Max. Gripping Force	Piston Stroku Shifter Stroke	Bağlantı Flanş No Flange No	Sert Ayak ile Sıkma Çapı Min.-Max. Gripping Dia With Hard Jaws Min.-Max.		Ağırlık (kg) Weight
ÖZ602	5.5	6000	15 KN	38 KN	13	A5	12	169	10
ÖZ802	7.3	5000	23 KN	57 KN	17	A6	12	210	20
ÖZ102	8.5	4200	25 KN	74 KN	20	A8	28	254	30
ÖZ122	8.5	3300	37 KN	96 KN	20	A8	32	305	46

CNX

5 EKSEN MAKİNA MENGENESİ / 5 AXIS MACHINERY VICE



Sipariş Kodu	Ölçüler / Dimensions				A Min-Max	B Min-Max	C Min-Max
Order Code	L	L1	L2	L3			
CNX75100	200	75	41	76	0-100 mm.	35-125 mm.	65-155 mm.
CNX75150	250	75	41	76	0-150 mm.	35-175 mm.	65-200 mm.
CNX75200	300	75	41	76	0-200 mm.	35-225 mm.	65-250 mm.
CNX100150	200	100	55	90	0-100 mm.	35-125 mm.	65-155 mm.
CNX100350	350	100	55	90	0-250 mm.	35-275 mm.	65-300 mm.

5 eksen cnc makinelerinde iş parçalarını tutmak için tasarlanan mengene,hafif tasarımı ve ufak boyutları nedeniyle makina tablasında çok fazla ağırlık etki etmeden iş parçasını işleme imkanı sunmaktadır.

Yüksek sıkma gücüne sahip 5 eksen mengenenin, çenelerdeki iş parçasını sıkın kısımları hassas olarak taşlanmıştır ve malzemeyi tutan bölümlerine çentik açılmıştır. Bu sayede mengenenin sıkma esnasında çentikler iş parçasına batarak iş parçasını daha sağlıklı tutması sağlanmıştır.

- Ürün alaşımlı çelikten imal edilmiştir. Tüm hassas yüzeyleri dikey ve paralel şekilde taşlanmıştır.
- Max sıkma Torku 20 Kn.
- Yüzey Hassasiyetleri 0.001'dir.

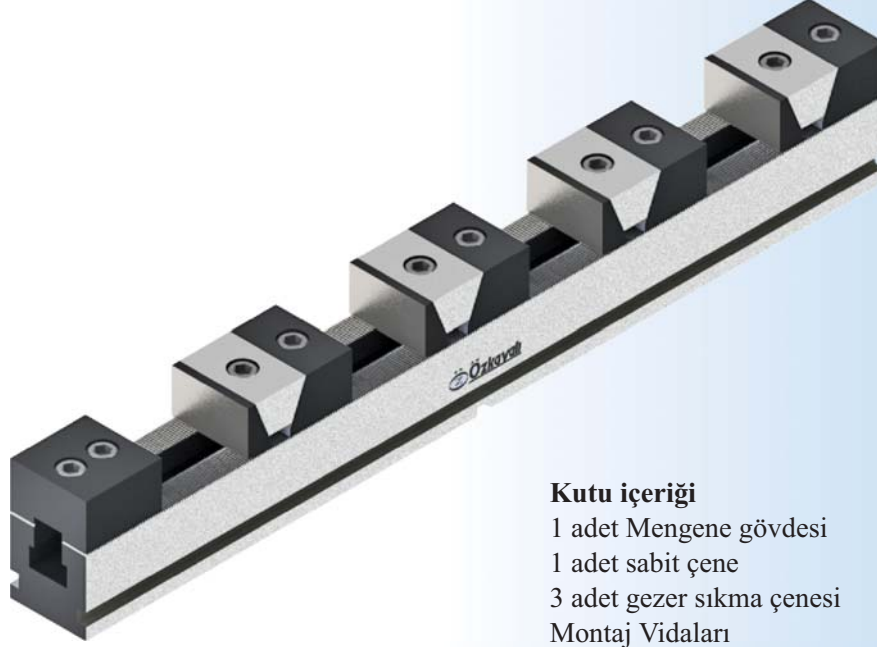
Designed to hold workpieces on 5-axis cnc machines, the vices offers the possibility to process the workpiece without affecting too much weight on the machine table due to its lightweight design and small dimensions.

5 axis vices have high clamping power. To increase the clamping force, the jaws are notched, in this way, the notches touch the workpiece and provide a stronger tightening process.

- The product is made of alloyed steel. All precision surfaces are grinding vertically and in parallel.
- Max. Gripping force 20 Kn.
- All surfaces precision 0.001.

CSM

ÇOKLU SERİ BAĞLAMA MENGENE / MULTIPLE SERIAL VICES

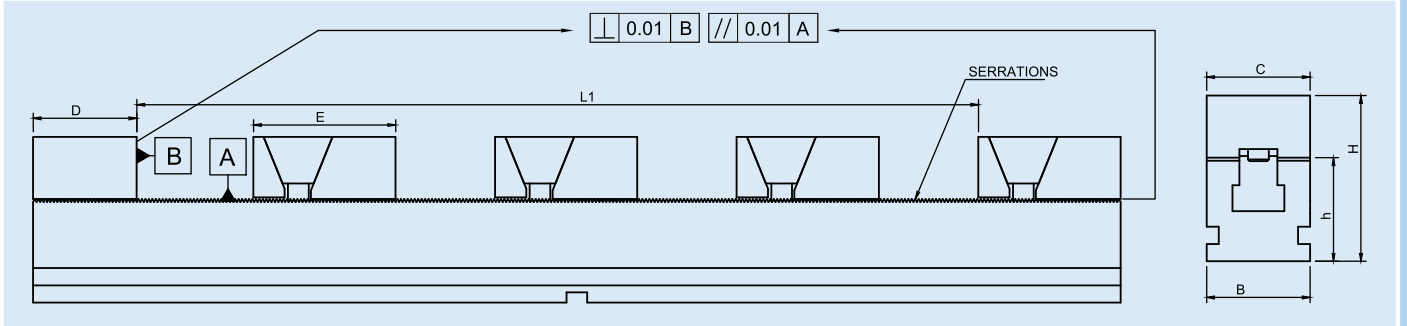


Kutu içeriği

1 adet Mengene gövdesi
1 adet sabit çene
3 adet gezer sıkma çenesi
Montaj Vidaları

Packet Contents

1 pcs Vices body
1 pcs Fixed jaws
3 pcs clamping jaws
Mounting bolts



Sipariş Kodu	Ölçüler / Dimensions									Diş Hatvesi	Sıkma Kuvveti	Ağırlık (kg.)
Order Code	L	L1	A	B	C	D	E	H	h	Serrations	Max. Gripping Force	Weight (kg.)
CSM60300	300	160	35	60	60	60	83	90	60	3x60°	20 Kn.	15
CSM60700	700	560	35	60	60	60	83	90	60	3x60°	20 Kn.	20
CSM70300	300	160	40	70	70	60	83	100	70	3x60°	25 Kn.	19
CSM70700	700	560	40	70	70	60	83	100	70	3x60°	25 Kn.	28

Çoklu seri bağlama mengene, seri imalat ve adetli üretimlerde mengene tablasına 1 den fazla iş parçasını bağlama için tasarlanmıştır. Yüksek hassiyete sahip mengene yüksek sıkma gücü ile birden fazla iş parçasını aynı anda sıkabildiğinden üretimi hızlandırmaktadır.

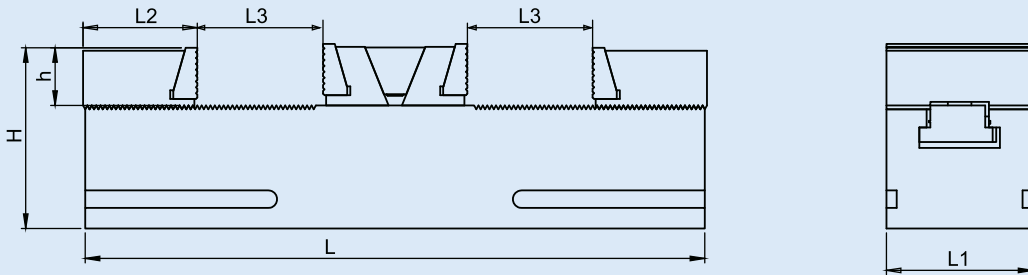
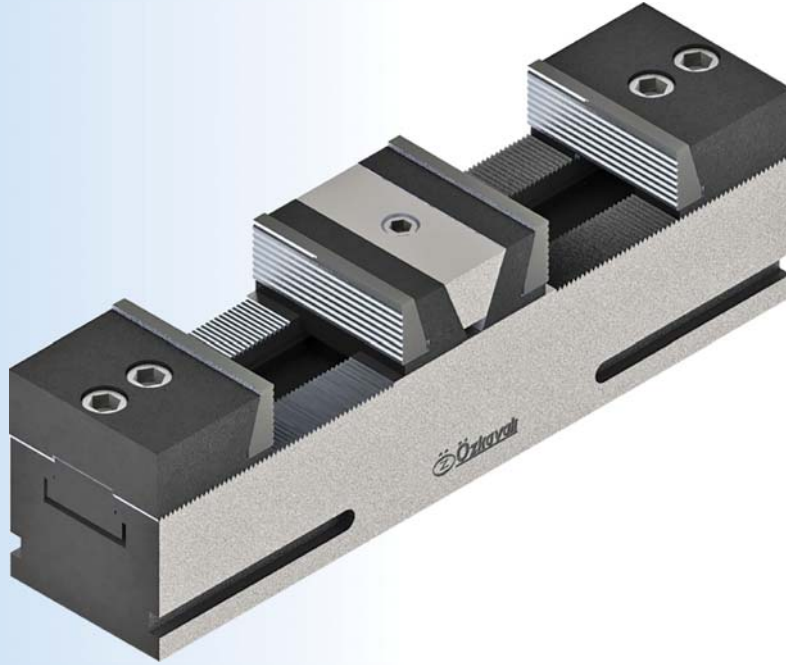
Günümüz Cnc tezgahlarında ,yatay işleme merkezlerinde ve üretimin bir çok alanında kullanılabilen çoklu seri bağlama mengineenin gövdesi alaşımlı çelikten imal edilmiş ve tüm yüzeyleri hassas bir şekilde taşlanmıştır. Mengene yüzey hassasiyetleri 0.01 mm'dir.

Multi serial vices, Designed to tighten more than 1 workpiece at the same time. High-precision vise with high clamping force accelerates production as it can tighten multiple workpieces simultaneously.

The body of multi-series vise, which can be used in today's CNC machines, horizontal machining centers and in many areas of production, is made of alloy steel and All surfaces are precision grinding. Vices surface precision 0.01 mm.

HM

HİDROLİK MENGENE / HYDRAULIC VİCE



Sipariş Kodu	Ölçüler / Dimensions						Max. Sıkma Kuvveti	Ağırlık (kg.)
Order Code	L	L1	L2	L3	H	h	Max. Gripping Force	Weight (kg.)
HM10085	423	100	78	85	123	40	3250 kgf./cm ²	30

Tek bir hidrolik ünite ile çoklu kurulumla olanak sağlayan hidrolik mengene tek gövde üzerinde 2 adet iş parçasını sıkma özelliğine sahiptir. Makine tablası üzerine sıralanabilen 1 den fazla hidrolik mengenenin tek bir buton yardımı ile açılıp kapanması sağlanabilmektedir.

Normal üretim ve seri imalatla kullanılabilen hidrolik mengene, normal mangelere göre açılıp kapanma süresi hızlı olduğundan iş akışını hızlandırmaktadır.

Yüksek sıkma gücüne sahip hidrolik mengenenin tüm yüzeyleri hassas olarak taşlanmıştır. Gövde alaşımlı çelikten imal edilmiş aşınmaya karşı dirençli hale getirilmiştir.

Hydraulic vice, which allow multiple installation with a single hydraulic unit, have 2 workpieces clamping on a single body.

More than 1 hydraulic vice that can be listed on the machine table can be opened and closed with the help of a single button. Hydraulic vices, which can be used in normal production and mass production, accelerate the flow of work as the opening and closing time is fast according to normal vices.

The hydraulic vise has a high clamping force and All surfaces are precision grinded.

The body is made of alloy steel and made resistant to wear.

CTM

SÜPER HASSAS TEZGAH MENGENESİ SUPER PRECISION MACHINE VICE

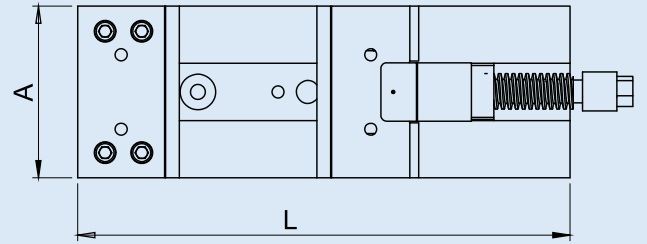
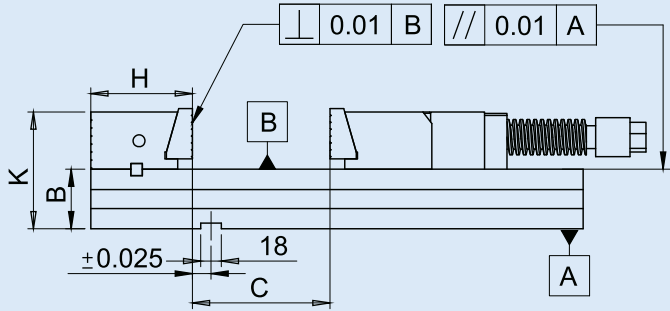


Kutu içeriği

4 adet T - Somun
4 Adet Bağlama Pabuç
1 Adet İş Parçası Dayama
1 Adet Sıkma Anahtarı
Montaj Civataları

Packet Contents

4 pcs T - Nuts
4 pcs Centering Wedge
1 pcs Workpiece Fixing
1 pcs Gripping Key
Mounting bolts

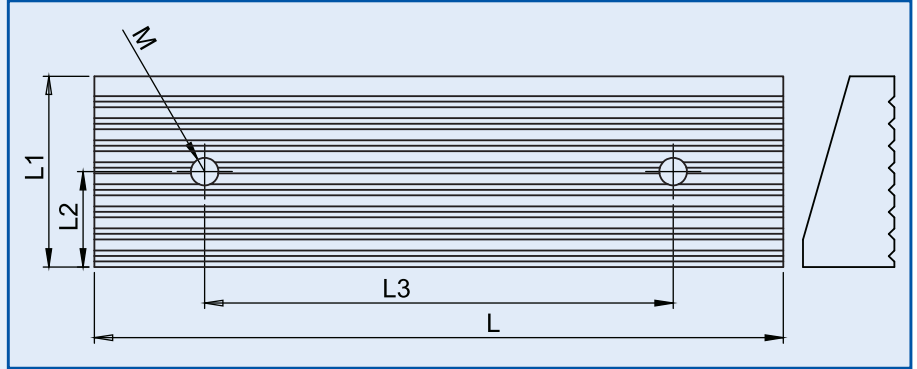
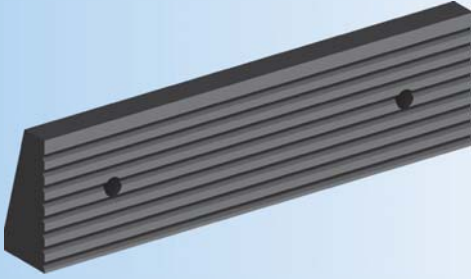


Sipariş Kodu	Ölçüler / Dimensions						Max. Sıkma Kuvveti (kn)	Ağırlık (kg.)
Order Code	A	C	H	B	K	L	Max. Gripping Force (kn)	Weight (kg.)
CTM12513	125	130	79	40	80	335	32	12.8
CTM15020	150	200	89	52	102	430	43	38.8
CTM17530	175	300	97	60	120	560	43	50.8
CTM20030	200	300	100	65	128	575	45	60.2
CTM20060	200	400	100	65	128	675	45	75

Mengeneler alaşımlı çelikten üretilmiş olup 58-60 HRC sertleştirilmiş ve yüzeyleri yüksek hassasiyette taşlanmıştır. İş parçası bağlamak için, hızlı çene ayarı ve kolay kullanım.

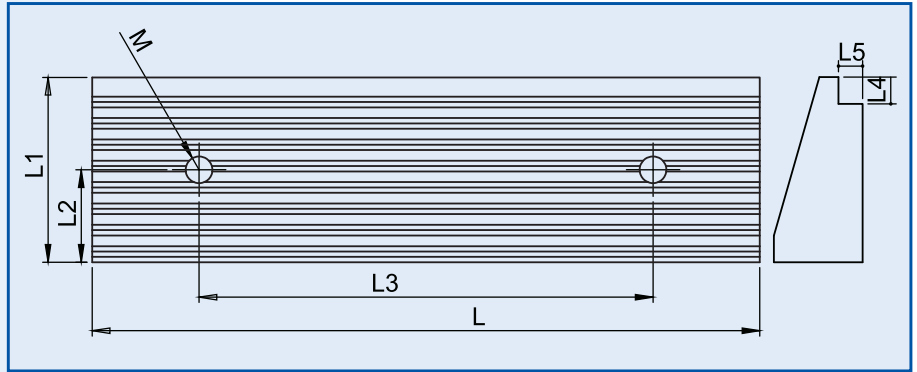
*Vices are made with hardened 58-60 HRC alloy steel and it's surface is ground precisely.
It's claw is quick for fasten work piece and easy to use.*

MENGENE YEDEKLER / VICE PARTS



HASSAS TEZGAH MENGENESİ SERT ÇENE TİP 1500 / TYPE 1500

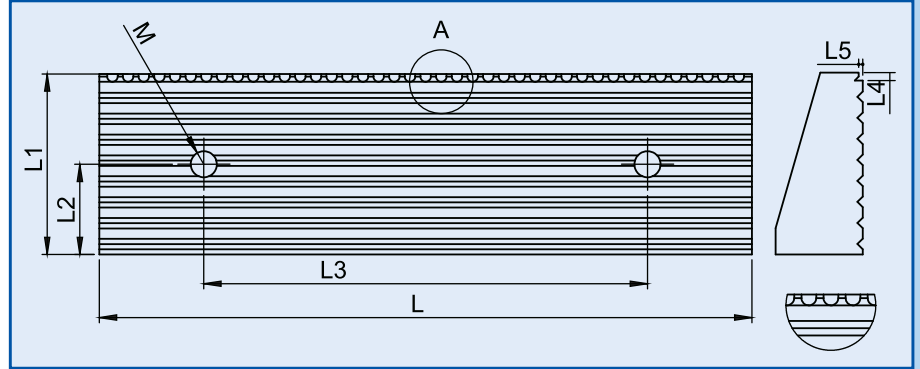
Sipariş Kodu Order Code	Ölçüler / Dimensions				
	L	L1	L2	L3	M
CT0126	125	34,5	17	85	M5
CT0151	150	44	22	95	M5
CT0176	175	50	25	105	M6
CT0201	200	53	26	135	M6



HASSAS TEZGAH MENGENESİ SERT ÇENE TİP 1850 / TYPE 1850

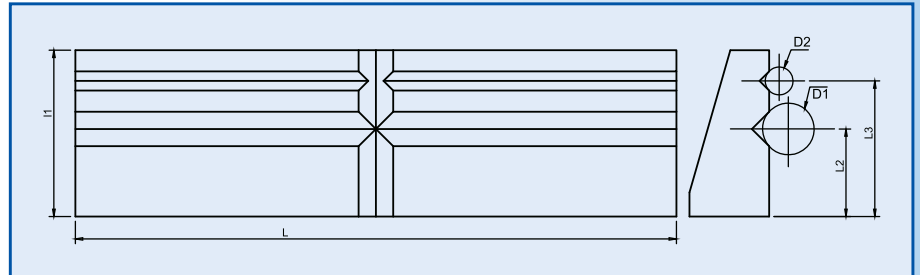
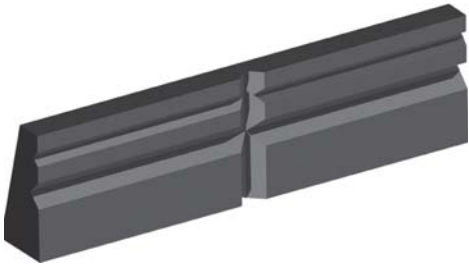
Sipariş Kodu Order Code	Ölçüler / Dimensions						
	L	L1	L2	L3	L4	L5	M
CT0132	125	34,5	17	85	3	3	M5
CT0157	150	44	22	95	3	3	M5
CT0182	175	50	25	105	3	3	M6
CT0207	200	53	26	135	3	3	M6

MENGENE YEDEKLER / VICE PARTS



HASSAS TEZGAH MENGENESİ SERT ÇENE TİP 1250 / TYPE 1250

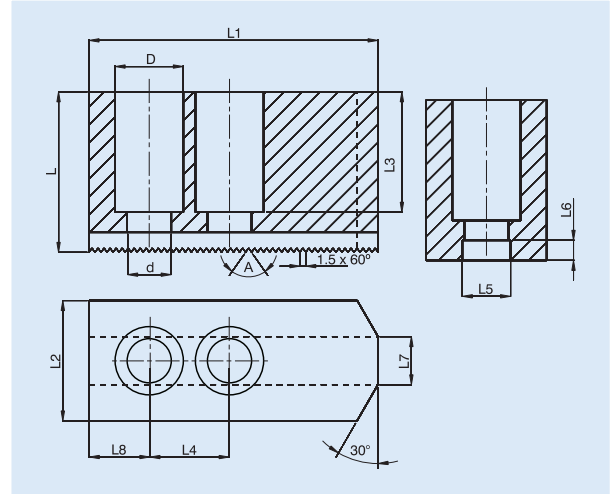
Sipariş Kodu Order Code	Ölçüler / Dimensions						
	L	L1	L2	L3	L4	L5	M
CT0130	125	34,5	17	85	3	3	M5
CT0155	150	44	22	95	3	3	M5
CT0180	175	50	25	105	3	3	M6
CT0205	200	53	26	135	3	3	M6



HASSAS TEZGAH MENGENESİ SERT ÇENE TİP 1750 / TYPE 1750

Sipariş Kodu Order Code	Ölçüler / Dimensions					
	L	L1	L2	L3	D1	D2
CT0131	125	34,5	18	28	7-36	4-50
CT0156	150	44	24	37	11-48	6-65
CT0181	175	50	28	42	8-56	7-75
CT0206	200	53	29	44	10-60	8-80

YUMUŞAK AYAKLAR / SOFT JAWS



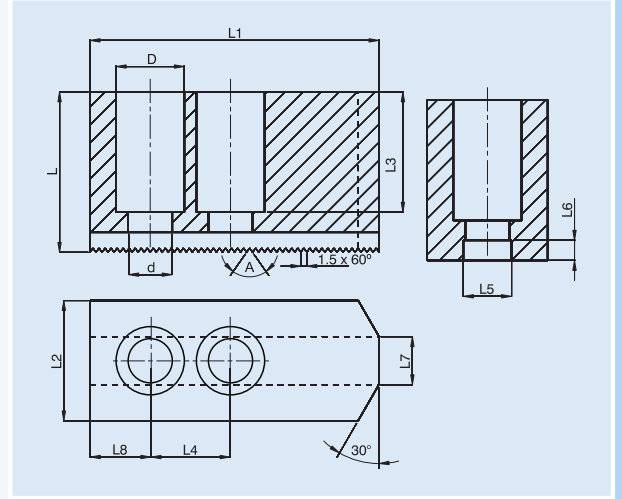
STANDART YUMUŞAK AYAK / STANDARD SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
YU 040	4"	1.5 X 60°	23	52	23	13	14	10	4	5	10	14	9
YU 050	5"	1.5 X 60°	30	62	25	21	14	10	4	5	10	14	9
YU 060	6"	1.5 X 60°	32	72	30	20	20	12	5	10	15	17	11
YU 080	8"	1.5 X 60°	37	95	35	22	25	14	5	12	25	19	13
YU 0100	10"	1.5 X 60°	42	110	40	29	30	16	5	14	30	19	13
YU 0120	12"	1.5 X 60°	52	130	50	32	30	18	5	16	30	23	15
YU 01200	12"	1.5 X 60°	52	130	50	32	30	21	5	16	30	25	17
YU 0150	15"	1.5 X 60°	60	165	60	40	43	22	8	20	37	32	21
YU 02100	21"	3.0 X 60°	70	180	65	45	60	25	9	-	40	32	21

YUMUŞAK AYAK UZUN MODEL / LONG SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
EU 060	6"	1.5 X 60°	32	90	30	22	20	12	5	10	15	17	11
EU 080	8"	1.5 X 60°	37	115	35	22	25	14	5	12	25	19	13
EU 0100	10"	1.5 X 60°	42	130	40	29	30	16	5	14	30	19	13
EU 01200	12"	1.5 X 60°	52	150	50	32	30	21	5	16	30	23	15
EU 0150	15"	1.5 X 60°	60	190	60	40	43	22	8	20	37	32	21
EU 02100	21"	3.0 X 60°	70	200	65	45	60	25	9	-	40	32	21

YÜKSEK YUMUŞAK AYAKLAR / HIGH SOFT JAWS



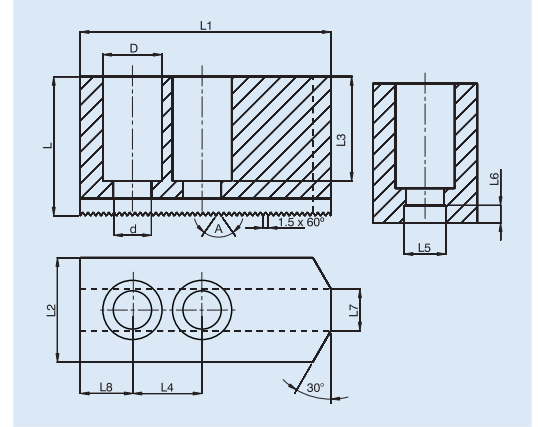
YÜKSEK YUMUŞAK AYAK MODEL 01 / HIGH SOFT JAW TYPE 01

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
Y - 060	6"	1.5 X 60°	57	72	30	47	20	12	5	10	15	17	11
Y - 080	8"	1.5 X 60°	67	95	35	50	25	14	5	12	25	19	13
Y - 0100	10"	1.5 X 60°	77	110	40	60	30	16	5	14	30	19	13
Y - 0120	12"	1.5 X 60°	77	130	50	55	30	18	5	16	30	23	15
Y - 01200	12"	1.5 X 60°	77	130	50	55	30	21	5	16	30	25	17
Y - 0150	15"	1.5 X 60°	100	165	60	60	43	22	8	20	37	32	21

YÜKSEK YUMUŞAK AYAK MODEL 02 / HIGH SOFT JAW TYPE 02

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
EY 08100	8"	1.5 X 60°	100	95	35	50	25	14	5	12	25	19	13
EY 08120	8"	1.5 X 60°	120	95	35	60	25	14	5	12	25	19	13
EY 08130	8"	1.5 X 60°	130	95	35	65	25	14	5	12	25	19	13
EY 10100	10"	1.5 X 60°	100	110	40	50	30	16	5	14	30	19	13
EY 10120	10"	1.5 X 60°	120	110	40	60	30	16	5	14	30	19	13
EY 10130	10"	1.5 X 60°	130	110	40	65	30	16	5	14	30	19	13
EY 12100	12"	1.5 X 60°	100	130	50	50	30	21	5	16	30	25	17
EY 12120	12"	1.5 X 60°	120	130	50	60	30	21	5	16	30	25	17
EY 12130	12"	1.5 X 60°	130	130	50	65	30	21	5	16	30	25	17
EY 15130	15"	1.5 X 60°	130	165	60	65	43	22	8	20	37	32	21
EY 15150	15"	1.5 X 60°	150	165	60	75	43	22	8	20	37	32	21

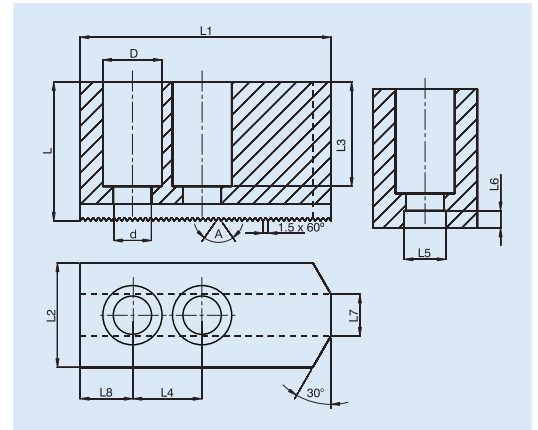
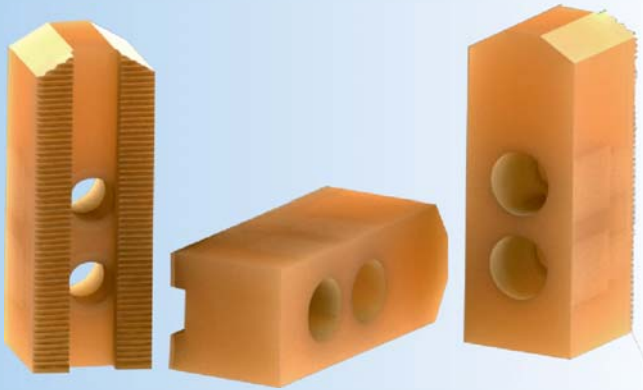
ALÜMİNYUM YUMUŞAK AYAKLAR / ALUMINUM SOFT JAWS



ALÜMİNYUM YUMUŞAK AYAK / ALUMINUM SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
AL66006	6"	1.5 X 60°	32	72	30	22	20	12	5	10	15	17	11
AL66008	8"	1.5 X 60°	37	95	35	22	25	14	5	12	25	19	13
AL66010	10"	1.5 X 60°	42	110	40	29	30	16	5	14	30	19	13
AL66012	12"	1.5 X 60°	52	130	50	32	30	21	5	16	30	25	17

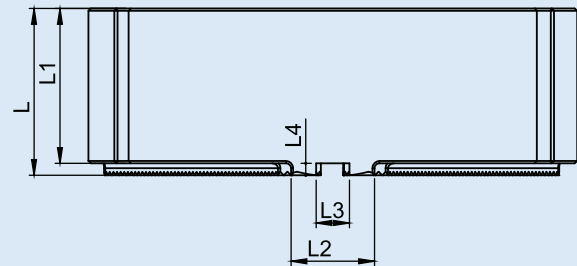
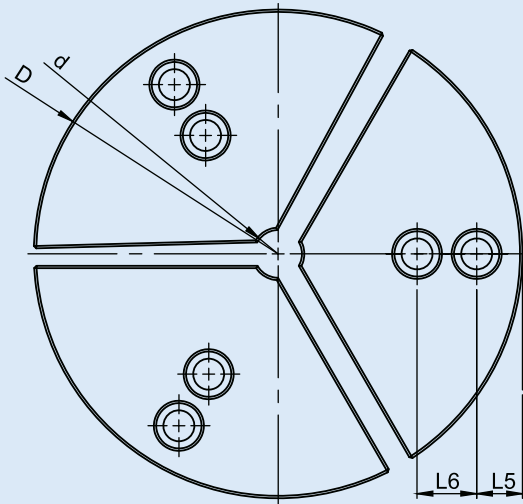
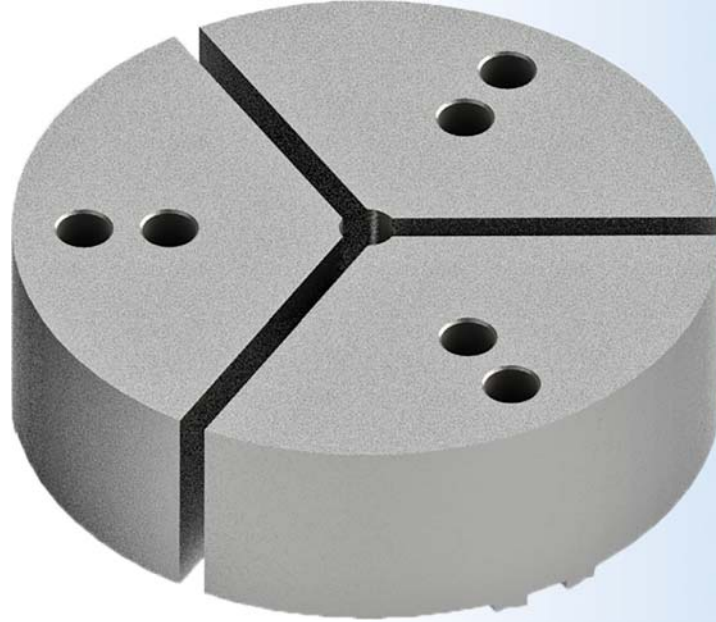
KESTAMİT YUMUŞAK AYAKLAR / PLASTIC SOFT JAWS



KESTAMİT YUMUŞAK AYAK / PLASTIC SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
KY66006	6"	1.5 X 60°	32	72	30	22	20	12	5	10	15	17	11
KY66008	8"	1.5 X 60°	37	95	35	22	25	14	5	12	25	19	13
KY66010	10"	1.5 X 60°	42	110	40	29	30	16	5	14	30	19	13
KY66012	12"	1.5 X 60°	52	130	50	32	30	21	5	16	30	25	17

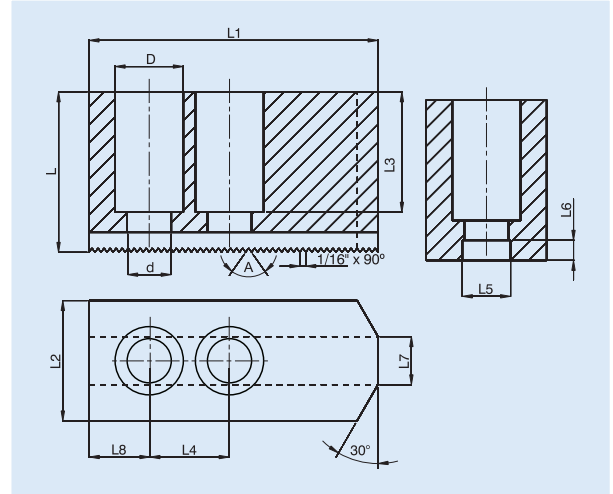
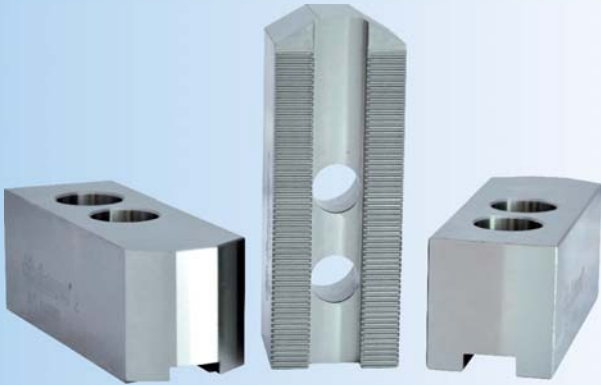
DAİRE YUMUŞAK AYAKLAR / CIRCLE SOFT JAWS



DAİRE YUMUŞAK AYAK / CIRCLE SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	D	L3	L4	L5	L6	L8	D	d
DY0660170	6"	1.5 X 60°	60	170	47	20	12	5	15	17	11
DY0880210	8"	1.5 X 60°	80	210	50	25	14	5	25	19	13
DY1080250	10"	1.5 X 60°	80	250	60	30	16	5	30	19	13
DY1280300	12"	1.5 X 60°	80	300	55	30	21	5	30	25	17

INCH YUMUŞAK AYAKLAR / INCH SOFT JAWS



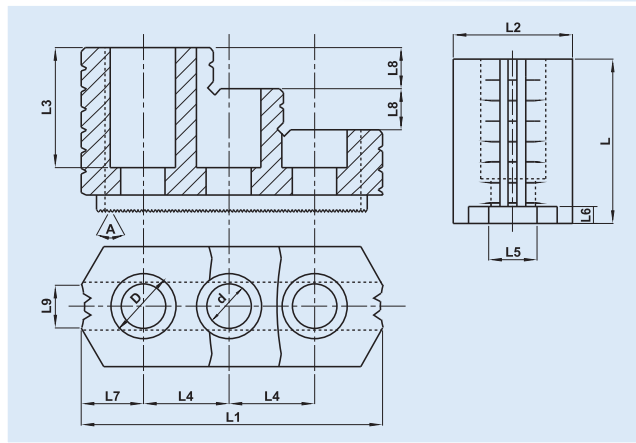
INCH YUMUŞAK AYAK / INCH SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
YR6	6"	1/16" x 90°	40	72	35	30	19	17	5	17	12	19	13
YR8	8"	1/16" x 90°	45	90	40	30	19	17	5	17	20	19	13
YR10	10"	1/16" x 90°	55	110	45	40	25	21	5	21	25	25	17
YR12	12"	1/16" x 90°	55	120	50	40	25	21	5	21	30	25	17

INCH YUMUŞAK AYAK / INCH SOFT JAW

Sipariş Kodu Order Code	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	D	d
YA16	6"	1/16" x 90°	35	70	30	25	16	14	5	14	16	17	11
YA18	8"	1/16" x 90°	40	90	35	30	23	17	5	17	20	19	13
YA10	10"	1/16" x 90°	45	110	45	33	30	21	6	21	20	25	17
YA12	12"	1/16" x 90°	50	125	50	38	30	21	6	21	22	25	17

HİDROLİK AYNA - SERT AYAK / POWER CHUCK - HARD JAW

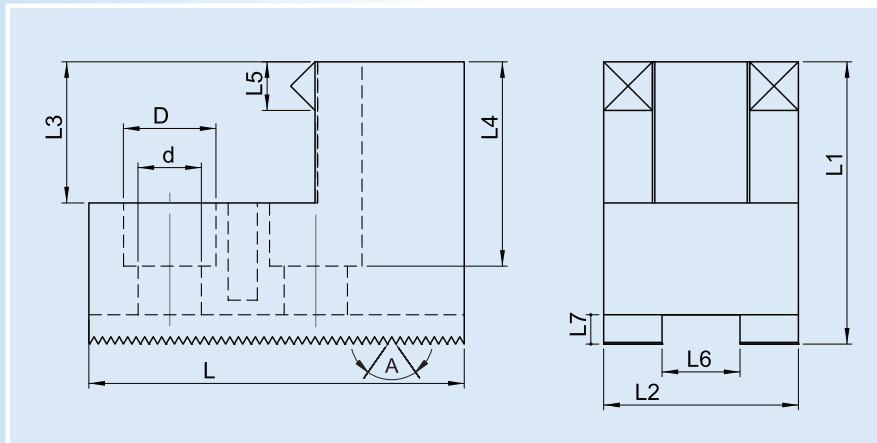


Sipariş Kodu	Ayna Çapı	Diş Formu A	Ölçüler / Dimensions											
Order Code	Chuck Dia	Serration	L	L1	L2	L3	L4	L5	L6	L7	L8	L9	D	d
S050	5"	1.5 X 60°	28	53	23	19	14	10	4	14	10	6	14	9
S060	6"	1.5" X 60°	36	72	30	25	20	12	5	17	10	11	17	11
S080	8"	1.5" X 60°	47	90	35	35	25	14	5	19	11	13	19	13
S0100	10"	1.5" X 60°	58	102	40	42	30	16	5	25	14	16	19	13
S0120	12"	1.5" X 60°	63	110	50	48	30	21	5	20	15	19	25	17
S0150	15"	1.5" X 60°	87	150	62	63	43	22	8	34	20	21	32	21

HİDROLİK AYNA TIRNAKLI SERT AYAK / HYDRAULIC CHUCK CLAW HARD JAW

Döküm vb. malzemeleri sıkma için tasarlanmış tırnaklı sert ayak.

Hard jaw to tightening up for shaping in A mold or metal products.



HİDROLİK AYNA TIRNAKLI SERT AYAK / HYDRAULIC CHUCK CLAW HARD JAW

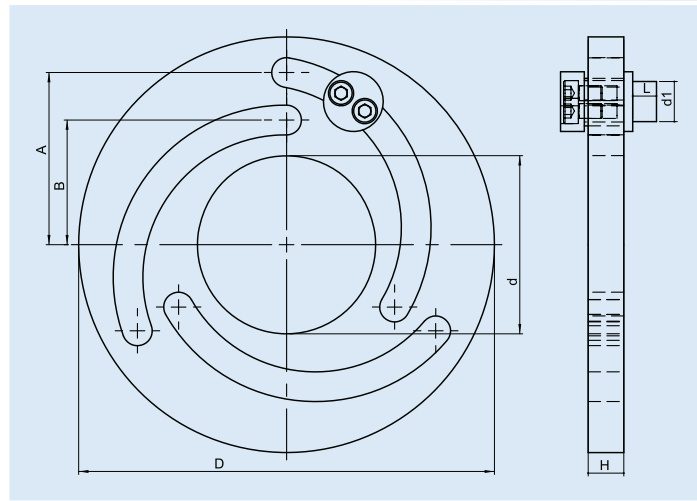
Sipariş Kodu Order Code	Sıkma Çapı Gripping Dia	Ayna Çapı Chuck Dia	Diş Formu A Serration	L	L1	L2	L3	L4	L5	L6	L7	D	d
ST080110	80-110	6"	1.5 X 60°	58	32	30	14	25	7	12	5	17	11
ST110135	110-135	8"	1.5 X 60°	67	37	35	20	22	8.5	14	5	19	13
ST155190	155-190	10"	1.5 X 60°	72	42	40	25	29	10	16	6	19	13
ST135195	135-195	12"	1.5 X 60°	90	55	50	30	33	12.5	21	6	25	17
ST110140	110-140	6"	1.5 X 60°	59	37	30	14	25	7	12	5	17	11
ST135165	135-165	8"	1.5 X 60°	76	48	35	22	35	8.5	14	5	19	13
ST185220	185-220	10"	1.5 X 60°	77	58	40	29	42	10	16	6	19	13
ST195260	195-260	12"	1.5 X 60°	88	63	50	30	48	12.5	21	6	25	17

YUMUŞAK AYAK TORNALAMA APARATI / SOFT JAW TURNING APPARATS



Hidrolik ayna yumuşak ayaklarının istenilen çapta kolayca tornalanmasını sağlamak için tasarlanmış tornalama aparatı.

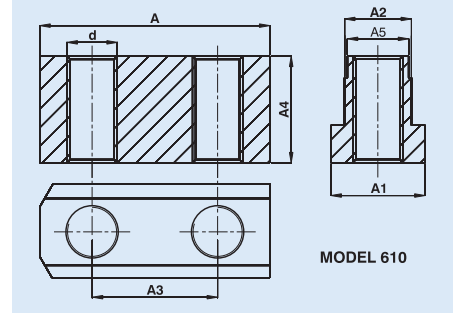
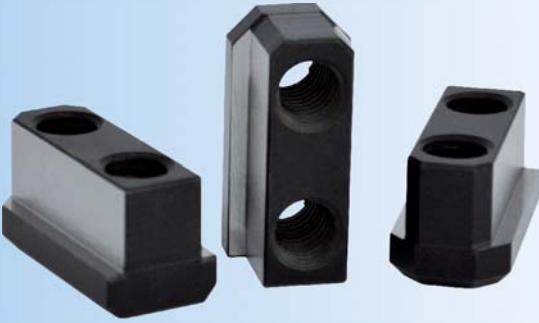
This soft jaw apparatus is projected to turning to all dimensions for hydraulic chucks and soft jaws.



YUMUŞAK AYAK TORNALAMA APARATI / SOFT JAW TURNING APPARATS

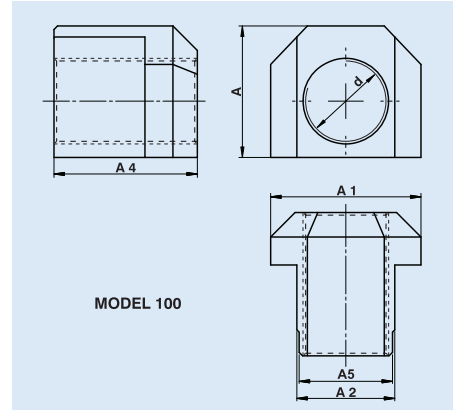
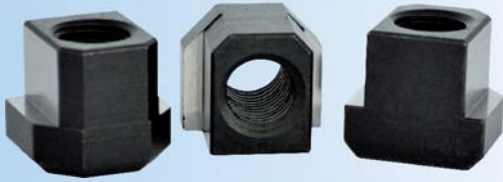
Sipariş Kodu Order Code	D	d	A	B	H	L	d1
0505	140	60	58	42	12	8	13.5
0605	168	80	72	52	12	8	16.5
0805	218	115	94	72	13	8	18.5
1005	255	150	112.5	87.5	13	8	18.5
1205	316	185	137	107	15	8	24.5
1505	380	230	166	138	20	15	31.5

T - SOMUNLAR / T - NUTS



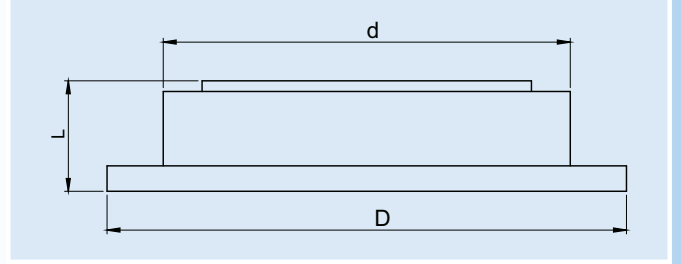
Sipariş Kodu	Ayna Çapı	Ölçüler / Dimensions						
Order Code	Chuck Dia	A	A1	A2	A3	A4	A5	d
AT100	5"	26	15	10	14	15		M8
AT101	6"	36	17	12	20	18.5		M10
AT102	8"	46.5	20.5	14	25	20.5		M12
AT104	10"	51	22.5	16	30	21.5		M12
AT106	12"	55.5	26.5	18	30	33.5		M14
AT107	12"	55.5	29.5	21	30	27.5		M16
AT108	15"	80	35	25.5	43	41	22	M20
AT15	15"	80	33.5	24	43	45.5	22	M20

T - SOMUN / T - NUT



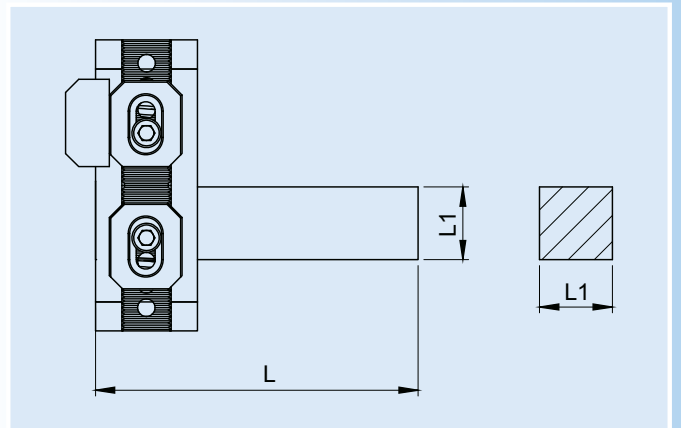
Sipariş Kodu	Ayna Çapı	Ölçüler / Dimensions					
Order Code	Chuck Dia	A	A1	A2	A4	A5	d
AT610	6"	17	17	12	18.50		M10
AT810	8"	20	20.50	14	20.50		M12
AT110	10"	21	22.50	16	21.50		M12
AT120	12"	26	26.5	18	33.50		M16
AT122	12"	26	29.50	21	27.50		M20
AT123	15"	35	35	25.5	41	22	M20

CNC HİDROLİK AYNA İÇİN PNOMATİK SİLİNDİR PNEUMATIC CYLINDER FOR HYDRAULIC CHUCKS



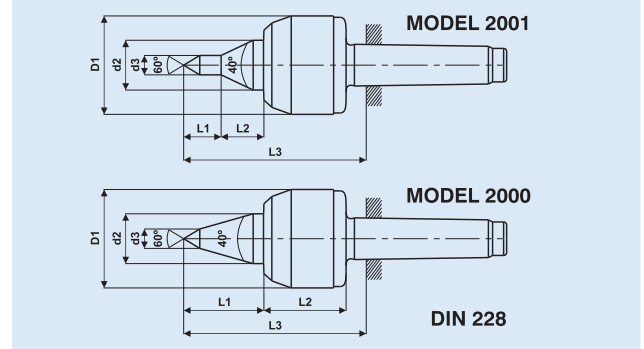
Sipariş Kodu	Ölçüler / Dimensions				
Order Code	D	d	Çene Stroku / Claw Stroke	L	Sıkma Kuvveti kgf/cm ² / Clamping Force
PS080	290	210	17	77	1380
PS010	315	254	20	80	1700

CNC TORNA İÇİN ÇUBUK ÇEKİCİ / BAR PULLER FOR CNC LATHES



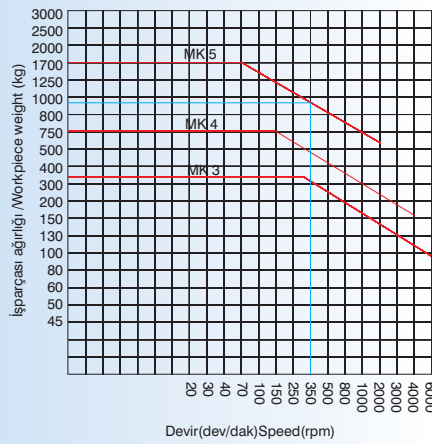
Sipariş Kodu	Ölçüler / Dimensions		İş Parçası Çekme Kapasitesi
Order Code	L	L1	Workpiece Towing Capacity
CTC020	110	20	0-70 mm
CTC025	110	25	0-70 mm

HASSAS CNC NORMAL DÖNER PUNTA / PRECISION CNC NORMAL ROTARY CENTERS

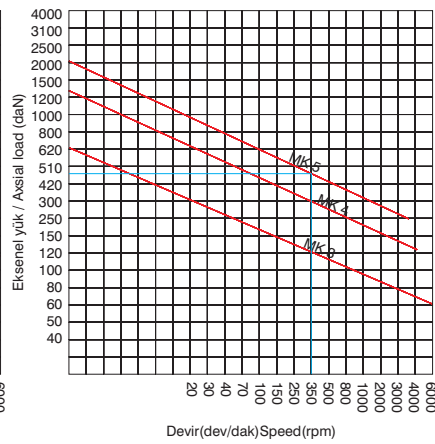


MODEL		2000			2001		
Mors Koniği / Morse conic	MK	3	4	5	3	4	5
Ölçüler mm Dimensions mm	D1	58	68	78	58	68	78
	d2	24.5	34.5	43.5	24.5	34.5	43.5
	d3	9	14	14	9	14	14
	L1	43	57	68	15	25	25
	L2	51	56	69	28	32	44
	L3	102	123	148	107	121	148
Uç Salgısı / Center Runout	Max	0.005	0.005	0.01	0.005	0.005	0.01
Ağırlık / Weight	kg.	2	2.85	4.5	2	2.8	4.45
Sipariş Kodu / Order Code		C30	C40	C50	C60	C70	C80

MODEL 2000 - 2001

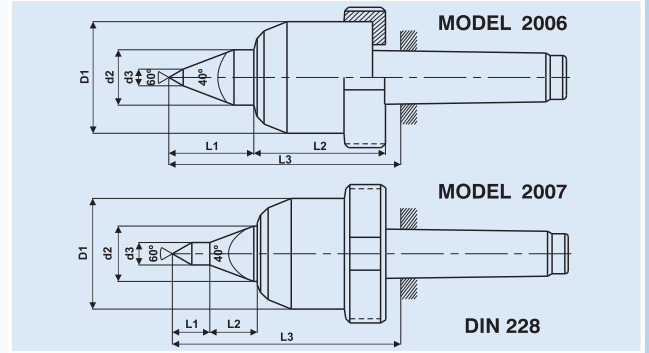


Örnek: 350 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 935 kg
eksenel yük: 475 daN



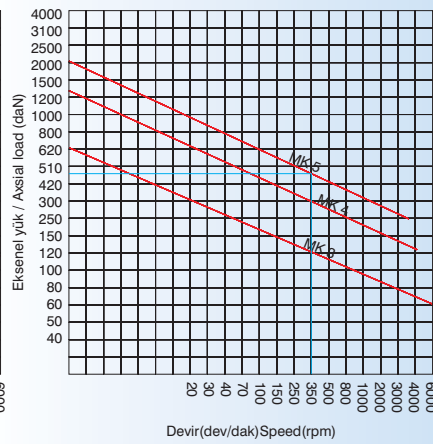
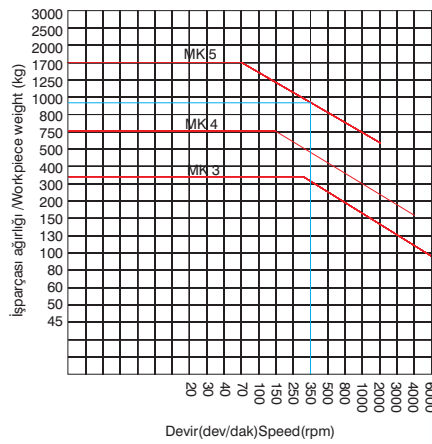
Example : Load value that rotary MK5 center could carry with 350 revolution/min
Radial load : 935 Kg
Axial Load : 475 daN

CNC NORMAL SOMUNLU DÖNER PUNTA / PRECISION CNC NUT ROTARY CENTERS



MODEL		2006			2007		
Mors Koniği / Morse conic	MK	3	4	5	3	4	5
Ölçüler mm	D	58	68	78	58	68	78
Dimensions mm	d	24.5	34.5	43.5	24.5	34.5	43.5
	d1	9	14	14	9	14	14
	L	99	115	145	99	115	145
	L1	44.5	57	67.5	44.5	57	67.5
	L2	40	34	52	40	34	52
Uç Salgısı / Center Runout	Max	0.005	0.005	0.005	0.005	0.005	0.005
Ağırlık / Weight	kg.	2.5	3	5	2.5	3	5
Sipariş Kodu / Order Code		CS600	CS700	CS800	CS300	CS400	CS500

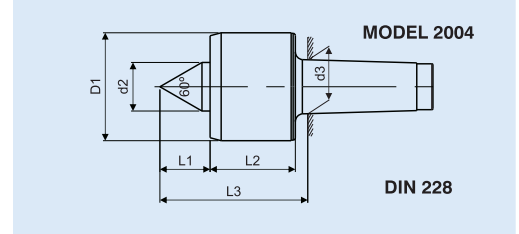
MODEL 2006 - 2007



Örnek: 350 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 935 kg
eksenel yük: 475 daN

Example : Load value that rotary MK5 center could carry with 350 revolution/min
Radial load : 935 Kg
Axial Load : 475 daN

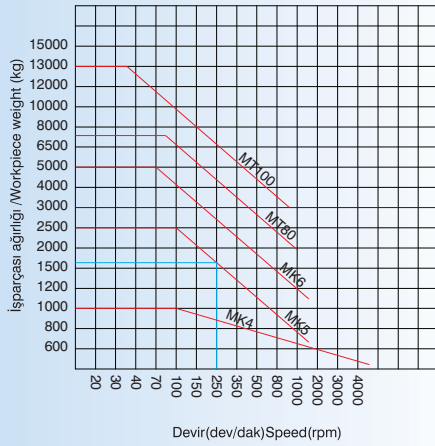
AĞIR YÜK İÇİN HASSAS DÖNER PUNTA / PRECISION ROTARY CENTERS FOR HEAVY LOAD



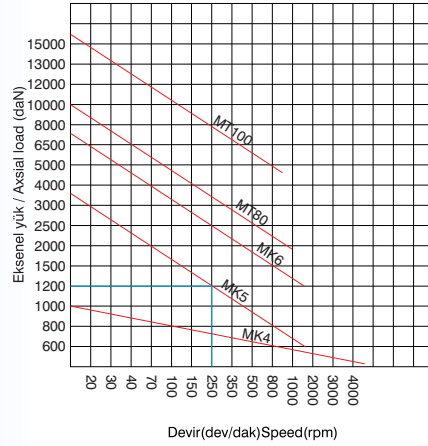
Sipariş Kodu	MK	Ölçüler / Dimensions						Uç Salgısı	Ağırlık (kg.)
Order Code		D1	d2	d3	L1	L2	L3	Center Runout	Weight
AY040	4	78	43.5	31.267	58	126	135	0.01	3
AY050	5	98	53.5	44.399	67	88	170	0.01	7.3
AY060	6	128	62.5	63.348	70	126	210	0.01	18
* AY080	MT80	175	80	80	78	115	212	0.01	28
* AY0100	MT100	200	90	100	93	158	274	0.01	48

(*) Özel / Special

MODEL 2004

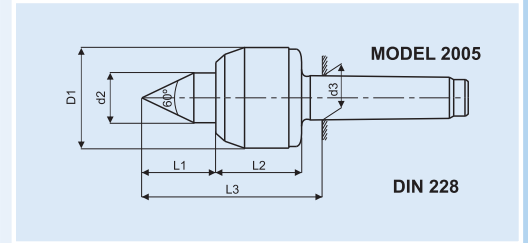


Örnek: 250 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 1700 kg
eksenel yük: 1200 daN



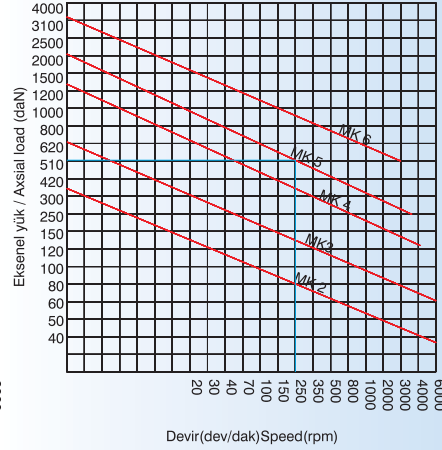
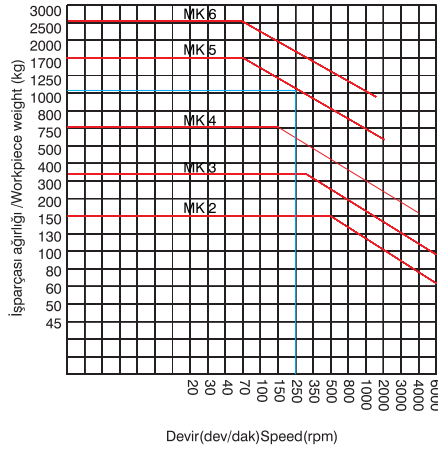
Example : Load value that rotary MK5 center could carry with 250 revolution/min
Radial load : 1700 Kg
Axial Load : 1200 daN

HASSAS DÖNER PUNTA / PRECISION ROTARY CENTERS



Sipariş Kodu	MK	Ölçüler / Dimensions						Uç Salgısı	Ağırlık (kg.)
Order Code		D1	d2	d3	L1	L2	L3	Center Runout	Weight
N01	2	50	24.5	17.780	32	50	92	0.005	1.7
N02	3	53	24.5	23.325	33	50	94	0.005	1.9
N03	4	68	40	31.267	50	56	114	0.005	3
N04	5	78	44	44.399	58	69	138	0.005	4.9
N05	6	98	53.5	63.348	80	96	191	0.01	10

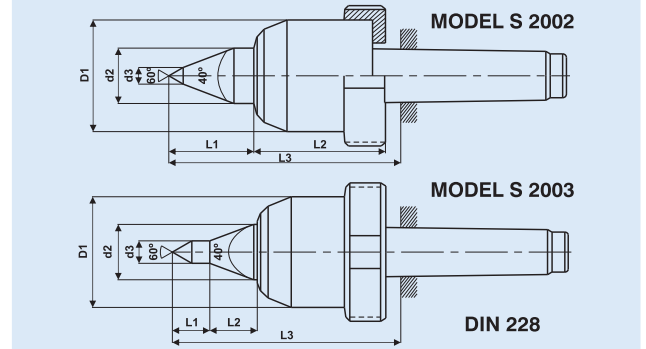
MODEL 2005



Örnek: 250 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 1100 kg
eksenel yük: 510 daN

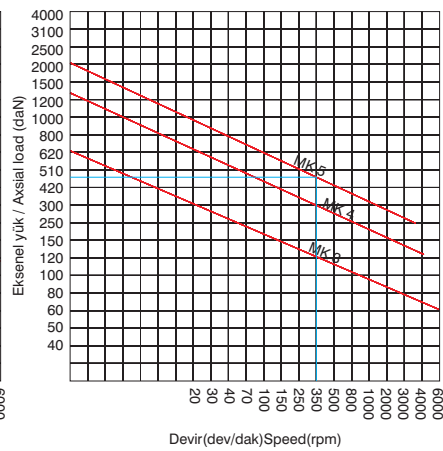
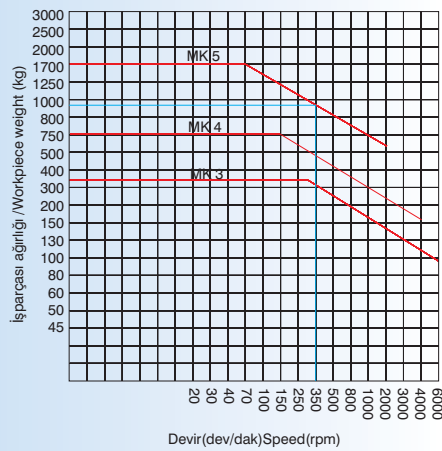
Example : Load value that rotary MK5 center could carry with 250 revolution/min
Radial load : 1100 kg
Axial Load : 510 daN

YÜKSEK DEVİR CNC HASSAS DÖNER PUNTA PRECISION CNC ROTARY CENTER HIGH ROTATION



MODEL		2002		2003	
Mors Koniği / Morse conic	MK	4	5	4	5
Ölçüler mm Dimensions mm	D1	68	78	68	78
	d2	34.50	43.50	34.50	43.50
	d3	14	14	14	14
	L1	56	67	25	25
	L2	63	77	31	42
	L3	125	150	125	150
Uç Salgısı / Center Runout	Max	0.005	0.01	0.005	0.01
Ağırlık / Weight	kg.	3.3	5.2	3.25	5.25
Sipariş Kodu / Order Code		SC40	SC50	SC70	SC80

MODEL 2002 - 2003



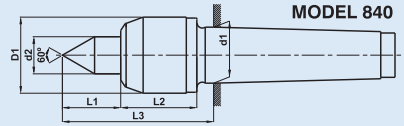
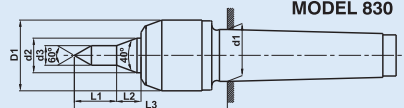
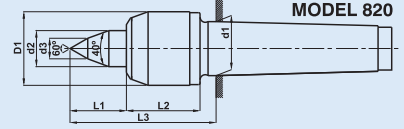
Örnek: 350 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 935 kg
eksenel yük: 475 daN

Example : Load value that rotary MK5 center could carry with 350 revolution/min
Radial load : 935 Kg
Axial Load : 475 daN

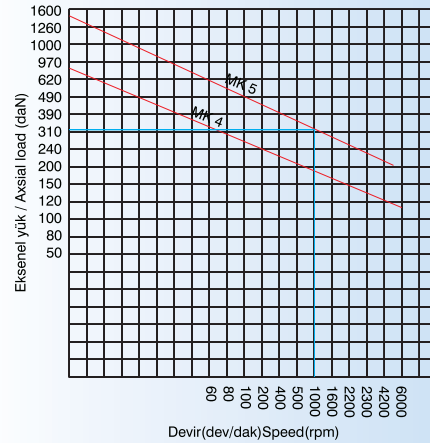
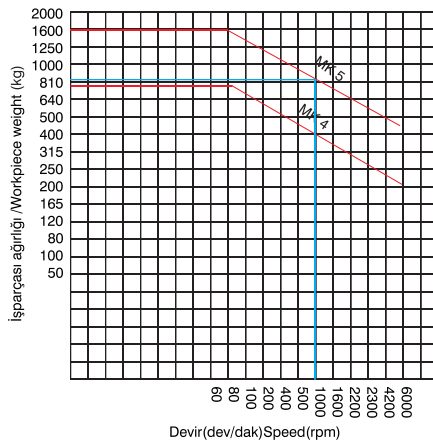


HASSAS CNC İNCE ÇAPLI DÖNER PUNTA

PRECISION CNC SLIM SIZE
ROTARY CENTER



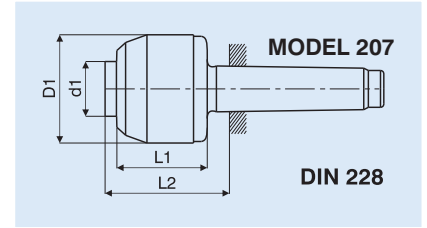
MODEL		820		830		840	
Mors Koniği / Morse Conic	MK	4	5	4	5	4	5
	D1	43	60	43	60	43	60
	d1	31.267	44.399	31.267	44.399	31.267	44.399
Ölçüler mm Dimensions mm	d2	20	30	20	30	20	30
	d3	12	14	12	14	-	-
	L1	30	50	25	25	27	40
	L2	88	62	15	27	42	60
	L3	88	123	95	133	88	118
Uç Salgısı / Canter Runout	Max	0.005	0.01	0.005	0.01	0.005	0.01
Ağırlık / Weight	Kg.	1.2	3.1	1.2	3.1	1.2	3.1
Sipariş Kodu / Order Code		C110	C140	C120	C150	C130	C160



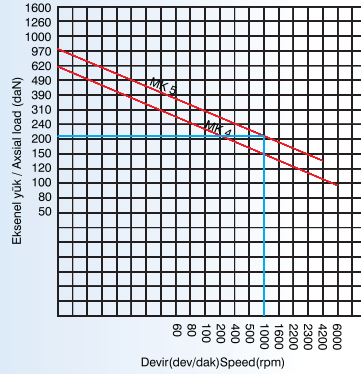
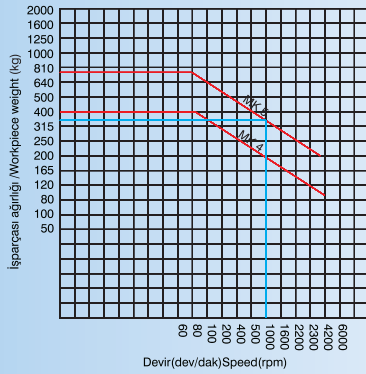
Örnek: 1000 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 820 kg
eksenel yük : 480 daN

Example : Load value that rotary MK5 center could carry with 1000 revolution/min
Radial load : 820 Kg
Axial Load : 480 daN

HASSAS DEĞİŞİR UÇLU CNC DÖNER PUNTA WITH PRECISION CONVERTIBLE EDGE CNC ROTARY CENTER

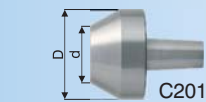


MODEL / TYPE		207	
Mors Koniği / Morse conic	MK	4	5
Ölçüler mm Dimensions mm	D1	68	78
	d1	34.5	44
	L1	54	69
	L2	74	90
Uç Salgısı / Center Runout	mm	0.01	0.01
Ağırlık / Weight	kg.	1.9	3.8
Sipariş Kodu / Order Code		C104	C105



Örnek: 1000 Dev/dak. ile dönen MK5 puntanın taşıyabileceği yük değeri;
Radyal yük : 360 kg
Eksenel yük : 210 daN

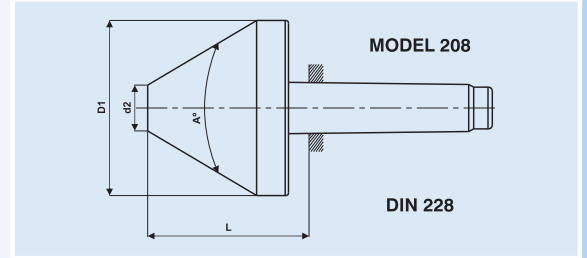
Example : Load value that rotary MK5 center could carry with 1000 revolution/min
Radial load : 360 Kg
Axial Load : 210 daN



MODEL / TYPE		C201	C202	C203	C204	C205
Mors Koniği / Morse conic	MK	4	4	4	4	4
Ölçüler / Dimensions	D	48	34	22	22	22
	d	30	-	9	14	8
Max. Taşıma Kg. / Max. Load	kg.	250	215	200	170	120
Sipariş Kodu / Order Code		C401	C402	C403	C404	C405

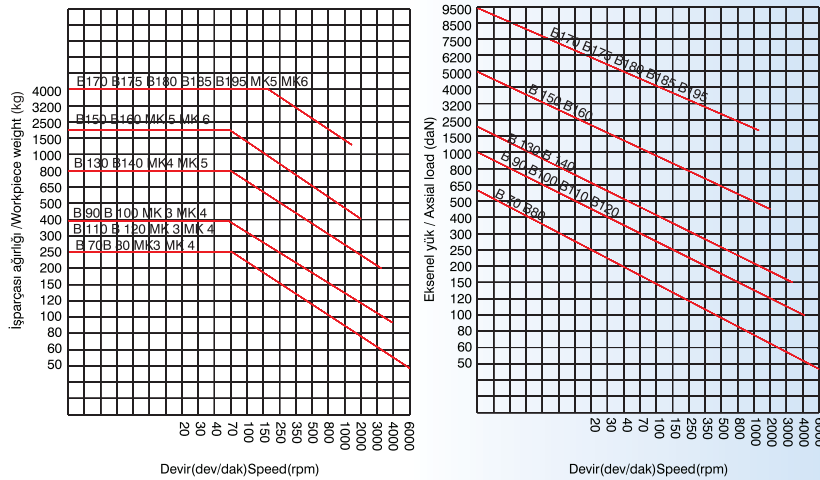
MODEL / TYPE		C201	C202	C203	C204	C205
Mors Koniği / Morse conic	MK	5	5	5	5	5
Ölçüler / Dimensions	D	58	44	34	34	34
	d	42	-	14	20	10
Max. Taşıma Kg. / Max. Load	kg.	750	700	560	250	195
Sipariş Kodu / Order Code		C501	C502	C503	C504	C505

HASSAS DÖNER BORU PUNTASI / PRECISION ROTARY PIPE CENTERS



Sipariş Kodu	Mors Konik / MK	Ölçüler / Dimensions				Uç Salgısı	Ağırlık (kg.)
Order Code		D1	A	d2	L	Center Runout	Weight
B70	3	80	60°	26	70	0.008	2.5
B80	4	80	60°	26	71	0.008	2.8
B90	3	100	60°	28	84	0.008	3.9
B100	4	100	60°	28	86	0.008	4.2
B110	4	120	60°	38	89	0.008	5.8
B120	5	120	60°	38	97	0.008	6.5
B130	4	140	60°	45	104	0.01	8
B140	5	140	60°	45	108	0.01	8.8
B150	5	170	70°	58	121	0.01	13
B160	5	200	70°	65	134	0.01	19
B170	6	200	70°	65	126	0.01	22
B175	5	255	70°	150	114	0.01	36
B180	6	255	70°	150	115	0.01	39
B185	5	355	70°	150	139.5	0.01	67
B195	6	355	70°	150	168	0.01	70
B200	5	400	45°	200	??	??	??
B205	6	400	45°	200	?_	?_	?_

MODEL 208

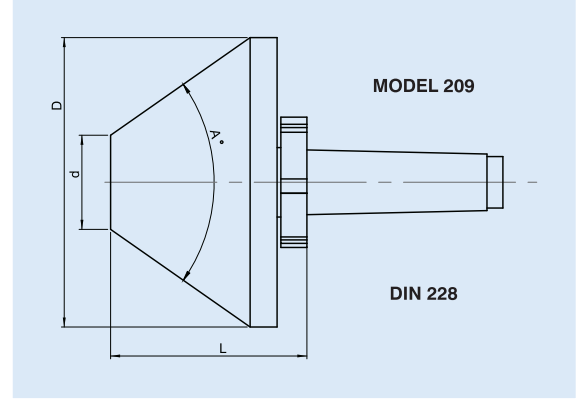


Örnek: 250 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
 Radyal yük : 1700 kg
 Eksenel yük: 1200 daN

Example : Load value that rotary MK5 center could carry with 250 revolution/min
 Radial road : 1700 Kg
 Axial Load : 1200 daN

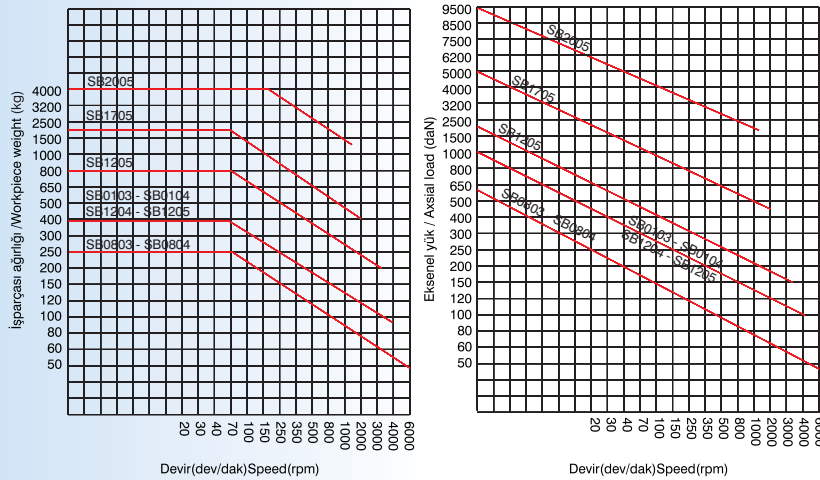
HASSAS SOMUNLU DÖNER BORU PUNTASI

PRECISION NUT ROTARY PIPE CENTERS



Sipariş Kodu	Mors Konik / MK	Ölçüler / Dimensions				Uç Salgısı	Ağırlık (kg.)
Order Code		D1	A	d2	L	Center Runout	Weight
Sb0803	3	80	60°	26	88	0.008	2.5
SB0804	4	80	60°	26	88	0.008	2.8
SB0103	3	100	60°	28	102	0.008	3.9
SB0104	4	100	60°	28	102	0.008	4.2
SB1204	4	120	60°	38	108	0.008	5.8
SB1205	5	120	60°	38	104	0.008	6.5
SB1404	4	140	60°	45	116	0.01	8
SB1405	5	140	60°	45	116	0.01	8
SB1705	5	170	70°	58	126	0.01	13
SB2005	5	200	70°	65	135	0.01	19

MODEL 209

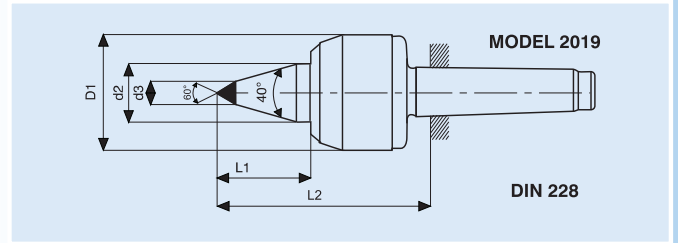


Örnek: 250 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 1700 kg
eksenel yük: 1200 daN

Example : Load value that rotary MK5 center could carry with 250 revolution/min
Radial load : 1700 Kg
Axial Load : 1200 daN

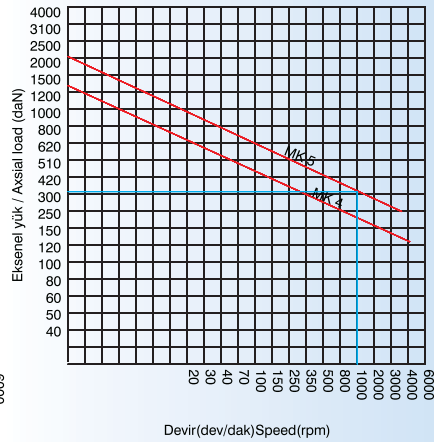
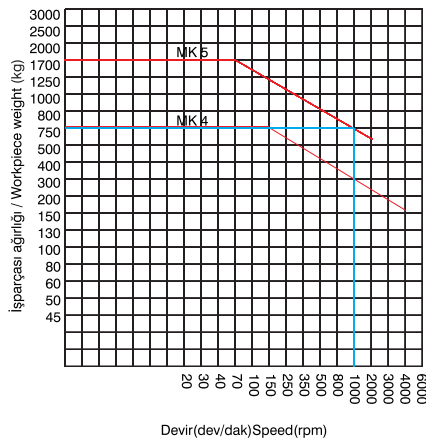
HASSAS SERT METAL UÇLU DÖNER PUNTA

PRECISION HARD METAL TIPPED ROTARY CENTER



MODEL		2019	2019
Mors Koniği / Morse conic	MK	4	5
Ölçüler mm	D1	68	78
Dimensions mm	d2	34.50	44
	d3	14	14
	L1	25	57
	L2	123	148
Uç Salgısı / Center Runout	Max	0.005	0.01
Ağırlık / Weight	kg.	2.85	4.45
Sipariş Kodu / Order Code		CE40	CE50

MODEL 2019

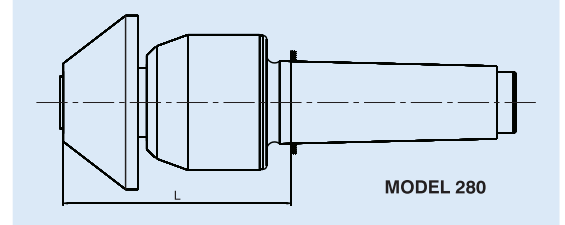


Örnek: 1000 Dev/dak. ile dönen MK5 puntanın taşıya bileceği yük değeri;
Radyal yük : 750 kg
eksenel yük: 320 daN

Example : Load value that rotary MK5 center could carry with 1000 revolution/min
Radial load : 750 Kg
Axial Load : 320 daN



ŞAPKALI BORU PUNTASI
CAPPED PIPE CENTERS

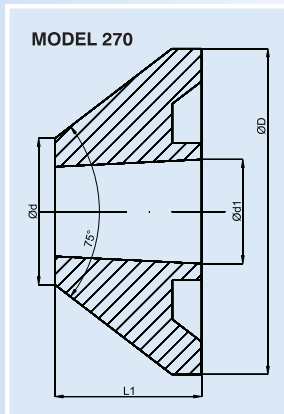
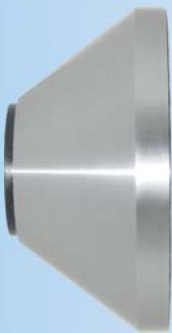


MODEL 280

MODEL / TYPE		280	
MK		4	5
L	mm	116	133
Max İşparçası Ağırlığı	kg	750	1700
Sipariş Kodu / Order Code		C284	C285
Ağırlık / Weight	kg	2.5	4.6



Örnek: 1000 Dev/dak. ile dönen MK5 puntanın taşıyabileceği yük değeri; Example : Load value that rotary MK5 center could carry with 1000 revolution/min
 Radyal yük : 1200 kg Radial load : 1200 Kg
 Eksenel yük : 350 daN Axial Load : 350 daN



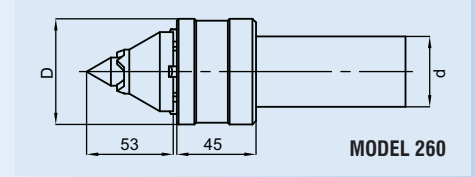
MODEL 270

Şapkali Boru Puntası Model 270 / Capped Pipe Centers Type 270

Sipariş Kodu	MK	D	d	d1	L1	Ağırlık (kg)
Order Code						Weight
C410	4	60	30	32	45	1
C420	4	100	45	32	45	1.5
C430	4	150	95	32	45	4.1
C440	4	200	145	32	45	6
C510	5	100	45	40	43	1.5
C520	5	150	95	40	43	4.4
C530	5	200	145	40	43	6.1
C540	5	250	195	40	43	8.1

SİLİNDİR ŞAFTLI SET TIRNAKLI PUNTA

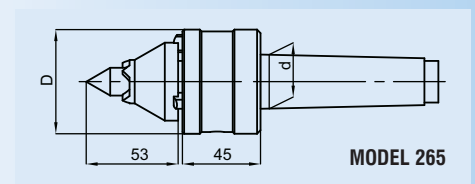
CYLINDRICAL CONNECTOR CENTER WITH SET JAWS



Sipariş Kodu	Ölçüler / Dimensions		İş Bağlama Çapı / mm
Order Code	D	d	Work Connection Dia
T400925	60	40	9 - 16 / 16 - 25
T402662	60	40	26 - 50 / 33 - 62

MORS KONİK SET TIRNAKLI PUNTA

MORSE TAPER CENTER WITH SET JAWS

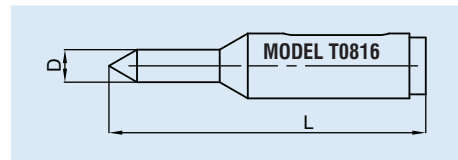
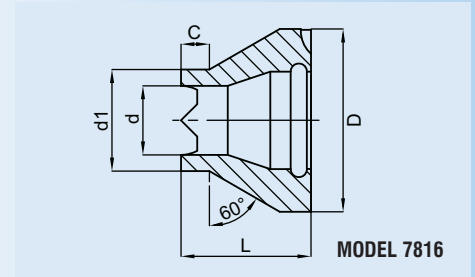


Sipariş Kodu	Mors Konik	Ölçüler / Dimensions		İş Bağlama Çapı / mm
Order Code		D	d	Work Connection Dia
T09254	4	60	31.267	9 - 16 / 16 - 25
T09255	5	60	44.399	9 - 16 / 16 - 25
T26624	4	60	31.267	26 - 50 / 33 - 62
T26625	5	60	44.399	26 - 50 / 33 - 62

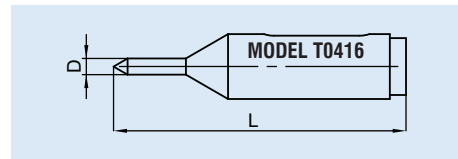
SET TIRNAKLI PUNTA DİŞLİ TIRNAK

GEAR JAWS CENTER WITH SET JAWS

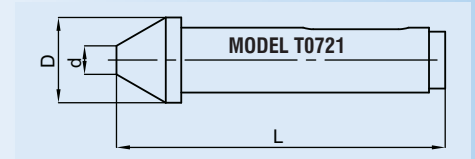
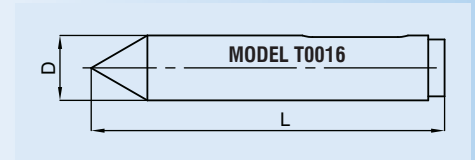
Sipariş Kodu	Ölçüler / Dimensions				
Order Code	L	D	d	d1	C
T00916	32	45	4.5	8.5	3
T01625	32	45	8.5	15	3
T02650	32	45	17	25	7
T03362	32	45	22	32	10



SET TIRNAKLI PUNTA MERKEZ UÇ



INTERCHANGEABLE TIPS CENTER
WITH SET JAWS

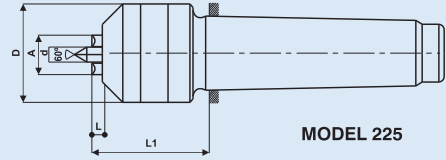


Sipariş Kodu / Order Code	T0016	T0721	T0816	T0416
D	16	21	8	4
d	-	7	-	-
L	87	81	78	72



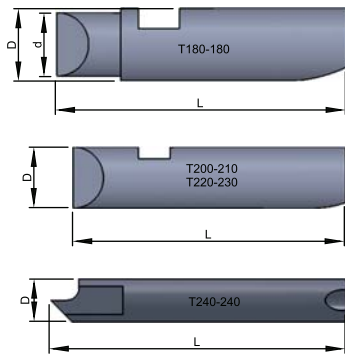
HASSAS MEKANİK KİLİTLİ TIRNAKLI PUNTA

PRECISION MECHANIC LOCKED
CATCH TYPE CENTERS

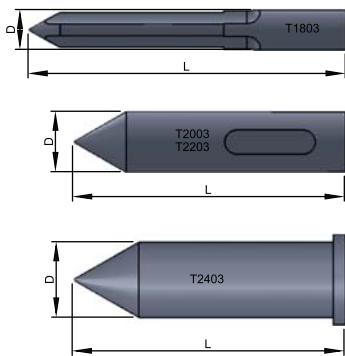


MODEL 225

Sipariş Kodu	MK	Ölçüler / Dimensions					İş Bağlama Çapı/mm	Ağırlık (kg.)
Order Code		D	d	L	L1	A	Work Connection Dia	Weight
T180	4	50	8	8	48	18	19 - 35	1.2
T200	4	54	8	8	62	25	26 - 50	2
T210	5	54	8	8	62	25	26 - 50	3
T220	4	64	10	10	65	32	33 - 80	2.5
T230	5	64	10	10	65	32	33 - 80	3.5
T240	5	125	25	12	155	65	70 - 140	13



Tırnaklı Punta Tırnak / Type Center With Set Jaw			
Sipariş Kodu	Ölçüler / Dimensions		
Order Code	D	d	L
T180-180	8	7	32
T200-210	8	7	44
T220-230	10	9	45
T240-240	14	-	98



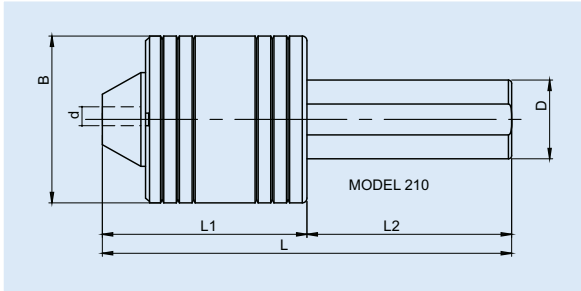
Tırnaklı Punta Merkez Uç / Locked catch type center bit		
Sipariş Kodu	Ölçüler / Dimensions	
Order Code	D	L
T1803	8	70
T2003	8	44
T2203	10	45
T2403	25	90



ALTİKÖŞE AÇMA DÖNER PUNTA HEXAGONAL OPENING ROTARY CENTER

Altıköşe Açma Döner Punta / Hexagonal Opening Rotary Center

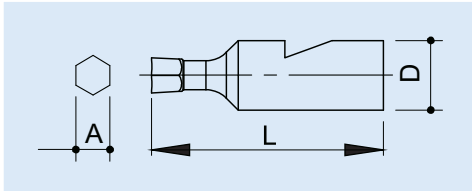
Sipariş Kodu	Ölçüler / Dimensions					
Order Code	L	L1	L2	B	D	d
AD2553	130	54	65	53	25	12
AD3253	130	54	65	53	32	12
AD4053	130	54	65	53	40	12
AD2541	123	47	65	41	25	8
AD1635	125	48	75	35	16	8
AD2035	125	48	75	35	20	8
AD2535	125	48	75	35	25	8



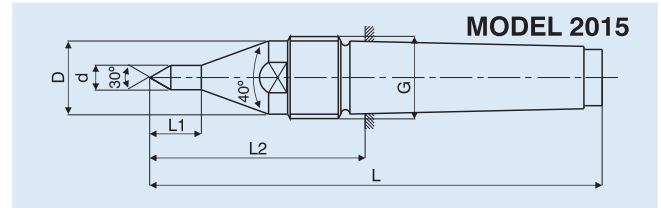
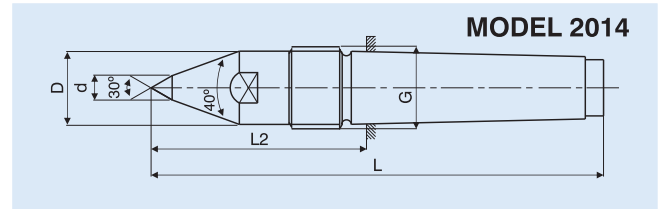
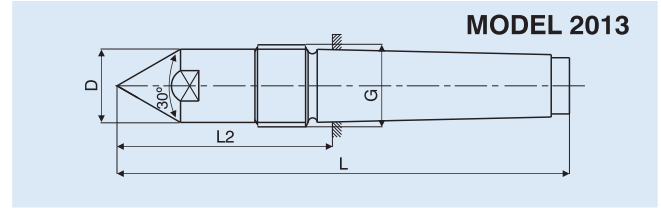
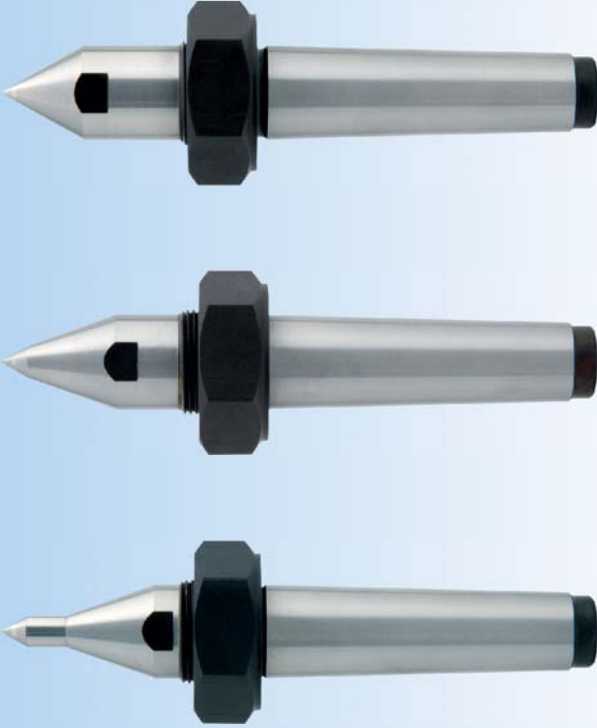
ALTİKÖŞE ZIMBA HEXAGONAL PUNCH

Altıköşe Zimba / Hexagonal Punch

Sipariş Kodu	Ölçüler / Dimensions		
Order Code	D	A	L
AK1203	12	3	40
AK1204	12	4	40
AK1205	12	5	40
AK1206	12	6	40
AK1208	12	8	40
AK1210	12	10	40
AK0802	8	2	28
AK0803	8	3	28
AK0804	8	4	28
AK0805	8	5	28
AK0806	8	6	28



SOMUNLU SABİT PUNTA FIXED CENTRE WITH NUT



MODEL		2013			2014			2015		
Mors Koniği / Morse conic	MK	3	4	5	3	4	5	3	4	5
Ölçüler mm Dimensions mm	D	24.10	31.60	45	24.10	31.60	45	24.10	31.60	45
	d				8	14	16	8	14	16
	L1							17	25	25
	L2	56	71	95	56	71	95	68	86	106
	L	149	175	217	149	175	225	150	190	236
	G	M27x1.5	M36x1.5	M48x1.5	M27x1.5	M36x1.5	M48x1.5	M27x1.5	M36x1.5	M48x1.5
Sipariş Kodu / Order Code		SP 136	SP 137	SP 150	SP 140	SP 141	SP 155	SP 144	SP 145	SP 160
Ağırlık / Weight	kg.	0.9	1.2	2.3	0.9	1.2	2.6	0.9	1.2	2.65



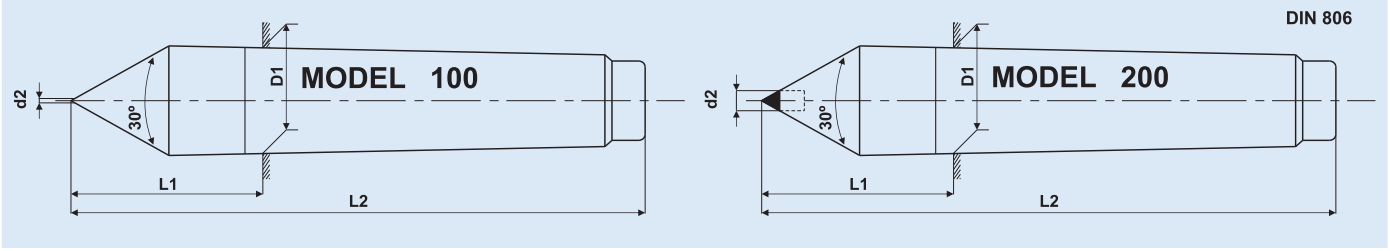
HASSAS NORMAL SABİT PUNTA

PRECISION NORMAL FIXED CENTER



HASSAS SERT METAL UÇLU SABİT PUNTALAR

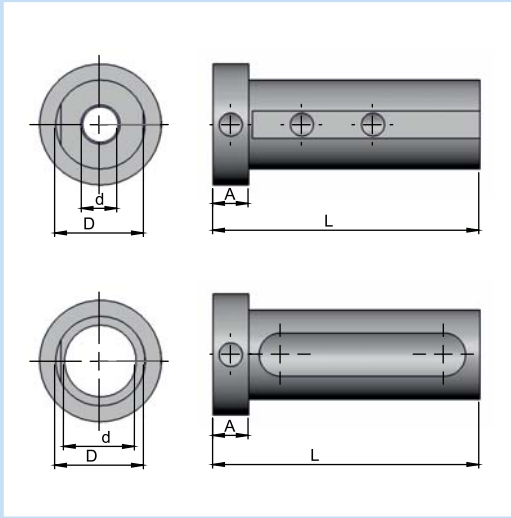
PRECISION HARD METAL TIPPED FIXED CENTERS



MODEL		100					200			
Mors Koniği / Morse conic	MK	2	3	4	5	6	2	3	4	5
	D1	18	24.10	31.60	44.70	63.348	18	24.10	31.60	44.70
Ölçüler mm Dimensions mm	d2	0.08	0.08	1	1.50	2	7	11	14	18
	L1	36	44	57	70	88	36	44	57	70
	L2	100	125	160	200	270	100	125	160	200
Sipariş Kodu / Order Code		SP 100	SP 110	SP 120	SP 130	SP 138	ES 200	ES 210	ES 220	ES 230
Ağırlık / Weight	kg.	0.1	0.4	1	2	6	0.1	0.4	1	2

CNC TORNA KATER REDÜKSİYON KOVANI

CNC LATHE SHANK HIVE REDUCTION



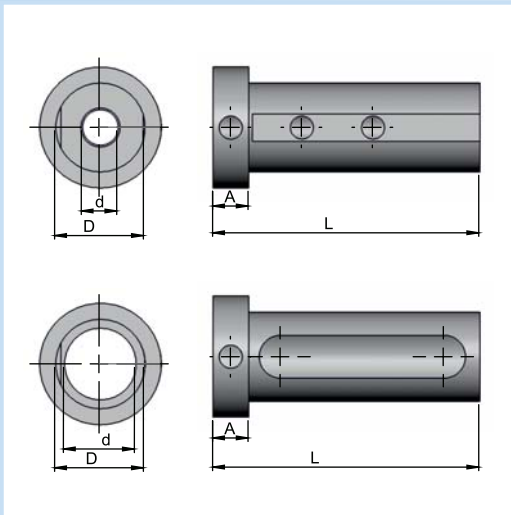
(*) İşaretinin olduğu ürünler soğutma su kanalıdır.
(*) Products include a water channel.

CNC TORNA KATER TUTUCUSU

Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
*CK2008	20	8	60	10
*CK2010	20	10	60	10

CNC TORNA KATER TUTUCUSU

Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
CK2012	20	16	60	10
CK2016	20	20	60	10



(*) İşaretinin olduğu ürünler soğutma su kanalıdır.
(*) Products include a water channel.

CNC TORNA KATER TUTUCUSU

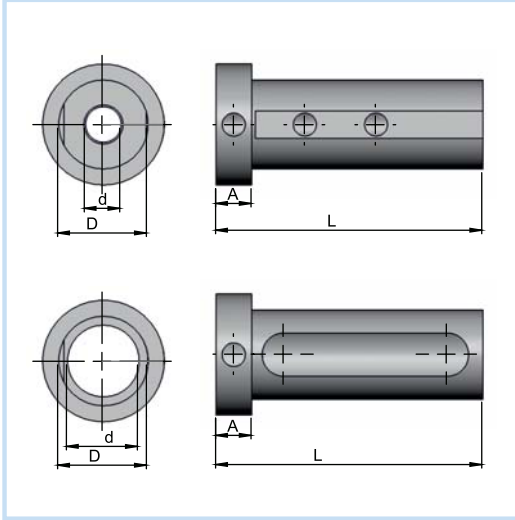
Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
*CK2508	25	8	75	10
*CK2510	25	10	75	10
CK2512	25	12	75	10

CNC TORNA KATER TUTUCUSU

Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
CK2516	25	16	75	10
CK2520	25	20	75	10

CNC TORNA KATER REDÜKSİYON KOVANI

CNC LATHE SHANK HIVE REDUCTION



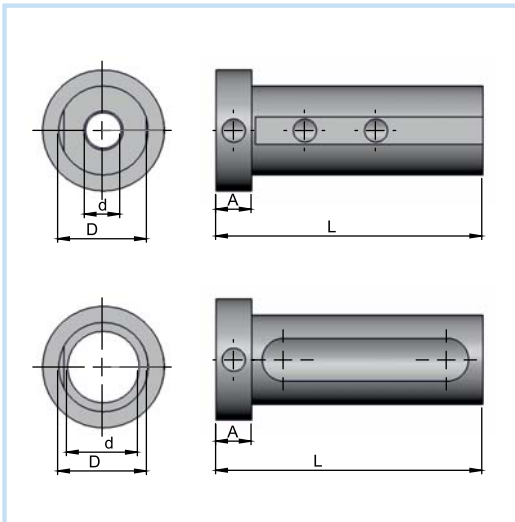
(*) İşaretinin olduğu ürünler soğutma su kanalıdır.
(*) Products include a water channel.

CNC KATER REDÜKSİYON KOVAN

Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
*CK3208	32	8	85	15
*CK3210	32	10	85	15
*CK3212	32	12	85	15
*CK3216	32	16	85	15

CNC KATER REDÜKSİYON KOVAN

Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
CK3220	32	20	85	15
CK3225	32	25	85	15



(*) İşaretinin olduğu ürünler soğutma su kanalıdır.
(*) Products include a water channel.

CNC KATER REDÜKSİYON KOVAN

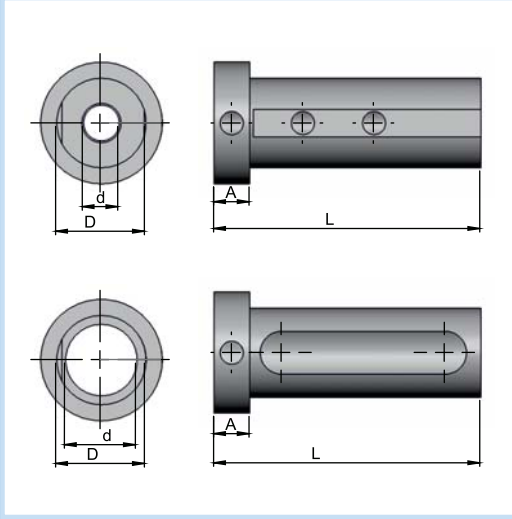
Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
*CK4008	40	8	100	15
*CK4010	40	10	100	15
*CK4012	40	12	100	15
*CK4016	40	16	100	15
*CK4020	40	20	100	15
CK4025	40	25	100	15

CNC KATER REDÜKSİYON KOVAN

Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
CK4032	40	32	100	15

CNC TORNA KATER REDÜKSİYON KOVANI

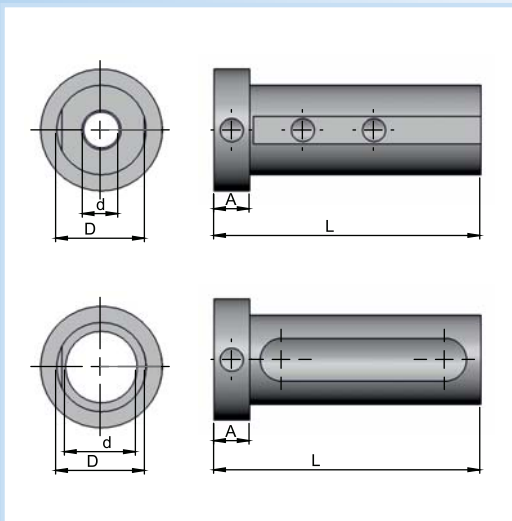
CNC LATHE SHANK HIVE REDUCTION



(*) İşaretinin olduğu ürünler soğutma su kanalıdır.
(*) Products include a water channel.

CNC KATER REDÜKSİYON KOVAN				
Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
*CK5008	50	8	100	15
*CK5010	50	10	100	15
*CK5012	50	12	100	15
*CK5016	50	16	100	15
*CK5020	50	20	100	15
*CK5025	50	25	100	15
*CK5032	50	32	100	15

CNC KATER REDÜKSİYON KOVAN				
Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
CK5040	50	40	100	15



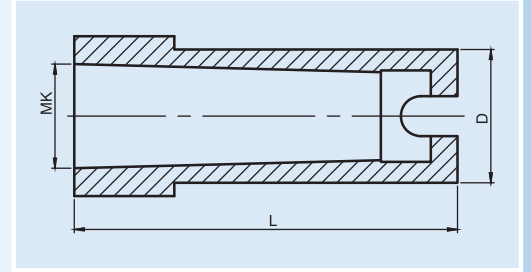
(*) İşaretinin olduğu ürünler soğutma su kanalıdır.
(*) Products include a water channel.

CNC KATER REDÜKSİYON KOVAN				
Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
*CK6012	60	12	110	18
*CK6016	60	16	110	18
*CK6020	60	20	110	18
*CK6025	60	25	110	18
*CK6032	60	32	110	18
*CK6040	60	40	110	18

CNC KATER REDÜKSİYON KOVAN				
Sipariş Kodu	Ölçüler / Dimensions			
Order Code	D	d	L	A
Ck6050	60	50	110	18

CNC TORNA MORS ADAPTÖRÜ

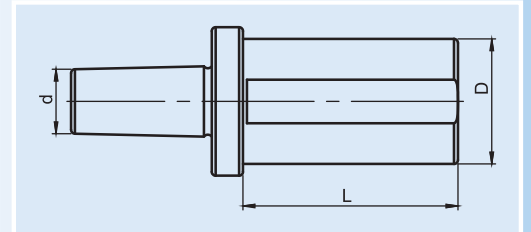
CNC LATHE MORSE ADAPTER



Sipariş Kodu	Ölçüler / Dimensions		
Order Code	D	MK	L
CM321	32	1	85
CM322	32	2	85
CM323	32	3	85
CM401	40	1	90
CM402	40	2	90
CM403	40	3	90
CM404	40	4	115

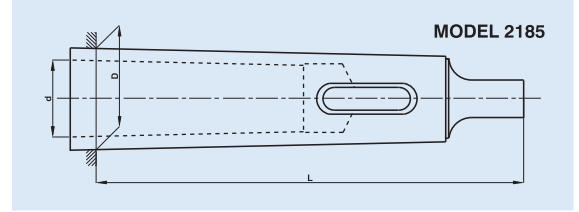
CNC TORNA MANDREN TUTUCUSU

CNC LATHE CHUCK HOLDER



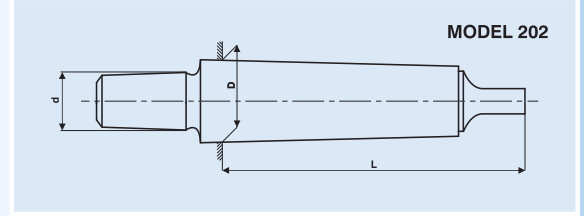
Sipariş Kodu	Ölçüler / Dimensions		
Order Code	D	d	L
CM1625	25	16	50
CM1825	25	18	50
CM1832	32	18	55
CM2232	32	22	55
CM1840	40	18	60
CM2240	40	22	60
CM2440	40	24	60

HASSAS MORS KOVANLARI / PRECISION MORSE HIVES



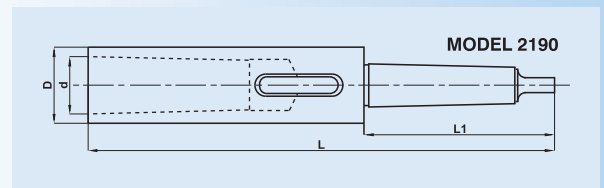
Sipariş Kodu	Ürün	Ölçüler / Dimensions			Ağırlık (kg.)
Order Code	Product	D mm	d mm	L mm	Weight
V010	2 X 1	17.780	12.065	92	0.15
V111	3 X 1	23.825	12.065	100	0.2
V011	3 X 2	23.825	17.780	112	0.2
V012	4 X 2	31.267	17.780	124	0.5
V013	4 X 3	31.267	23.825	140	0.5
V014	5 X 3	44.399	23.825	156	1.15
V015	5 X 4	44.399	31.267	171	1.15
V016	6 X 5	63.348	44.399	218	3

HASSAS MANDREN KONİĞİ / PRECISION MANDREN CONIC



Sipariş Kodu	Ürün	Ölçüler / Dimensions			Ağırlık (kg.)
Order Code	Product	D mm	d mm	L mm	Weight
M20	12 X 2	17.780	12	75	0.2
M30	16 X 2	17.780	16	75	0.2
M40	18 X 2	17.780	18	75	0.25
M50	16 X 3	23.825	16	94	0.5
M60	18 X 3	23.825	18	94	0.5
M70	22 X 3	23.825	22	94	0.5
M80	24 X 3	23.825	24	94	0.5
M90	16 X 4	31.267	16	117.5	1
M100	18 X 4	31.267	18	117.5	1
M110	22 X 4	31.267	22	117.5	1
M120	24 X 4	31.267	24	117.5	1
M130	18 X 5	44.399	18	149.5	1.6
M140	22 X 5	44.399	22	149.5	1.6
M150	24 X 5	44.399	24	149.5	1.6

UZATMA MORS KOVANI / EXTENSION MORSE HIVE



Sipariş Kodu	DIŞ KONİK / INTERNAL CONIC	İÇ KONİK / EXTERNAL CONIC	Ölçüler / Dimensions			
Order Code	MK	MK	D	d	L	L1
UV04	2	3	32	23.825	196	80
UV05	3	2	24	17.780	195	100
UV06	3	3	32	23.825	215	100
UV07	3	4	45	31.267	240	100
UV08	4	3	32	23.825	240	125
UV09	4	4	45	31.267	264	125
UV10	4	5	63	44.399	300	125
UV11	5	4	45	31.267	300	156
UV12	5	5	63	44.399	335	156



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