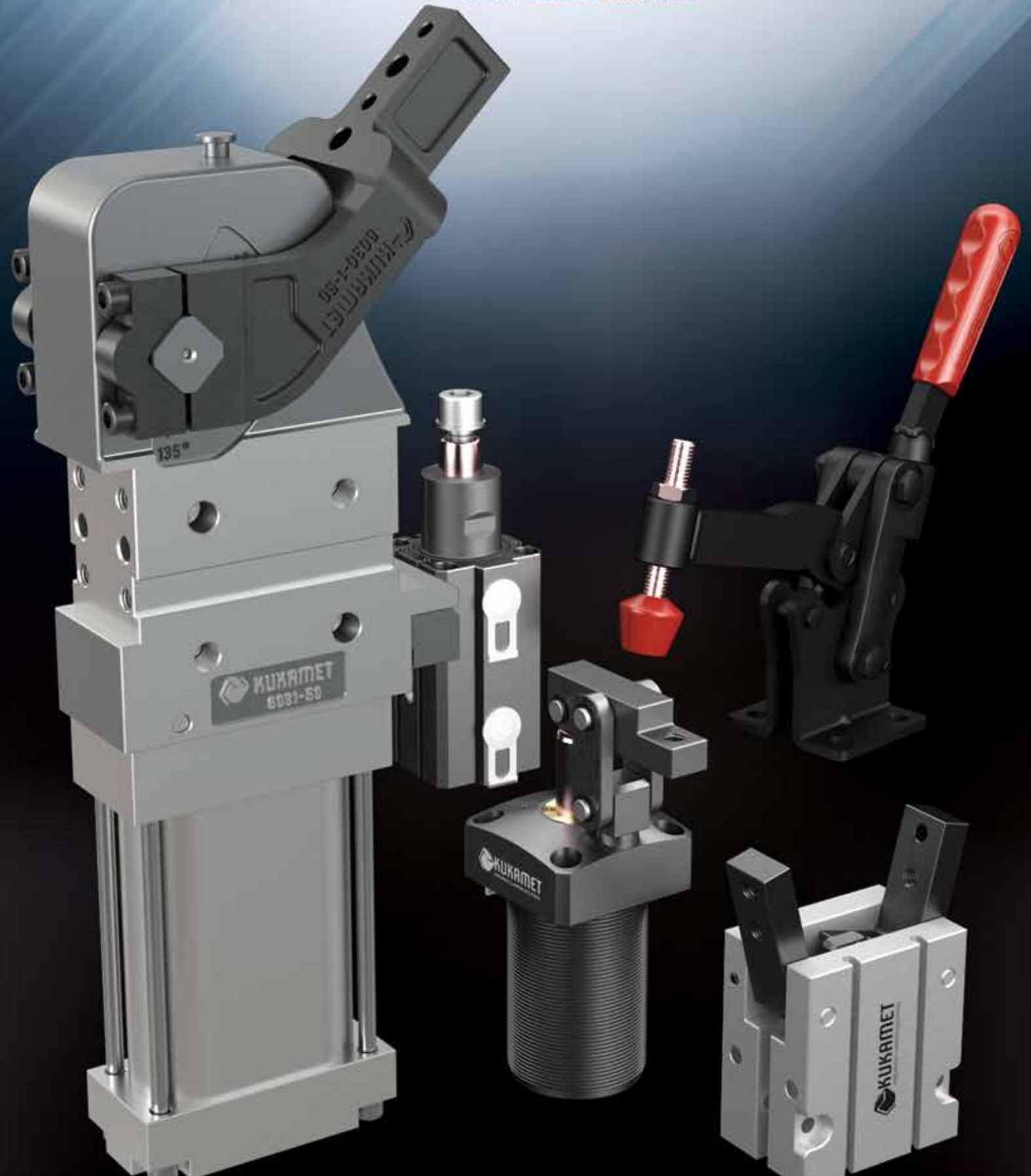




KUKAMET

PNEUMATIC CLAMPING SOLUTIONS

www.kukamet.com.tr



PNEUMATIC COMPONENTS FOR PRODUCTION ENGINEERING



KURUCUMUZUN MESAJI

1985 yılında Hasan Bey tarafından kurulan firmamız 36 yıllık tecrübeye sahiptir. 36 yıllık tecrübemiz ile, bugün tüm dünyada otomotiv, savunma sanayii, beyaz eşya, gıda ve tarım ana sanayileri tarafından kullanılan hızlı bağlantı elemanlarında tercih edilen markayız. Yenilikçi anlayışla üretimin GİZLİ KAHRAMANLARINI sizlere sunuyoruz.

FOUNDER'S MESSAGE

Founded in 1985 by Mr. Hasan, our company has 36 years of experience. With our 36 years of experience, today we are the preferred Toggle Clamp brand for many companies in the automotive, white goods, defense, food and agricultural industries all over the world. We will keep innovating to present you with the best secret heroes of manufacturing.



TANIM

Esasında bir bağlantı elemanı olan toggle clamp birçok sanayi kolunda geniş bir uygulama çeşitliliğine sahiptir. Minimum güç ile maksimum sıkıştırma, itme, çekme gücü sağlar. "KUKAMET" i ayrıcalıklı kılan, ani darbe, titreşim ve sarsıntılara karşı açılmasını engelleyecek kilit sistemine sahip olmasıdır. Ayrıca geliştirilen sıkma uçları sayesinde her şekilde parça kullanımına imkan sağlanmıştır.

KULLANIM ALANLARI

- * Otomotiv kaynak, kontrol ve montaj aparatlarında
- * Talaşlı üretimde parça sabitlemede
- * Sac sabitlemede
- * İmalat aparatlarında
- * Metal işleme alanlarında
- * Profil sıkımda
- * Kapak sıkımda
- * Seri üretim aparatlarında
- * Demir plastik ve ahşap doğramada

KULLANILDIĞI SANAYİLER

- * Otomotiv
- * Beyaz eşya
- * Makine
- * Gıda
- * Plastik
- * Ahşap
- * Seramik

GENEL ÖZELLİKLER

- * Galvaniz kaplı, yüksek kaliteli, çelik sac aksamı
- * Isıl işlem görmüş ve yağlı yataklama burçları
- * 304 kalite paslanmaz krom perçinler
- * Kolay tutulabilen yağa ve kırılmaya dayanıklı insan sağlığına ve gıdaya uygun plastik sap
- * Farklı bağlantı tabanları ile çeşitli pozisyonlarda montaj
- * Yağa ve yanmaya dayanıklı baskı civatası iki eksenli hareket imkanı sunar böylece sabitleme mesafesi ayarlanabilir

DEFINITION

Toggle clamp that is basically a fastening element has various ranges of application in several branches of industry. It provides maximum holding, pushing pulling and squeezing forces with minimum power. Having a lock system that will prevent from being opened due to sudden impacts, vibrations or shocks grants privileges to the "KUKAMET". It also offers opportunity to use parts in any way through its compression ends.

USAGE AREAS

- * At automotive welding, control and assembly apparatus
- * For fixing parts at production
- * For fixing steel sheet
- * For production apparatus
- * At areas of metal processing
- * For profile squeeze
- * For cover squeeze
- * At apparatus of serial production
- * For chopping of wood plastics and iron

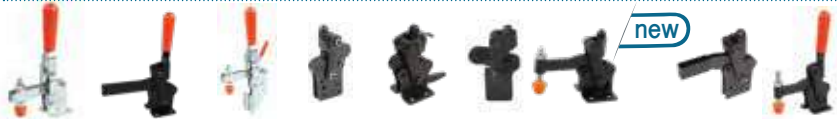
INDUSTRIAL USAGES

- * Automotive Industries
- * White goods Industries
- * Machine Manufacturers
- * Food Sector
- * Plastics Sector
- * Wood Sector
- * Ceramics Sektor

GENERAL FEATURES

- * High-quality steel sheet parts are galvanized
- * Heat treated and lubricated bushings
- * Stainless rivets (304 quality)
- * Plastic handles are easy grabbing, resistant to oil and break, suitable for human health and food
- * Assembly with different connection bases at various positions
- * Compression bolts are resistant to oil and fire, fixation distances can be adjusted by enabling movement in 2 axial



Ürün Product	Tanım Description	Sayfa No Page No
	Yatay Bağlantı Elemanları Horizontal Toggle Clamps	6-16
	Dikey Bağlantı Elemanları Vertical Toggle Clamps	17-37
	Kompakt Dikey Bağlantı Elemanları Compact Vertical Toggle Clamps	38
	U Kancalı Bağlantı Elemanları Latch Toggle Clamps With U Hook	39-50
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	Siyah Seri Bağlantı Elemanları Black Series Toggle Clamps	115
	Aksesuarlar Accessories	117-123

**sağlığa zararlı olmayan
kolay tutulabilen, yağa ve kırılmaya
dayanıklı, ergonomik poliüretan sap**
Not be harmful to health polyurethane handles
are ergonomic, easy grabbing and resistant to
oil and break

parmak sıkışmaması için koruyucu parça
protector parts to avoid pinching of fingers

**galvaniz kaplı, yüksek kaliteli
çelik sac aksamı**
high-quality steel sheet parts are
galvanized

8.8 kalite, somunlu ve rondelalı baskı civatası
8.8 grade, clamping bolt with nut and washer

**paslanmaz perçinler ve
sertleştirilmiş burçlar**
stainless rivets (304 quality) and heat
treated bushings

**uzun süre kullanım için bütün
mafsalların yağlanması**
lubricated hinges for a long time using

yağa ve yanmaya dayanıklı baskı parçası
clamping plastics are resistant to oil and fire

**2 eksenli hareket imkanı baskı parçası ve
bu baskı civatasının çıkması için kıvrım**
fixation distances can be adjusted by enabling
movement in 2 axial and folds for avoid to quit
of clamping parts



- Tüm standart bağlantı elemanlarımız üstün kaliteli çelikten üretilip satışa sunulmaktadır.
- R304 kalite paslanmaz çelik perçinler üzerine yaptığımız özel uygulama sayesinde aşınmayı asgariye indirerek daha uzun kullanım ömrü sağlar.
- Isıl işlem yöntemiyle sertleştirilmiş burçlar aşınmayı önler.
- Yağlanmış mafsallar kolay kullanım ve aşınmaya karşı koruma sağlar.
- Poliüretan yağa dayanıklı ergonomik sap ; rahat kullanımlı, kırılmaz ve esnektir. 80 °C sıcaklıkta yumuşar , 180 °C sıcaklıkta erir. Bu durumda metal saplarımız önerilir.
- Silikon uç ; -60 °C ile 200 °C sıcaklıklarda kullanılır. Aralıklı olarak 250 °C ye kadar dayanıklıdır. Esneklik özelliği , hava direnci ve ozon dayanımı yüksektir. Yüksek mekanik özellikler gerektiren uygulamalarda önerilmez. Bu durumda metal uçlarımız önerilir.
- Modüler Seri Bağlantı Elemanlarımızda ; sıcak dövme çelikten üretilmiş kollar , sertleştirilmiş burç ve taşlanmış pimler sayesinde mukavemet bakımından hiç problem yaşamadan ağır iş uygulamalarda uzun çalışma sürelerine ulaşmaları sağlanmıştır.
- Pnömatik Swing Bağlantı Elemanlarımızda ; çalışma ömrünü uzatan toz kapağı konulmuştur. Özel bir tasarım ile tekrarlama hassasiyeti sağlanmıştır.

- All our standard model toggle clamps are manufactured from high grade steel
- Special designed of our R304 quality stainless steel rivets minimize wear and ensure long endurance.
- Bushings hardened by heat treatment reduce wear
- Lubricated hinges ensure easy operation and wear resistance
- Polyurethane oil resistant ergonomic handle, for easy operation, is impact resistant and flexible. Softens at 80 °C, melts at 180 °C. For high temperatures we advice metal handles
- The silicon squeeze part can be used in temperatures between -60 °C and 200 °C. It can handle peaks in temperature up to 250 °C. It is flexible and highly resistant to air pressure and ozone. It is not suited for applications needing strong mechanical properties. For these applications we advice metal squeeze parts.
- The modular series is thanks to the forged steel arms, hardened bushings and grinded pins capable of handling the heaviest jobs with long endurance without any problem.
- Our pneumatic swing clamps are equipped with a dust guard to prolong their lifespan. Our special design ensures a high accuracy in repeating cycles.

ÖZEL KULLANIM ALANLARI İÇİN BAĞLANTI ELEMANLARI

Toggle clamps for specialized applications:

Bağlantı elemanı olan ürün gamımızın büyük bölümü , ST52 çelik , paslanmaz çelik ve siyah seri olarak da mevcuttur. Bu ürünler, ürün kodlarının önüne gelen S ve B harflerinden tanınabilir. Satış ekibimiz seçiminizi yapmanıza yardımcı olmaktan mutluluk duyar.

A wide range of our toggle clamps is available in ST52 grade steel, stainless steel and in all black. These models can be identified by the letters S and B in front of the product code respectively. Our sales team will be happy to assist you to make the right choice.



PASLANMAZ ÇELİK SERİSİ

Stainless Steel Series

Sıkı hijyen gereksinimlerine tabi veya paslanmaya ve aside karşı yüksek mukavemet gerektiren uygulamalar için ideal çözümdür. Örneğin ; gıda , kimya ve ilaç sanayileri için uygundur. Paslanmaz çelik bağlantı elemanlarının ağır çevre şartlarına maruz kalınan uygulamalar için de kullanılması tavsiye edilir. Paslanmaz Çeliğin En Önemli Faydaları:

- Asit ve korozyona karşı mukavemetli
- Anti-magnetik
- Boya veya ek kaplamaya gerek olmaz

The product of choice for applications where stringent hygiene requirements or high corrosion and acid resistance is needed. For example in the Food, Chemical and Pharmaceutical industries. Stainless steel clamps and latches are also ideal for use in outdoor applications where they are subjected to harsh weather conditions. The main benefits of stainless steel are:

- Very high corrosion and acid protection against environmental influences
- Anti-magnetic properties
- No need for extra coating

SİYAH SERİSİ

Black Series

Siyah seri ; özel olarak optik ölçüm uygulamaları için geliştirilmiştir. Uygulanan mat siyah fosfat kaplama ışık ve lazer ışınlarının yansımaları önlerken aynı zamanda paslanmaya karşı da koruma sağlar. Bu bağlantı elemanlarının ışık yansıtma özelliği sayesinde ölçüm verilerinin alınması esnasında kolayca bağlanan iş parçası izole edilir ve daha yüksek kalite ölçüm verisi toplanılabilmesini sağlar.

The black series is purpose designed for use with optical measurement applications. The application of a matt black phosphate coating prevents the reflection of light or laser beams, whilst also providing corrosion protection. The non-reflective properties of these clamps enable them to be isolated from the work piece easily while processing the measurement data and drastically improve data quality.



**MANUEL
BAĞLANTI ELEMANLARI**
MANUAL
TOGGLE CLAMPS



*retimin hızlı ve gl kahramanları...
fast and strong heroes of production...*



111

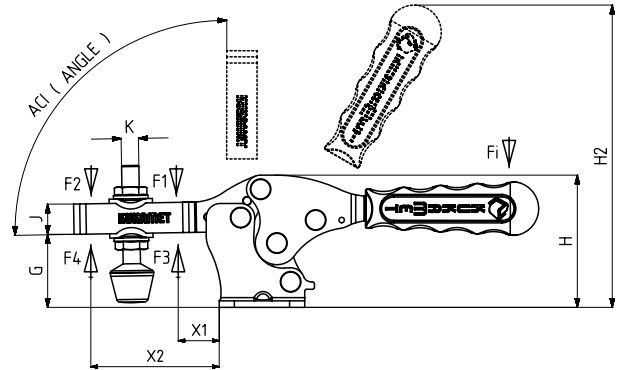
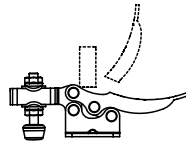


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%)
							(X1) VERİM (YIELD) (F1 : Fi)	(X2) VERİM (YIELD) (F2 : Fi)			
111 - 0 - M	S 111 -	B 111 -	450	300	520	350	5:1	2:1	M4X25	90 °	42
111 - 0	S 111 -	B 111 -	450	300	520	350	5:1	2:1	M4X25	90 °	42
111 - 1	S 111 -	B 111 -	850	650	1000	800	7:1	3:1	M5X35	90 °	125
111 - 2	S 111 -	B 111 -	1000	750	1200	1000	7:1	3:1	M6X40	90 °	225
111 - 3	S 111 -	B 111 -	2300	1250	2500	1350	8:1	4:1	M8X50	90 °	340
111 - 4	-	B 111 -	3500	1800	3650	2000	9:1	4:1	M10X70	90 °	810
111 - 5	-	B 111 -	4500	2000	5000	2125	10:1	5:1	M12X80	90 °	1520

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



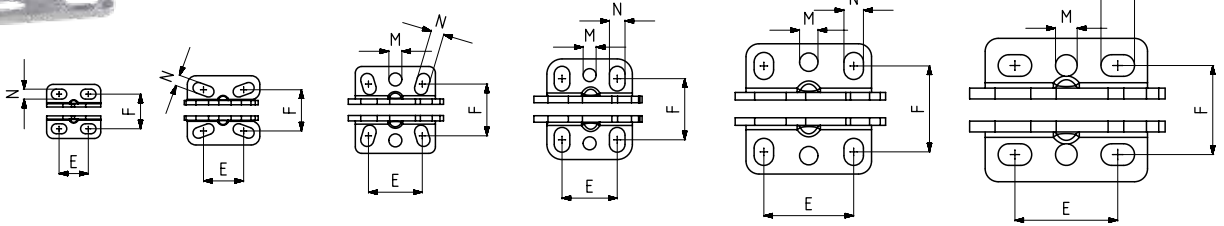
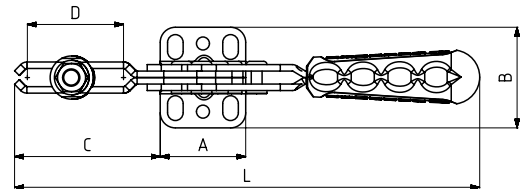
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



111-0-M



MODEL NO : 111-0-M
(KAPLAMASIZ METAL SAP
(UNCOATED METAL HANDLE)



MODEL NO : 111-0

MODEL NO : 111-1

MODEL NO : 111-2

MODEL NO : 111-3

MODEL NO : 111-4

MODEL NO : 111-5



111-L

111-D

211

711

Sayfa/Page: 12

Sayfa/Page: 7

Sayfa/Page: 17

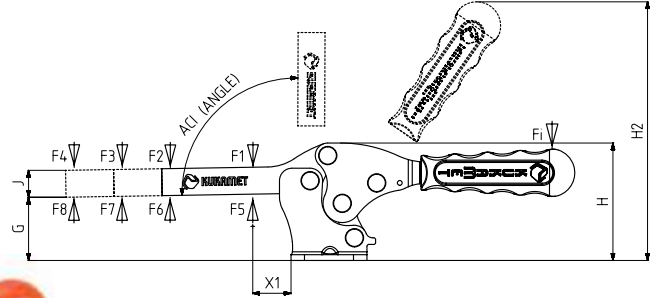
Sayfa/Page: 88

MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
111 - 0 - M	25	25	25,5	13	13,5	16	15	24	60	7,5	M4	82,5		4,5 x 7	11	18
111 - 0	25	25	25,5	13	13,5	16	15	24	66	7,5	M4	89		4,5 x 7	11	18
111 - 1	33,5	32	43	28	18,5	19	21	40	95	10	M5	148		5 x 10	15	33
111 - 2	37	40	66	47	25	24	28	51	110	14	M6	184	Ø 6	6 x 10	19	54
111 - 3	39,5	46,5	68	42	25,5	28,5	34	61	136	14	M 8	215	Ø 6	7 x 11,5	25	53
111 - 4	58	60	100	73	41,5	39,5	45	82	175	19	M10	296	Ø 8,5	9 x 12,5	27	83
111 - 5	75	66	129	92	47,5	42	55	104	218	25,5	M12	345	Ø 10	10 x 15,5	37	107

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)		C1	C2	C3
111 - 1 - D	B 111 -	850	650	200	100	1000	800	200	125	7:1	3:1	90°	108	134	152
111 - 2 - D	B 111 -	1000	750	300	220	1200	1000	350	250	7:1	3:1	90°	204	230	254
111 - 3 - D	B 111 -	2300	1250	560	400	2500	1350	740	530	8:1	4:1	90°	300	328	362
111 - 4 - D	B 111 -	3500	1800	900	700	3650	2000	1035	800	9:1	4:1	90°	720	782	847
111 - 5 - D	B 111 -	4500	2000	1250	1000	5000	2125	1350	1080	10:1	5:1	90°	1378	1480	1580

F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE) , F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

111-D



*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



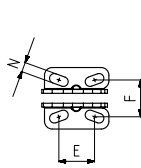
111-D-L
Sayfa/Page: 12



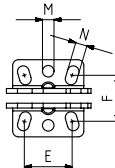
211-D
Sayfa/Page: 18



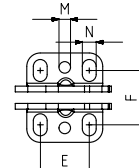
211
Sayfa/Page: 17



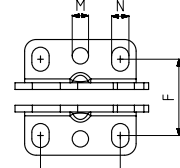
MODEL NO : 111-1-D



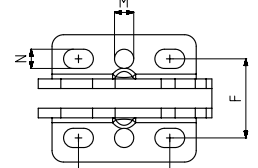
MODEL NO : 111-2-D



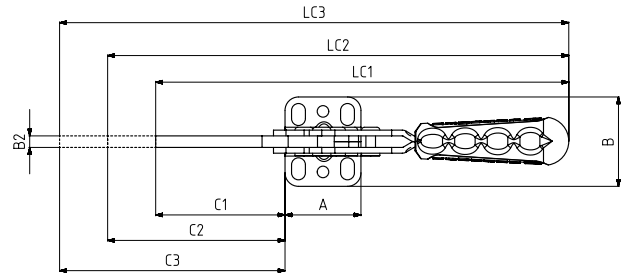
MODEL NO : 111-3-D



MODEL NO : 111-4-D



MODEL NO : 111-5-D



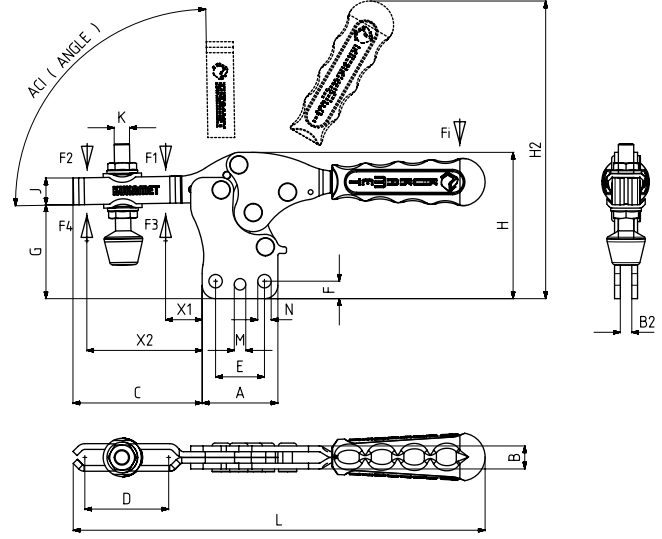
MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	H2	J	LC1	LC2	LC3	M	N	X1
111 - 1 - D	33,5	32	5	43	93	143	18,5	19	21	40	95	10	148	198	248		5 x 10	15
111 - 2 - D	37	40	5	66	116	166	25	24	28	51	110	14	184	234	284	Ø 6	6 x 10	19
111 - 3 - D	39,5	46,5	6	68	118	168	25,5	28,5	34	61	136	14	215	265	315	Ø 6	7 x 11,5	25
111 - 4 - D	58	60	8	100	150	200	41,5	39,5	45	82	175	19	296	346	396	Ø 8,5	9 x 12,5	27
111 - 5 - D	75	66	10	129	179	229	47,5	42	55	104	218	25,5	345	395	445	Ø 10	10 x 15,5	37

112



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (±5°)	AĞIRLIK (WEIGHT) (gr ±%2)
							(X1) VERİM (YIELD) (F1 : Fi)	(X2) VERİM (YIELD) (F2 : Fi)			
112 - 0 - M	S 112 -	B 112 -	450	300	520	350	5:1	2:1	M4X25	90°	42
112 - 0	S 112 -	B 112 -	450	300	520	350	5:1	2:1	M4X25	90°	42
112 - 1	S 112 -	B 112 -	850	650	1000	800	7:1	3:1	M5X35	90°	125
112 - 2	S 112 -	B 112 -	1000	750	1200	1000	7:1	3:1	M6X40	90°	225
112 - 3	S 112 -	B 112 -	2300	1250	2500	1350	8:1	4:1	M8X50	90°	340
112 - 4	-	B 112 -	3500	1800	3650	2000	9:1	4:1	M10X70	90°	810
112 - 5	-	B 112 -	4500	2000	5000	2125	10:1	5:1	M12X80	90°	1520

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE), F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



112-0-M

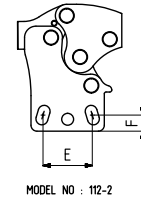
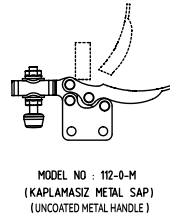


Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical

112-L
Sayfa/Page: 12

112-D
Sayfa/Page: 9

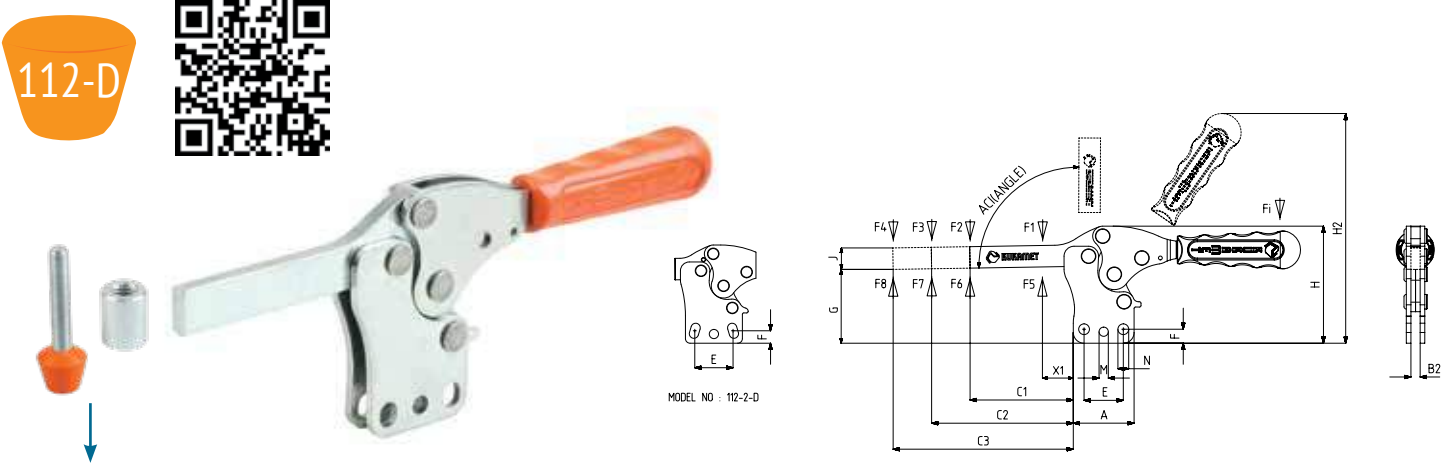
212
Sayfa/Page: 19



MODEL NO	A	B	B2	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
112 - 0 - M	25	7	4	25,5	13	16	4,5	22,5	32	68	7,5	M4	82,5	-	Ø 4,5	11	18
112 - 0	25	7	4	25,5	13	16	4,5	22,5	32	74	7,5	M4	89	-	Ø 4,5	11	18
112 - 1	33,5	9	5	43	28	23	5,5	31	50	105	10	M5	148	-	Ø 5	15	33
112 - 2	37	10	5	66	47	25	8	41	64	123	14	M6	184	Ø 6	6 x 10	19	54
112 - 3	39,5	12	6	68	42	25,5	9	49	76	151	14	M 8	215	Ø 6	Ø 7	25	53
112 - 4	58	16	8	100	73	41,5	8,5	65	102	195	19	M10	296	Ø 8,5	Ø 9	27	83
112 - 5	75	20	10	129	92	47,5	12	75	124	238	25,5	M12	345	Ø 10	Ø 10	37	107

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fİ		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)		C1	C2	C3
112 - 1 - D	B 112 -	850	650	200	100	1000	800	200	125	7:1	3:1	90°	114	136	155
112 - 2 - D	B 112 -	1000	750	300	220	1200	1000	350	250	7:1	3:1	90°	200	228	254
112 - 3 - D	B 112 -	2300	1250	560	400	2500	1350	740	530	8:1	4:1	90°	292	326	354
112 - 4 - D	B 112 -	3500	1800	900	700	3650	2000	1035	800	9:1	4:1	90°	720	788	844
112 - 5 - D	B 112 -	4500	2000	1250	1000	5000	2125	1350	1080	10:1	5:1	90°	1385	1485	1600

F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE), F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fİ : UYGULAMA KUVVETİ (APPLIED FORCE)



*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page

Ayak Tipi: Dikey Tabanlı Body Mounting Base: Vertical



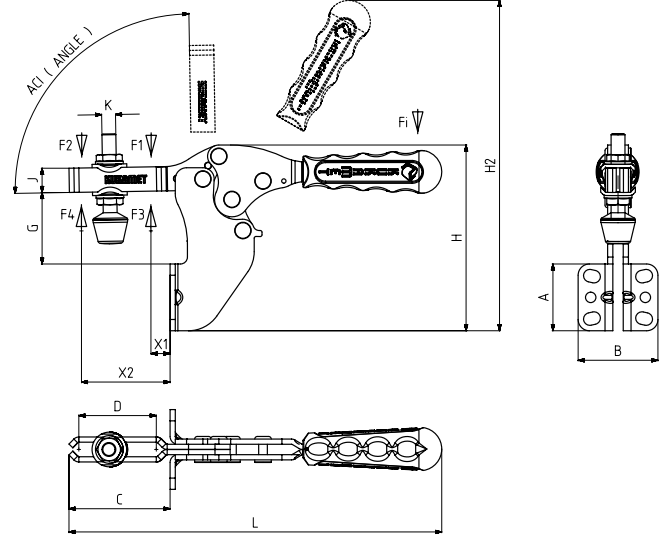
MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	H2	J	LC1	LC2	LC3	M	N	X1
112 - 1 - D	33,5	9	5	43	93	143	23	5,5	31	50	105	10	148	198	248	-	Ø 5	15
112 - 2 - D	37	10	5	66	116	166	25	8	41	64	123	14	184	234	284	Ø 6	6 x 10	19
112 - 3 - D	39,5	12	6	68	118	168	25,5	9	49	76	151	14	215	265	315	Ø 6	Ø 7	25
112 - 4 - D	58	16	8	100	150	200	41,5	8,5	65	102	195	19	296	346	396	Ø 8,5	Ø 9	27
112 - 5 - D	75	20	10	129	179	229	47,5	12	75	124	238	25,5	345	395	445	Ø 10	Ø 10	37

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)			
113 - 1	B 113-	850	650	1000	800	7:1	3:1	M5X35	90 °	155
113 - 2	B 113-	1000	750	1200	1000	7:1	3:1	M6X40	90 °	270
113 - 3	B 113-	2300	1250	2500	1350	8:1	4:1	M8X50	90 °	420
113 - 4	B 113-	3500	1800	3650	2000	9:1	4:1	M10X70	90 °	940
113 - 5	B 113-	4500	2000	5000	2125	10:1	5:1	M12X80	90 °	1840

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



113



Ayak Tipi: Yan Tabanlı Body Mounting Base: Side Ward



113-L
Sayfa/Page: 12



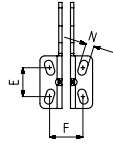
113-D
Sayfa/Page: 11



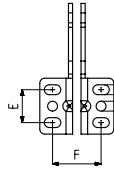
213
Sayfa/Page: 21



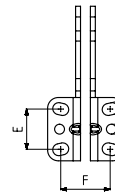
133
Sayfa/Page: 15



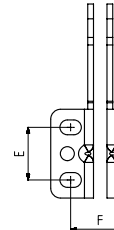
MODEL NO : 113-1



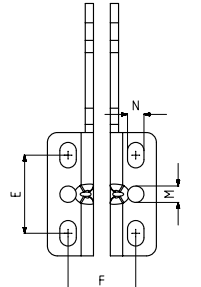
MODEL NO : 113-2



MODEL NO : 113-3



MODEL NO : 113-4



MODEL NO : 113-5



MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
113 - 1	32	32	40	28	17,5	20	22,5	73	128	10	M5	148	-	5x9	12	30
113 - 2	34	45	60	47	20	29,5	34	90	149	14	M6	184	Ø 6	6x10	13	48
113 - 3	38,5	46	58	42	24,5	30	41	107	183	14	M 8	215	Ø 6	7x9,5	16	44
113 - 4	54	60	91	73	32	36	46,5	135	230	19	M10	296	Ø 8,5	9x13	18	74
113 - 5	75	66	117	92	47,5	42	54	177	291	25,5	M12	345	Ø 10	10x15,5	25	95

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)		C1	C2	C3
113 - 1 - D	B 113 -	850	650	200	100	1000	800	200	125	7:1	3:1	90°	136	156	164
113 - 2 - D	B 113 -	1000	750	300	220	1200	1000	350	250	7:1	3:1	90°	215	282	306
113 - 3 - D	B 113 -	2300	1250	560	400	2500	1350	740	530	8:1	4:1	90°	370	414	432
113 - 4 - D	B 113 -	3500	1800	900	700	3650	2000	1035	800	9:1	4:1	90°	840	915	980
113 - 5 - D	B 113 -	4500	2000	1250	1000	5000	2125	1350	1080	10:1	5:1	90°	1705	1808	1906

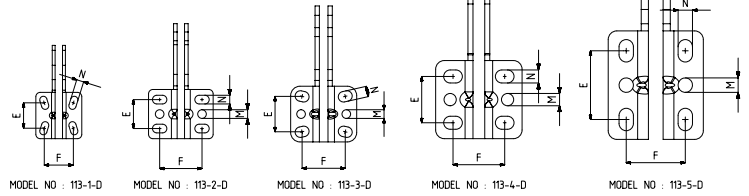
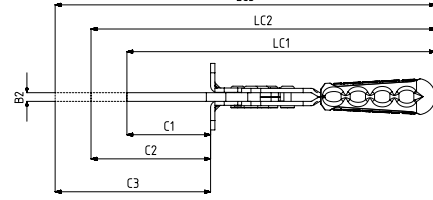
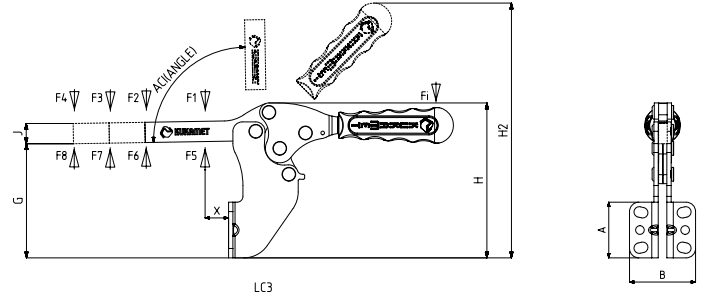
F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE) , F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

113-D



*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page

Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward



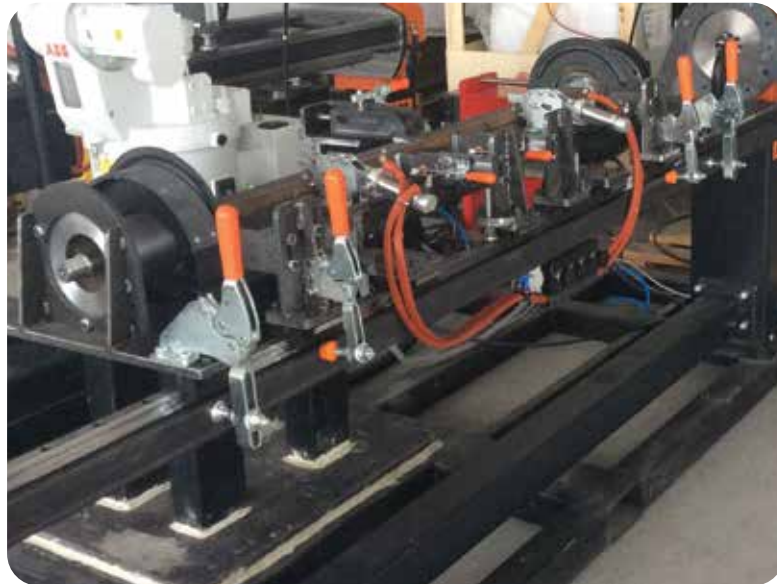
113-D-L
SSayfa/Page: 12



213-D
Sayfa/Page: 22



213
Sayfa/Page: 21



MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	H2	J	LC1	LC2	LC3	M	N	X1
113 - 1 - D	32	32	5	40	90	140	17,5	20	55	73	128	10	148	198	248	-	5x9	12
113 - 2 - D	34	45	5	60	110	160	20	29,5	34	90	149	14	184	234	284	Ø 6	6x10	13
113 - 3 - D	38,5	46	6	58	108	158	24,5	30	41	107	183	14	215	265	315	Ø 6	7x9,5	16
113 - 4 - D	54	60	8	91	141	191	32	36	46,5	135	230	19	296	346	396	Ø 8,5	9x13	18
113 - 5 - D	75	66	10	117	167	217	47,5	42	54	177	291	25,5	345	395	445	Ø 10	10x15,5	25

KİLİTLİ/LOCKED PATENT NO: 20100115

NOT : Kilitli modellerin teknik detayları 6,7,8,9,10 ve 11 numaralı sayfalarda mevcuttur.

Note : Technical details of locked models are available at pages 6,7,8,9,10 and 11

111-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
111 - 1 - L	S111 - 1 - L	B111 - 1 - L
111 - 2 - L	S111 - 2 - L	B111 - 2 - L
111 - 3 - L	S111 - 3 - L	B111 - 3 - L
111 - 4 - L	-	B111 - 4 - L
111 - 5 - L	-	B111 - 5 - L



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

112-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
112 - 1 - L	S112 - 1 - L	B112 - 1 - L
112 - 2 - L	S112 - 2 - L	B112 - 2 - L
112 - 3 - L	S112 - 3 - L	B112 - 3 - L
112 - 4 - L	-	B112 - 4 - L
112 - 5 - L	-	B112 - 5 - L



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical

113-L



MODEL NO	SİYAH (BLACK)
113 - 1 - L	B113 - 1 - L
113 - 2 - L	B113 - 2 - L
113 - 3 - L	B113 - 3 - L
113 - 4 - L	B113 - 4 - L
113 - 5 - L	B113 - 5 - L



Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward

111-D-L



MODEL NO	SİYAH (BLACK)
111 - 1 - D - L	B111 - 1 - D - L
111 - 2 - D - L	B111 - 2 - D - L
111 - 3 - D - L	B111 - 3 - D - L
111 - 4 - D - L	B111 - 4 - D - L
111 - 5 - D - L	B111 - 5 - D - L



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

112-D-L



MODEL NO	SİYAH (BLACK)
112 - 1 - D - L	B112 - 1 - D - L
112 - 2 - D - L	B112 - 2 - D - L
112 - 3 - D - L	B112 - 3 - D - L
112 - 4 - D - L	B112 - 4 - D - L
112 - 5 - D - L	B112 - 5 - D - L



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical

113-D-L



MODEL NO	SİYAH (BLACK)
113 - 1 - D - L	B113 - 1 - D - L
113 - 2 - D - L	B113 - 2 - D - L
113 - 3 - D - L	B113 - 3 - D - L
113 - 4 - D - L	B113 - 4 - D - L
113 - 5 - D - L	B113 - 5 - D - L

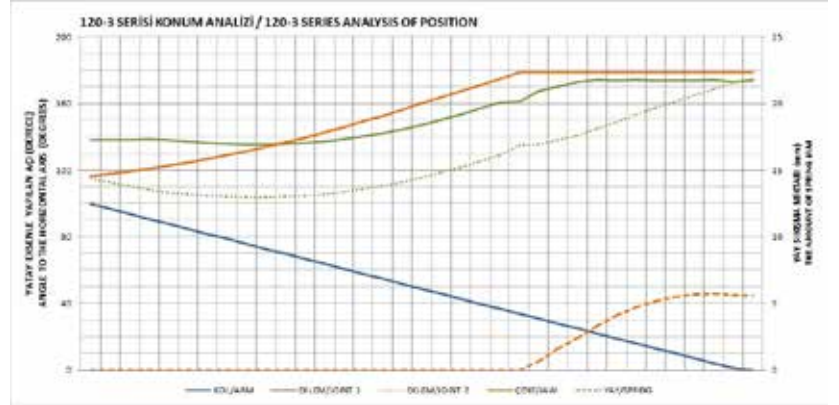


Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ±%2)
					X1 VERİM (YIELD) (F1:Fi)	X2 VERİM (YIELD) (F2:Fi)		
121 - 3	2500	1250	2800	1400	9:1	4,5:1	71°	460

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) ,
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



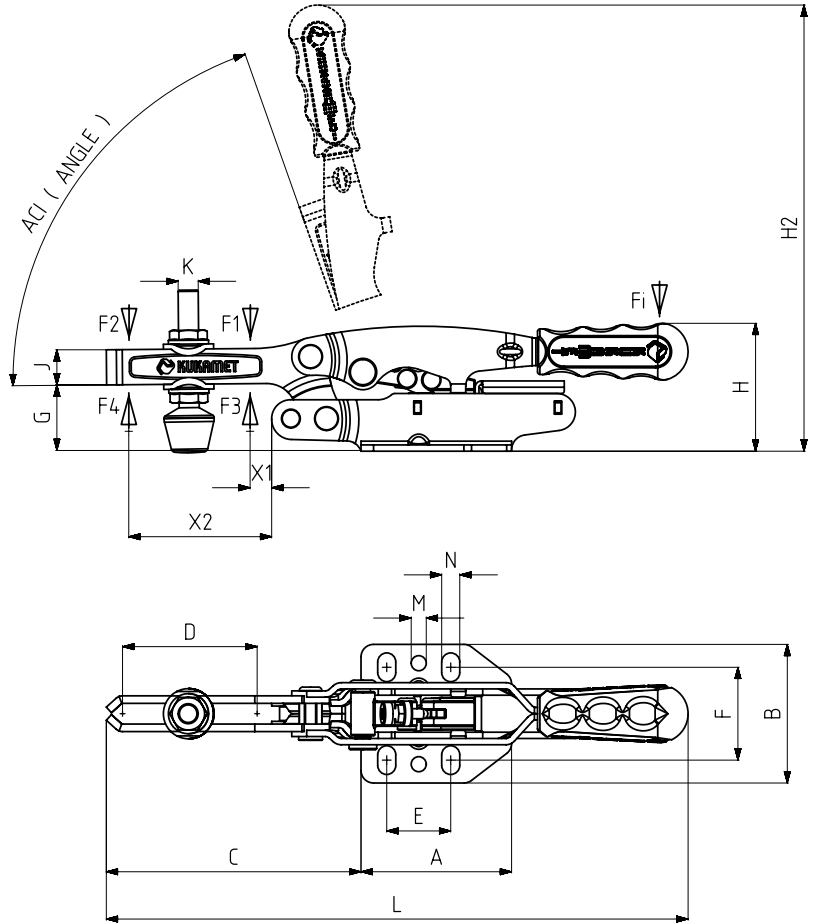
Ayak Tipi: Yatay, Alçak Tabanlı Body Mounting Base: Horizontal, Low Base

Ürün özellikleri ;

Yüksekliği otomatik ve kademesiz olarak ayarlanabilen çene sayesinde 40 mm kalınlığa kadar olan iş parçalarını baskı kuvveti değişmeden sıkıştırabilir. Sıkma kuvveti mekanizma üzerinde bulunan ayar vidasından ayarlanabilir.

Product features:

The automatic and continuously adjustable clamp arm enables clamping of work pieces of up to 40 mm without any variation in the exerted force. The clamping force can be adjusted to your particular needs by turning the setscrew on the mechanism.



MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
121 - 3	60	55,5	101,5	50	25,5	37	26,5	51	187	14	M8	232	Ø6	7x11,5	16	50

122



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±2%)
					X1 VERİM (YIELD) (F1:Fi)	X2 VERİM (YIELD) (F2:Fi)		
122 - 3	2500	1250	2800	1400	9:1	4,5:1	71°	490

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



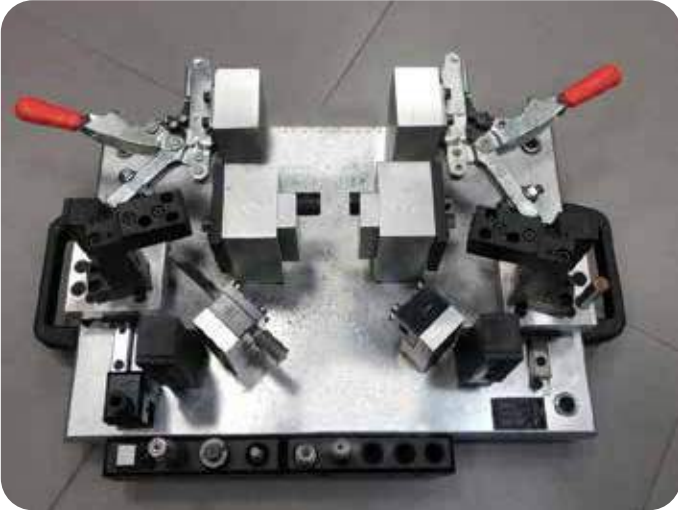
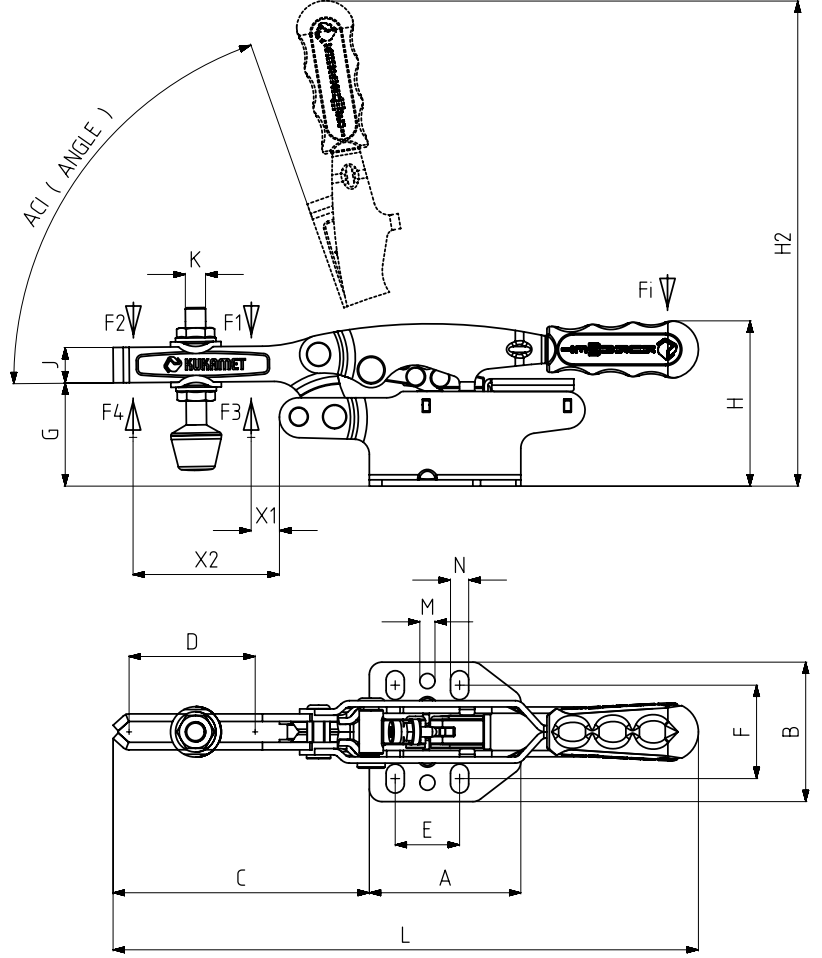
Ayak Tipi: Yatay, Yüksek Tabanlı
Body Mounting Base: Horizontal, High Base

Ürün özellikleri ;

Yüksekliği otomatik ve kademeli olarak ayarlanabilen çene sayesinde 55 mm kalınlığa kadar olan iş parçalarını baskı kuvveti değişmeden sıkıştırabilir. Sıkma kuvveti mekanizma üzerinde bulunan ayar vidasından ayarlanabilir.

Product features:

The automatic and continuously adjustable clamp arm enables clamping of work pieces of up to 55 mm without any variation in the exerted force. The clamping force can be adjusted to your particular needs by turning the setscrew on the mechanism.



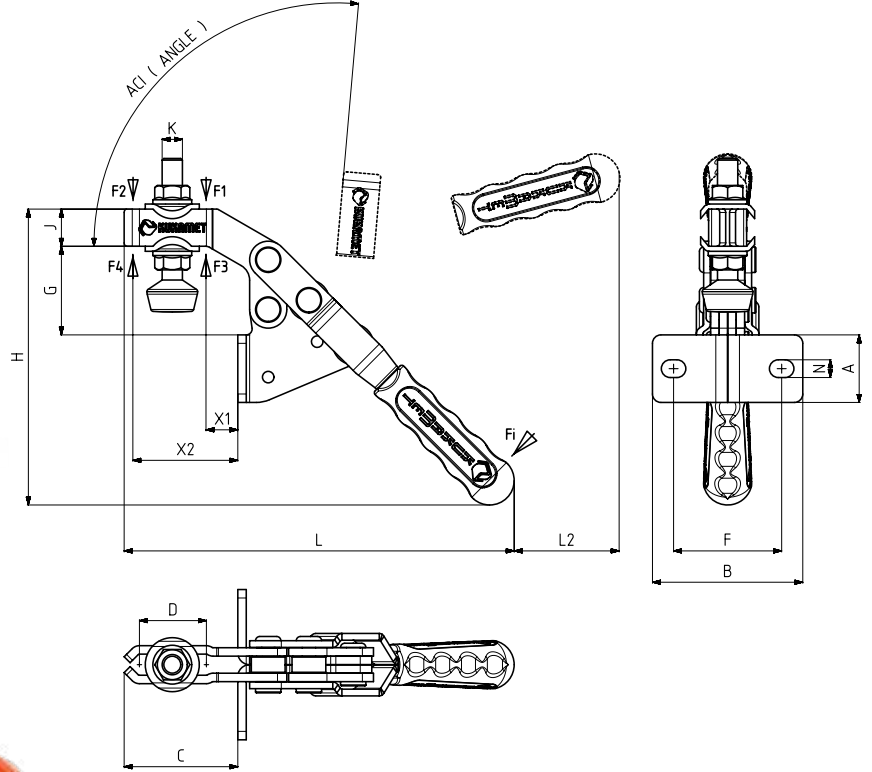
MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
122 - 3	60	55,5	101,5	50	25,5	37	41	65,5	201,5	14	M8	232	Ø6	7x11,5	16	50

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1 : Fi)	(X2) VERİM (YIELD) (F2 : Fi)			
133 - 5	B 133 -	4500	3250	5000	3500	10:1	5:1	M12X80	90 °	1191

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward



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Sayfa/Page: 21



113
Sayfa/Page: 10



MODEL NO	A	B	C	D	F	G	H	J	K	L	L2	N	X1	X2
133 - 5	40	89	67.5	20	64	52.5	180	22	M12	233	62	10.5 x 14.5	21	56

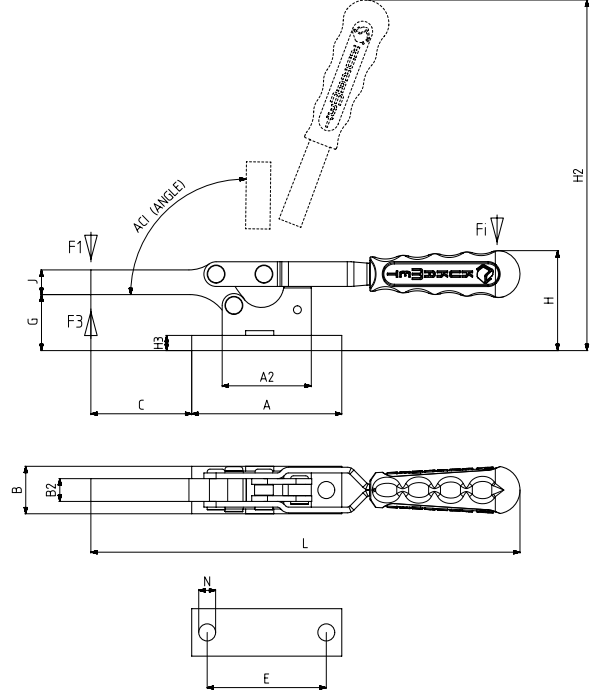
141



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
141 - 4	1750	2600	4:1	90°	500

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



141-L

KİLİTLİ/LOCKED



MODEL NO	A	B	B2	C	D	E	G	H	H2	H3	J	L	N
141 - 4	80	25	12	53,75	-	63,5	29,5	53	185,5	8	13	229	Ø9

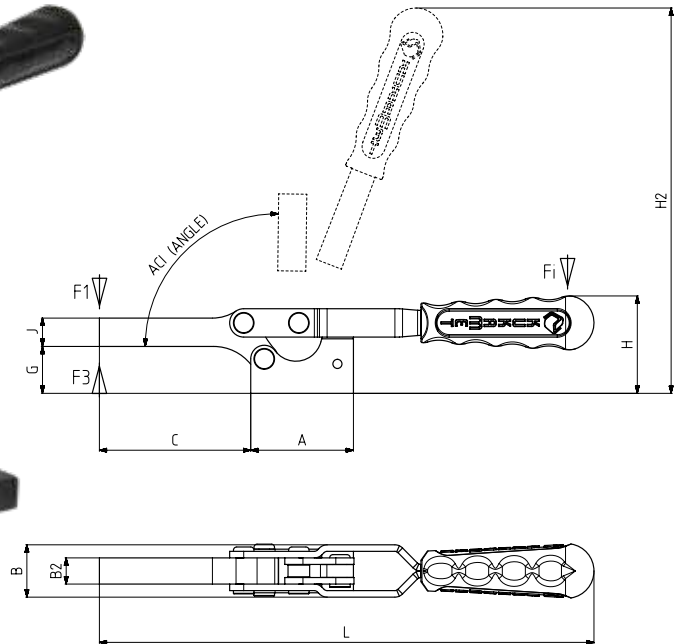
142



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
142 - 4	1750	2600	4:1	90°	390

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



142-L

KİLİTLİ/LOCKED



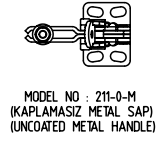
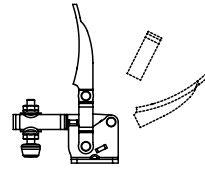
MODEL NO	A	B	B2	C	D	E	G	H	H2	H3	J	L	N
142 - 4	47,5	24	12	70	-	-	21,5	45	177,5	-	13	229	-

211

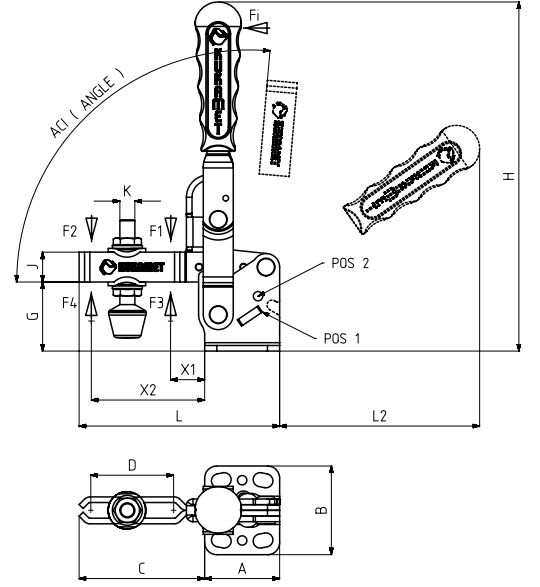


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)
							(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		KOL DAYAMA AÇISI ARMSREST ANGLE		
211 - 0 - M	S 211 -	B 211 -	550	350	700	455	10:1	5:1	M4X25	115°	-	80
211 - 0	S 211 -	B 211 -	550	350	700	455	10:1	5:1	M4X25	115°	-	72
211 - 1	S 211 -	B 211 -	750	500	1000	680	12:1	8:1	M5X35	105°	-	155
211 - 2	S 211 -	B 211 -	1200	700	1400	925	12:1	7,5:1	M6X40	105°	-	230
211 - 3	S 211 -	B 211 -	2000	1400	2500	1560	11:1	8:1	M8X50	105°	-	415
211 - 4	-	B 211 -	3000	2000	3300	2200	11,5:1	8:1	M10X70	135°	105°	900
211 - 5	-	B 211 -	4500	2500	5000	3000	12:1	7:1	M12X80	135°	105°	1540

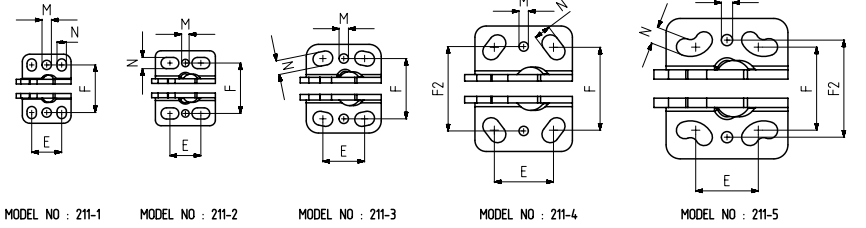
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO : 211-0-M
(KAPLAMASIZ METAL SAPI)
(UNCOATED METAL HANDLE)



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO : 211-1 MODEL NO : 211-2 MODEL NO : 211-3 MODEL NO : 211-4 MODEL NO : 211-5

211-0-M



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MODEL NO	A	B	C	D	E	F	F2	G	H	J	K	L	L2	M	N	X1	X2
211 - 0 - M	25	34	31	20	12,2	24	-	18	85	8	M4	56	50	-	5 x 8	11	22
211 - 0	25	34	31	20	12,2	24	-	18	77	8	M4	56	45	-	5 x 8	11	22
211 - 1	26	37	44	26	16	25,5	25,5	23	125	10	M5	70	75	Ø5	5 x 6,5	18	34
211 - 2	32	40	62	42	16,5	27	27	26	141	13	M6	94	85	Ø4	6 x 9,5	20	50
211 - 3	40	47,5	67	42	22,5	32,3	32,3	37	187	16	M 8	107	110	Ø5	7,5 x 10,5	25	52
211 - 4	52	67	100	67	31,5	44,5	45,2	47	240	20	M10	152	160	Ø5	9 x 14,5	34	82
211 - 5	65	75	130	88	33,5	44,5	52	58	263	25	M12	195	165	Ø6	9 x 19,5	42	107

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)	KOL DAYAMA AÇISI ARMSREST ANGLE		C1	C2	C3
												POS 1	POS 2			
211 - 1 - D	B 211 -	750	500	200	100	1000	680	300	200	12:1	8:1	105°	-	138	157	160
211 - 2 - D	B 211 -	1200	700	350	250	1400	925	510	370	12:1	7,5:1	105°	-	206	234	254
211 - 3 - D	B 211 -	2000	1400	700	500	2500	1560	910	680	11:1	8:1	105°	-	374	413	450
211 - 4 - D	B 211 -	3000	2000	1100	850	3300	2200	1350	1080	11,5:1	8:1	135°	105°	782	864	924
211 - 5 - D	B 211 -	4500	2500	1300	1000	5000	3000	1445	1190	12:1	7:1	135°	105°	1364	1468	1567

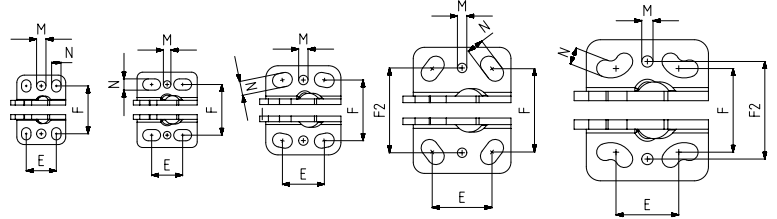
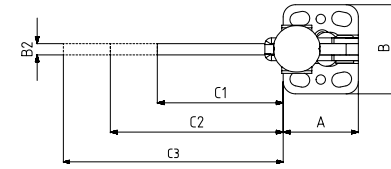
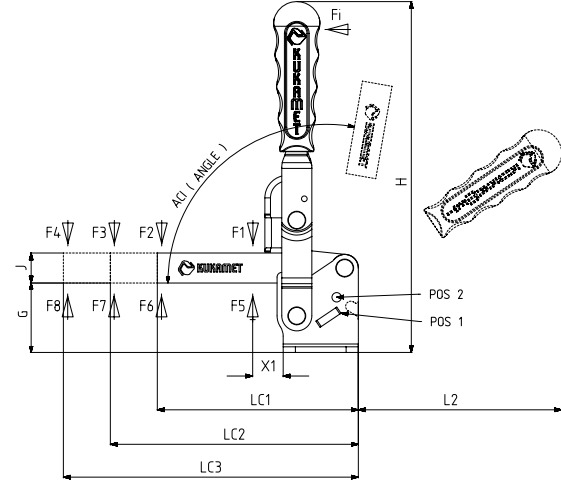
F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE) , F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

211-D



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951-G (page 120-123)
Please See Accessories Page



MODEL NO : 211-1-D

MODEL NO : 211-2-D

MODEL NO : 211-3-D

MODEL NO : 211-4-D

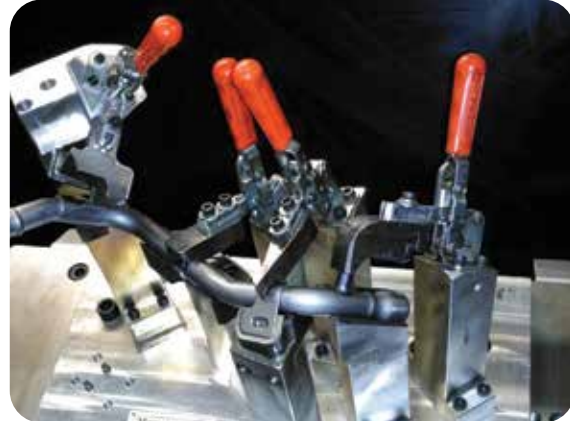
MODEL NO : 211-5-D

211-D-L
Sayfa/Page: 24

211
Sayfa/Page: 17

111-D
Sayfa/Page: 7

915
Sayfa/Page: 121



MODEL NO	A	B	B2	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N	X1
211 - 1 - D	26	37	5	44	94	144	16	25,5	25,5	23	125	10	70	120	170	73	Ø5	5 x 6,5	18
211 - 2 - D	32	40	5	62	112	162	16,5	27	27	26	141	13	94	144	194	85	Ø4	6 x 9,5	20
211 - 3 - D	40	47,5	6	67	117	167	22,5	32,3	32,3	37	187	16	107	157	207	110	Ø5	7,5 x 10,5	25
211 - 4 - D	52	67	8	100	150	200	31,5	44,5	45,2	47	240	20	152	202	252	160	Ø5	9 x 14,5	34
211 - 5 - D	65	75	10	130	180	230	33,5	44,5	52	58	263	25	195	245	295	165	Ø6	9 x 19,5	42

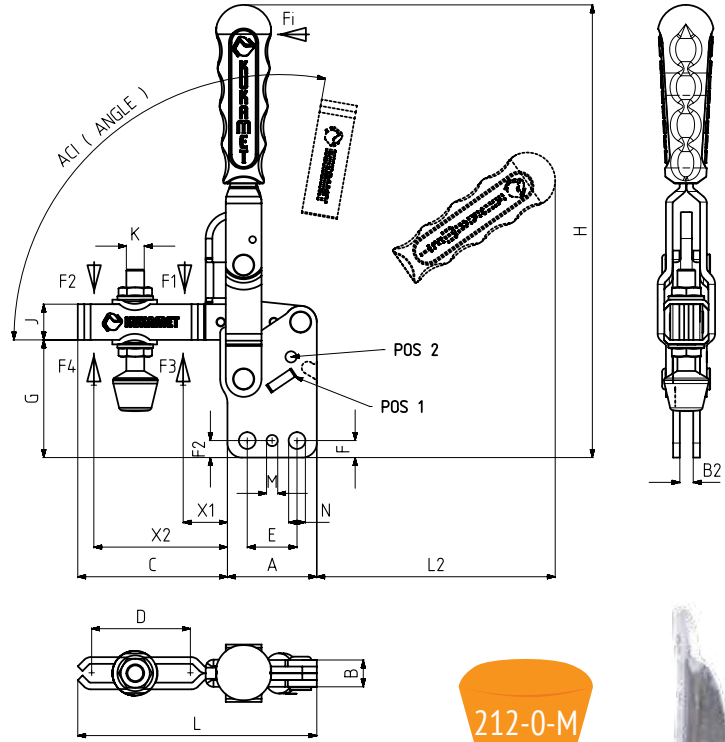
212



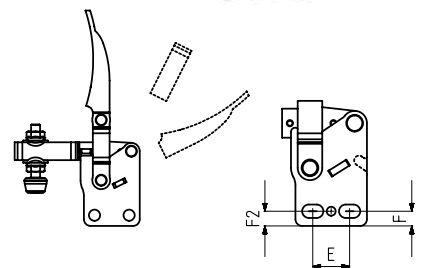
MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)
							(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		KOL DAYAMA AÇISI ARMSREST ANGLE		
										POS 1	POS 2	
212 – 0 – M	S 212 -	B 212 -	550	350	700	455	10:1	5:1	M4X25	115°	-	80
212 – 0	S 212 -	B 212 -	550	350	700	455	10:1	5:1	M4X25	115°	-	72
212 – 1	S 212 -	B 212 -	750	500	1000	680	12:1	8:1	M5X35	105°	-	155
212 – 2	S 212 -	B 212 -	1200	700	1400	925	12:1	7,5:1	M6X40	105°	-	230
212 – 3	S 212 -	B 212 -	2000	1400	2500	1560	11:1	8:1	M8X50	105°	-	415
212 – 4	-	B 212 -	3000	2000	3300	2200	11,5:1	8:1	M10X70	135°	105°	900
212 – 5	-	B 212 -	4500	2500	5000	3000	12:1	7:1	M12X80	135°	105°	1540

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Dikey Tabanlı Body Mounting Base: Vertical



212-0-M



MODEL NO : 212-0-M
(KAPLAMASIZ METAL SAP)
(UNCOATED METAL HANDLE)

MODEL NO : 212-2



212-L
Sayfa/Page: 24



212-D
Sayfa/Page: 20



112
Sayfa/Page: 8



711
Sayfa/Page: 88

MODEL NO	A	B	B2	C	D	E	F	F2	G	H	J	K	L	L2	M	N	X1	X2
212 - 0 - M	25	8	4	31	20	15,5	5	-	29	96	8	M4	56	50	-	Ø 5	11	22
212 - 0	25	8	4	31	20	15,5	5	-	29	88	8	M4	56	45	-	Ø 5	11	22
212 - 1	26	10	5	44	26	16	5	5,75	35	137	10	M5	70	75	Ø5	Ø 5	18	34
212 - 2	32	10	5	62	42	16,5	6,5	6,5	39	154	13	M6	94	85	Ø4	6 x 9,5	20	50
212 - 3	40	12	6	67	42	22,5	7,5	7,6	52	202	16	M 8	107	110	Ø5	Ø 7,5	25	52
212 - 4	52	16	8	100	67	32	12	11	70	263	20	M10	152	160	Ø5	Ø 9	34	82
212 - 5	65	20	10	130	88	42	15,5	11,6	82	287	25	M12	195	165	Ø6	Ø 9	42	107

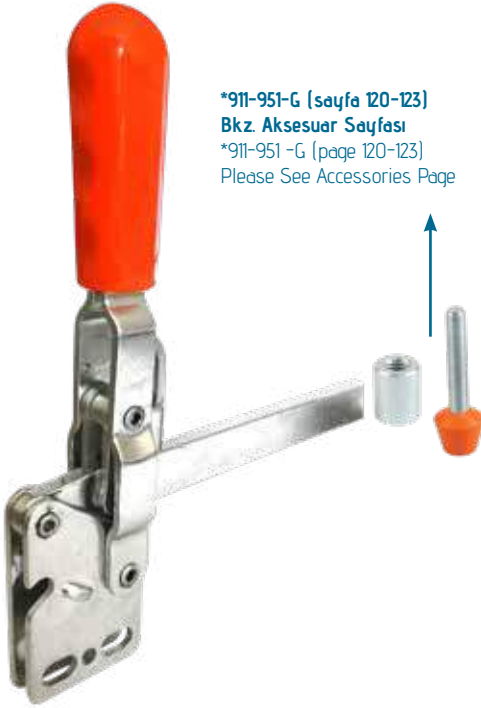
MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)	KOL DAYAMA AÇISI ARMSREST ANGLE		C1	C2	C3
												POS 1	POS 2			
212 - 1 - D	B 212 -	750	500	200	100	1000	680	300	200	12:1	8:1	105°	-	138	163	184
212 - 2 - D	B 212 -	1200	700	350	250	1400	925	510	370	12:1	7,5:1	105°	-	207	228	256
212 - 3 - D	B 212 -	2000	1400	700	500	2500	1560	910	680	11:1	8:1	105°	-	367	408	447
212 - 4 - D	B 212 -	3000	2000	1100	850	3300	2200	1350	1080	11,5:1	8:1	135°	105°	809	870	938
212 - 5 - D	B 212 -	4500	2500	1300	1000	5000	3000	1445	1190	12:1	7:1	135°	105°	1381	1466	1552

F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE), F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

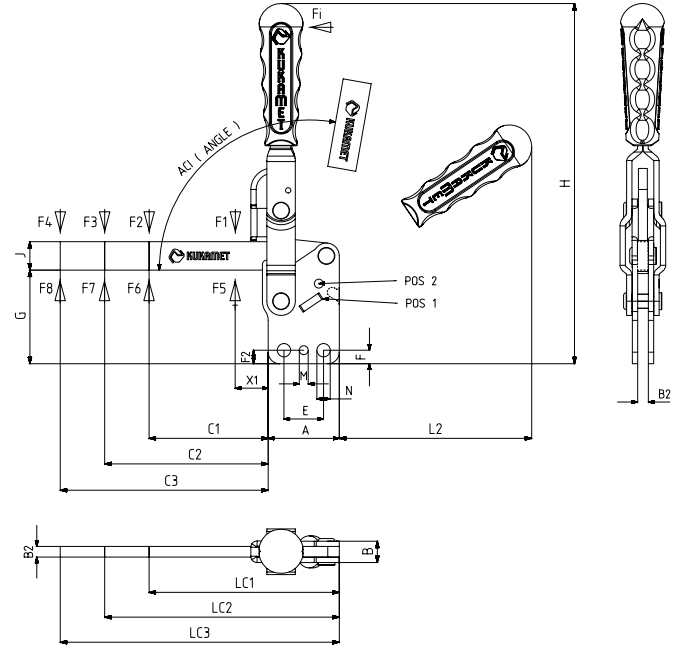
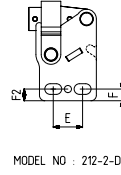
212-D



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page

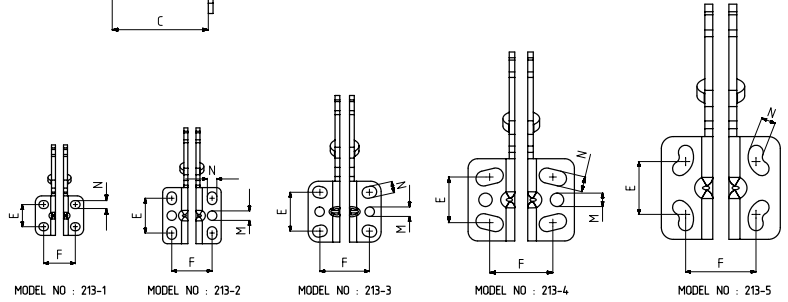
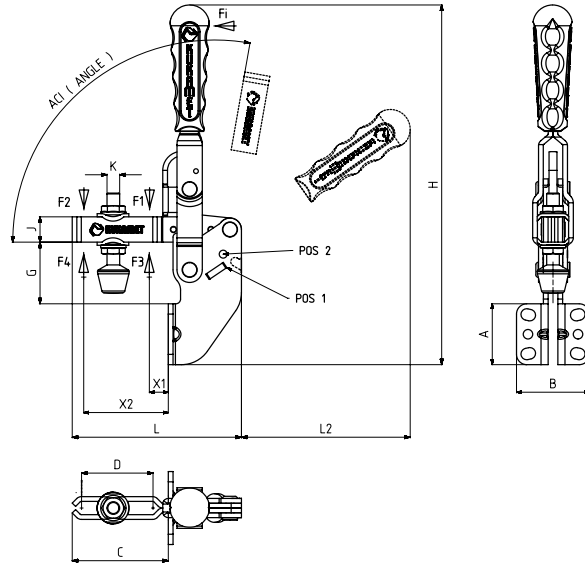


MODEL NO	A	B	B2	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N	X1
212 - 1 - D	26	10	5	44	94	144	16	5	5,75	35	135	10	70	120	170	73	Ø5	Ø 5	18
212 - 2 - D	32	10	5	62	112	162	16,5	6,5	6,5	39	154	13	94	144	194	85	Ø4	6 x 9,5	20
212 - 3 - D	40	12	6	67	117	167	22,5	7,5	7,6	52	202	16	107	157	207	110	Ø5	Ø 7,5	25
212 - 4 - D	52	16	8	100	150	200	32	12	11	70	262	20	152	202	252	160	Ø5	Ø 9	34
212 - 5 - D	65	20	10	130	180	230	42	15,5	11,6	82	286	25	195	245	295	165	Ø6	Ø 9	42

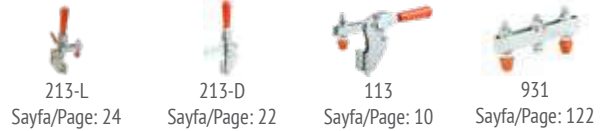
MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		KOL DAYAMA AÇISI ARMSREST ANGLE		
									POS 1	POS 2	
213 – 1	B 213 -	750	500	1000	680	12:1	8:1	M5X35	135°	105°	170
213 – 2	B 213 -	1200	700	1400	925	12:1	7,5:1	M6X40	135°	105°	265
213 – 3	B 213 -	2000	1400	2500	1560	11:1	8:1	M8X50	105°	-	470
213 – 4	B 213 -	3000	2000	3300	2200	11,5:1	8:1	M10X70	135°	105°	1050
213 – 5	B 213 -	4500	2500	5000	3000	12:1	7:1	M12X80	135°	105°	1760

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE), F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

213



Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward



MODEL NO	A	B	C	D	E	F	G	H	J	K	L	L2	M	N	X1	X2
213 - 1	25	30,5	38	26	14	20	22,5	150	10	M5	70	75	-	5 x 6	12	28
213 - 2	35,5	37	58	42	22	25,5	25,5	175	13	M6	94	85	Ø 6	6 x 8	15	45
213 - 3	38,5	46	61	42	24,5	31,5	39	228	16	M 8	107	110	Ø 6	7 x 9	19	46
213 - 4	52	67	91	67	29	40	48	292	20	M10	152	160	Ø 8,5	9,5 x 17,5	24	72
213 - 5	65	75,5	118,5	88	33,5	44,5	59	328	25	M12	195	165	-	9 x 19,5	30	95

MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)	KOL DAYAMA AÇISI ARMSREST ANGLE		C1	C2	C3
												POS 1	POS 2			
213 – 1-D	B 213 -	750	500	250	175	1000	680	340	250	12:1	8:1	135°	105°	151	170	196
213 – 2-D	B 213 -	1200	700	350	250	1400	925	510	370	12:1	7,5:1	135°	105°	242	266	300
213 – 3-D	B 213 -	2000	1400	700	500	2500	1560	910	680	11:1	8:1	105°	-	426	468	500
213 – 4-D	B 213 -	3000	2000	1100	850	3300	2200	1350	1080	11,5:1	8:1	135°	105°	921	972	1062
213 – 5-D	B 213 -	4500	2500	1300	1000	5000	3000	1445	1190	12:1	7:1	135°	105°	1660	1734	1836

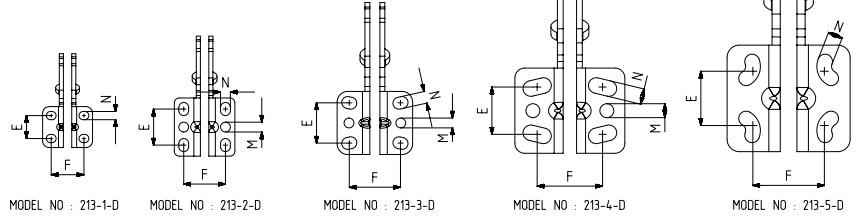
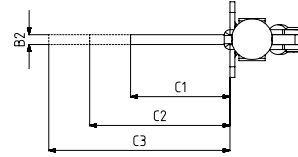
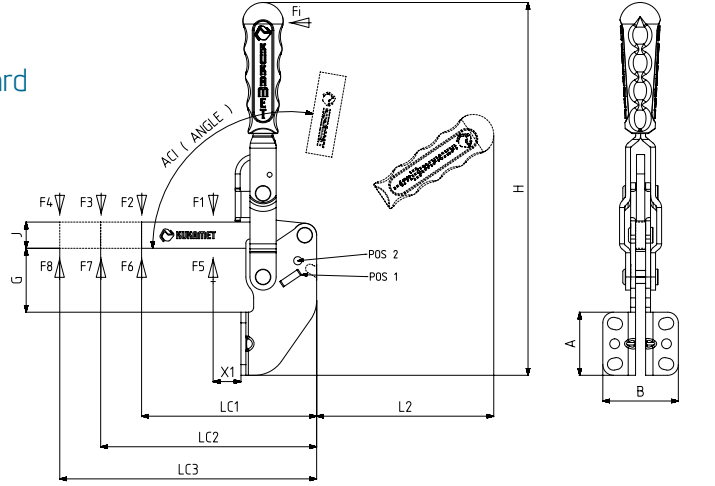
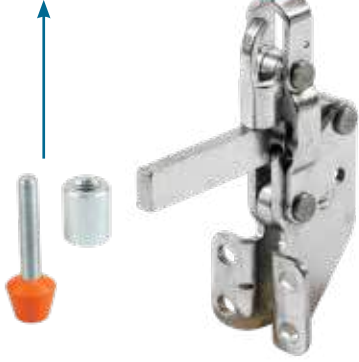
F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE), F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

213-D



Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward

*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page



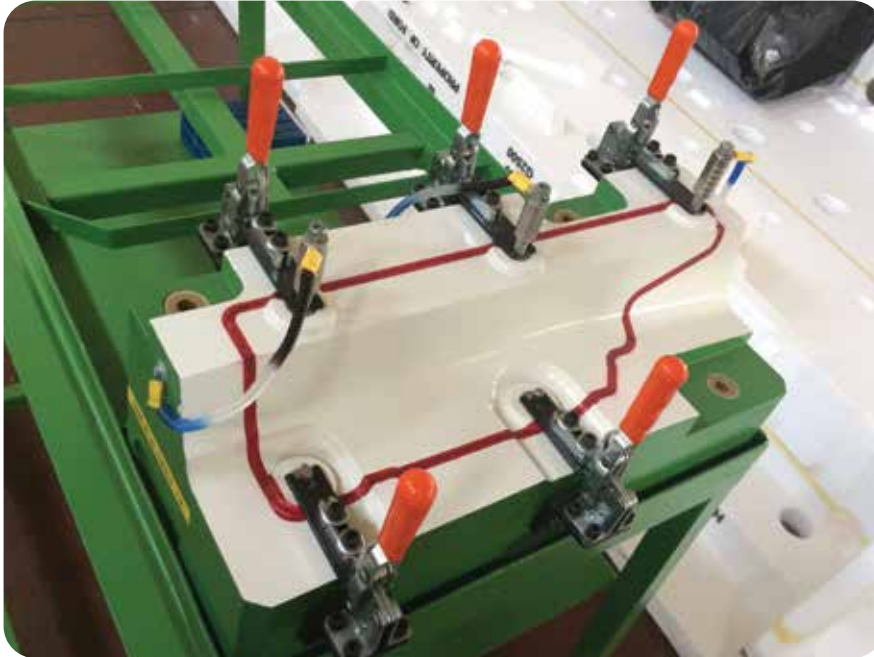
213-D-L
Sayfa/Page: 24

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Sayfa/Page: 21

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Sayfa/Page: 10



MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	J	LC1	LC2	LC3	L2	M	N	X1
213 - 1-D	25	30,5	5	38	88	138	14	20	22,5	150	10	70	120	170	75	-	5 x 6	12
213 - 2-D	35,5	37	5	58	108	158	22	25,5	25,5	175	13	94	144	194	85	Ø 6	6 x 8	15
213 - 3-D	38,5	46	6	61	111	161	24,5	31,5	39	228	16	107	157	207	110	Ø 6	7 x 9	19
213 - 4-D	52	67	8	91	141	191	29	40	48	292	20	152	202	252	160	Ø 8,5	9,5 x 17,5	24
213 - 5-D	65	75,5	10	118,5	168,5	218,5	33,5	44,5	59	328	25	195	245	295	165	-	9 x 19,5	30



KİLİTLİ/LOCKED PATENT NO: 20100115

Açık ve kapalı pozisyonda kilitlenebilmek özelliği mevcuttur.

The lockable feature is available in open and close position.

NOT : Kilitli modellerin teknik detayları 17, 18, 19, 20, 21 ve 22 numaralı sayfalarda mevcuttur.

Note : Technical details of locked models are available at pages 17,18,19,20,21 and 22

211-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
211 - 1 - L	S211 - 1 - L	B211 - 1 - L
211 - 2 - L	S211 - 2 - L	B211 - 2 - L
211 - 3 - L	S211 - 3 - L	B211 - 3 - L
211 - 4 - L	-	B211 - 4 - L
211 - 5 - L	-	B211 - 5 - L



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

212-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
212 - 1 - L	S212 - 1 - L	B212 - 1 - L
212 - 2 - L	S212 - 2 - L	B212 - 2 - L
212 - 3 - L	S212 - 3 - L	B212 - 3 - L
212 - 4 - L	-	B212 - 4 - L
212 - 5 - L	-	B212 - 5 - L



Ayak Tipi: Dikey Tabanlı

Body Mounting Base: Vertical

213-L



MODEL NO	SİYAH (BLACK)
213 - 1 - L	B213 - 1 - L
213 - 2 - L	B213 - 2 - L
213 - 3 - L	B213 - 3 - L
213 - 4 - L	B213 - 4 - L
213 - 5 - L	B213 - 5 - L



Ayak Tipi: Yan Tabanlı

Body Mounting Base: Side Ward

211-D-L



MODEL NO	SİYAH (BLACK)
211 - 1 - D - L	B211 - 1 - D - L
211 - 2 - D - L	B211 - 2 - D - L
211 - 3 - D - L	B211 - 3 - D - L
211 - 4 - D - L	B211 - 4 - D - L
211 - 5 - D - L	B211 - 5 - D - L



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

212-D-L



MODEL NO	SİYAH (BLACK)
212 - 1 - D - L	B212 - 1 - D - L
212 - 2 - D - L	B212 - 2 - D - L
212 - 3 - D - L	B212 - 3 - D - L
212 - 4 - D - L	B212 - 4 - D - L
212 - 5 - D - L	B212 - 5 - D - L



Ayak Tipi: Dikey Tabanlı

Body Mounting Base: Vertical

213-D-L



MODEL NO	SİYAH (BLACK)
213 - 1 - D - L	B213 - 1 - D - L
213 - 2 - D - L	B213 - 2 - D - L
213 - 3 - D - L	B213 - 3 - D - L
213 - 4 - D - L	B213 - 4 - D - L
213 - 5 - D - L	B213 - 5 - D - L



Ayak Tipi: Yan Tabanlı

Body Mounting Base: Side Ward

221



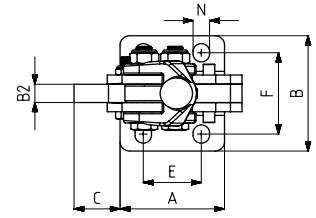
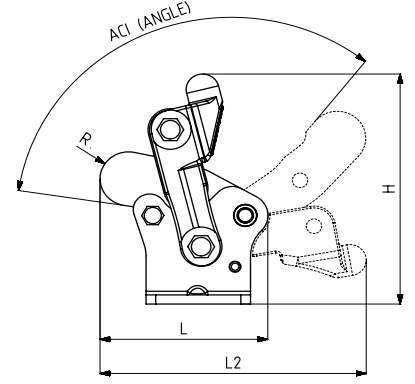
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO	A	B	B2	C	E	F	H	L	L2	N	R
221-2	36	48,5	6	17,5	20	32	72	56	90	6,5 x 8,5	9,5
221-4	54	63	10	16	30	44,5	126	79	138	8.5 x 10	15
221-6	70	74	12	32	45	52	159	112	188	10.5 x 11.5	18

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
221-2	2500	5:1	120°	240
221-4	7000	5:1	120°	940
221-6	11000	5:1	120°	1820

F1 : BASKI KUVVETİ (EXERTING FORCE) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



221-L



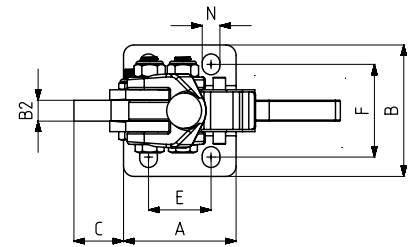
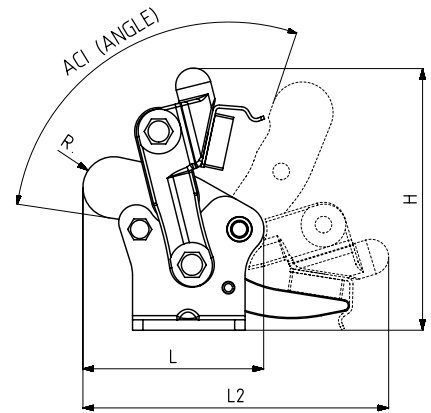
Ayak Tipi: Yatay Tabanlı (Açıkken Kilitli)
Body Mounting Base: Horizontal (Locked when open)



MODEL NO	A	B	B2	C	E	F	H	L	L2	N	R
221-4-L	54	63	10	16	30	44,5	126	79	138	8.5 x 10	15
221-6-L	70	74	12	32	45	52	159	112	188	10.5 x 11.5	18

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
221-4-L	7000	5:1	100°	1070
221-6-L	11000	5:1	100°	2025

F1 : BASKI KUVVETİ (EXERTING FORCE) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

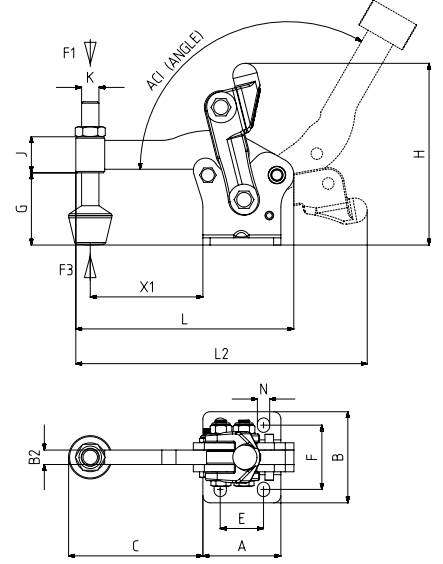




MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
221-2-C	750	2500	5:1	120°	280
221-4-C	1500	5000	5:1	120°	1180
221-6-C	2000	6000	5:1	120°	2140

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



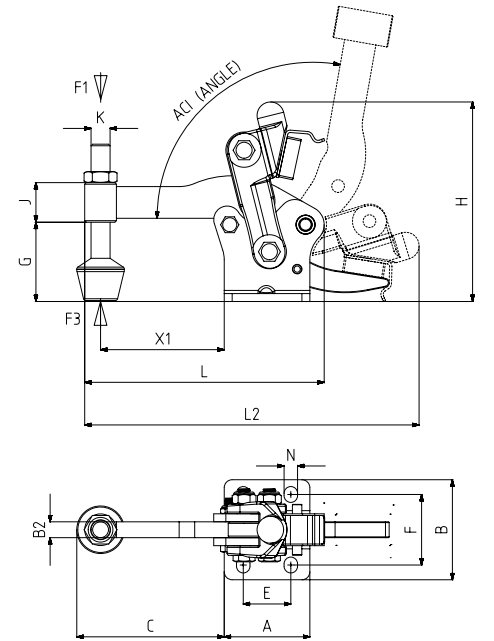
MODEL NO	A	B	B2	C	D	E	F	G	H	J	K	L	L2	M	N	X1
221-2-C	36	48,5	6	52,5	-	20	32	28,5	72	15	M6	89	122,5	-	6,5 x 8,5	44,5
221-4-C	54	63	10	88	-	30	44,5	49	126	27	M12	151	210	-	8,5 x 10	78
221-6-C	70	74	12	111	-	45	52	68	159	32	M12	191	267,5	-	10,5 x 11,5	98,5



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
221 - 4 - C - L	1500	5000	5:1	100°	1310
221 - 6 - C - L	2000	6000	5:1	100°	2340

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Yatay Tabanlı (Açıkken Kilitli)
Body Mounting Base: Horizontal (Locked when open)



MODEL NO	A	B	B2	C	D	E	F	G	H	J	K	L	L2	M	N	X1
221 - 4 - C - L	54	63	10	88	-	30	44,5	49	126	27	M12	151	210	-	8,5 x 10	78
221 - 6 - C - L	70	74	12	111	-	45	52	68	159	32	M12	191	267,5	-	10,5 x 11,5	98,5

222



Ayak Tipi: Dikey Sabit Tabanlı
Body Mounting Base:
Vertical and Fixed



222-L



224



242

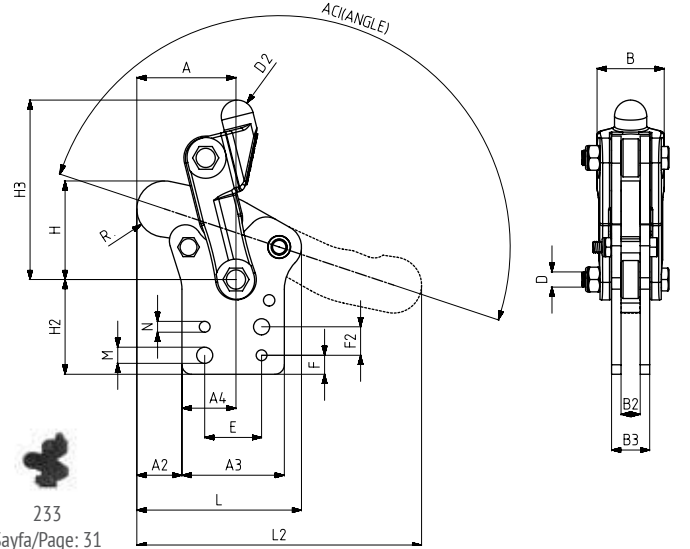


233

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MODEL NO	F1 (N)	F1 VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
222-2	2500	5:1	180°	240
222-4	7000	5:1	180°	940
222-6	11000	5:1	180°	1820

F1 : BASKI KUVVETİ (EXERTING FORCE) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO	A	A2	A3	A4	B	B2	B3	D	D2	E	F	F2	H	H2	H3	L	L2	M	N	R
222-2	36	17,5	36	18,5	23	6	12	M6	Ø10	20	8		31	34	55	56	98	Ø 6,5		9,5
222-4	44	16	54	28,5	36	10	20	M8	Ø17	30	10	15	50	50	94,5	79	135	Ø 8.5	Ø 5.7	15
222-6	69	32	70	37	46	12	22	M10	Ø22	45	15	20	73	62	120	112	197	Ø 10.5	Ø 7.7	18.5

222-L



Ayak Tipi: Dikey Sabit Tabanlı (Açıkken Kilitli)
Body Mounting Base: Vertical and Fixed (Locked when open)



222

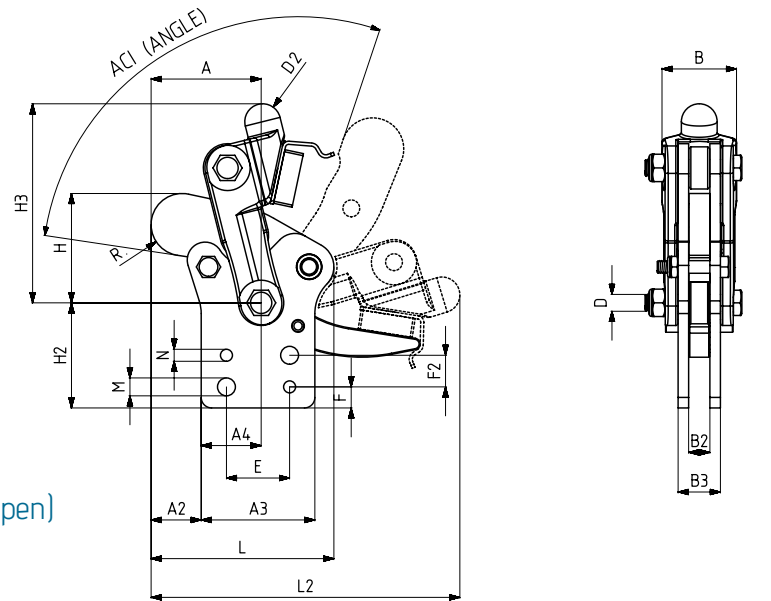


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MODEL NO	F1 (N)	F1 VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
222-4-L	7000	5:1	100°	1070
222-6-L	11000	5:1	100°	2025

F1 : BASKI KUVVETİ (EXERTING FORCE) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO	A	A2	A3	A4	B	B2	B3	D	D2	E	F	F2	H	H2	H3	L	L2	M	N	R
222-4-L	44	16	54	28,5	36	10	20	M8	Ø17	30	10	15	50	50	94,5	79	135	Ø 8.5	Ø 5.7	15
222-6-L	69	32	70	37	46	12	22	M10	Ø22	45	15	20	73	62	120	112	197	Ø 10.5	Ø 7.7	18.5

222-C



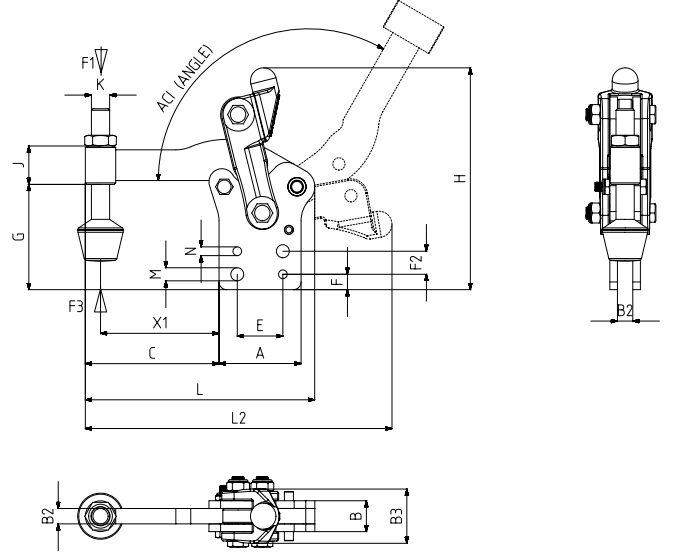
new

Ayak Tipi: Dikey Sabit Tabanlı
Body Mounting Base: Vertical and Fixed



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
222 - 2 - C	750	2500	5:1	120°	280
222 - 4 - C	1500	5000	5:1	120°	1180
222 - 6 - C	2000	6000	5:1	120°	2140

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



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MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
222 - 2 - C	36	12	6	23	50,5	20	8	-	44,5	88	15	M6	89	122,5	Ø 6,5	-	44,5
222 - 4 - C	54	20	10	36	88	30	10	15	67,5	144,5	27	M12	151	210	Ø 8,5	Ø 5,7	78
222 - 6 - C	70	22	12	46	111	45	15	20	91	182	32	M12	191	267,5	Ø 10,5	Ø 7,7	98,5

222-C-L



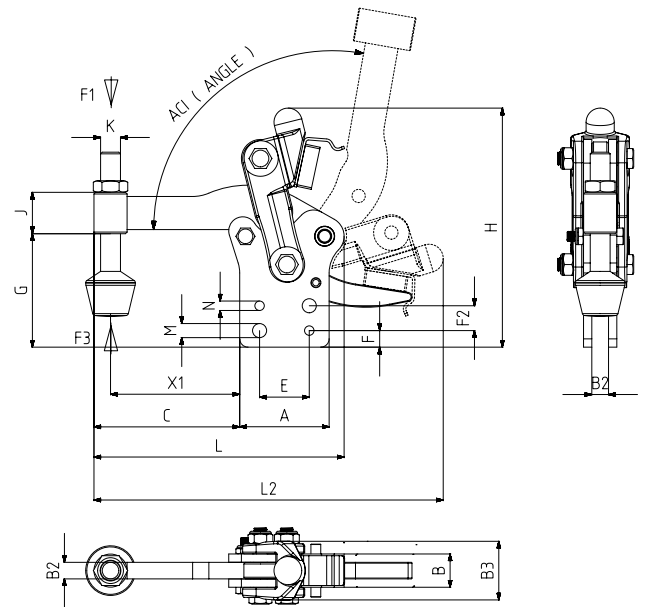
new

Ayak Tipi: Dikey Sabit Tabanlı (Açıkken Kilitli)
Body Mounting Base: Vertical and Fixed (Locked when open)



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
222 - 4 - C - L	1500	5000	5:1	100°	1310
222 - 6 - C - L	2000	6000	5:1	100°	2340

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



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150-623

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MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
222 - 4 - C - L	54	20	10	36	88	30	10	15	67,5	144,5	27	M12	151	210	Ø 8,5	Ø 5,7	78
222 - 6 - C - L	70	22	12	46	111	45	15	20	91	182	32	M12	191	267,5	Ø 10,5	Ø 7,7	98,5

223



Ayak Tipi: Dikey Sabit Tabanlı
Body Mounting Base: Vertical and Fixed



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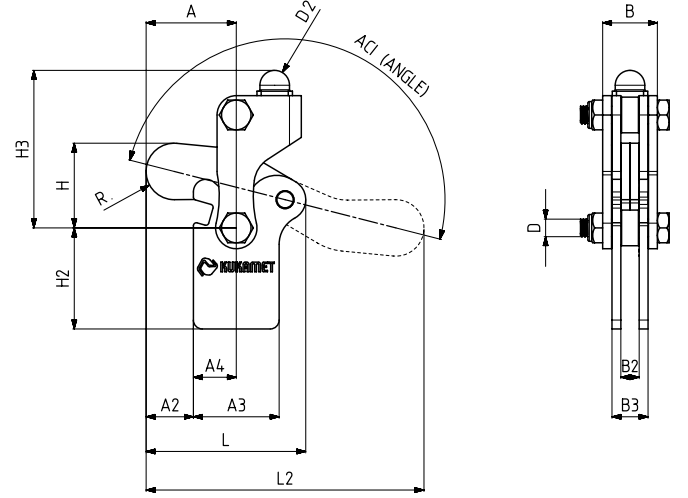


921-M

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MODEL NO	F1 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
		VERİM (YIELD) (F1)		
223-2	2500	5:1	180°	220

F1 : BASKI KUVVETİ (EXERTING FORCE) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO : 223-2 KOL KAYNAKLI SAC / Welded steel arm

MODEL NO	A	A2	A3	A4	B	B2	B3	D	D2	H	H2	H3	L	L2	R
223-2	30,5	16	29	14,5	18,5	6	12	M6	Ø10	28,5	34	53	54	94	9,5

224



Ayak Tipi: Dikey Sabit Tabanlı
Body Mounting Base: Vertical and Fixed



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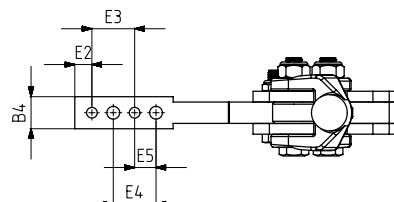
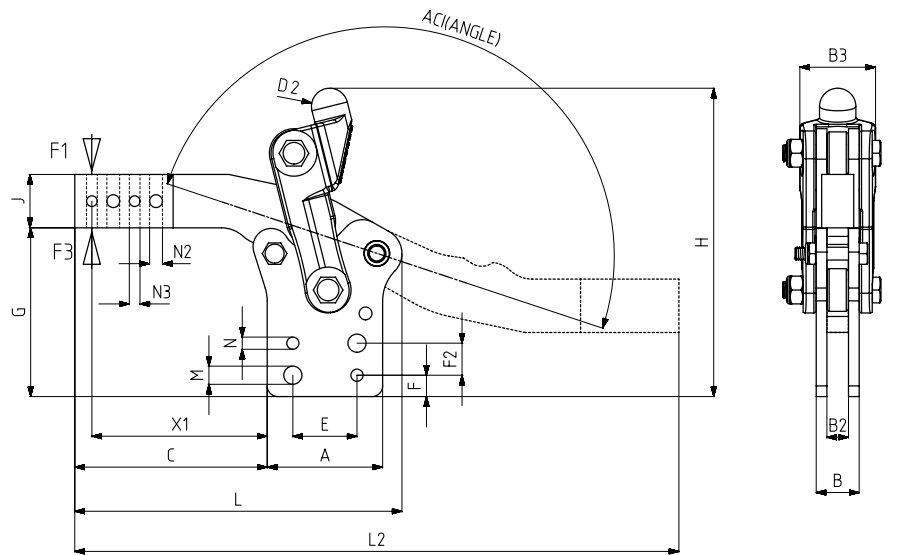


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MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
224-4	1500	5000	5:1	180°	1120
224-6	2500	6500	5:1	180°	2100

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



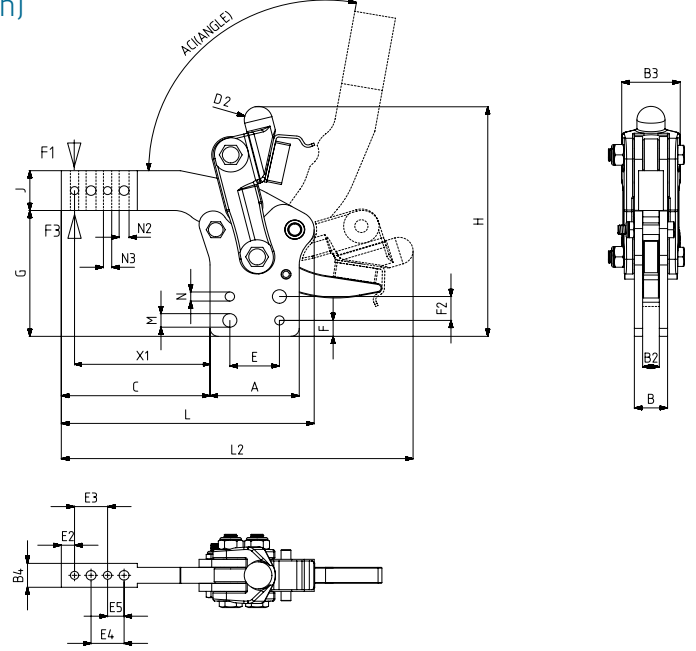
MODEL NO	A	B	B2	B3	B4	C	D2	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224-4	54	20	10	36	15	90	Ø17	30	8	20	20	10	10	15	79	144,5	25	153	283	Ø 8.5	Ø 5.7	Ø6	Ø6	82
224-6	70	22	12	46	20	106,5	Ø22	45	8	30	30	15	15	20	106,5	182	31	187	346	Ø 10.5	Ø 7.7	Ø8	Ø6	98.5



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
224 - 4 - L	1500	5000	5:1	100°	1250
224 - 6 - L	2500	6500	5:1	100°	2300

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Dikey Sabit Tabanlı (Açıkken Kilitli)
Body Mounting Base: Vertical and Fixed (Locked when open)



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224
Sayfa/Page: 29

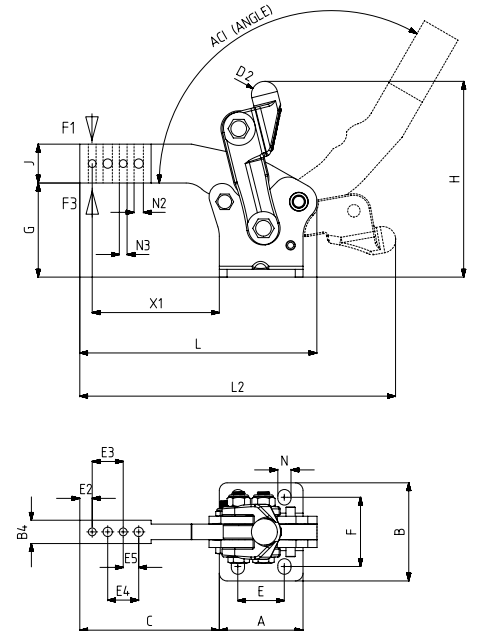
MODEL NO	A	B	B2	B3	B4	C	D2	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224 - 4 - L	54	20	10	36	15	90	Ø 17	30	8	20	20	10	10	15	79	144,5	25	153	283	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224 - 6 - L	70	22	12	46	20	106,5	Ø 22	45	8	30	30	15	15	20	106,5	182	31	187	346	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
225 - 4	1500	5000	5:1	120°	1120
225 - 6	2500	6500	5:1	120°	2100

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



224-L
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224
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MODEL NO	A	B	B4	C	D2	E	E2	E3	E4	E5	F	G	H	J	L	L2	N	N2	N3	X1
225 - 4	54	63	15	90	Ø 17	30	8	20	20	10	44,5	60,5	126	25	153	204	8,5 x 10	Ø 6	Ø 6	82
225 - 6	70	74	20	106,5	Ø 22	45	8	30	30	15	52	83,5	159	31	187	263	10,5 x 11,5	Ø 8	Ø 6	98,5

232



Ayak Tipi: Dikey Oynar Tabanlı
Body Mounting Base: Vertical Moving



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Sayfa/Page: 27



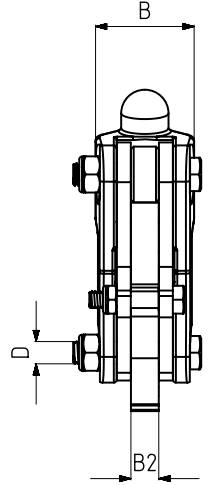
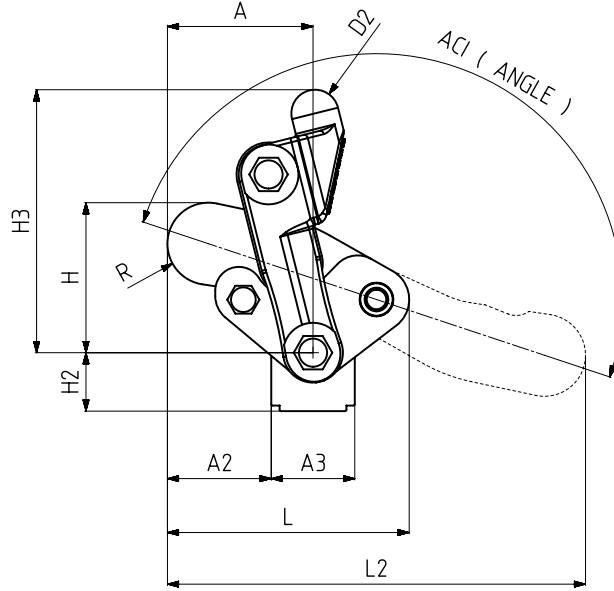
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MODEL NO	A	A2	A3	B	B2	D	D2	H	H2	H3	L	L2	R
232-2	36	26	20	23	6	M6	Ø10	31	17	55	56	98	9,5
232-4	44	29	30	36	10	M8	Ø17	52	23	94,5	79	135	15
232-6	69	51,5	35	46	12	M10	Ø22	73	30	120	112	197	18,5

MODEL NO	F1 (N)	F1 VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
232-2	2500	5:1	180°	200
232-4	7000	5:1	180°	830
232-6	11000	5:1	180°	1600

F1 : BASKI KUVVETİ (EXERTING FORCE) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)

233



Ayak Tipi: Dikey Oynar Tabanlı
Body Mounting Base: Vertical and adjustable



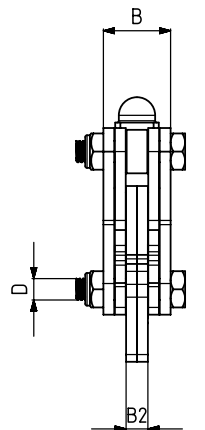
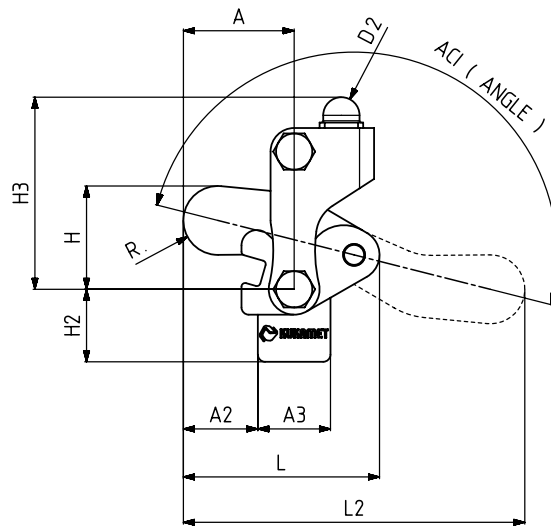
223

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MODEL NO : 233-2 KOL KAYNAKLI SAC / Welded steel arm

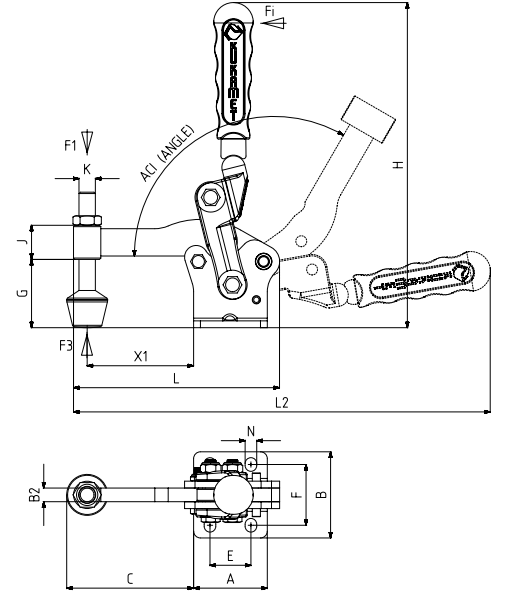
MODEL NO	A	A2	A3	B	B2	D	D2	H	H2	H3	L	L2	R
233-2	30,5	20,5	20	18,5	6	M6	Ø10	28,5	20	53	54	94	9,5

241



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ±%2)
241-2	750	2500	5:1	120°	325
241-4	1500	5000	5:1	120°	1340
241-6	2000	6000	5:1	120°	2340

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO	A	B	B2	C	E	F	G	H	J	K	L	L2	N	X1
241-2	36	48,5	6	52,5	20	32	28,5	143	15	M 6	89	192	6,5 x 8,5	44,5
241-4	54	63	10	88	30	44,5	49	238	27	M12	151	323	8,5 x 10	78
241-6	70	74	12	111	45	52	68	280	32	M12	191	390	10,5 x 11,5	98,5

241-D



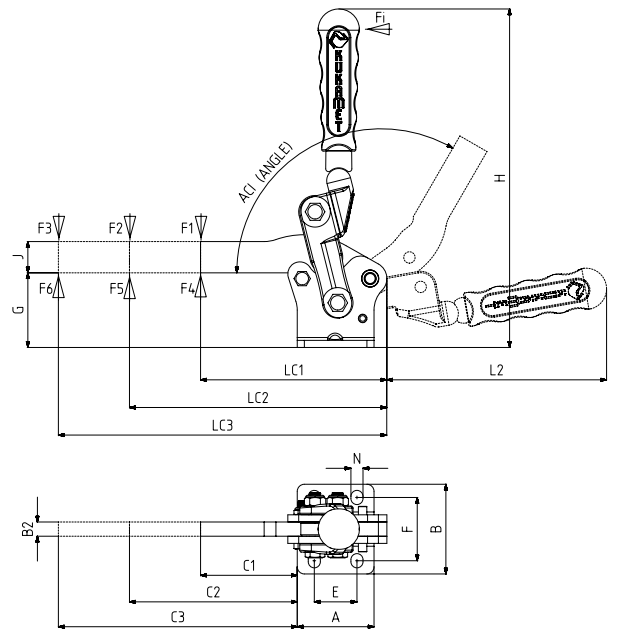
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ±%2)		
241-2-D	750	320	210	2500	1000	700	5:1	120°	C1	C2	C3
241-4-D	1500	860	600	5000	2800	1500	5:1	120°	1186	1266	1362
241-6-D	2000	1400	850	6000	3600	2000	5:1	120°	2120	2222	2376

F1-F2-F3 : BASKI KUVVETİ (EXERTING FORCE) , F4-F5-F6 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	J	LC1	LC2	LC3	L2	N
241-2-D	36	48,5	6	38,5	88,5	138,5	20	32	30	143	14	77	127	177	103	6,5 x 8,5
241-4-D	54	63	10	68	118	168	30	44,5	52,5	238	22	131	181	231	170	8,5 x 10
241-6-D	70	74	12	86	130	180	45	52	71,5	280	27	166	210	260	198	10,5 x 11,5

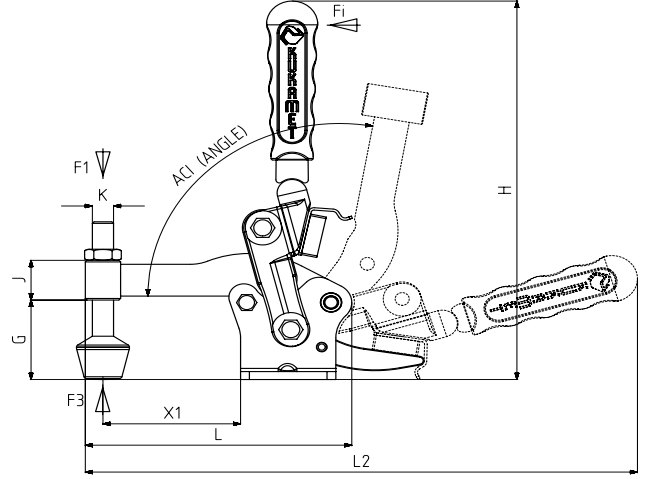
KİLİTLİ / LOCKED

241-L



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
241-4-L	1500	5000	5:1	100°	1470
241-6-L	2000	6000	5:1	100°	2545

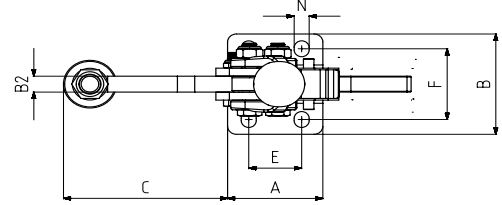
F1: BASKI KUVVETİ (EXERTING FORCE), F3: TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi: UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı (Açıkken Kilitli)
Body Mounting Base: Horizontal (Locked when open)



241-D-L Sayfa/Page: 33 241 Sayfa/Page: 32 951-G Sayfa/Page: 123



MODEL NO	A	B	B2	C	E	F	G	H	J	K	L	L2	N	X1
241-4-L	54	63	10	88	30	44,5	49	238	27	M12	151	323	8.5 x 10	78
241-6-L	70	74	12	111	45	52	68	280	32	M12	191	390	10.5 x 11.5	98,5

241-D-L



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
241-4-D-L	1500	860	600	5000	2800	1500	5:1	100°	C1	C2	C3
241-6-D-L	2000	1400	850	6000	3600	2000	5:1	100°	1288	1362	1456
									2278	2402	2520

F1-F2-F3: BASKI KUVVETİ (EXERTING FORCE), F4-F5-F6: TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi: UYGULAMA KUVVETİ (APPLIED FORCE)

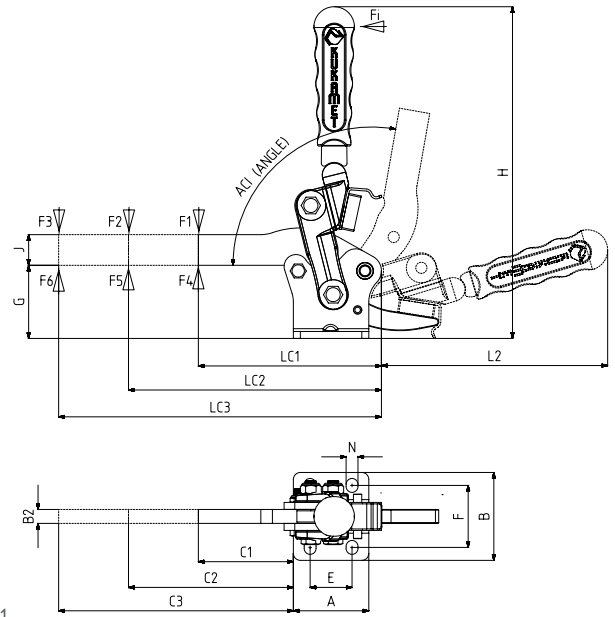
*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951-G (page 120-123)
Please See Accessories Page



Ayak Tipi: Yatay Tabanlı (Açıkken Kilitli)
Body Mounting Base: Horizontal (Locked when open)



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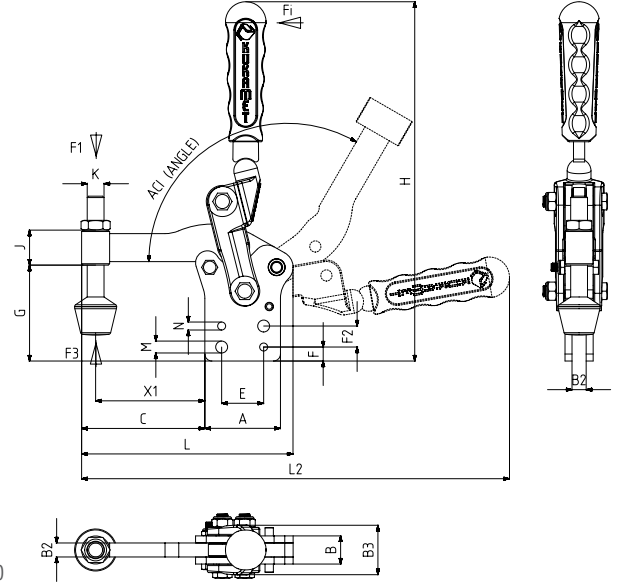
MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	J	LC1	LC2	LC3	L2	N
241-4-D-L	54	63	10	68	118	168	30	44,5	52,5	238	22	131	181	231	172	8.5 x 10
241-6-D-L	70	74	12	86	130	180	45	52	71,5	280	27	166	210	260	198	10.5 x 11.5

242



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
242-2	750	2500	5:1	120°	325
242-4	1500	5000	5:1	120°	1340
242-6	2000	6000	5:1	120°	2340

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



242-L
Sayfa/Page: 34



241
Sayfa/Page: 32



212-D
Sayfa/Page: 20

MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242-2	36	12	6	23	50,5	20	8	-	44,5	159	15	M 6	89	192	Ø 6,5	-	44,5
242-4	54	20	10	36	88	30	10	15	67,5	257	27	M12	151	323	Ø 8,5	Ø 5,7	78
242-6	70	22	12	46	111	45	15	20	91	303	32	M12	191	390	Ø 10,5	Ø 7,7	98,5

242-L

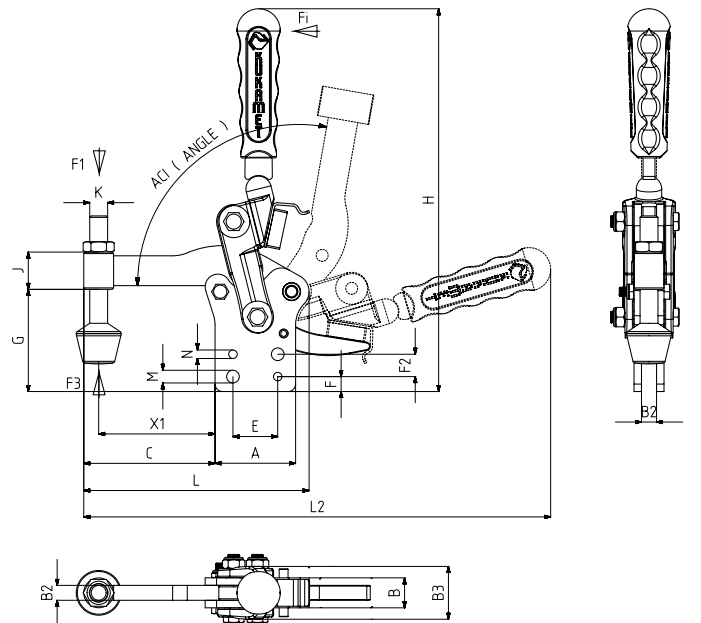


Ayak Tipi: Dikey Tabanlı
(Açıkken Kilitli)
Body Mounting Base: Vertical
(Locked when open)



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
242-4-L	1500	5000	5:1	100°	1470
242-6-L	2000	6000	5:1	100°	2545

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



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Sayfa/Page: 32



212-D

Sayfa/Page: 20

MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242-4-L	54	20	10	36	88	30	10	15	67,5	257	27	M12	151	323	Ø 8,5	Ø 5,7	78
242-6-L	70	22	12	46	111	45	15	20	91	303	32	M12	191	390	Ø 10,5	Ø 7,7	98,5

242-D

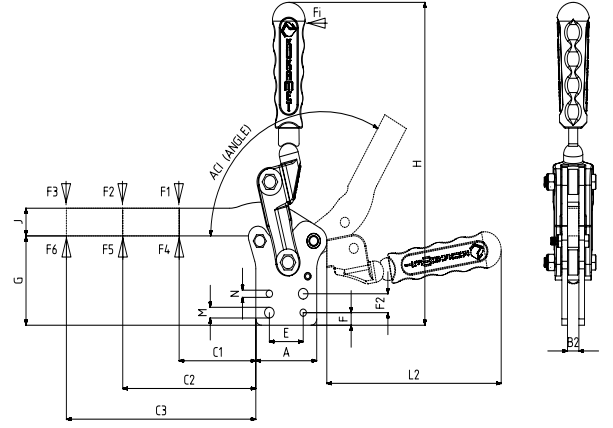
new

*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page

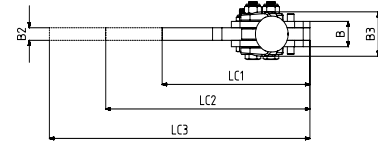


MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
									C1	C2	C3
242 - 2 - D	750	320	210	2500	1000	700	5:1	120°	290	320	354
242 - 4 - D	1500	860	600	5000	2800	1500	5:1	120°	1186	1266	1362
242 - 6 - D	2000	1400	850	6000	3600	2000	5:1	120°	2120	2222	2376

F1 - F2 - F3 : BASKI KUVVETİ (EXERTING FORCE) , F4 - F5 - F6 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



MODEL NO	A	B	B2	B3	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N
242 - 2 - D	36	12	6	23	38,5	88,5	138,5	20	8	-	44,5	159	15	77	127	177	103	Ø 6,5	-
242 - 4 - D	54	20	10	36	68	118	168	30	10	15	67,5	257	27	131	181	231	172	Ø 8,5	Ø 5,7
242 - 6 - D	70	22	12	46	86	130	180	45	15	20	91	303	32	166	210	260	199	Ø 10,5	Ø 7,7

242-D-L

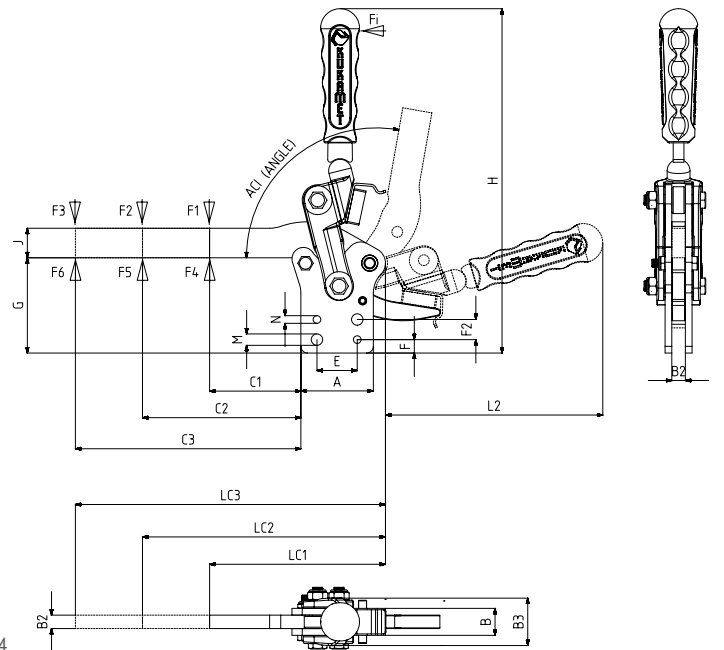
new

*911-951-G (sayfa 120-123)
Bkz. Aksesuar Sayfası
*911-951 -G (page 120-123)
Please See Accessories Page



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
									C1	C2	C3
242 - 4 - D - L	1500	860	600	5000	2800	1500	5:1	100°	1288	1362	1456
242 - 6 - D - L	2000	1400	850	6000	3600	2000	5:1	100°	2278	2402	2520

F1 - F2 - F3 : BASKI KUVVETİ (EXERTING FORCE) , F4 - F5 - F6 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Dikey Tabanlı
(Açıkken Kilitli)
Body Mounting Base: Vertical
(Locked when open)



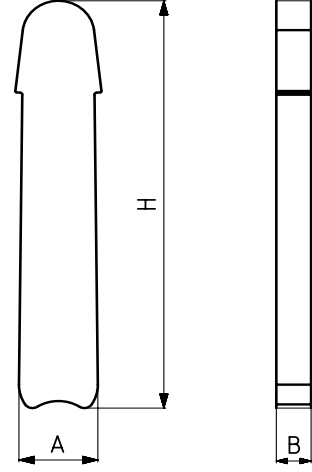
MODEL NO	A	B	B2	B3	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N
242 - 4 - D - L	54	20	10	36	68	118	168	30	10	15	67,5	257	27	131	181	231	172	Ø 8,5	Ø 5,7
242 - 6 - D - L	70	22	12	46	86	130	180	45	15	20	91	303	32	166	210	260	198	Ø 10,5	Ø 7,7

*921 Bkz. Aksesuar Sayfası (sayfa 122)

*921 Please See Accessories Page (page 122)



new



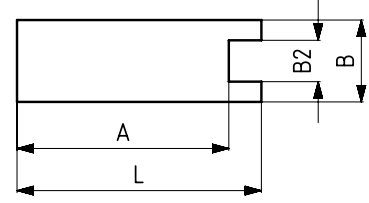
METAL UZATMA KOLU
METAL EXTENSION BAR



METAL UZATMA KOLU / METAL EXTENSION BAR

KOD	MODEL NO	POLİÜRETAN SAP (POLYURETHANE HANDLE)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	H
220-2-06	222-232-2	921 - 2	25	11	5	66
220-2-06-C1	222-232-2	921 - 2	75	13,5	5	167
220-4-06	222-232-4	921 - 4 - 8 mm	110	18	8	105
220-4-06 C1	222-232-4	921 - 4 - 8 mm	235	20,5	8	207
220-6-06	222-232-6	921 - 4 - 10 mm	150	18	10	114
220-6-06-C1	222-232-6	921 - 4 - 10 mm	307	20,5	10	215

ÇENE UZATMA LAMASI
JAW EXTENSION BAR



ÇENE UZATMA LAMASI / JAW EXTENSION BAR

KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	B2	L	H
220-2-07	222-232-2	50	32	12	6,5	40	15
220-4-07	222-232-4	215	52	20	10,1	60	25
220-6-07	222-232-6	430	68	25	12,1	80	30

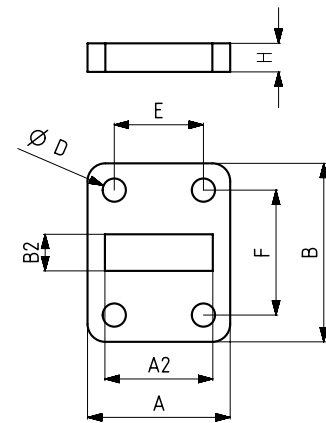
*951-G

Bkz. Aksesuar Sayfası (sayfa 123)

*951-G

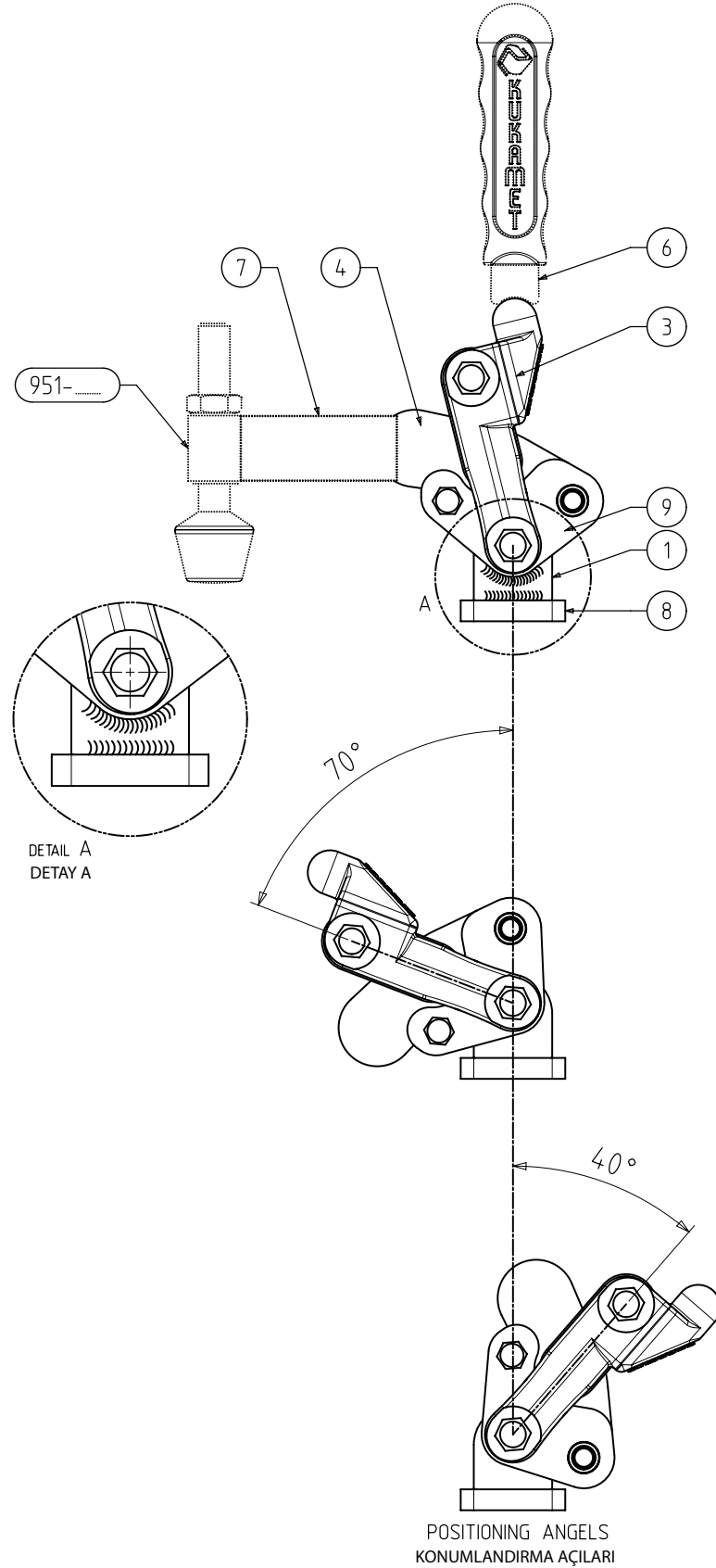
Please See Accessories Page (page 123)

TABAN PLAKASI
BASE PLATE



TABAN PLAKASI / BASE PLATE

KOD	MODEL NO	AĞIRLIK (WEIGHT)(gr ±%2)	A	A2	B	B2	D	E~	F~	H
232-2-08	232-2	105	40	15.5	50	6,5	Ø6.5	25	35	8
232-4-08	232-4	95	40	24.5	50	10.5	Ø6.5	25	35	8
232-6-08	232-6	145	50	28.5	60	12.5	Ø8.5	30	40	8

Modüler Bağlantı Elemanları Montaj Talimatı
 Modular Toggle Clamps Assembly Instructions

MONTAJ TALİMATI

ÜRÜN KONUMLAMASI YAPILDIKTAN SONRA;

- * ÖNCE '1' NO' LU TABAN '8' NO' LU TABAN PLAKAYA VEYA ZEMİNE KAYNATILIR,
- * SONRA '9' NO'LU DIŞ EKLEM '1' NO' LU TABANA KAYNATILIR.

ÖNEMLİ UYARI !!

- * KAYNAK HER İKİ TARAFDA YAPILMALIDIR !!
- * KAYNAK AYNI NOKTAYA YOĞUN ŞEKİLDE YAPILMAMALIDIR !!
- * OLUŞACAK AŞIRI ISI PARÇANIN DEFORMASYONUNA SEBEP OLABİLİR !!

KULLANIM DURUMUNA YA DA İHTİYACINA GÖRE;

- '6' NOLU UZATMA KOLU '3' NO' LU ÜRÜN KOLUNA;
- '7' NOLU ÇENE UZATMA LAMASI '4' NO' LU ÇENEYE KAYNATILABİLİR.

ASSEMBLY INSTRUCTIONS ;

AFTER POSITIONING THE PARTS OF THE PRODUCT

- * FIRST WELD PART NUMBER 1 TO THE BASE PLATE PART NUMBER 8
- * SECOND WELD PART NUMBER 9 TO PART NUMBER 1

IMPORTANT NOTICE !!

- * THE WELDING PROCESS MUST BE REPEATED ON BOTH SIDES
- * THE WELDS SHOULD NOT BE TOO DENSELY CONCENTRATED ON ONE SPOT
- * ULTRA HIGH HEAT EXPOSURE DURING WELDING CAN CAUSE DEFORMATION

OPTIONALLY

- * THE HANDLE EXTENSION PART NUMBER 6 CAN BE WELDED TO THE HANDLE PART NUMBER 3;
- * THE ARM EXTENSION PART NUMBER 7 CAN BE WELDED TO THE ARM PART NUMBER 4

MODÜLER BAĞLANTI ELEMANLARI ÖZELLİKLERİ ;

MODÜLER BAĞLANTI ELEMANLARI , DÖVME ÇELİKTE ÜRETİLMİŞ VE KARARTMA YAPILMIŞ KOL, SERTLEŞTİRİLMİŞ VE TAŞLANMIŞ PİMLER, SERTLEŞTİRİLMİŞ VE YAĞLANMIŞ BURÇLAR SAYESİNDE AĞIR YÜKLERE KARŞI DAYANIKLI VE UZUN ÖMÜRLÜ ÜRÜNLERDİR.

GENERAL PROPERTIES

THE MODULAR CLAMPS ARE MADE OF HEAVY DUTY FORGED STEEL AND THANKS TO THEIR BLACKENED HANDLES, HARDENED AND GRINDED PINS AND HARDENED AND LUBRICATED BUSHES, THEY ARE VERY DURABLE AND SUITED FOR INTENSIVE USE WITH HEAVY LOADS.

251



MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		
251-2	B251-.....	470	380	700	560	3:1	2:1	90°	65
251-3	B251-.....	1400	1030	1625	1200	3:1	2:1	90°	270
251-4	B251-.....	2000	1370	3370	2445	4:1	2.5:1	90°	710

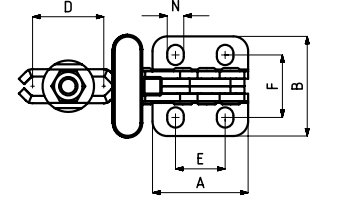
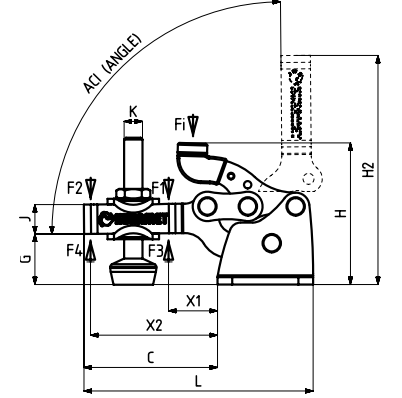
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



251-L



Kilitli / Locked



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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Sayfa/Page: 6



251-L

Sayfa/Page: 38

MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	N	X1	X2
251-2	26	27	36	17	13,5	17	14	38	62	8	M5	62	4.5x5.5	19	27
251-3	44	47	56	27	23	30	24	63	100	13	M8	100	7.5x8.5	27	43
251-4	64	63	79	37	35	39,5	36	93	143	19	M10	143	9x10.5	39	63

252



MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		
252-2	B252-.....	470	380	700	560	3:1	2:1	90°	65
252-3	B252-.....	1400	1030	1625	1200	3:1	2:1	90°	270
252-4	B252-.....	2000	1370	3370	2445	4:1	2.5:1	90°	710

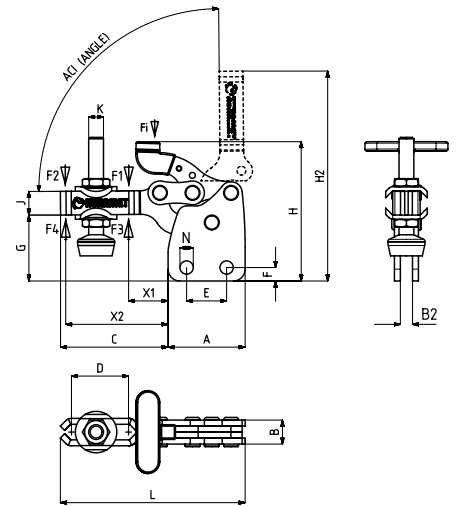
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



252-L



Kilitli / Locked



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



252-L

Sayfa/Page: 38



212

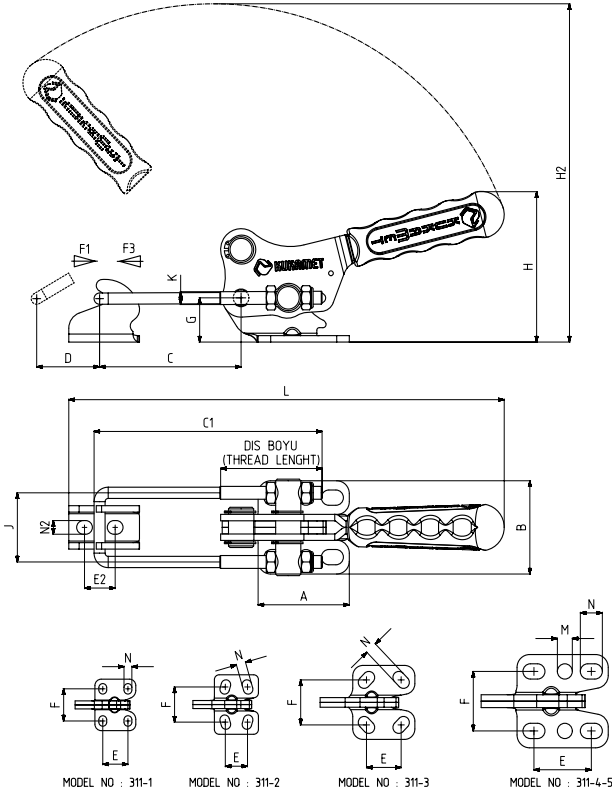
Sayfa/Page: 19



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Sayfa/Page: 8

MODEL NO	A	B	B2	C	D	E	F	G	H	H2	J	K	L	N	X1	X2
252-2	26	8	4	36	17	13,5	4,5	22	47	71	8	M5	62	Ø 4.5	19	27
252-3	44	12	6	56	27	23	8	39,5	79	116,5	13	M8	100	Ø 7.5	27	43
252-4	64	16	8	79	37	35	11	56,5	114,5	164	19	M10	143	Ø 9	39	63



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
311 - 1	S 311 -	B 311 -	1000	1500	45	135
311 - 2	S 311 -	B 311 -	1500	2000	45	175
311 - 3	S 311 -	B 311 -	2200	3200	75	335
311 - 4	S 311 -	B 311 -	7000	8000	95	815
311 - 5	-	B 311 -	10000	11000	110	945

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)

311



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

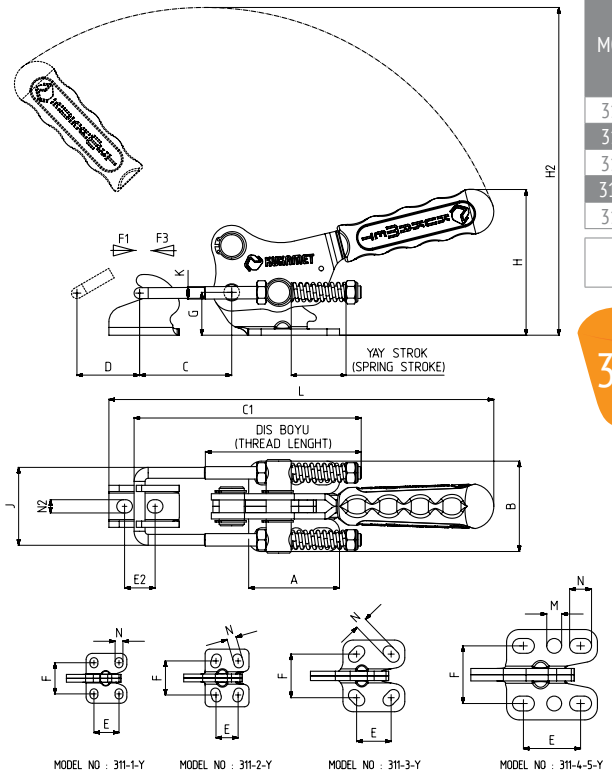


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Sayfa/Page: 40

311-L
Sayfa/Page: 46

311-Y
Sayfa/Page: 39

MODEL NO	A	B	C min.	C max.	C1	D	E	E2	F	G	H	H2	J	K	L min.	L max.	M	N	N2
311 - 1	26	32	35	65	90	20	16	10	20	13	55	110	23	M4	135	165	-	5x6,5	Ø 5
311 - 2	28	37	32	62	90	25	14	12	22	17	58	120	23	M4	142	172	-	6 x 9	5,5 x 7,5
311 - 3	39,5	46	32	67	105	35	22	16	28	21,5	67	160	30	M 6	177	212	-	7,5x11,5	Ø 6,5
311 - 4	58	58	45	95	145	44	36,5	19,5	37	27,5	91	200	43	M8	233	282	Ø 9,5	9,5x14	8,5x10
311 - 5	58	58	45	127	180	44	36,5	19,5	37	27,5	93,5	204,5	45	M10	233	315	Ø 9,5	9,5x14	8,5x10



311-Y



Ayak Tipi: Yatay Tabanlı-Yaylı
Body Mounting Base: Horizontal -
With Spring



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Sayfa/Page: 45

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Sayfa/Page: 41

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Sayfa/Page: 42

MODEL NO	A	B	C min.	C max.	C1	D	E	E2	F	G	H	H2	J	K	L min.	L max.	M	N	N2
311 - 1 - Y	26	32	35	41	90	20	16	10	20	13	55	110	23	M4	135	140	-	5x6,5	Ø 5
311 - 2 - Y	28	37	33	37,5	90	25	14	12	22	17	58	120	23	M4	143,5	147,5	-	6 x 9	5,5 x 7,5
311 - 3 - Y	39,5	46	17	42	105	35	22	16	28	21,5	67	160	30	M 6	160,5	185,5	-	7,5x11,5	Ø 6,5
311 - 4 - Y	58	58	30	60,5	145	44	36,5	19,5	37	27,5	91	200	43	M8	217	246,5	Ø 9,5	9,5x14	8,5x10
311 - 5 - Y	58	58	51,5	81,5	180	44	36,5	19,5	37	27,5	93,5	204,5	45	M10	238,5	268,5	Ø 9,5	9,5x14	8,5x10

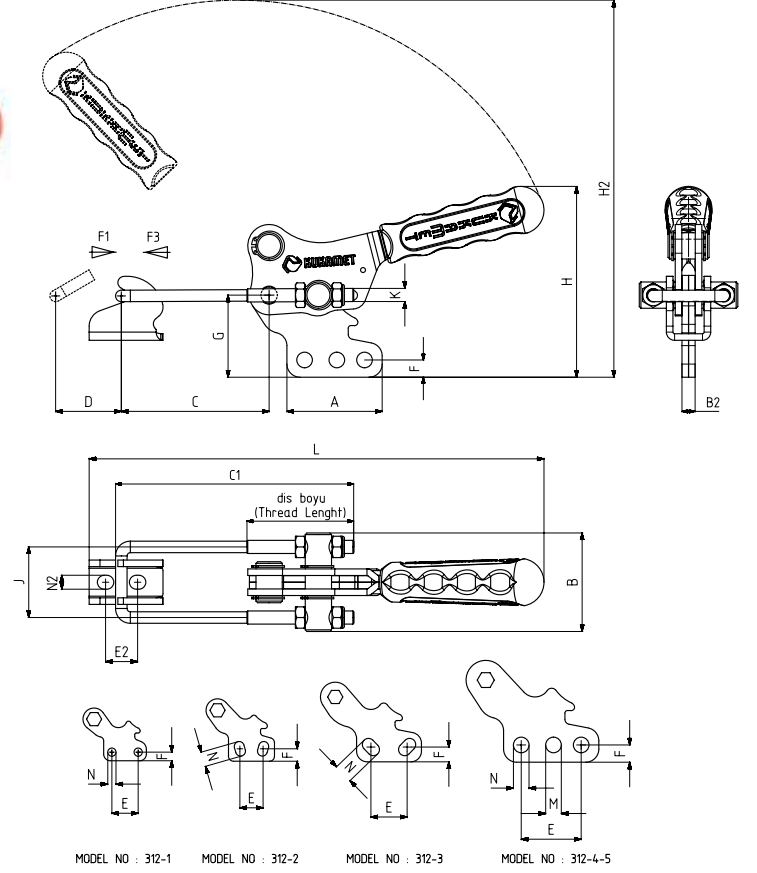
C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

312



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
312 - 1	S 312 -	B 312 -	1000	1500	45	135
312 - 2	S 312 -	B 312 -	1500	2000	45	175
312 - 3	S 312 -	B 312 -	2200	3200	75	335
312 - 4	S 312 -	B 312 -	7000	8000	95	815
312 - 5	-	B 312 -	10000	11000	110	945

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



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Sayfa/Page: 39



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Sayfa/Page: 41



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Sayfa/Page: 42



MODEL NO	A	B	B2	C Min.	C Max.	C1	D	E	E2	F	G	H	H2	J	K	L Min.	L Max.	M	N	N2
312 - 1	26	33	5	35	65	90	20	16	10	5	25	67	122	23	M4	135	165	-	Ø 5	Ø 5
312 - 2	28	33	5	32	62	90	25	14	12	7,5	31	72	134	23	M4	142	172	-	6 x 9	5,5 x 7,5
312 - 3	39,5	42	6	32	67	105	35	22	16	9	39,5	85	178	30	M 6	177	212	-	7,5x11,5	Ø 6,5
312 - 4	58	60	8	45	95	145	44	36,5	19,5	10,5	50	114	223	43	M8	232	282	Ø 9,5	Ø 9,5	8,5x10
312 - 5	58	65	8	45	127	180	44	36,5	19,5	10,5	50	114	223	43	M10	233	315	Ø 9,5	Ø 9,5	8,5x10

C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

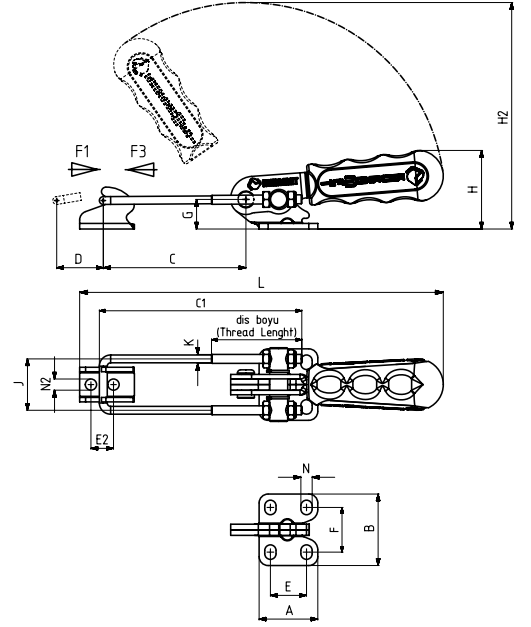
321



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



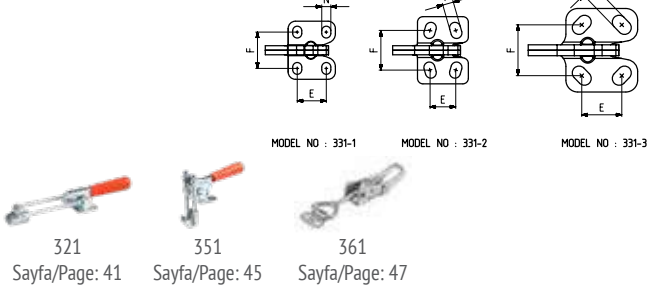
MODEL NO	A	B	C min.	C max.	C1	D	E	E2	F	G	H	H2	J	K	L min.	L max.	N	N2
321 - 1	26	32	35	65	90	20	16	10	20	13	33	99	23	M4	135	165	5x6,5	Ø 5



331



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

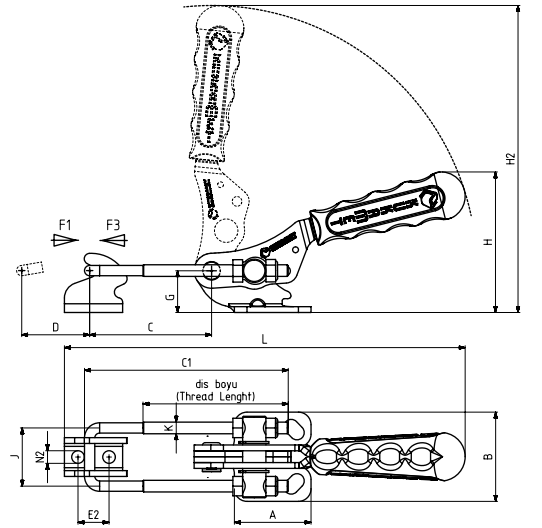


MODEL NO	A	B	C Min.	C Max.	C1	D	E	E2	F	G	H	H2	J	K	L Min.	L Max.	M	N	N2
331 - 1	26	32	35	65	90	20	16	10	20	13	28	80	23	M4	135	165	-	5 x 6,5	Ø 5
331 - 2	28	37	32	62	90	25	14	12	22	17	58	120	23	M4	142	172	-	6 x 9	5,5 x 7,5
331 - 3	39,5	46	32	67	105	35	22	16	28	21,5	67	160	30	M6	177	212	-	7,5 x 11,5	Ø 6,5
331 - 4	58	58	45	95	145	44	36,5	19,5	37	27,5	91	200	43	M8	233	282	Ø 9,5	9,5 x 14	8,5 x 10
331 - 5	58	58	45	127	180	44	36,5	19,5	37	27,5	93,5	204,5	45	M10	233	315	Ø 9,5	9,5 x 14	8,5 x 10

C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
331 - 1	S 331 -	B 331 -	1000	1500	45	95
331 - 2	S 331 -	B 331 -	1500	2000	45	160
331 - 3	S 331 -	B 331 -	2200	3200	75	310
331 - 4	-	B 331 -	7000	8000	95	720
331 - 5	-	B 331 -	10000	11000	110	860

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



332



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
332 - 1	S 332 -	B 332 -	1000	1500	45	95
332 - 2	S 332 -	B 332 -	1500	2000	45	160
332 - 3	S 332 -	B 332 -	2200	3200	75	310
332 - 4	-	B 332 -	7000	8000	95	720
332 - 5	-	B 332 -	10000	11000	110	860

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless steel latch clamp's tensile strength are %30 more less)



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



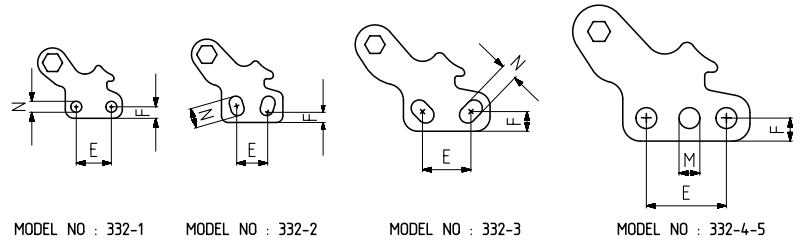
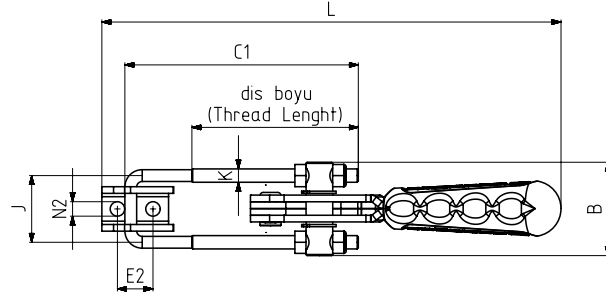
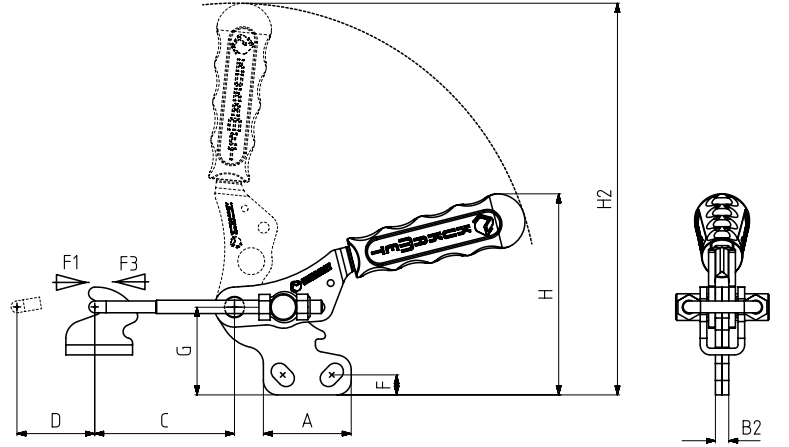
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MODEL NO : 332-1

MODEL NO : 332-2

MODEL NO : 332-3

MODEL NO : 332-4-5

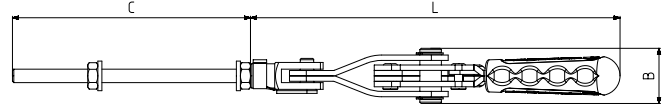
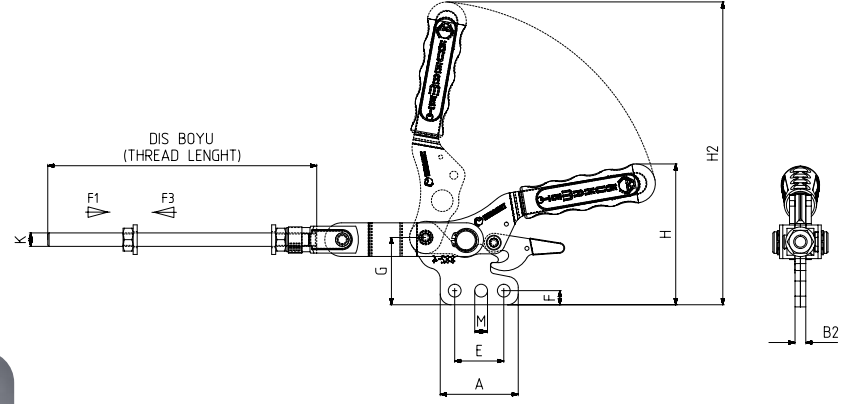
MODEL NO	A	B	B2	C min.	C max.	C1	D	E	E2	F	G	H	H2	J	K	L min.	L max.	M	N	N2
332 - 1	26	33	5	35	65	90	20	16	10	5	25	40	91,5	23	M4	135	165	-	Ø 5	Ø 5
332 - 2	28	33	5	32	62	90	25	14	12	7,5	31	72	134	23	M4	142	172	-	6 x 9	5,5 x 7,5
332 - 3	39,5	42	6	32	67	105	35	22	16	9	39,5	85	178	30	M 6	177	212	-	7,5 x 11,5	Ø 6,5
332 - 4	58	60	8	45	95	145	44	36,5	19,5	10,5	50	114	223	43	M8	232	282	Ø 9,5	Ø 9,5	8,5 x 10
332 - 5	58	65	8	45	127	180	44	36,5	19,5	10,5	50	114	223	43	M10	233	315	Ø 9,5	Ø 9,5	8,5 x 10

C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

333-L



Ayak Tipi: Dikey Tabanlı-Saplamalı
Body Mounting Base: Vertical Special
Extended Clamping Arm



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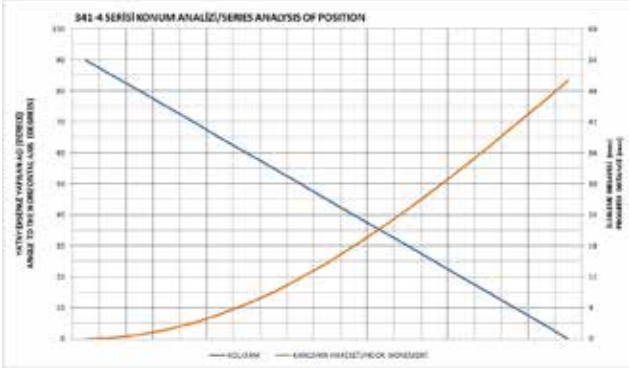
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MODEL NO	A	B	B2	C	E	F	G	H	H2	K	L	M
333-4-L-M10	58	41	8	177	36,5	10,5	50	105	225	M10	275	Ø 9,5
333-4-L-M12-C1	58	41	8	225	36,5	10,5	50	105	225	M12	279	Ø 9,5
333-4-L-M12-C2	58	41	8	375	36,5	10,5	50	105	225	M12	279	Ø 9,5
333-5-L-M16	58	43	8	167,5	36,5	10,5	50	105	225	M16	304,5	Ø 9,5



MODEL NO	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
341 - 3	10000	12000	95	1050
341 - 4	15000	17000	130	1850
341 - 5	20000	25000	65	2235

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



Ayak Tipi: Döküm Gövdeli Body Mounting Base: Casting



Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.

Taban, kol ve gerdirmе parçası mukavemetli GGG-60 döküm malzemeden üretilmiş ve siyah elektrostatik toz boya ile boyanmıştır.

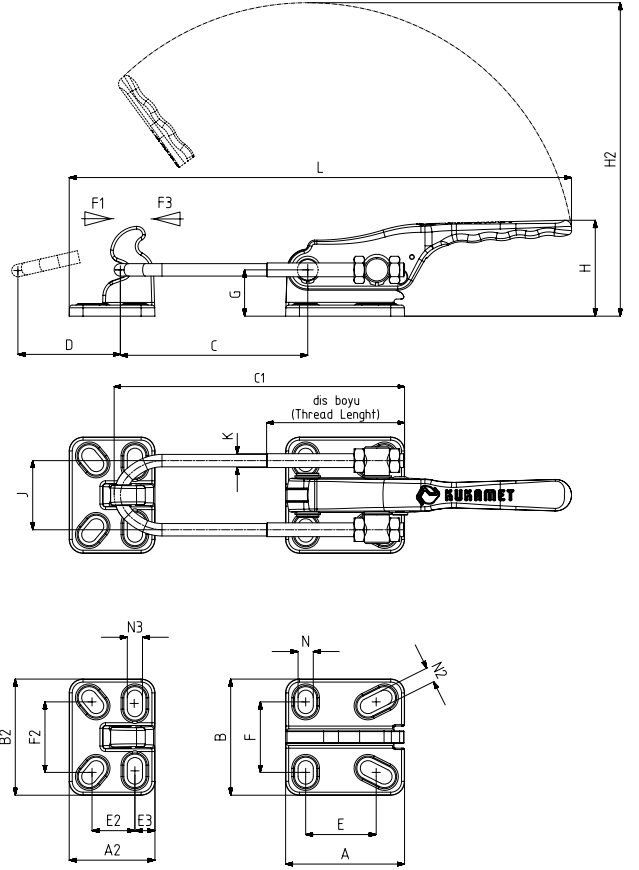
Kanca ve pimler çelik malzemeden üretilmiştir. Korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

The products are strong and suited for heavy duty applications.

The base, arm and stretching part are made of strong GGG-60 casting and coated with black electrostatic powder paint.

Hook and pins are made of galvanized steel for corrosion resistance.



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MODEL NO	A	A2	B	B2	C Min.	C Max.	C1	D	E	E2	E3	F	F2	G	H	H2	J	K	L Min.	L Max.	N	N2	N3
341 - 3	68,5	49,5	67	67	33,5	84,5	145	55	41	24,5	11,5	41	41	27,5	66	185	43	M8	217	268	8,5 x 13,5	8,5 x 19	8,5 x 14,5
341 - 4	86	62	84	84	50	135	210	80	51	30,5	15	51	51	33,5	69	230	50	M10	280	365	11 x 17	11 x 24	11 x 19
341 - 5	86	66	84	84	50	70	146	80	51	31,5	20	51	51	33,5	89	230	56	M12	280	298	11 x 17	11 x 24	11 x 19

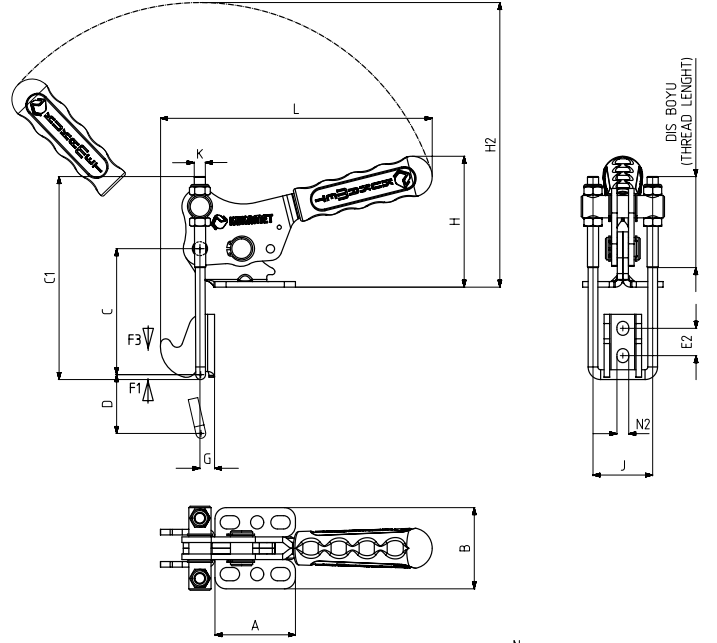
351



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
351 - 1	S 351 -	B 351 -	1000	1500	45	135
351 - 2	S 351 -	B 351 -	1500	2000	45	175
351 - 3	S 351 -	B 351 -	2200	3200	75	335
351 - 4	S 351 -	B 351 -	7000	8000	95	815
351 - 5	-	B 351 -	10000	11000	110	945

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)

Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal



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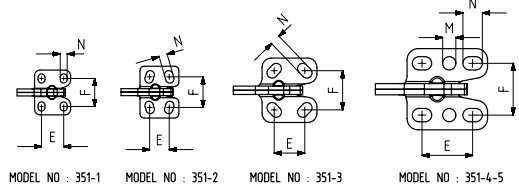
331

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MODEL NO : 351-1

MODEL NO : 351-2

MODEL NO : 351-3

MODEL NO : 351-4-5



MODEL NO	A	B	C (min.)	C (max.)	C1	D	E	E2	F	G	H	H2	J	K	L	M	N	N2
351 - 1	26	32	35	65	90	20	16	10	20	13	55	110	23	M4	104	-	5x6,5	Ø 5
351 - 2	28	37	32	62	90	25	14	12	22	17	58	120	23	M4	113	-	6 x 9	5,5 x 8
351 - 3	39,5	46	32	67	105	35	22	16	28	21,5	67	160	30	M 6	151	-	7,5x11,5	Ø 6,5
351 - 4	58	58	45	95	145	44	36,5	19,5	37	27,5	91	200	43	M8	196	Ø 9,5	9,5x14	8,5x10
351 - 5	58	58	45	127	180	44	36,5	19,5	37	27,5	93,5	204,5	45	M10	196	Ø 9,5	9,5x14	8,5x10

C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

KİLİTLİ / LOCKED PATENT NO: 20100115

NOT : Kilitli modellerin teknik detayları 39, 40, 44, 45 ve 50 numaralı sayfalarda mevcuttur.

Note : Technical details of locked models are available at pages 39, 40, 44, 45 and 50

311-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
311 - 1 - L	S311 - 1 - L	B311 - 1 - L
311 - 2 - L	S311 - 2 - L	B311 - 2 - L
311 - 3 - L	S311 - 3 - L	B311 - 3 - L
311 - 4 - L	S311 - 4 - L	B311 - 4 - L
311 - 5 - L	-	B311 - 5 - L



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

311-Y-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
311 - 2 - Y - L	S311 - 2 - Y - L	B311 - 2 - Y - L
311 - 3 - Y - L	S311 - 3 - Y - L	B311 - 3 - Y - L

new



Ayak Tipi: Yatay Tabanlı-Çaylı
Body Mounting Base: Horizontal -
With Spring

312-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
312 - 1 - L	S312 - 1 - L	B312 - 1 - L
312 - 2 - L	S312 - 2 - L	B312 - 2 - L
312 - 3 - L	S312 - 3 - L	B312 - 3 - L
312 - 4 - L	S312 - 4 - L	B312 - 4 - L
312 - 5 - L	-	B312 - 5 - L



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: vertical

341-L



MODEL NO
341 - 3 - L
341 - 4 - L
341 - 5 - L



Ayak Tipi: Döküm Gövdeli
Body Mounting Base: Casting

351-L



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)
351 - 1 - L	S351 - 1 - L	B351 - 1 - L
351 - 2 - L	S351 - 2 - L	B351 - 2 - L
351 - 3 - L	S351 - 3 - L	B351 - 3 - L
351 - 4 - L	S351 - 4 - L	B351 - 4 - L
351 - 5 - L	-	B351 - 5 - L



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

371-L



MODEL NO	SİYAH (BLACK)
371 - 4 - L	B371 - 4 - L

new



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

361-1



361-2



361-2-K

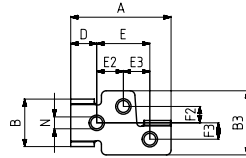
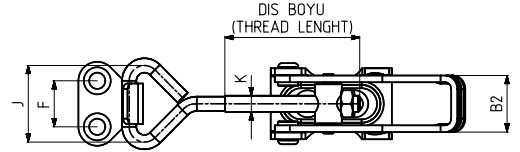
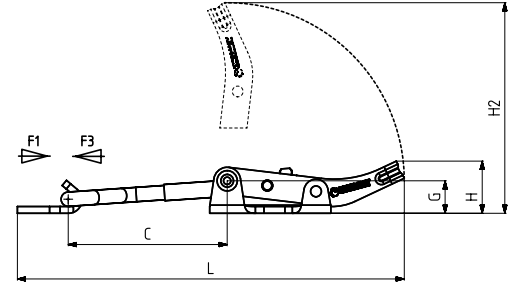


361-3-K

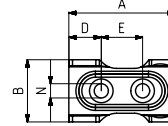


MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread lenght)	AĞIRLIK (WEIGHT) (gr ±%2)
361 - 1	S361 -	1000	1200	23	55
361 - 2	S361 -	1500	1725	50	100
361 - 2 - K	S361 -	1500	1725	50	100
361 - 3 - K	S361 -	2000	2500	40	240
361 - 3	S361 -	2000	2500	40	250

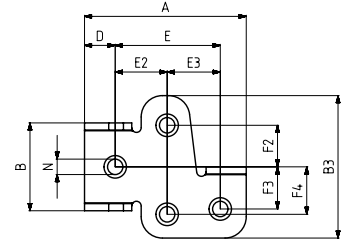
F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



MODEL NO : 361-1



MODEL NO : 361-2 / 361-2-K



MODEL NO : 361-3 / 361-3-K

361-3



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal



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Sayfa/Page: 49

MODEL NO	A	B	B2	B3	C min.	C max.	D	E	E2	E3	F	F2	F3	F4	G	H	H2	J	K	L min.	L max.	N
361 - 1	42,5	20	16,5	27	22	31,5	11	22,5	11,3	11,2	14	6,9	6,9	-	10,5	16,5	57,5	20	M5	83	93,5	Ø 5
361 - 2	45	26	21	-	25	60	13,75	17,5	-	-	17	-	-	-	12	19,5	78	28,5	M6	110	145	Ø 6
361 - 2 - K	45	26	21	-	25	60	13,75	17,5	-	-	17	-	-	-	12	19,5	78	28,5	M6	110	145	Ø 6
361 - 3 - K	68,5	37	31,5	60	47	61	13	44,5	22	22,5	-	17,5	17,75	20	15	22	112	40	M8	164	178	Ø 6
361 - 3	68,5	37	31,5	60	47	61	13	44,5	22	22,5	22	17,5	17,75	20	15	22	124	40	M8	177	191	Ø 6

361-T



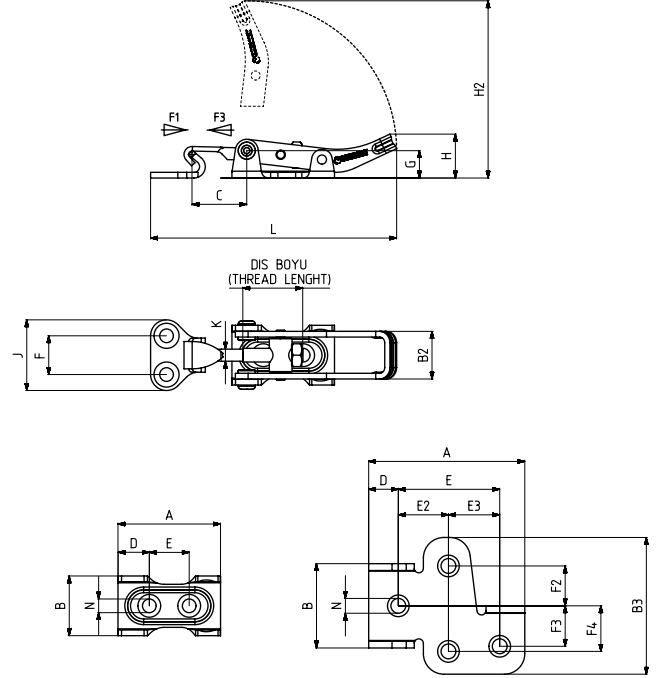
new

MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread lenght)	AĞIRLIK (WEIGHT) (gr ±%2)
361-2-T	S361-....	1400	1650	25	85
361-3-T	S361-....	1600	1800	25	205

F1: BASKI KUVVETİ (EXERTING FORCE), F3: TUTMA KAPASİTESİ (HOLDING CAPACITY)

Ayak Tipi: Yatay Tabanlı - Tırnaklı

Body Mounting Base: Horizontal - Clawed Hook



MODEL NO : 361-2-T

MODEL NO : 361-3-T



311-Y
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MODEL NO	A	B	B2	B3	C min.	C max.	D	E	E2	E3	F	F2	F3	F4	G	H	H2	J	K	L min.	L max.	N
361-2-T	45	26	21	-	15,5	25,5	13,75	17,5	-	-	17	-	-	-	12	19,5	78	28,5	M6	99	109	Ø 6
361-3-T	68,5	37	31,5	60	20	25	13	44,5	22	22,5	-	17,5	17,75	20	15	22	112	40	M8	133	138	Ø 6

362



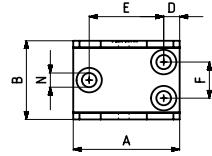
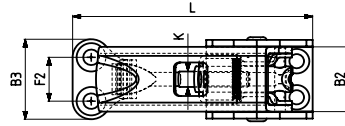
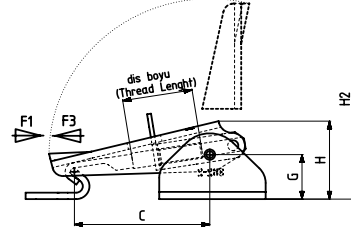
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
362-1	S362 -	1400	1650	25	140
362-2	S362 -	1600	1800	25	160

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)

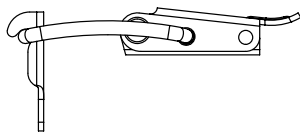


MODEL NO	A	B	B2	B3	C Min	C Max	D	E	F	F2	G	H	H2	K	L Min	L Max	N
362-1	40	29,5	24	31	47	62	6	28	14	17	17	30	78	M6	86	101	Ø 5,5
362-2	40	30,5	25	31	47	62	6	28	14	17	17	30	78	M8	86	101	Ø 5,5

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Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



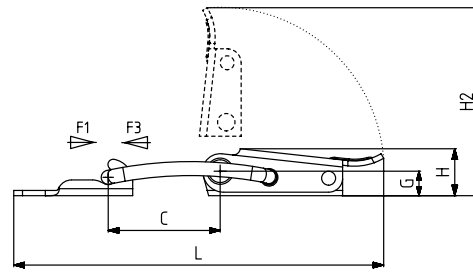
POS 2



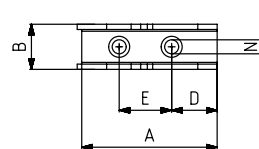
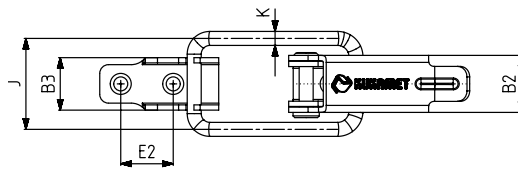
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MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	AĞIRLIK (WEIGHT) (gr ±%)
363-2	S363-....	1500	1725	50

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



POS 1

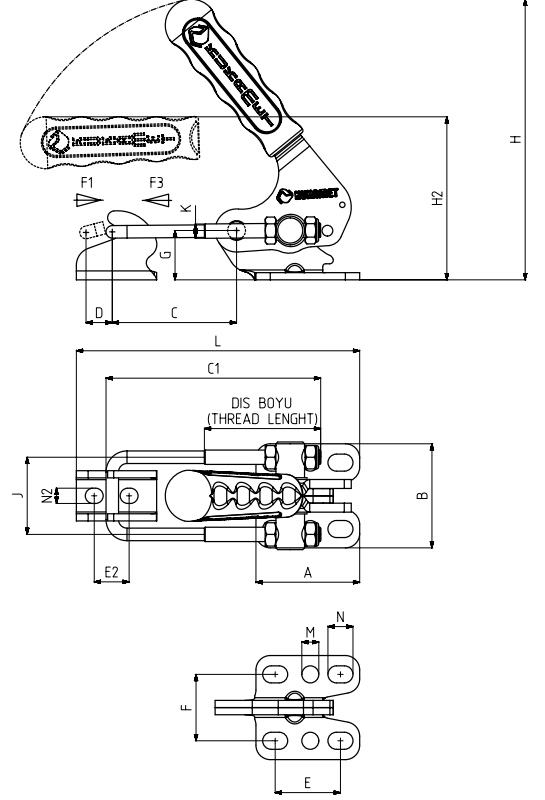


MODEL NO	A	B	B2	B3	C	D	E	E2	G	H	H2	J	K	L	N
363-2	38.5	13	16.3	15	32	13	15	15	7	13.5	54	25	4	106	Ø 4

371



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread lenght)	AĞIRLIK (WEIGHT) (gr ±%)
371 - 4	S 371 -	B 371 -	7000	8000	65	815
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)						
Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)						



Ayak Tipi: Yatay Tabanlı-Ters Kollu

Body Mounting Base: Horizontal - Reverse Arm



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MODEL NO	A	B	C min.	C max.	C1	D	E	E2	F	G	H	H2	J	K	L min.	L max.	M	N	N2
371 - 4	58	58	36	69,5	120	8,5	36,5	19,5	37	27,5	156	91	43	M8	125	158,5	Ø 9,5	9,5 x 14	8,5 x 10

C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
411 - 2	S 411 -	B 411 -	1500	1800	50	210
411 - 3	S 411 -	B 411 -	2000	2500	41	325
411 - 4	-	B 411 -	3500	4000	55	860

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)

Paslanmaz C Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamps tensile strength are %30 more less)



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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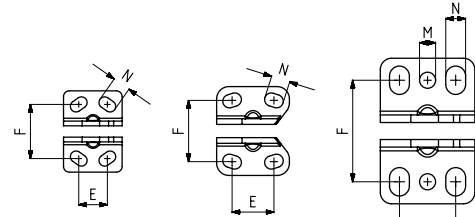
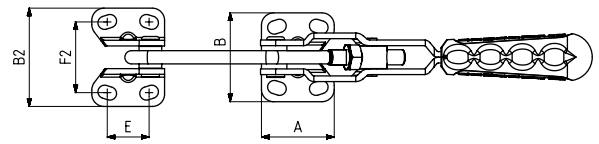
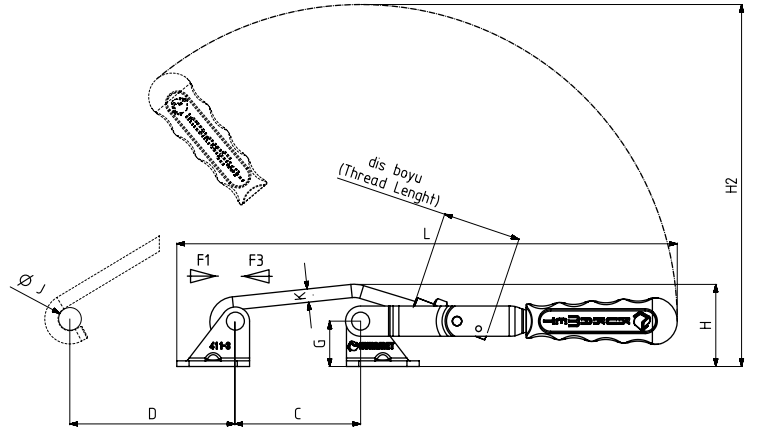
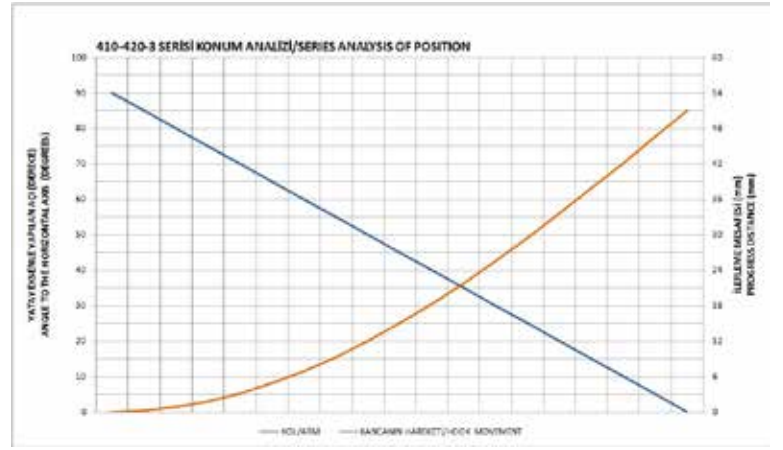
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Sayfa/Page: 53



MODEL NO : 411-2

MODEL NO : 411-3

MODEL NO : 411-4

MODEL NO	A	B	B2	C min.	C max.	D	E	F	F2	G	H	H2	J	K	L min.	L max.	M	N
411 - 2	31	43	47	45	68	50	15	28,5	32,5	26	38	155	9	M6	200	220	-	6x9,5
411 - 3	38,5	47	52	60	75	80	22	32,5	37,5	24	42	190	12	M 8	255	270	-	7x10
411 - 4	50	77	84	75	100	130	30	53,5	60,5	40	61	253	16	M10	335	360	Ø 8,5	10,5x15

412

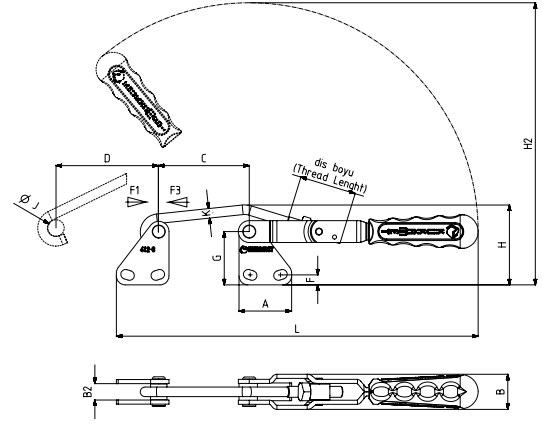


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
412 - 2	S 412 -	B 412 -	1500	1800	50	210
412 - 3	S 412 -	B 412 -	2000	2500	41	325
412 - 4	-	B 412 -	3500	4000	55	860

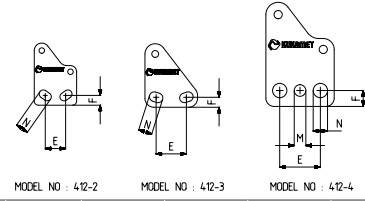
F1: BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz C Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



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MODEL NO	A	B	B2	C Min.	C Max.	D	E	F	G	H	H2	J	K	L Min.	L Max.	M	N
412 - 2	31	21,5	10	45	68	50	15	7	40	52	169	9	M6	200	220	-	6 x 9,5
412 - 3	38,5	25,5	12	60	75	80	22	7,3	39	57	205	12	M 8	255	270	-	7x10
412 - 4	50	34	16	75	100	130	30	11,5	67	88	280	16	M10	335	360	Ø 8,5	Ø 10,5

413

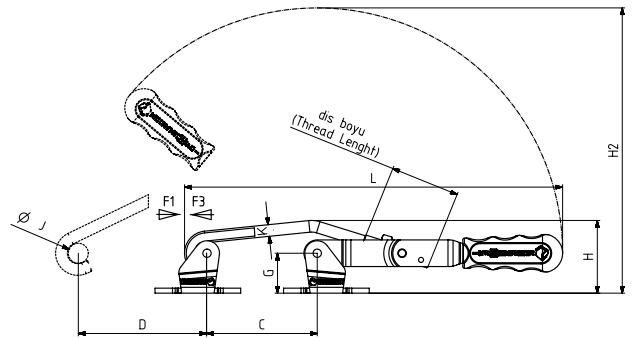


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
413 - 3	S 413 -	B 413 -	2000	2500	41	285

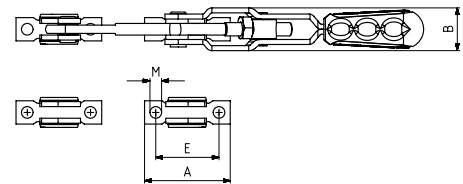
F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz C Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



Ayak Tipi: U Tabanlı
Body Mounting Base: U Base



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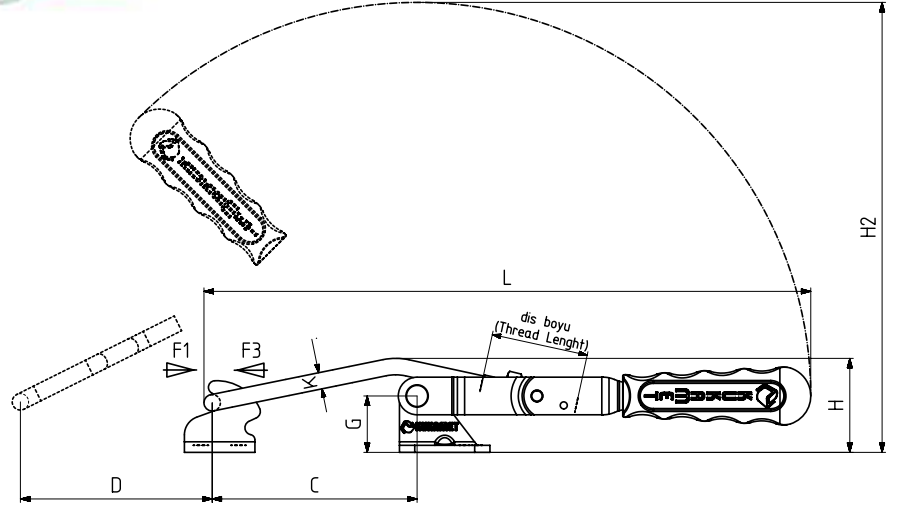


MODEL NO	A	B	C Min.	C Max.	D	E	G	H	H2	J	K	L Min.	L Max.	M
413 - 3	51,5	25,5	60	75	80	38	24	42	190	12	M 8	255	270	Ø 7



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
421 - 3	S 421 -	B 421 -	2000	2500	41	320

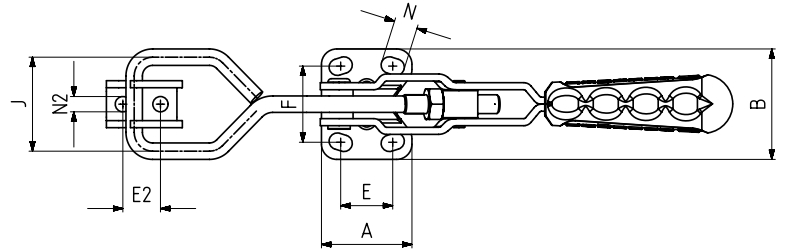
F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz C Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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MODEL NO	A	B	C Min.	C Max.	D	E	E2	F	G	H	H2	J	K	L Min.	L Max.	N	N2
421 - 3	38.5	47	77	97	80	22	16	32,5	24	42	190	40	M 8	255	275	7x10	Ø 6.5

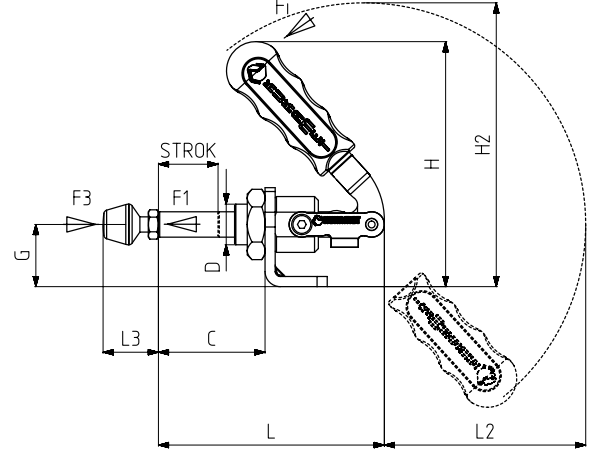
511



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	Fi VERİM YIELD (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
511-0-M	S 511 -	B 511 -	550	700	20:1	M4X25	15	87
511-0	S 511 -	B 511 -	550	700	20:1	M4X25	15	92
511-1	S 511 -	B 511 -	800	970	24:1	M5X35	22	135
511-2	S 511 -	B 511 -	1500	1700	26:1	M6X40	27	280
511-3	-	B 511 -	2500	2640	27:1	M8X50	38	490
511-5	-	B 511 -	3500	3700	38:1	M10X70	53	960
511-6	-	B 511 -	4500	4650	38:1	M10X70	53	1070

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



511-Y
Sayfa/Page: 55



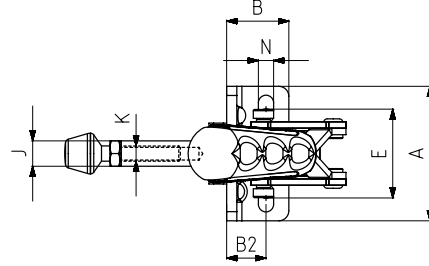
512
Sayfa/Page: 56



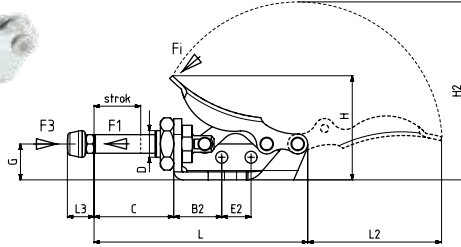
513
Sayfa/Page: 56



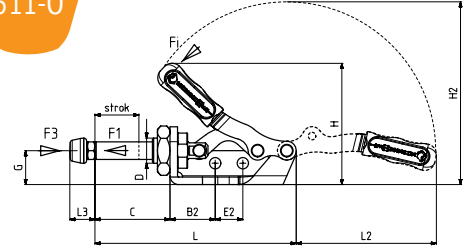
918
Sayfa/Page: 122



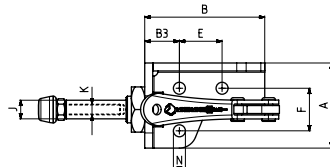
511-O-M



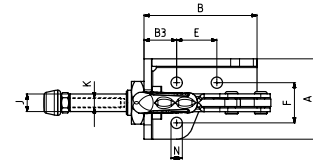
511-O



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO : 511-O-M
(KAPLAMASIZ METAL SAP)
(UNCOATED METAL HANDLE)



MODEL NO : 511-O

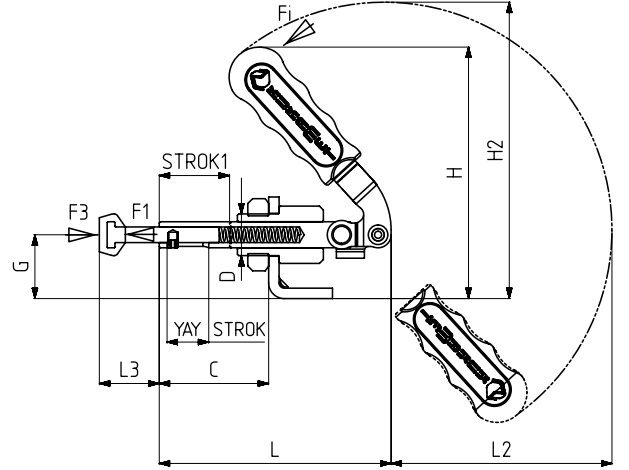
MODEL NO	A	B	B2	B3	C	D	E	E2	F	G	H	H2	J	K	L	L2	L3 Min	L3 Max	N
511-0-M	32	45	18	13	32	M10 x 1	16	11	16	13,5	39	67	7	M4	82	50,5	10	25	Ø 4,5
511-0	32	45	18	13	32	M10 x 1	16	11	16	13,5	48	73	7	M4	82	56	10	25	Ø 4,5
511-1	44	20	11,5	-	34	M12 x 1,5	26,5	-	-	19,5	79,5	92	8	M5	73	68,5	15	38	5,5 x 10,5
511-2	53	24,5	15,5	-	42	M16 x 1,5	35	-	-	24,5	96	111	10	M6	89	80	19	46	6 x 11
511-3	60	30	17,5	-	56	M20 x 1,5	38	-	-	30,5	137	140	12	M 8	116	80	24	58	6,5 x 11
511-5	78	36	21	-	75	M24 x 1,5	49,5	-	-	38	152	179	14	M10	155	135	32	74	8,5 x 16
511-6	78	36	21	-	75	M24 x 1,5	49,5	-	-	38	152	179	16	M10	155	135	32	74	8,5 x 16

511-Y

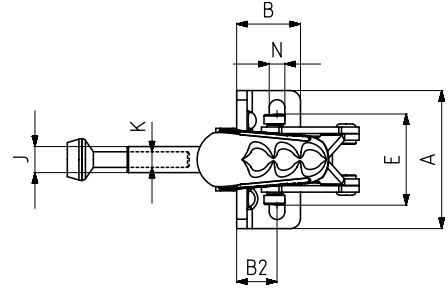


MODEL NO	F1 (N)	F3 (N)	F1 VERİM YIELD (F1:F1)	YAY STROK SPRING STROKE	STROK 1	AĞIRLIK (WEIGHT) (gr ±%2)
511 - 1 - Y	230	280	24:1	10	22	142
511 - 2 - Y	550	620	26:1	12	27	260
511 - 3 - Y	1100	1160	27:1	14	38	470
511 - 5 - Y	1850	1950	38:1	16	53	930
511 - 6 - Y	2200	2270	38:1	16	53	1030

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı (Yaylı)
Body Mounting Base: Horizontal (Spring loaded)



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MODEL NO	A	B	B2	C	D	E	G	H	H2	J	K	L	L2	L3 Min	L3 Max	N
511 - 1 - Y	44	20	11,5	34	M12 x 1,5	26,5	19,5	79,5	92	8	M5	73	68,5	11,5	21,5	5,5 x 10,5
511 - 2 - Y	53	24,5	15,5	42	M16 x 1,5	35	24,5	96	111	10	M6	89	80	11	23	6 x 11
511 - 3 - Y	60	30	17,5	56	M20 x 1,5	38	30,5	137	140	12	M 8	116	80	13	27	6,5 x 11
511 - 5 - Y	78	36	21	75	M24 x 1,5	49,5	38	152	179	14	M10	155	135	17	33	8,5 x 16
511 - 6 - Y	78	36	21	75	M24 x 1,5	49,5	38	152	179	16	M10	155	135	17	33	8,5 x 16

512



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



511
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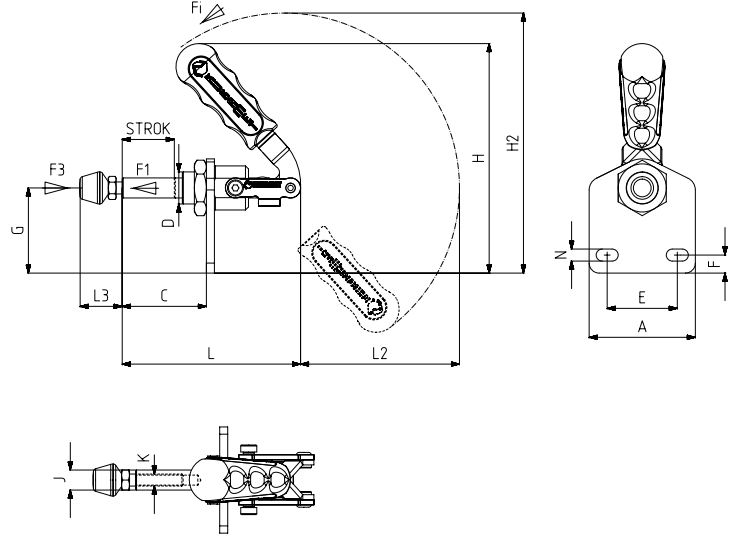
511-Y
Sayfa/Page: 55



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MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
512 - 1	S 512 -	B 512 -	800	970	24:1	M5X35	22	135
512 - 2	S 512 -	B 512 -	1500	1700	26:1	M6X40	27	280
512 - 3	-	B 512 -	2500	2640	27:1	M8X50	38	490
512 - 5	-	B 512 -	3500	3700	38:1	M10X70	53	960
512 - 6	-	B 512 -	4500	4650	38:1	M10X70	53	1070

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO	A	C	D	E	F	G	H	H2	J	K	L	L2	L3 Min	L3 Max	N
512 - 1	44	34	M12 x 1,5	26,5	8,5	35	95	108	8	M5	73	68,5	15	38	5,5 x 10,5
512 - 2	53	42	M16 x 1,5	35	9	42,5	114	129	10	M6	89	80	19	46	6 x 11
512 - 3	60	56	M20 x 1,5	38	12,5	52	158	161	12	M 8	116	80	24	58	6,5 x 11
512 - 5	78	75	M24 x 1,5	49,5	15	64,5	178	206	14	M10	155	135	32	74	8,5 x 16
512 - 6	78	75	M24 x 1,5	49,5	15	64,5	178	206	16	M10	155	135	32	74	8,5 x 16

513



Ayak Tipi: Tabansız
Body Mounting Base: No Base



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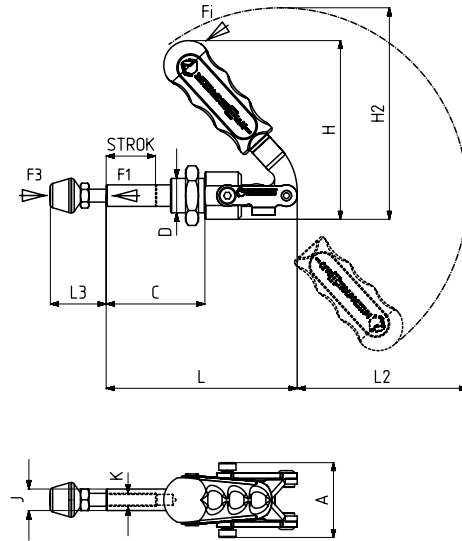
511-Y
Sayfa/Page: 55



512
Sayfa/Page: 56

MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
513 - 1	S 513 -	B 513 -	800	970	24:1	M5X35	22	95
513 - 2	S 513 -	B 513 -	1500	1700	26:1	M6X40	27	200
513 - 3	-	B 513 -	2500	2640	27:1	M8X50	38	360
513 - 5	-	B 513 -	3500	3700	38:1	M10X70	53	710
513 - 6	-	B 513 -	4500	4650	38:1	M10X70	53	780

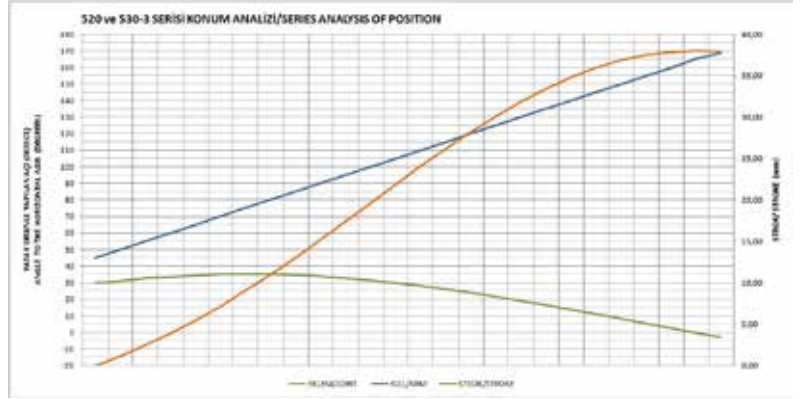
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



MODEL NO	A	C	D	H	H2	J	K	L	L2	L3 min.	L3 max.
513 - 1	32	37	M12 x 1,5	69	82	8	M5	73	68,5	15	38
513 - 2	35	46	M16 x 1,5	81,5	97	10	M6	89	80	19	46
513 - 3	43	61	M20 x 1,5	100	103	12	M8	116	80	24	58
513 - 5	50	81	M24 x 1,5	131	159	14	M10	155	135	32	74
513 - 6	52	81	M24 x 1,5	131	159	16	M10	155	135	32	74

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
521 - 3 (Ø 12)	2500	2960	16:1	M8X50	38	390
521 - 3 (Ø 14)	2500	3200	16:1	M8X50	38	405
521 - 4 (Ø 16)	4500	6650	23:1	M10X70	47	810
521 - 4 (Ø 18)	4500	7200	23:1	M10X70	47	825
521 - 5 (Ø 20)	7500	15000	30:1	M12X80	55	1425

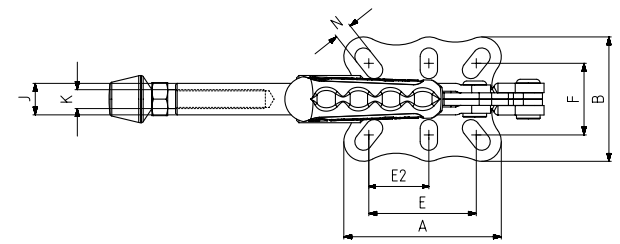
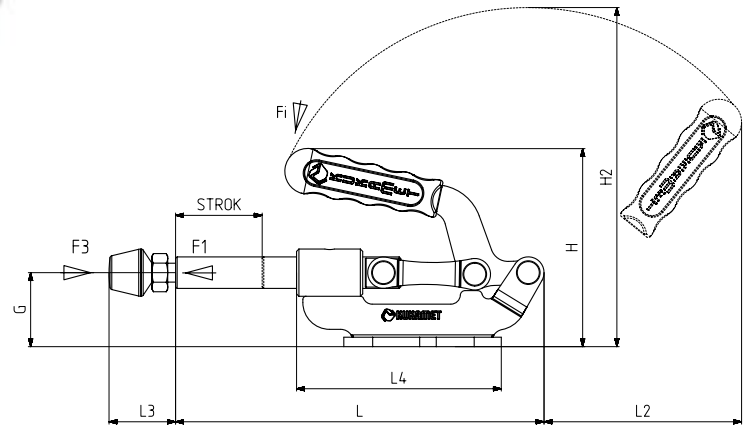
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



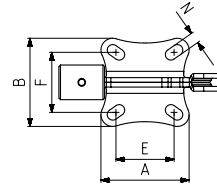
Ayak Tipi: Yatay Tabanlı, Kaynaklı
Body Mounting Base: Horizontal, With Welding



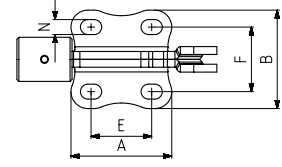
531 Sayfa/Page: 59 532 Sayfa/Page: 60 534 Sayfa/Page: 62



MODEL NO : 521-5



MODEL NO : 521-3



MODEL NO : 521-4

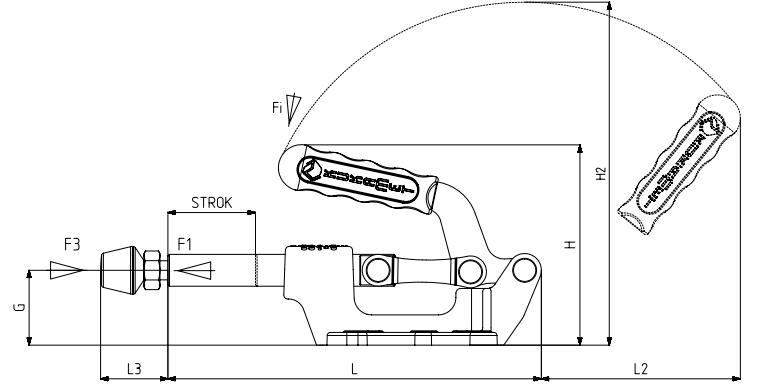
MODEL NO	A	B	E	E2	F	G	H	H2	J	K	L	L2	L3 Min	L3 Max	L4	N
521 - 3 (Ø 12)	56	56	37	-	38	32	88	142	12	M8	154	85	24	58	83	7 x 12
521 - 3 (Ø 14)	56	56	37	-	38	32	88	142	14	M8	154	85	24	58	83	7 x 12
521 - 4 (Ø 16)	64	62	38,5	-	41	40	107	179	16	M10	186	105	32	81	98	9,5 x 13,5
521 - 4 (Ø 18)	64	62	38,5	-	41	40	107	179	18	M10	186	105	32	81	98	9,5 x 13,5
521 - 5 (Ø 20)	100	79	68	38	45,5	47	125	216	20	M12	234	125	39	94	130	11 x 22





MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
			VERİM (YIELD) (F1:Fi)			
531 - 3 (Ø 12)	2500	3700	16:1	M8X50	38	635
531 - 3 (Ø 14)	2500	4000	16:1	M8X50	38	645
531 - 4 (Ø 16)	4500	8100	23:1	M10X70	47	1140
531 - 4 (Ø 18)	4500	8800	23:1	M10X70	47	1150
531 - 5 (Ø 20)	7500	18450	30:1	M12X80	55	1835

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli Body Mounting Base: Horizontal, Casting

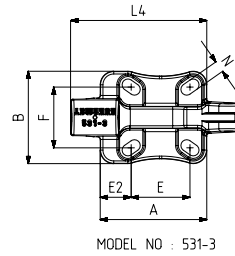
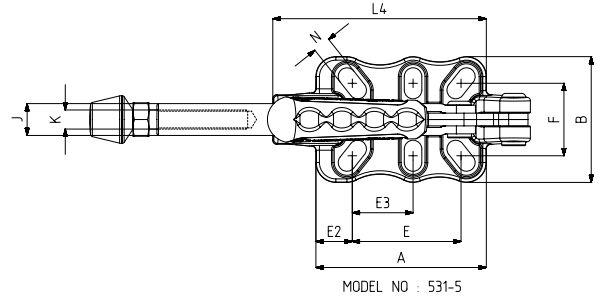
Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde mukavemetli GGG-60 döküm malzemeden üretilmiş ve siyah elektro statik toz boya ile boyanmıştır.

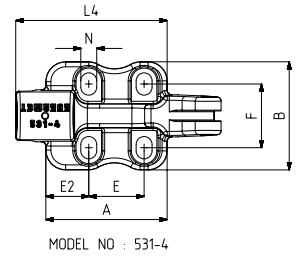
Mil, yüksek aşınma direnci ve korozyon direnci için sert krom kaplı malzemeden üretilmiştir.
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

The products are strong and suited for heavy duty applications.
The body is made of strong GGG-60 casting and coated with black electrostatic powder paint.
The rod is made of hard chrome plated steel for high wear and corrosion resistance and the mechanism parts are made of galvanized steel for corrosion resistance.



MODEL NO : 531-3



MODEL NO : 531-4



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MODEL NO	A	B	E	E2	E3	F	G	H	H2	J	K	L	L2	L3 Min	L3 Max	L4	N
531 - 3 (Ø 12)	67	58	37	19,5	-	38	32	88	142	12	M8	155	85	24	58	85,5	7 x 12
531 - 3 (Ø 14)	67	58	37	19,5	-	38	32	88	142	14	M8	155	85	24	58	85,5	7 x 12
531 - 4 (Ø 16)	76	68	34,5	27	-	40	39	107	179	16	M10	187	105	32	81	95	10 x 14
531 - 4 (Ø 18)	76	68	34,5	27	-	40	39	107	179	18	M10	187	105	32	81	95	10 x 14
531 - 5 (Ø 20)	107	79	68	23	38	45,5	47	125	216	20	M12	235	125	39	94	134	11 x 22

532



MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
532 - 3 (Ø 12)	2500	3700	16:1	M8X50	38	590
532 - 3 (Ø 14)	2500	4000	16:1	M8X50	38	610
532 - 4 (Ø 16)	4500	8100	23:1	M10X70	47	1030
532 - 4 (Ø 18)	4500	8800	23:1	M10X70	47	1060
532 - 5 (Ø 20)	7500	18450	30:1	M12X80	100	2870

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli Body Mounting Base: Horizontal, Casting

Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde mukavemetli GGG-60 döküm malzemeden üretilmiş ve siyah elektrostatik toz boya ile boyanmıştır.

Mil, yüksek aşınma direnci ve korozyon direnci için sert krom kaplı malzemeden üretilmiştir.
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

The products are strong and suited for heavy duty applications.

The body is made of strong GGG-60 casting and coated with black electrostatic powder paint.

The rod is made of hard chrome plated steel for high wear and corrosion resistance and the mechanism parts are made of galvanized steel for corrosion resistance.



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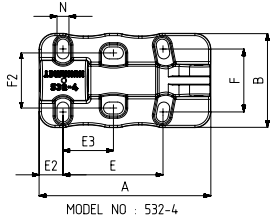
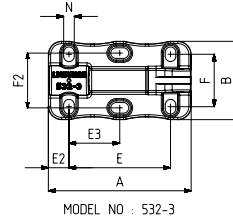
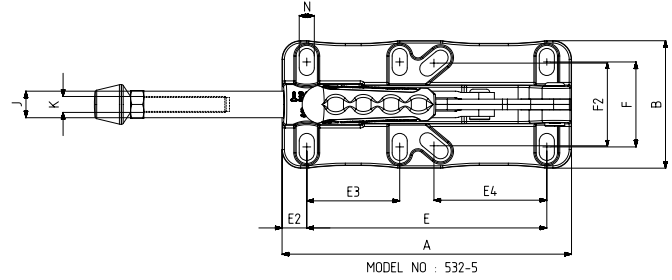
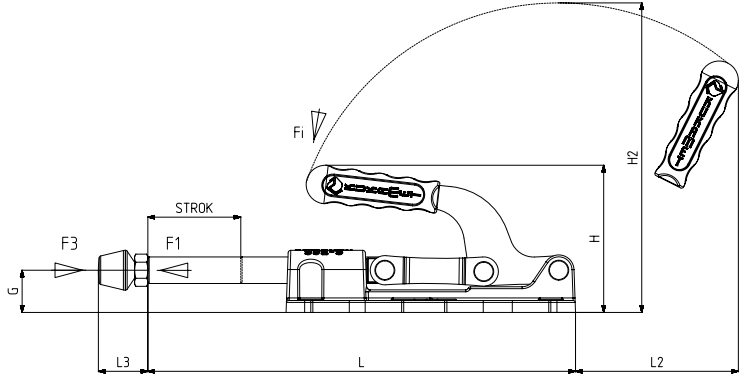
531

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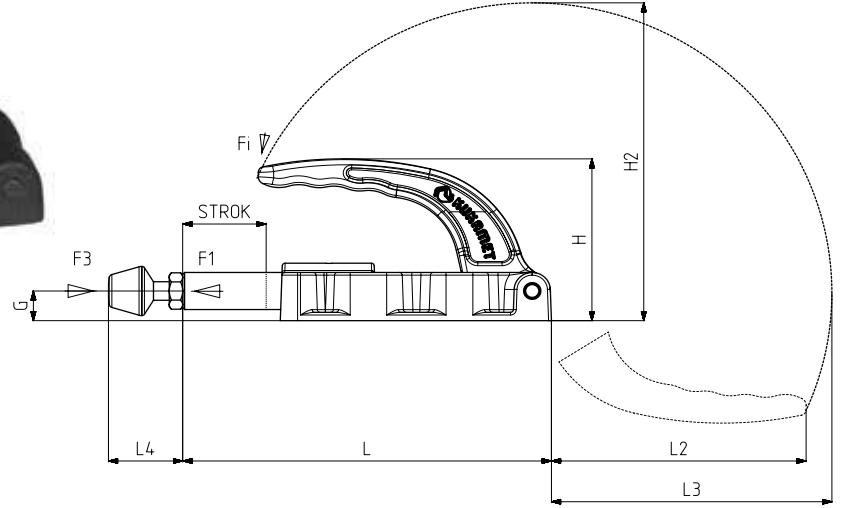


MODEL NO	A	B	E	E2	E3	E4	F	F2	G	H	H2	J	K	L	L2	L3 Min	L3 Max	N
532 - 3 (Ø 12)	107	59	76,5	15,5	38	-	39,5	41	17,5	73	127	12	M8	156	81	24	58	8x11
532 - 3 (Ø 14)	107	59	76,5	15,5	38	-	39,5	41	17,5	73	127	14	M8	156	81	24	58	8x11
532 - 4 (Ø 16)	130	71	75,5	18	38	-	47,5	41,5	20,5	86	159	16	M10	188	94	32	81	9x15
532 - 4 (Ø 18)	130	71	75,5	18	38	-	47,5	41,5	20,5	86	159	18	M10	188	94	32	81	9x15
532 - 5 (Ø 20)	218	96	180,5	18,5	70	85	64	62,5	31,8	111	234	20	M12	322	122	39	94	11x20



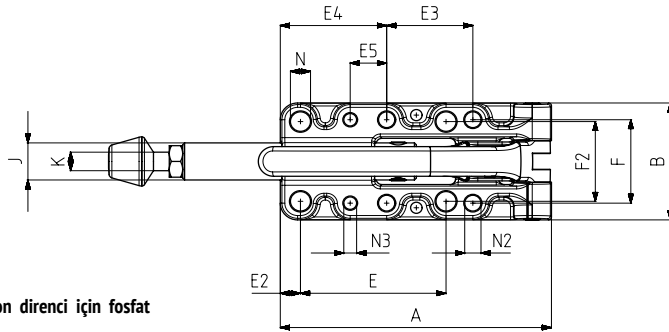
MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
533 - 4 (Ø 14)	7000	11000	16:1	M8 x 50	38	840
533 - 5 (Ø 20)	12000	29000	30:1	M10 x 70	50	1610

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli

Body Mounting Base: Horizontal, Casting



MODEL NO : 533-5

Ürün özellikleri;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.

Gövde ve kol mukavemetli GGG-60 döküm malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Mil, yüksek aşınma direnci ve korozyon direnci için sert krom kaplı malzemeden üretilmiştir.

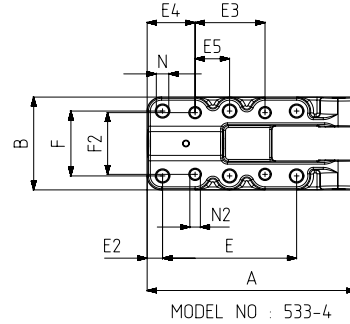
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.

The body and arm are made of strong GGG-60 casting and phosphate coated for corrosion resistance

The rod is made of hard chrome plated steel for high wear and corrosion resistance and the mechanism parts are made of phosphate coated steel for corrosion resistance.



MODEL NO : 533-4



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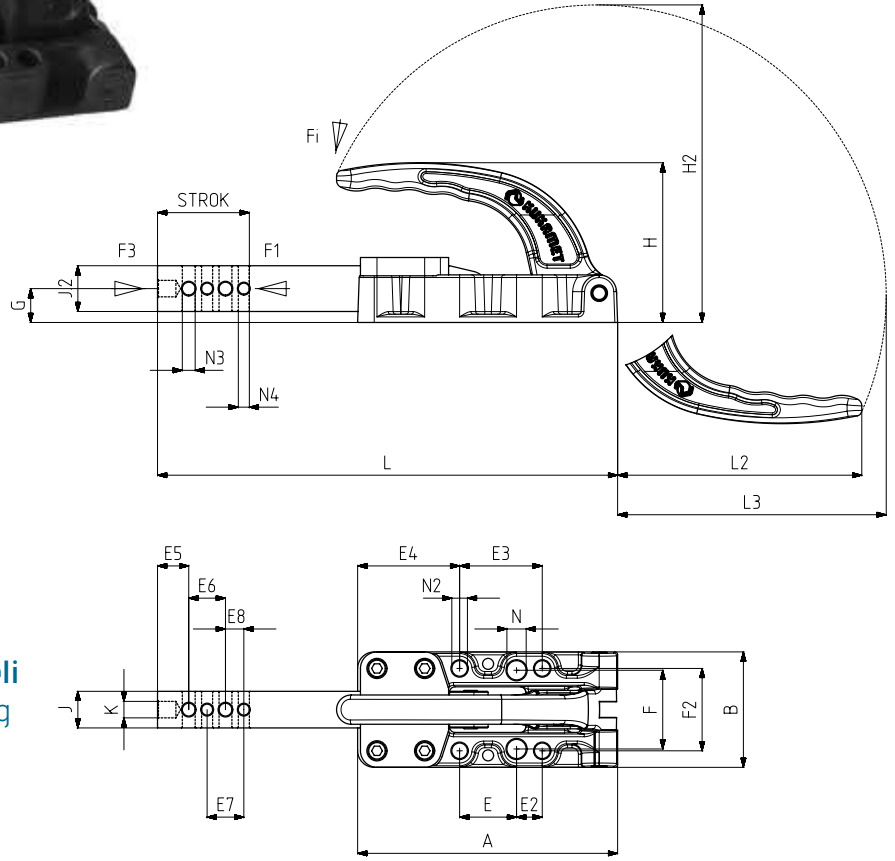
MODEL NO	A	B	E	E2	E3	E4	E5	F	F2	G	H	H2	J	K	L	L2	L3	L4 Min	L4 Max	N	N2	N3
533 - 4 (Ø 14)	109	50	70	8	36,5	25	18	35	33,5	12	73	133	14	M8	148	98	112	23	58	Ø 6,5	Ø 5,5	
533 - 5 (Ø 20)	142	63	76	10,5	45	55,5	19	45	43	16	87	173	20	M10	192,5	133	147	29	79	Ø 10,5	Ø 8,5	Ø 6,7

534



MODEL NO	F1 (N)	F3 (N)	Fi	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
534 - 5 (□20x25)	12000	29000	30:1	50	2170

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli
Body Mounting Base: Horizontal, Casting

Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde ve kol mukavemetli GGG-60 döküm malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.
The body and arm are made of strong GGG-60 casting and phosphate coated for corrosion resistance
The mechanism parts are made of phosphate coated steel for corrosion resistance.



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MODEL NO	A	B	E	E2	E3	E4	E5	E6	E7	E8	F	F2	G	H	H2	J	J2	K	L	L2	L3	N	N2	N3	N4
534 - 5 (□20x25)	141,5	63	31	14	45	55,5	17	20	20	10	43	45	18,5	87	173	20	25	9	250,5	133	147	Ø 10,5	Ø 8,5	Ø 7	Ø 6

535-R-L



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli, Yandan Kollu
Body Mounting Base: Horizontal Base, Casted Body With Side Mounted Handle

Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde mukavemetli GGG-60 döküm malzemeden üretilmiş ve siyah elektro statik toz boya ile boyanmıştır.

Mil, yüksek aşınma direnci ve korozyon direnci için sert krom kaplı malzemeden üretilmiştir.
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

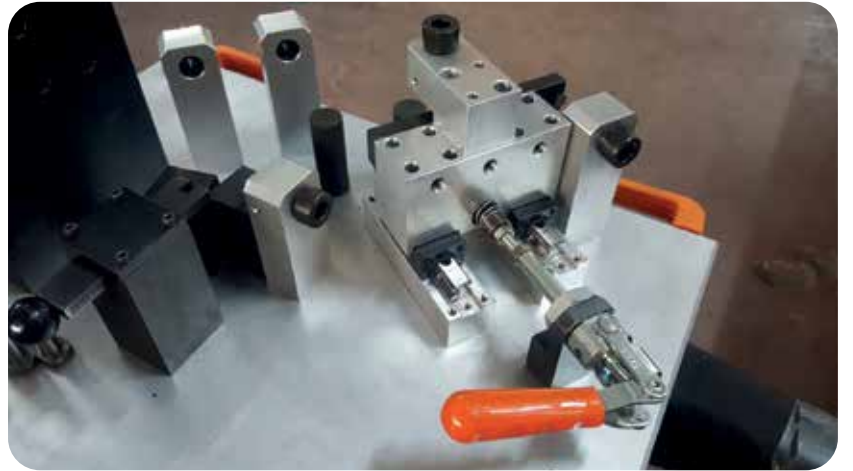
The products are strong and suited for heavy duty applications.

The body is made of strong GGG-60 casting and coated with black electrostatic powder paint.
The rod is made of hard chrome plated steel for high wear and corrosion resistance and the mechanism parts are made of galvanized steel for corrosion resistance.



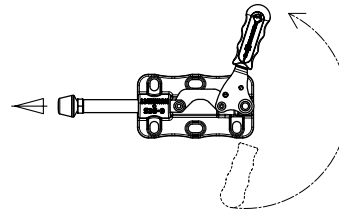
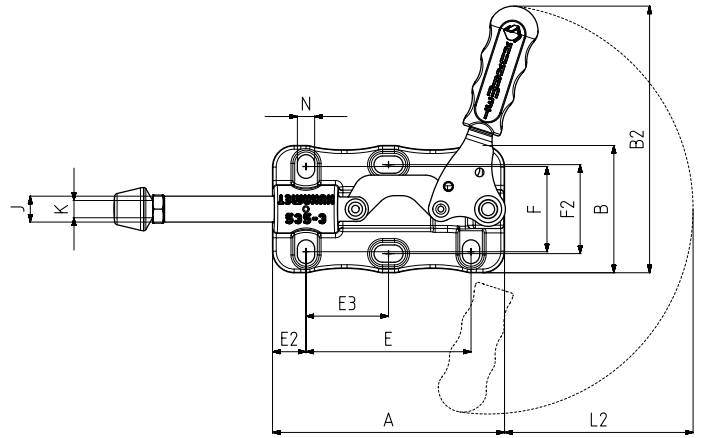
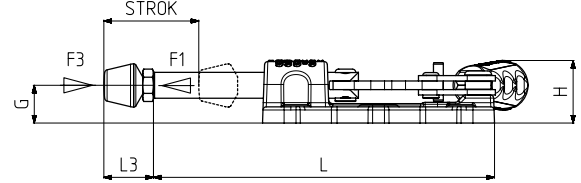
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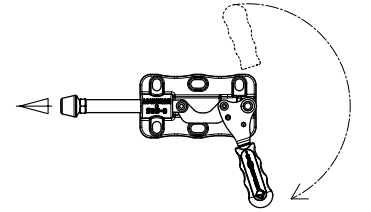


MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
			VERİM (YIELD) (F1:Fi)			
535 - 3 (Ø 12) - R	1500	1700	16:1	M8X50	43	630
535 - 3 (Ø 12) - L	1500	1700	16:1	M8X50	43	630
535 - 4 (Ø 16) - R	4500	4700	23:1	M10X70	52	1030
535 - 4 (Ø 16) - L	4500	4700	23:1	M10X70	52	1030

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



* SAG KOL
* RIGHT HANDLE (R)



* SOL KOL
* LEFT HANDLE (L)

MODEL NO	A	B	B2	E	E2	E3	F	F2	G	H	J	K	L	L2	L3 Min	L3 Max	N
535 - 3 (Ø 12) - R	107	59	124	76,5	15,5	38	39,5	41	17,5	30	12	M8	156	87	24	58	8 x 11
535 - 3 (Ø 12) - L	107	59	124	76,5	15,5	38	39,5	41	17,5	30	12	M8	156	87	24	58	8 x 11
535 - 4 (Ø 16) - R	130	71	157	75,5	18	38	47,5	41,5	20,5	35	16	M10	188	113	32	81	9 x 15
535 - 4 (Ø 16) - L	130	71	157	75,5	18	38	47,5	41,5	20,5	35	16	M10	188	113	32	81	9 x 15

536



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
536 - 3 (Ø 12)	2500	3700	16:1	M8X50	38	590
536 - 3 (Ø 14)	2500	4000	16:1	M8X50	38	610
536 - 4 (Ø 16)	4500	8100	23:1	M10X70	47	1030
536 - 4 (Ø 18)	4500	8800	23:1	M10X70	47	1060
536 - 5 (Ø 20)	7500	18450	30:1	M12X80	92	2870

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



**Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli
(180° Açılan Kol)**

Body Mounting Base: Horizontal, Casting
(180° opening handle)

Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde mukavemetli GGG-60 döküm malzemeden üretilmiş ve siyah elektro statik toz boya ile boyanmıştır.

Mil, yüksek aşınma direnci ve korozyon direnci için sert krom kaplı malzemeden üretilmiştir.
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

The products are strong and suited for heavy duty applications.

The body is made of strong GGG-60 casting and coated with black electrostatic powder paint.

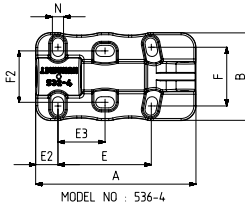
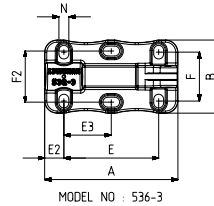
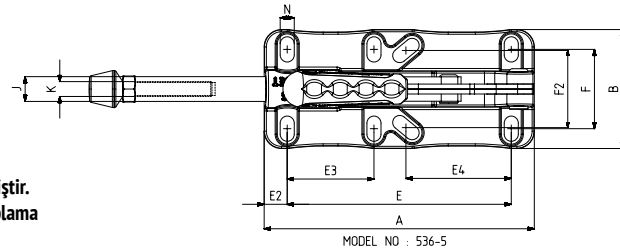
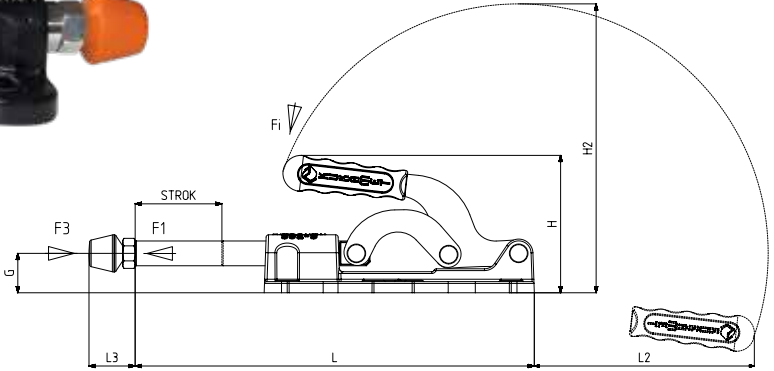
The rod is made of hard chrome plated steel for high wear and corrosion resistance and the mechanism parts are made of galvanized steel for corrosion resistance.



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MODEL NO	A	B	E	E2	E3	E4	F	F2	G	H	H2	J	K	L	L2	L3 Min	L3 Max	N
536 - 3 (Ø 12)	107	59	76,5	15,5	38	-	39,5	41	17,5	73	127	12	M8	156	91	24	58	8 x 11
536 - 3 (Ø 14)	107	59	76,5	15,5	38	-	39,5	41	17,5	73	127	14	M8	156	91	24	58	8 x 11
536 - 4 (Ø 16)	130	71	75,5	18	38	-	47,5	41,5	20,5	86	159	16	M10	188	117	32	81	9 x 15
536 - 4 (Ø 18)	130	71	75,5	18	38	-	47,5	41,5	20,5	86	159	18	M10	188	117	32	81	9 x 15
536 - 5 (Ø 20)	218	96	180,5	18,5	70	85	64	62,5	31,8	131	234	20	M12	322	169	39	94	11 x 20

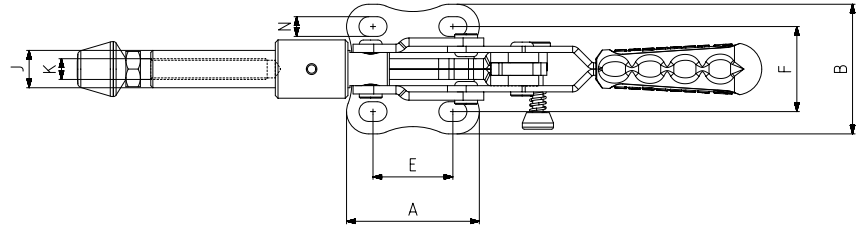
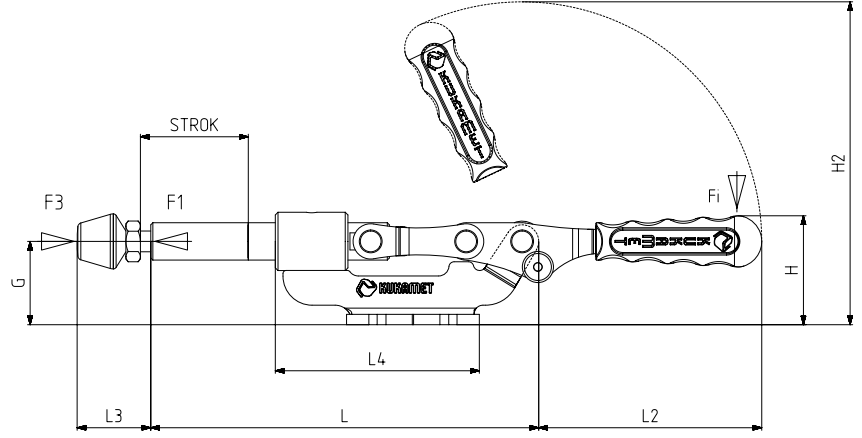
541-L



MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
541 - 4 - L-Ø18	4500	7200	23:1	M10 x 70	47	915

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ayak Tipi: Yatay Tabanlı - Ters Çalışan Kilitli
Body Mounting Base: Horizontal - Reverse
Operating - Locked



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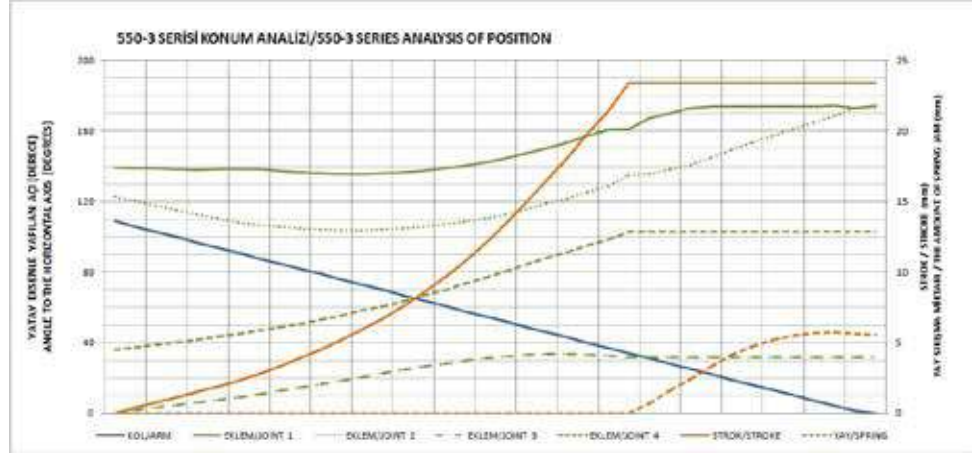
MODEL NO	A	B	E	F	G	H	H2	J	K	L	L2	L3 min.	L3 max.	L4	N
541 - 4 - L- Ø18	64	62	38,5	41	40	52,5	156	18	M10	186	107,5	32	81	98	9,5 x 13,5

551



MODEL NO	F1 (N)	F3 (N)	Fi	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
551 - 3	2500	3200	14:1	23	530

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ürün özellikleri ;

Otomatik mesafe ayarı sayesinde 16 mm kalınlığa kadar olan iş parçalarını baskı kuvveti değişmeden sıkıştırabilir.

Sıkma kuvveti mekanizma üzerinde bulunan ayar vidasından ayarlanabilir.

Product features:

The automatic distance adjustment property of this toggle clamp enables clamping of work pieces of up to 16 mm without any variation in the exerted force. The clamping force can be adjusted to your particular needs by turning the setscrew on the mechanism.

Ayak Tipi: Yatay, Alçak Tabanlı

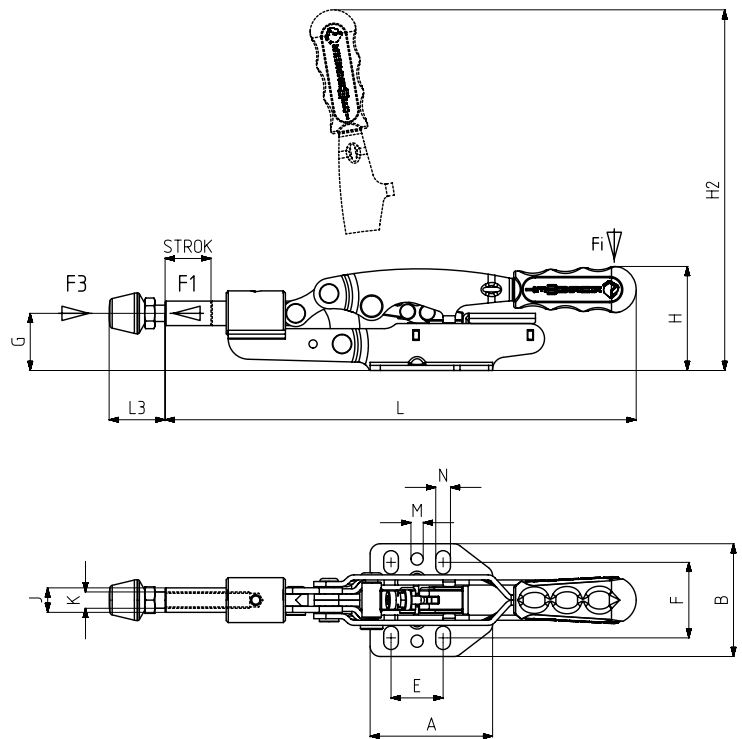
Body Mounting Base: Horizontal, Low Base



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MODEL NO	A	B	E	F	G	H	H2	J	K	L	L3 Min	L3 Max	M	N
551 - 3	60	55.5	25.5	37	28	51	187	12	M8	231	24	58	Ø6	7x11,5



MODEL NO	F1 (N)	F3 (N)	Fi	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
552 - 3	2500	3200	14:1	23	555

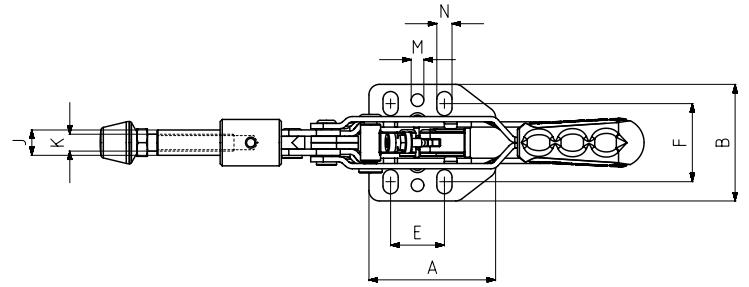
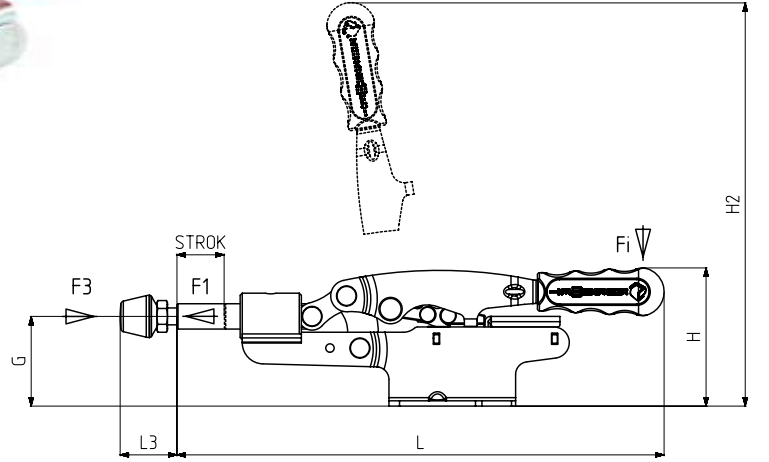
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay, Yüksek Tabanlı Body Mounting Base: Horizontal, High Base

Ürün özellikleri ;
Otomatik mesafe ayarı sayesinde 16 mm kalınlığa kadar olan iş parçalarını baskı kuvveti değişmeden sıkıştırabilir.
Sıkma kuvveti mekanizma üzerinde bulunan ayar vidasından ayarlanabilir.

Product features:
The automatic distance adjustment property of this toggle clamp enables clamping of work pieces of up to 16 mm without any variation in the exerted force. The clamping force can be adjusted to your particular needs by turning the setscrew on the mechanism.



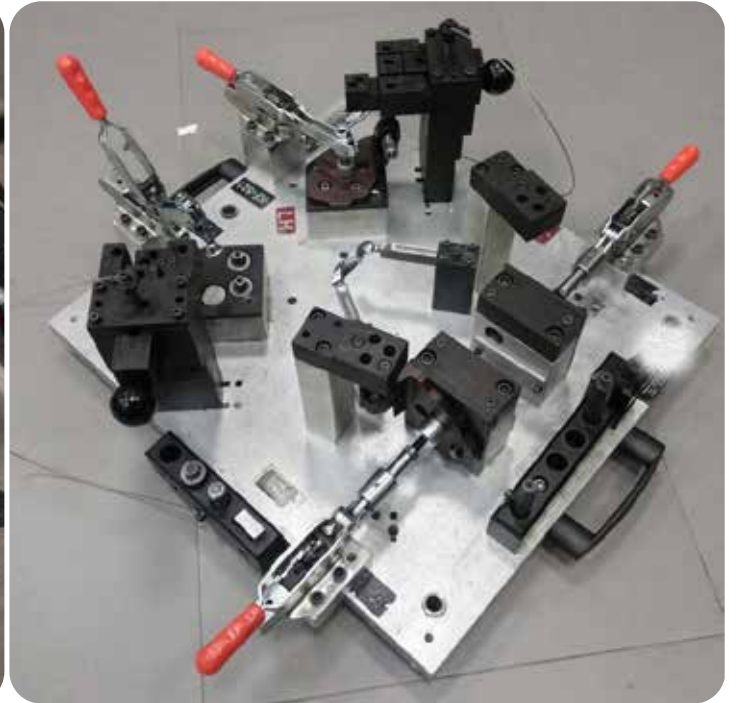
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MODEL NO	A	B	E	F	G	H	H2	J	K	L	L3 Min	L3 Max	M	N
552 - 3	60	55.5	25.5	37	42.5	65.5	201,5	12	M8	231	24	58	Ø6	7x11,5

Nem, su ve diğer dış etkenlerden dolayı oluşan korozyon ve asitlere karşı dayanıklı bağlantı elemanları

Corrosion and acid resistant toggle clamps
due to moisture, water and other external factors



**PNÖMATİK
BAĞLANTI ELEMANLARI**
PNEUMATIC
TOGGLE CLAMPS

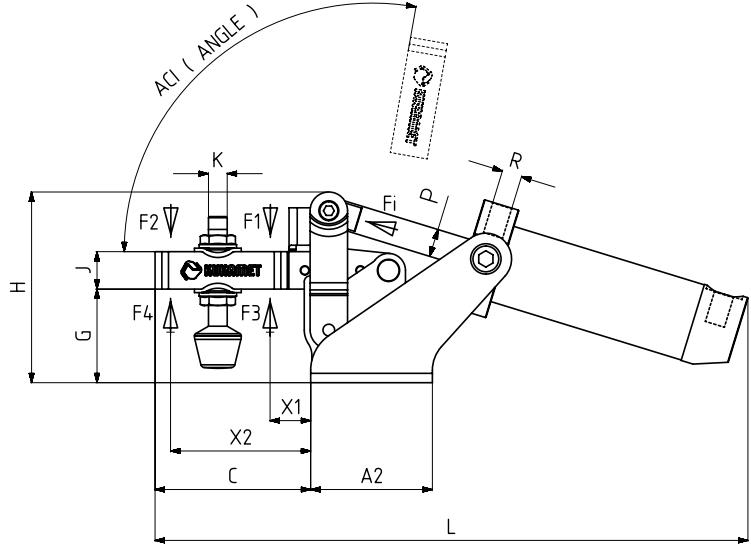


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fast and strong heroes of production...

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F1 (N)	Vn (dm ³)	AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ± %2)	BAR
611 - 1 - Q16	600	400	1000	680	120	0,09	95°	275	6
611 - 1 - Q20	750	500	1000	680	190	0,14	95°	360	6
611 - 2	1200	700	1400	925	300	0,25	95°	535	6
611 - 3	2000	1400	2500	1560	500	0,51	95°	860	6
611 - 4	3000	2000	3300	2200	750	1,04	95°	1690	6
611 - 5	4500	2500	5000	3000	1100	2	95°	3090	6

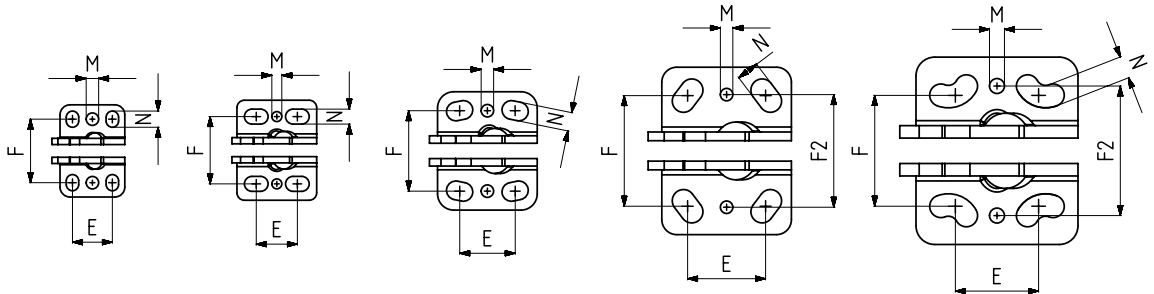
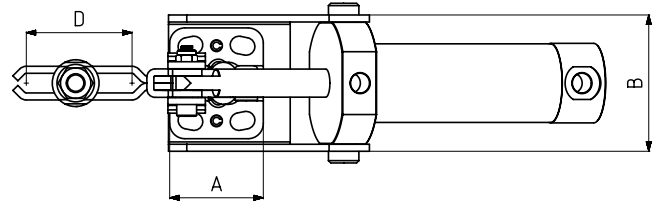
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Ön Bağlantılı Body Mounting Base: Horizontal, Tied Front

Pistonlar çift etkili, manyetik ve yastıklıdır
Pneumatic cylinders are double acting, magnetic and cushioning



MODEL NO : 611-1

MODEL NO : 611-2

MODEL NO : 611-3

MODEL NO : 611-4

MODEL NO : 611-5



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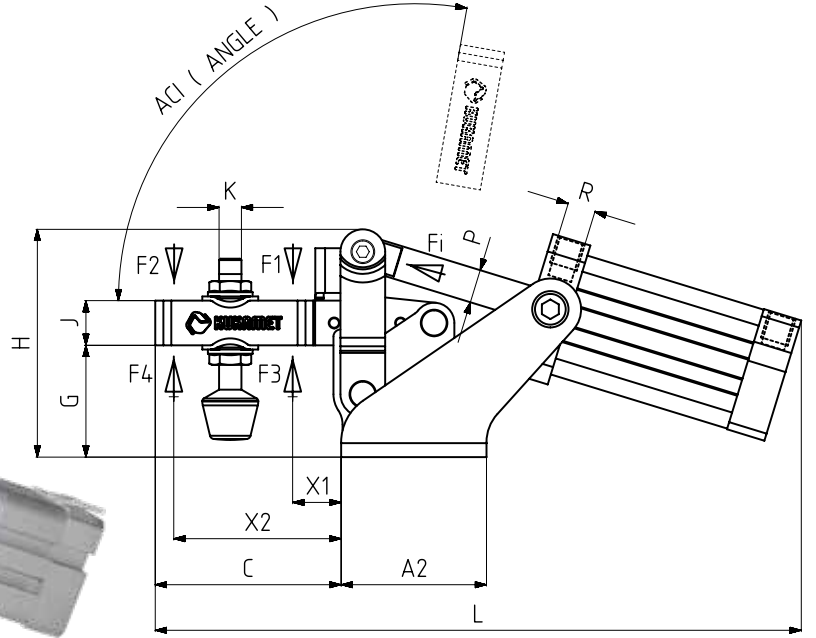
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MODEL NO	A	A2	B	C	D	E	F	F2	G	H	J	K	L	M	N	X1	X2	P	R	PİSTON Ø
611 - 1 - Q16	26	34	44	42	26	16	25,5	25,5	25	52	10	M5	185	Ø5	5 x 6,5	16	32	Ø 6	M5	16
611 - 1 - Q20	26	34	44	44	26	16	25,5	25,5	25	52	10	M5	192	Ø5	5 x 6,5	16	32	Ø 8	G1/8	20
611 - 2	32	42	51	60	42	16,5	27	27	29	61	13	M6	225	Ø4	6 x 9,5	18	48	Ø 10	G1/8	25
611 - 3	40	52	58	66,5	42	22,5	32,3	32,3	40	81,5	16	M 8	253,5	Ø5	7,5 x 10,5	25	52	Ø 12	G1/8	32
611 - 4	52	95	77	98,5	67	31,5	44,5	45,2	50	104	20	M10	323	Ø5	9 x 14,5	32	80	Ø 16	G1/8	40
611 - 5	65	134	92	124	88	33,5	44,5	52	62	128	25	M12	399	Ø6	9 x 19,5	36	101	Ø 20	G1/8	50

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
612 - 2	1200	700	1400	925	300	0,25	95°	535	6
612 - 3	2000	1400	2500	1560	500	0,51	95°	860	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



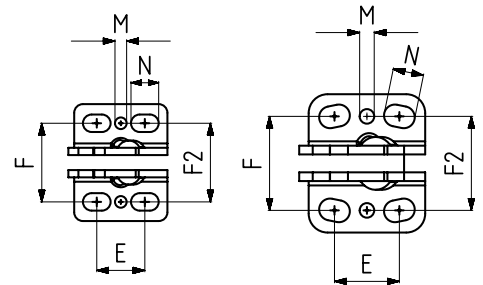
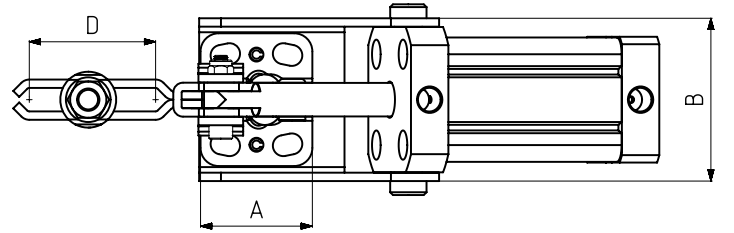
Ayak Tipi: Yatay Tabanlı, Ön Bağlantılı
 Body Mounting Base: Horizontal, Tied Front

Sensör Kanallı - Kare Pistonlu
 With Square Piston and Sensor Slot

Pistonlar çift etkili, manyetik ve yastıklıdır.
 Pneumatic cylinders are double acting, magnetic and cushioning



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MODEL NO : 612-2

MODEL NO : 612-3

MODEL NO	A	A2	B	C	D	E	F	F2	G	H	J	K	L	M	N	X1	X2	P	R	PİSTON Ø
612 - 2	32	42	51	60	42	16,5	27	27	29	61	13	M6	203	Ø4	6 x 9,5	18	48	Ø 10	G1/8	25
612 - 3	40	52	58	66,5	42	22,5	32,3	32,3	40	81,5	16	M 8	231	Ø5	7,5 x 10,5	25	52	Ø 12	G1/8	32

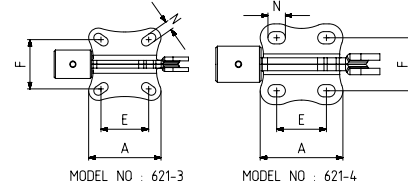
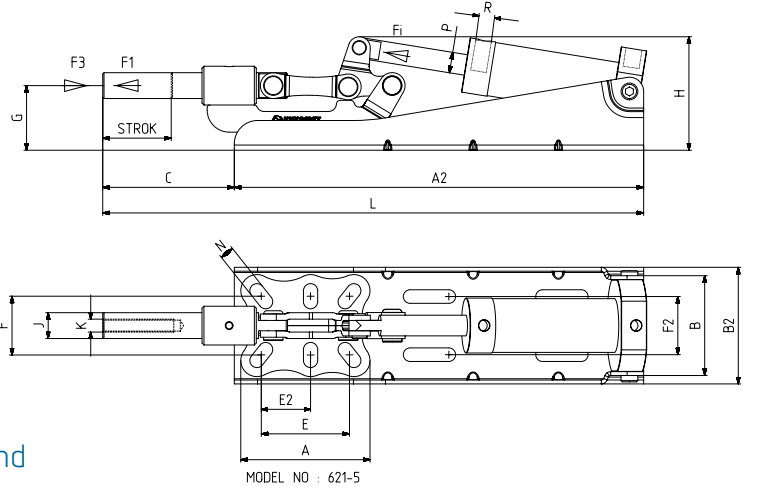
621



MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
621 - 3 (Ø 12)	1500	2960	300	0.25	23	1140	6
621 - 3 (Ø 14)	2500	3200	500	0.51	23	1310	6
621 - 4 (Ø 16)	4500	6650	750	1.04	33	2230	6
621 - 4 (Ø 18)	4500	7200	750	1.04	33	2260	6
621 - 5 (Ø 20)	7500	15000	1100	2	42	3860	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Kaynaklı, Arka Bağlantılı

Body Mounting Base: Horizontal With Welding, Tied Behind



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Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning

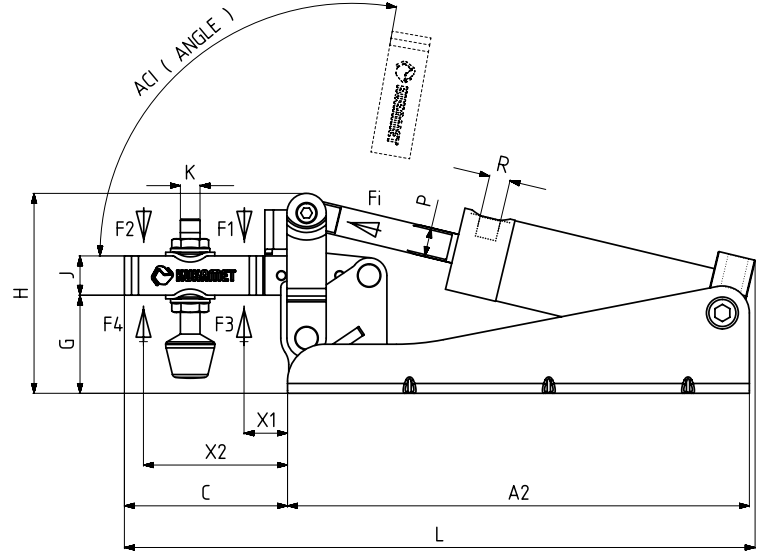


MODEL NO	A	A2	B	B2	C	E	E2	F	F2	G	H	J	K	L	N	P	R	PİSTON Ø
621 - 3 (Ø 12)	56	226	51	68	70	37	-	38	35	35	65	12	M8	296	7 x 12	Ø 10	G1/8	25
621 - 3 (Ø 14)	56	243	58	68	70	37	-	38	35	35	71.5	14	M8	314	7 x 12	Ø 12	G1/8	32
621 - 4 (Ø 16)	64	289	77	78	84	38,5	-	41	41	43	89	16	M10	375	9,5x13,5	Ø 16	G1/8	40
621 - 4 (Ø 18)	64	289	77	78	84	38,5	-	41	41	43	89	18	M10	375	9,5x13,5	Ø 16	G1/8	40
621 - 5 (Ø 20)	100	355	79	92	101	68	38	45,5	45	51	105	20	M12	460	11 x 22	Ø 20	G1/8	50

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
631 - 1	750	500	1000	680	190	0,14	95°	470	6
631 - 2	1200	700	1400	925	300	0,25	95°	765	6
631 - 3	2000	1400	2500	1560	500	0,51	95°	1100	6
631 - 4	3000	2000	3300	2200	750	1,04	95°	2020	6
631 - 5	4500	2500	5000	3000	1100	2	95°	3610	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

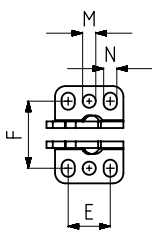
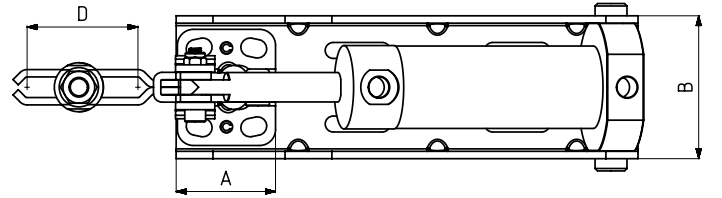
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



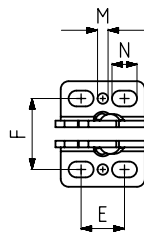
Ayak Tipi: Yatay Tabanlı, Arka Bağlantılı

Body Mounting Base: Horizontal, Tied Behind

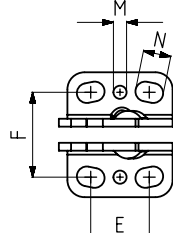
Pistonlar çift etkili, manyetik ve yastıklıdır.
 Pneumatic cylinders are double acting, magnetic and cushioning.



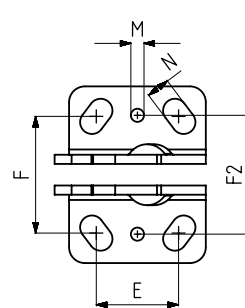
MODEL NO: 631-1



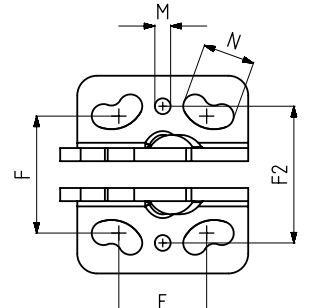
MODEL NO :631-2



MODEL NO :631-3



MODEL NO :631-4



MODEL NO :631-5



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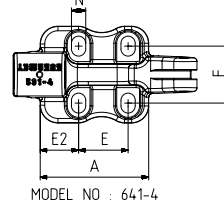
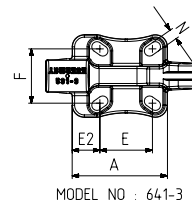
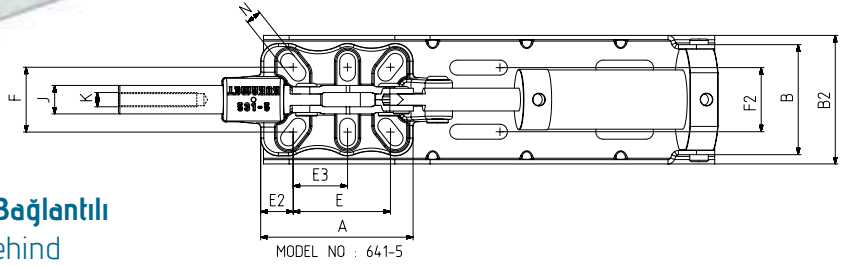
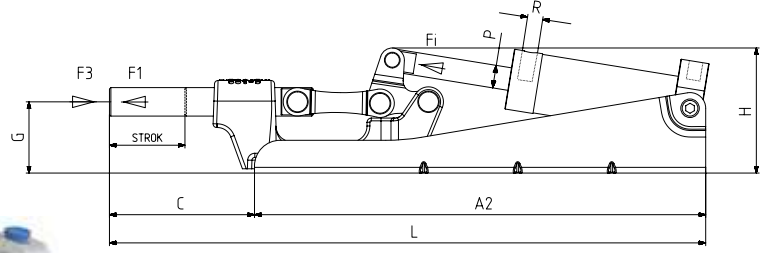
MODEL NO	A	A2	B	C	D	E	F	F2	G	H	J	K	L	M	N	X1	X2	P	R	PİSTON Ø
631 - 1	26	151,5	44	42	26	16	25,5	25,5	25	52	10	M5	194,5	Ø5	5 x 6,5	16	32	Ø 8	G1/8	20
631 - 2	32	171	51	60	42	16,5	27	27	29	61	13	M6	232	Ø4	6 x 9,5	18	48	Ø 10	G1/8	25
631 - 3	40	188	58	66,5	42	22,5	32,3	32,3	40	81	16	M 8	257	Ø5	7,5 x 10,5	25	52	Ø 12	G1/8	32
631 - 4	52	227	77	98,5	67	31,5	44,5	45,2	50	104	20	M10	330	Ø5	9 x 14,5	32	80	Ø 16	G1/8	40
631 - 5	65	275	92	125	88	33,5	44,5	52	62	128	25	M12	400	Ø6	9 x 19,5	36	101	Ø 20	G1/8	50

MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
641 - 3 (Ø 12)	1500	3700	300	0.25	23	1370	6
641 - 3 (Ø 14)	2500	4000	500	0.51	23	1550	6
641 - 4 (Ø 16)	4500	8100	750	1.04	33	2560	6
641 - 4 (Ø 18)	4500	8800	750	1.04	33	2570	6
641 - 5 (Ø 20)	7500	18450	1100	2	42	4280	6

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

641



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli, Arka Bağlantılı
Body Mounting Base: Horizontal, Casting, Tied Behind



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Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning.

MODEL NO	A	A2	B	B2	C	E	E2	E3	F	F2	G	H	J	K	L	N	P	R	PİSTON Ø
641 - 3 (Ø 12)	67	226	51	68	70	37	19,5	-	38	35	35	65	12	M8	296	7 x 12	Ø 10	G1/8	25
641 - 3 (Ø 14)	67	243	58	68	70	37	19,5	-	38	35	35	72	14	M8	314	7 x 12	Ø 12	G1/8	32
641 - 4 (Ø 16)	76	289	77	78	84	34,5	27	-	40	41	42	87	16	M10	375	10x14	Ø 16	G1/8	40
641 - 4 (Ø 18)	76	289	77	78	84	34,5	27	-	40	41	42	87	18	M10	375	10x14	Ø 16	G1/8	40
641 - 5 (Ø 20)	107	355	79	92	101	68	23	38	45,5	45	51	105	20	M12	460	11 x 22	Ø 20	G1/8	50



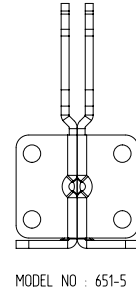
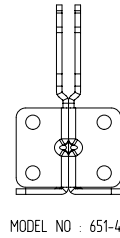
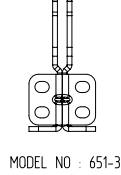
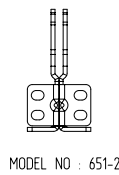
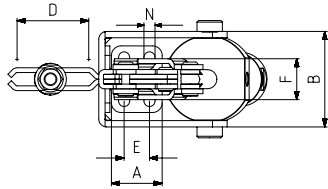
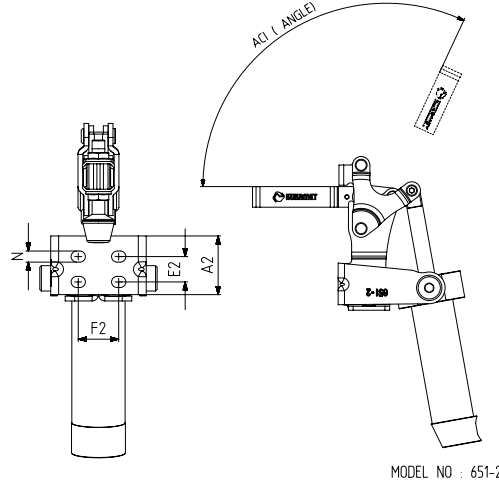
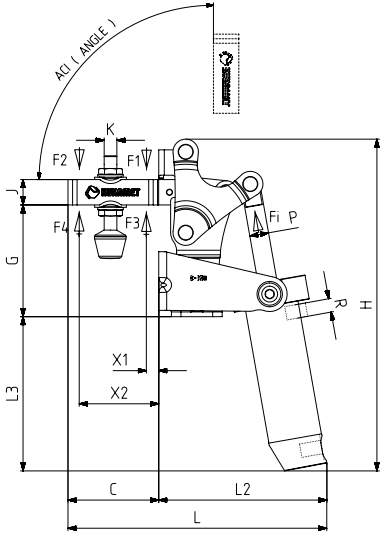
Ayak Tipi: Dik Tabanlı
Body Mounting Base: Vertical

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F1 (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
651 - 2	1200	700	1400	925	300	0.25	115 °	570	6
651 - 3	2000	1400	2500	1560	500	0.51	90 °	910	6
651 - 4	3000	2000	3300	2200	750	1.04	90 °	1945	6
651 - 5	4500	2500	5000	3000	1100	2	90 °	3678	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

NOT : 651-2 115° açılıyor
Note : 651-2 jaws opens 115 degrees



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Pistonlar çift etkili, manyetik ve yastıklalıdır.
Pneumatic cylinders are double acting, magnetic and cushioning

MODEL NO	A	A2	B	C	D	E	E2	F	F2	G	H	J	K	L	L2	L3	N	X1	X2	P	R	PİSTON Ø
651 - 2	26	26	51	54	42	12,5	12,5	27	27	65	180	13	M6	146	92	82	6x8	12	42	Ø 10	G1/8	25
651 - 3	32	32	60	57	42	16	16	25,5	25,5	70,5	210	16	M8	164	106	98	7x9	15	42	Ø 12	G1/8	32
651 - 4	50	50	79	89	67	32	32	45	45	100	255	20	M10	230	141	101	9	22	70	Ø 16	G1/8	40
651 - 5	65	65	91	113	94	41,5	41,5	57	57	130	311	25	M12	286	172	114	11	25	91	Ø 20	G1/8	50



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
651 - 2 - H	1200	700	1400	925	300	0,25	115 °	620	6
651 - 3 - H	2000	1400	2500	1560	500	0,51	90 °	985	6
651 - 4 - H	3000	2000	3300	2200	750	1,04	90 °	2100	6
651 - 5 - H	4500	2500	5000	3000	1100	2	90 °	3900	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

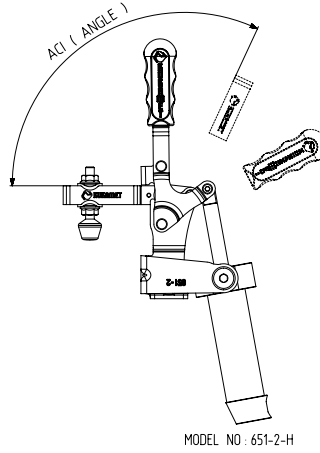
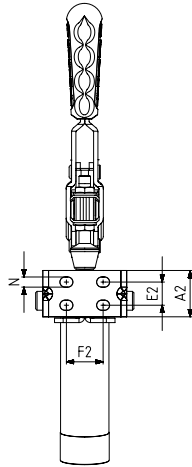
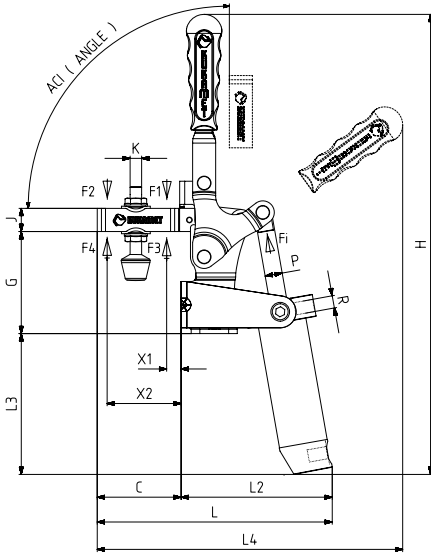
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn ,AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Ayak Tipi: Dik Tabanlı, Kollu

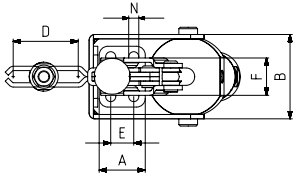
Body Mounting Base: Vertical and with handle

NOT : 651-2-H 115° açılıyor

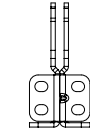
Note : 651-2-H jaws opens 115 degrees



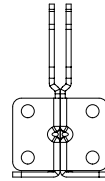
MODEL NO : 651-2-H



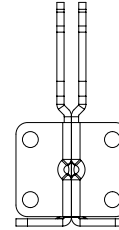
MODEL NO : 651-2-H



MODEL NO : 651-3-H



MODEL NO : 651-4-H



MODEL NO : 651-5-H



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Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning

MODEL NO	A	A2	B	C	D	E	E2	F	F2	G	H	J	K	L	L2	L3	L4	N	X1	X2	P	R	PİSTON Ø
651 - 2 - H	26	26	51	54	42	12,5	12,5	27	27	65	261	13	M6	146	92	82	174	6x8	12	42	Ø 10	G1/8	25
651 - 3 - H	32	32	60	57	42	16	16	25,5	25,5	70,5	318	16	M8	164	106	98	212	7x9	15	42	Ø 12	G1/8	32
651 - 4 - H	50	50	79	89	67	32	32	45	45	100	393	20	M10	230	141	101	287	9	22	70	Ø 16	G1/8	40
651 - 5 - H	65	65	91	113	94	41,5	41,5	57	57	130	447	25	M12	286	172	114	333	11	25	91	Ø 20	G1/8	50



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
652 - 2	1200	700	1400	925	300	0,25	115 °	570	6
652 - 3	2000	1400	2500	1560	500	0,51	90 °	910	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Ayak Tipi: Dik Tabanlı

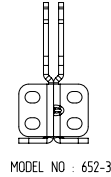
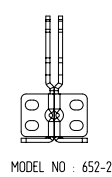
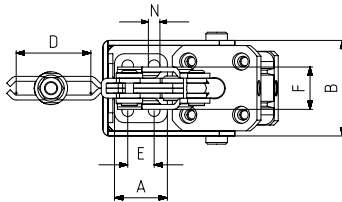
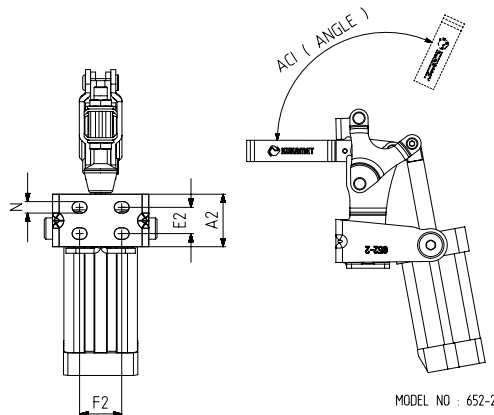
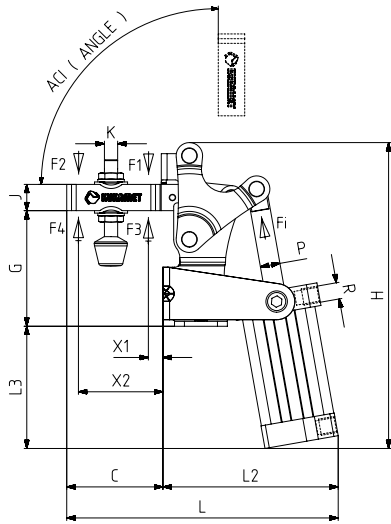
Body Mounting Base: Vertical

Sensör Kanallı - Kare Pistonlu

With Square Piston and Sensor Slot

NOT : 652-2 115° açılıyor

Note : 652-2 jaws opens 115 degrees



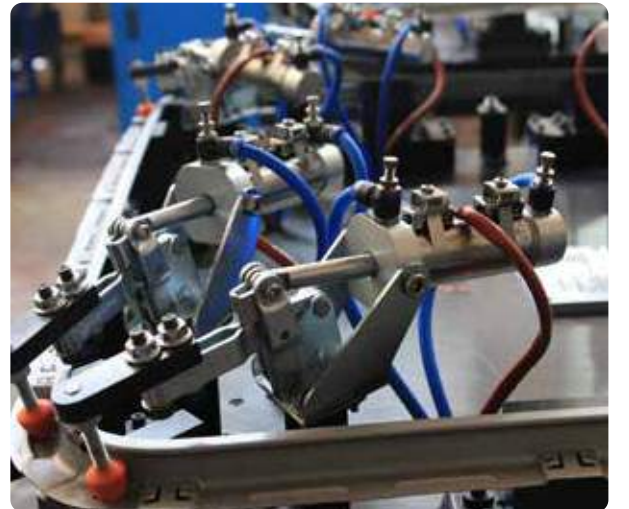
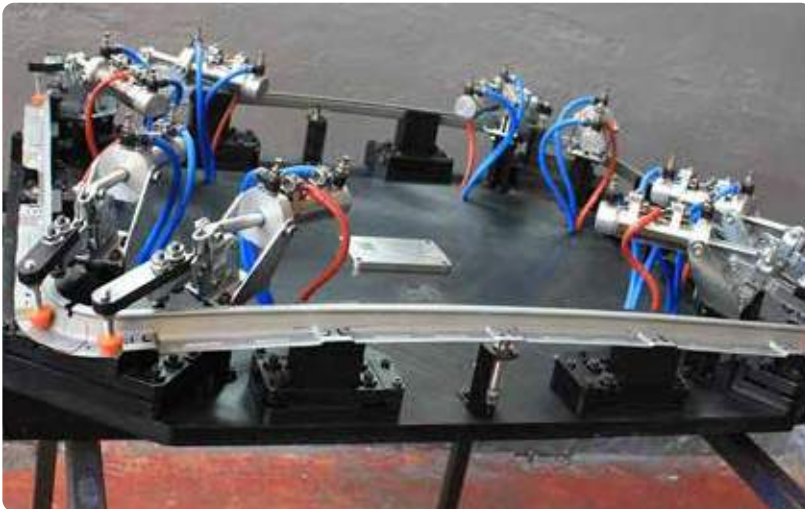
651
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Sayfa/Page: 38



Pistonlar çift etkili, manyetik ve yastıklıdır

Pneumatic cylinders are double acting, magnetic and cushioning

MODEL NO	A	A2	B	C	D	E	E2	F	F2	G	H	J	K	L	L2	L3	N	X1	X2	P	R	PİSTON Ø
652 - 2	26	26	51	54	42	12,5	12,5	27	27	65	156	13	M6	145	91	59	6x8	12	42	Ø 10	G1/8	25
652 - 3	32	32	60	57	42	16	16	25,5	25,5	70,5	188	16	M8	165	108	76	7x9	15	42	Ø 12	G1/8	32

661



MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
661 - 3 (Ø 12)	1500	2960	300	0.25	23	880	6
661 - 3 (Ø 14)	2500	3200	500	0.51	23	1026	6
661 - 4 (Ø 16)	4500	6650	750	1.04	33	1816	6
661 - 4 (Ø 18)	4500	7200	750	1.04	33	1836	6
661 - 5 (Ø 20)	7500	15000	1100	2	42	3278	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Kaynaklı, Ön Bağlantılı

Body Mounting Base: Horizontal With Welding, Tied Front



621

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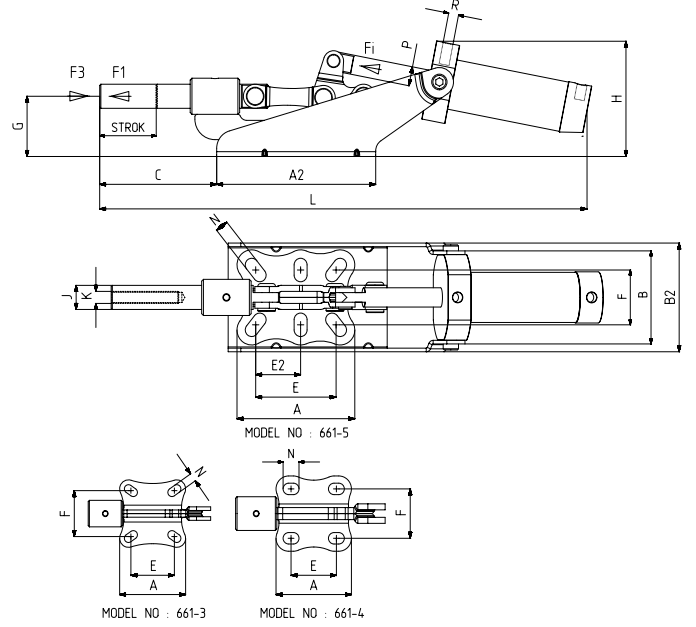


531

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Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning



MODEL NO	A	A2	B	B2	C	E	E2	F	G	H	J	K	L	N	P	R	PİSTON Ø
661 - 3 (Ø 12)	56	90	51	68	70	37	-	38	35	72	12	M8	292	7 x 12	Ø 10	G1/8	25
661 - 3 (Ø 14)	56	100	58	68	70	37	-	38	35	79	14	M8	312	7 x 12	Ø 12	G1/8	32
661 - 4 (Ø 16)	64	115	77	78	84	38,5	-	41	43	100	16	M10	372	9.5 x 13.5	Ø 16	G1/8	40
661 - 4 (Ø 18)	64	115	77	78	84	38,5	-	41	43	100	18	M10	372	9.5 x 13.5	Ø 16	G1/8	40
661 - 5 (Ø 20)	100	170	79	92	101	68	38	45,5	51	110	20	M12	456	11 x 22	Ø 20	G1/8	50

662



MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
662 - 3 (Ø 12)	1500	2960	300	0.25	23	880	6
662 - 3 (Ø 14)	2500	3200	500	0.51	23	1026	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Kaynaklı, Ön Bağlantılı

Body Mounting Base: Horizontal With Welding, Tied Front

Sensör Kanallı - Kare Pistonlu

With Square Piston and Sensor Slot



661

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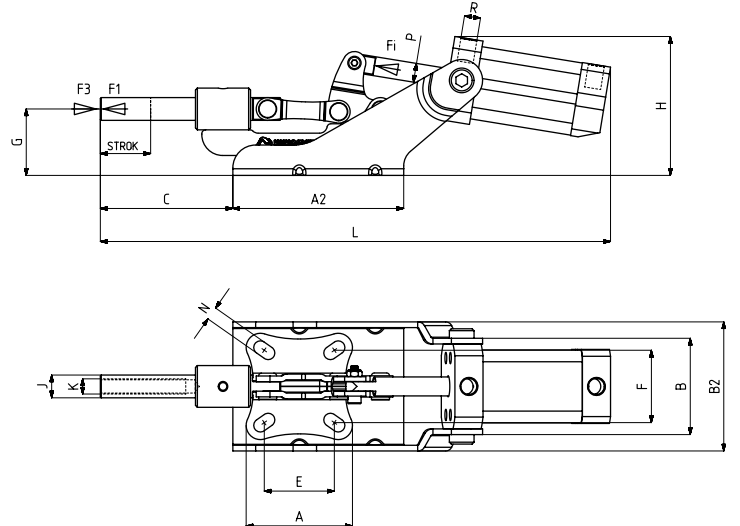


534

Sayfa/Page: 62

Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning



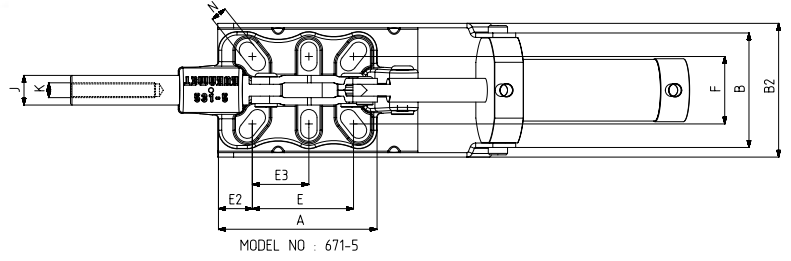
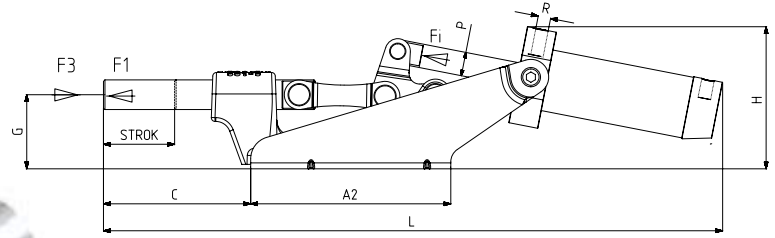
MODEL NO	A	A2	B	B2	C	E	F	G	H	J	K	L	N	P	R	PİSTON Ø
662 - 3 (Ø 12)	56	90	51	68	70	37	38	35	73	12	M8	268	7 x 12	Ø 10	G1/8	25
662 - 3 (Ø 14)	56	100	58	68	70	37	38	35	80	14	M8	288	7 x 12	Ø 12	G1/8	32

MODEL NO	F1 (N)	F3 (N)	Fİ (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
671 - 3 (Ø 12)	1500	3700	300	0.25	23	1090	6
671 - 3 (Ø 14)	2500	4000	500	0.51	23	1250	6
671 - 4 (Ø 16)	4500	8100	750	1.04	33	2130	6
671 - 4 (Ø 18)	4500	8800	750	1.04	33	2140	6
671 - 5 (Ø 20)	7500	18450	1100	2	42	3640	6

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fİ : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

671



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli, Ön Bağlantılı
 Body Mounting Base: Horizontal, Casting, Tied Front



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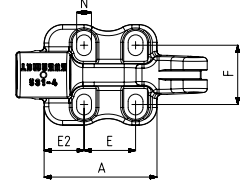
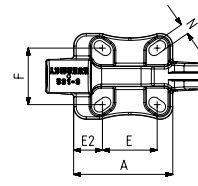
662

Sayfa/Page: 78



531

Sayfa/Page: 59



Pistonlar çift etkili, manyetik ve yastıklıdır

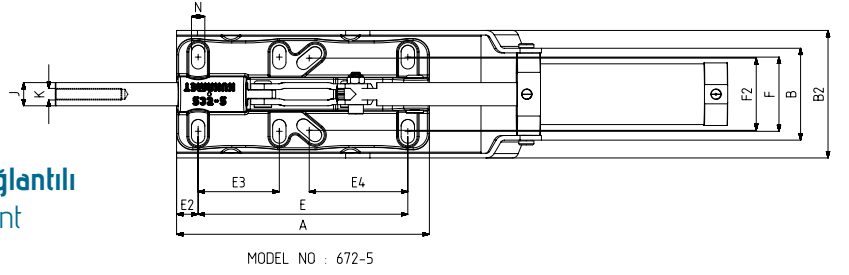
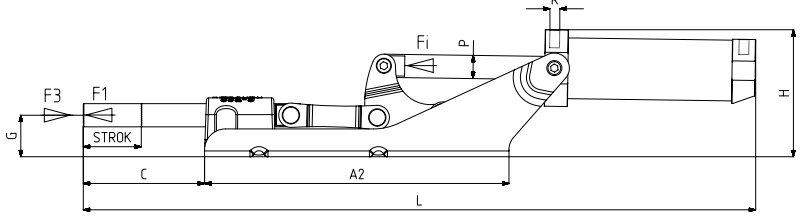
Pneumatic cylinders are double acting, magnetic and cushioning.

MODEL NO	A	A2	B	B2	C	E	E2	E3	F	G	H	J	K	L	N	P	R	PISTON Ø
671 - 3 (Ø 12)	67	90	51	68	70	37	19,5	-	38	35	72	12	M8	292	7 x 12	Ø 10	G1/8	25
671 - 3 (Ø 14)	67	100	58	68	70	37	19,5	-	38	35	79	14	M8	312	7 x 12	Ø 12	G1/8	32
671 - 4 (Ø 16)	76	115	77	78	84	34,5	27	-	40	42	100	16	M10	372	10 x 14	Ø 16	G1/8	40
671 - 4 (Ø 18)	76	115	77	78	84	34,5	27	-	40	42	100	18	M10	372	10 x 14	Ø 16	G1/8	40
671 - 5 (Ø 20)	107	170	79	92	101	68	23	38	45,5	51	110	20	M12	456	11 x 22	Ø 20	G1/8	50

672



MODEL NO	F1 (N)	F3 (N)	Fİ (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%)	BAR
672 - 5 (Ø 20)	7500	18450	1100	2	95	5260	6
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fİ : UYGULAMA KUVVETİ (APPLIED FORCE)							
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm ³ AT 6 BAR)							



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli, Ön Bağlantılı
Body Mounting Base: Horizontal, Casting, Tied Front



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MODEL NO	A	A2	B	B2	C	E	E2	E3	E4	F	F2	G	H	J	K	L	N	P	R	PİSTON Ø
672 - 5 (Ø 20)	218	262,5	79	110	105	180,5	18,5	70	85	64	62,5	36	110	20	M12	578	11,5x20,5	Ø 20	G1/8	50



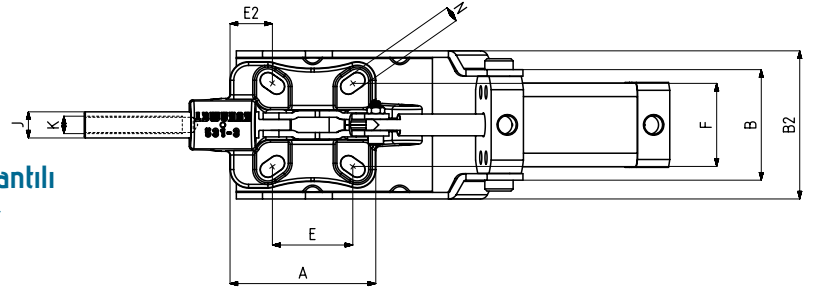
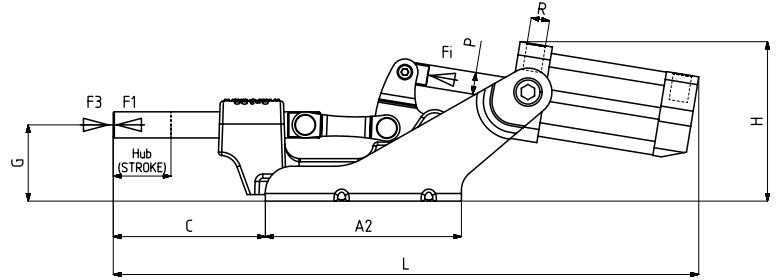
Pistonlar çift etkili, manyetik ve yastıklamalıdır
Pneumatic cylinders are double acting, magnetic and cushioning



MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
673 - 3 (Ø 12)	1500	3700	300	0,25	23	1090	6
673 - 3 (Ø 14)	2500	4000	500	0,51	23	1250	6

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli, Ön Bağlantılı
Body Mounting Base: Horizontal, Casting, Tied Front

Sensör Kanallı - Kare Pistonlu
With Square Piston and Sensor Slot



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Sayfa/Page: 61



535-R-L
Sayfa/Page: 63



Pistonlar çift etkili, manyetik ve yastıklıdır.
Pneumatic cylinders are double acting, magnetic and cushioning

MODEL NO	A	A2	B	B2	C	E	E2	F	G	H	J	K	L	N	P	R	PİSTON Ø
673 - 3 (Ø 12)	67	90	51	68	70	37	19,5	38	35	73	12	M8	268	7 x 12	Ø 10	G1/8	25
673 - 3 (Ø 14)	67	100	58	68	70	37	19,5	38	35	80	14	M8	288	7 x 12	Ø 12	G1/8	32

new
NOT : Pnömatik ürünlerin C1, C2, C3 lama boylarıdır.
Note : C1,C2,C3 is the jaws length of the pneumatic products
NOT : Pnömatik ürünlerin teknik detayları 70, 71, 73, 75, 76 ve 77 numaralı sayfalarda mevcuttur.
Note : Technical details of pneumatic products are available at pages 70, 71, 73, 75, 76 and 77
611-D


MODEL NO	C1	C2	C3
611 - 1 - Ø16-D	44	94	144
611 - 1 - Ø20-D	44	94	144
611 - 2-D	62	112	162
611 - 3-D	67	117	167
611 - 4-D	100	150	200
611 - 5-D	130	180	230


612-D


MODEL NO	C1	C2	C3
612 - 2-D	62	112	162
612 - 3-D	67	117	167


631-D


MODEL NO	C1	C2	C3
631 - 1-D	44	94	144
631 - 2-D	62	112	162
631 - 3-D	67	117	167
631 - 4-D	100	150	200
631 - 5-D	130	180	230


**Ayak Tipi: Yatay Tabanlı,
Ön Bağlantılı**

 Body Mounting Base:
Horizontal, Tied Front

**Ayak Tipi: Yatay Tabanlı,
Ön Bağlantılı**

 Body Mounting Base:
Horizontal, Tied Front

**Ayak Tipi: Yatay Tabanlı,
Arka Bağlantılı**

 Body Mounting Base:
Horizontal, Tied Behind

651-D


MODEL NO	C1	C2	C3
651 - 2-D	62	112	162
651 - 3-D	67	117	167
651 - 4-D	100	150	200
651 - 5-D	130	180	230


651-H-D


MODEL NO	C1	C2	C3
651 - 2 - H-D	62	112	162
651 - 3 - H-D	67	117	167
651 - 4 - H-D	100	150	200
651 - 5 - H-D	130	180	230


652-D


MODEL NO	C1	C2	C3
652 - 2-D	62	112	162
652 - 3-D	67	117	167


Ayak Tipi: Dik Tabanlı

Body Mounting Base: Vertical

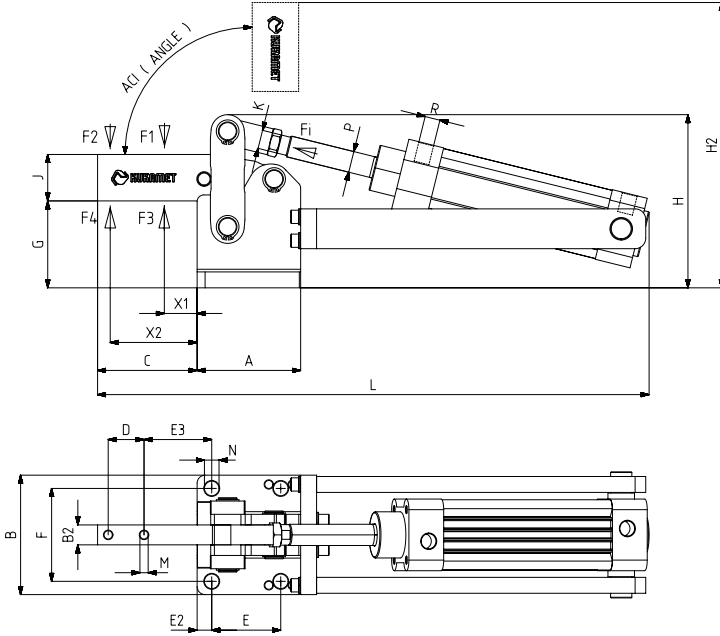
Ayak Tipi: Dik Tabanlı, Kollu

 Body Mounting Base:
Vertical and with handle

Ayak Tipi: Dik Tabanlı

Body Mounting Base: Vertical

681



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fİ (N)	Vn (dm³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
681 - 4	2500	1800	9000	6000	750	1.28	90°	5565	6
681 - 6	4000	2400	18000	12000	1150	2.5	90°	9660	6
681 - 8	6500	4000	30000	20000	1850	5.13	90°	20475	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fİ : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı Body Mounting Base: Horizontal

Pistonlar çift etkili, manyetik ve yastıklıdır
Pneumatic cylinders are double acting, magnetic and cushioning



681-M
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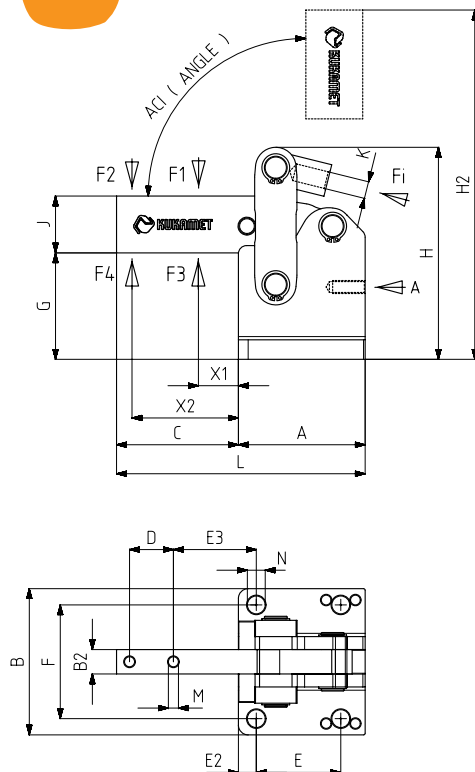
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Sayfa/Page: 114

MODEL NO	A	B	B2	C	D	E	E2	E3	F	G	H	H2	J	K	L	M	N	X1	X2	P	R	PİSTON Ø	PİSTON STROK
681 - 4	77	90	15	75	27	52	10	47	70	65,5	131	216	35	M12X1,25	416	6,2	11	18	64	Ø 16	G1/4	40	80
681 - 6	93	105	20	85	26	55	11	54	83	71	158	249	40	M16X1,50	483	8,2	12,5	18	69	Ø 20	G1/4	50	100
681 - 8	125	145	30	115	40	80	15	67	115	94	212	336	60	M16X1,50	594	12,2	16,5	18	92	Ø 20	G3/8	63	125

681-M

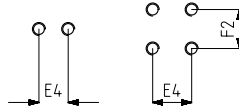


MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fİ (N)	Vn (dm³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
681-4-M	2500	1800	9000	6000	750	1,28	90°	2800	6
681-6-M	4000	2400	18000	12000	1150	2,5	90°	4600	6
681-8-M	6500	4000	30000	20000	1850	5,13	90°	11300	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fİ : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

VIEW A



Ayak Tipi: Yatay Tabanlı Body Mounting Base: Horizontal

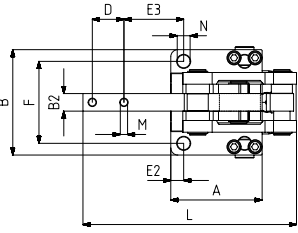
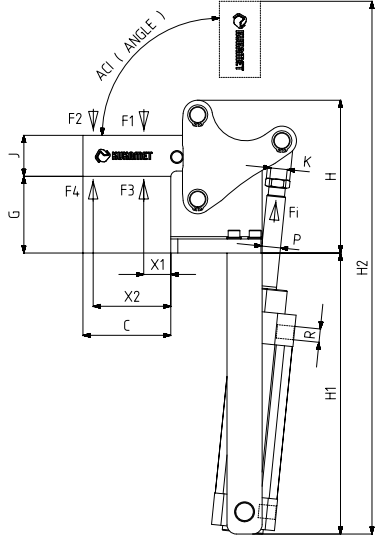


681
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MODEL NO	A	B	B2	C	D	E	E2	E3	E4	F	F2	G	H	H2	J	K	L	M	N	X1	X2	P	R	PİSTON Ø	PİSTON STROK
681-4-M	77	90	15	75	27	52	10	47	18	70	-	65,5	131	215,5	35	M12X1,25	152	6,2	11	18	64	16	G1/4	40	80
681-6-M	93	105	20	85	26	55	11	54	24	83	24	71	158	249	40	M16X1,50	178	8,2	12,5	18	69	20	G1/4	50	100
681-8-M	125	145	30	115	40	80	15	67	34	115	40	94	212	336	60	M16X1,50	240	12,2	16,5	18	92	20	G3/8	63	125



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F1 (N)	Vn (dm³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
682 - 4	2500	1800	9000	6000	750	1.28	90°	5590	6
682 - 6	4000	2400	18000	12000	1150	2.5	90°	9944	6
682 - 8	6500	4000	30000	20000	1850	5.13	90°	21269	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

682



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning



682-M
Sayfa/Page: 84



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MODEL NO	A	B	B2	C	D	E2	E3	F	G	H	H1	H2	J	K	L	M	N	X1	X2	P	R	PİSTON Ø	PİSTON STROK
682 - 4	77	90	15	75	27	10	47	70	65,5	130,5	240	455	35	M12X1,25	182	6,2	11	18	64	Ø 16	G1/4	40	80
682 - 6	93	105	20	85	26	11	54	83	71	158	287	535	40	M16X1,50	219	8,2	12,5	18	69	Ø 20	G1/4	50	100
682 - 8	125	145	30	115	40	15	67	115	94	212	333	669	60	M16X1,50	288	12,2	16,5	18	92	Ø 20	G3/8	63	125

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F1 (N)	Vn (dm³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
682-4-M	2500	1800	9000	6000	750	1.28	90°	3100	6
682-6-M	4000	2400	18000	12000	1150	2.5	90°	4900	6
682-8-M	6500	4000	30000	20000	1850	5.13	90°	11600	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F1 : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

682-M



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal



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682
Sayfa/Page: 84

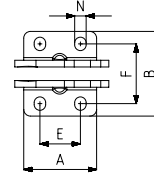
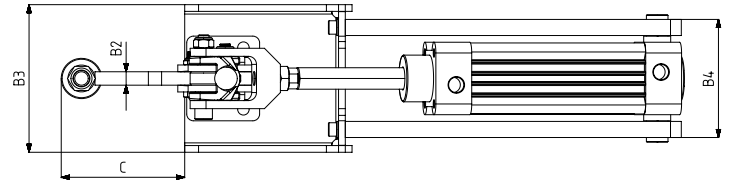
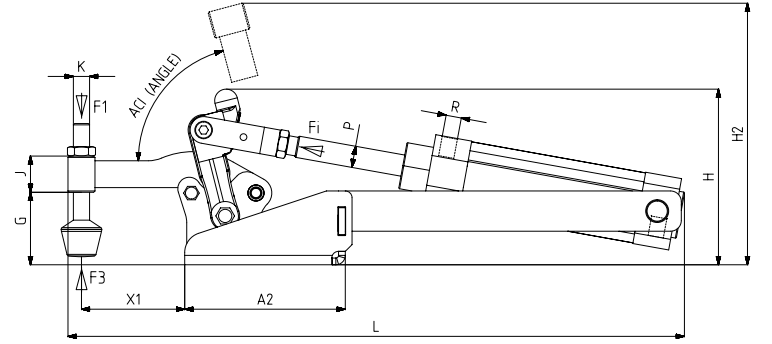
MODEL NO	A	B	B2	C	D	E2	E3	F	G	H	H2	J	K	L	M	N	X1	X2	P	R	PİSTON Ø	PİSTON STROK
682-4-M	77	90	15	75	27	10	47	70	65,5	131	216	35	M12X1,25	182	6,2	11	18	64	Ø 16	G1/4	40	80
682-6-M	93	105	20	85	26	11	54	83	71	158	249	40	M16X1,50	219	8,2	12,5	18	69	Ø 20	G1/4	50	100
682-8-M	125	145	30	115	40	15	67	115	94	212	336	60	M16X1,50	288	12,2	16,5	18	92	Ø 20	G3/8	63	125



MODEL NO	F1 (N)	F3 (N)	Fİ (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)	BAR
683 - 4	1600	5600	750	1,28	70°	4900	6
683 - 6	2000	11000	1150	2,5	70°	8000	6

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fİ : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı (Modüler Pistonlu)

Body Mounting Base: Horizontal (Modular with piston)



683-H
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6031
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Pistonlar çift etkili, manyetik ve yastıklıdır
Pneumatic cylinders are double acting, magnetic and cushioning

MODEL NO	A	A2	B	B2	B3	B4	C	E	F	G	H	H2	J	K	L	N	X1	P	R	PİSTON Ø	PİSTON STROK
683 - 4	54	119	63	10	100	88	91,5	30	44,5	54	131	195	27	M12	457	8,5 x 10	76,5	Ø 16	G1/4	40	80
683 - 6	70	151	74	12	112	100	112	45	52	73	164	245	32	M12	549	10,5 x 11,5	97	Ø 20	G1/4	50	100

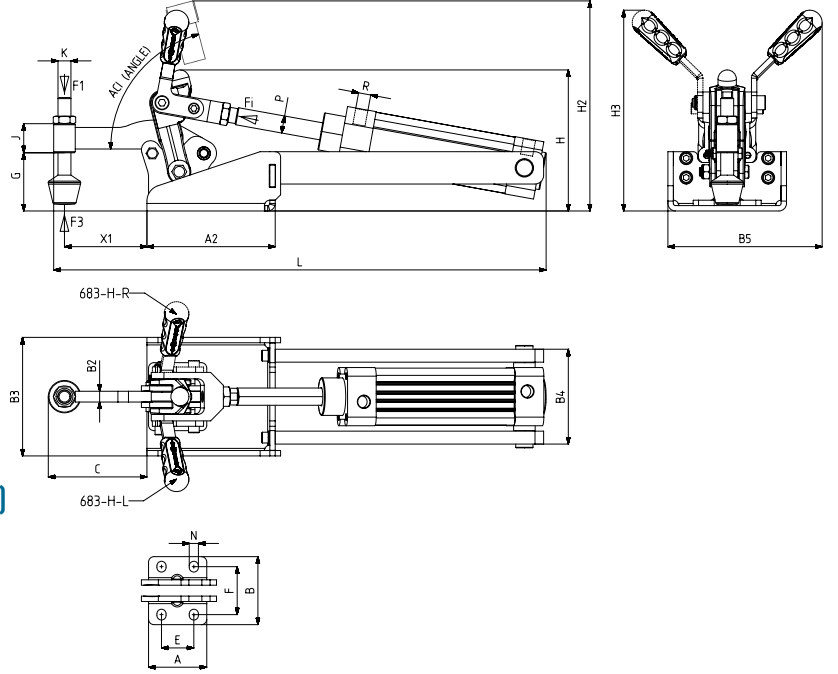
683-H



MODEL NO (KOLLU) / WITH HANDLE	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
683 - 4-H-L / ..H-R	1600	5600	750	1,28	70°	4980	6
683 - 6-H-L / ..H-R	2000	11000	1150	2,5	70°	8130	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Kollu (Modüler Pistonlu)
Body Mounting Base: Horizontal and with handle
(Modular with piston)



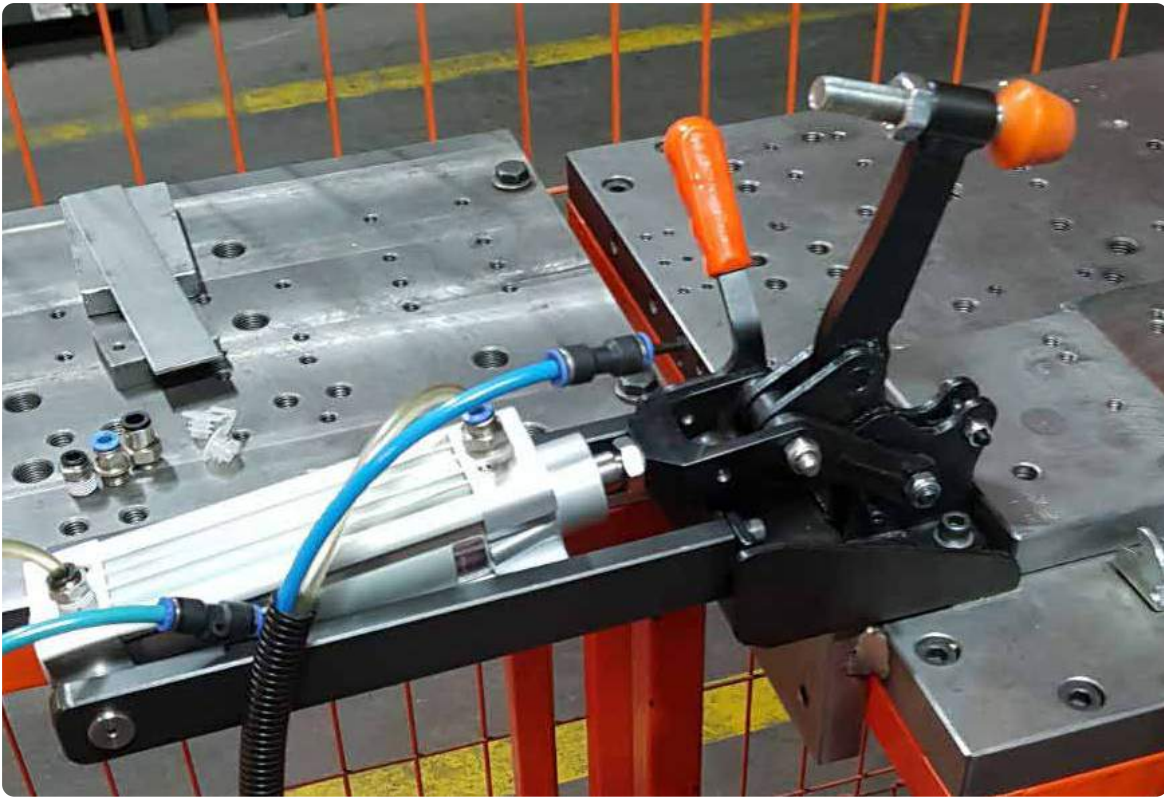
6011



683

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Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning.

MODEL NO (KOLLU) / WITH HANDLE	A	A2	B	B2	B3	B4	B5	C	E	F	G	H	H2	H3	J	K	L	N	X1	P	R	PİSTON Ø	PİSTON STROK
683 - 4-H-L / ..H-R	54	119	63	10	100	88	138	91,5	30	44,5	54	131	195	186	27	M12	457	8,5 x 10	76,5	Ø 16	G1/4	40	80
683 - 6-H-L / ..H-R	70	151	74	12	112	100	188,5	112	45	52	73	164	245	256	32	M12	549	10,5 x 11,5	97	Ø 20	G1/4	50	100

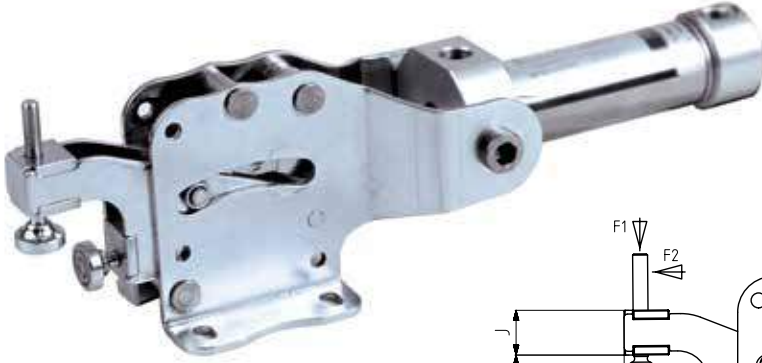
691



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
691-1	1000	1000	1000	1000	300	0,25	641	6
691-2	2000	2000	2000	2000	500	0,51	1173	6
691-3	3000	3000	3000	3000	750	1,04	2440	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE), F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY), Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

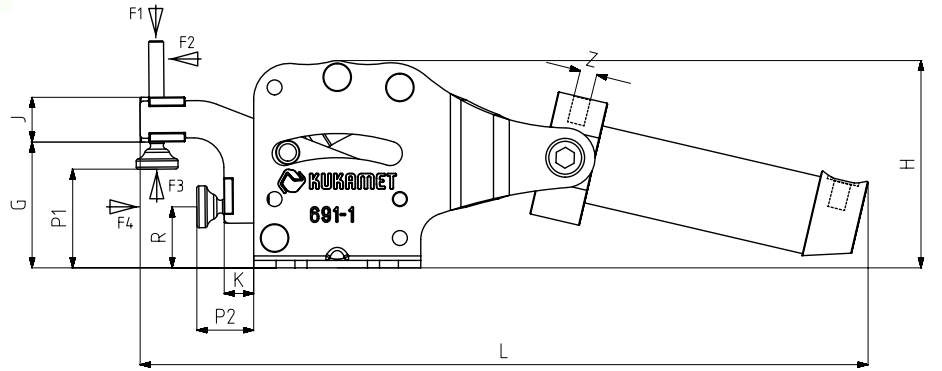
Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



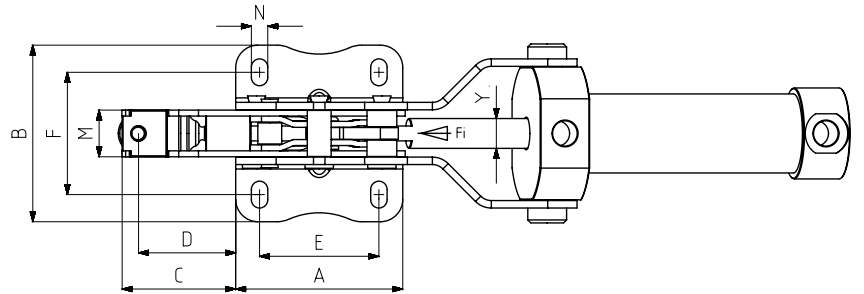
Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

Pistonlar çift etkili, manyetik ve yastıklıdır.
 Pneumatic cylinders are double acting, magnetic and cushioning



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 711 Sayfa/Page: 88
 252 Sayfa/Page: 38

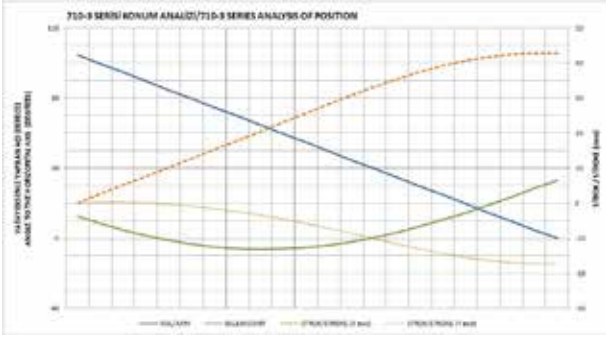


MODEL NO	A	B	C	D	E	F	G	H	J	K	L	M	N	P1 Min.	P1 Max.	P2 Min.	P2 Max.	R	Y	Z	PİSTON Ø
691-1	56	59,5	38	32,5	40	41	42	70	15	10	244	16	5,5 x 9	15	33	19	37	20,5	10	G1/8	25
691-2	75	79,5	48	41	50	56	52	88	20	12	291	20	6,5 x 13	24	41	22	39	24,5	12	G1/8	32
691-3	90	101,5	58	50	50	71	62	105	25	15	356,5	30	8,5 x 18,5	23	49	28	54	29	16	G1/8	40

711



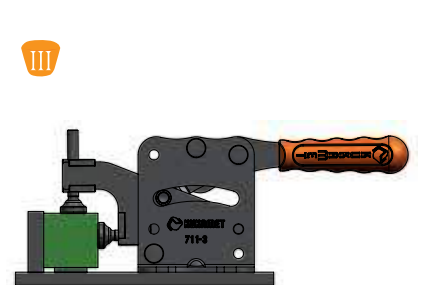
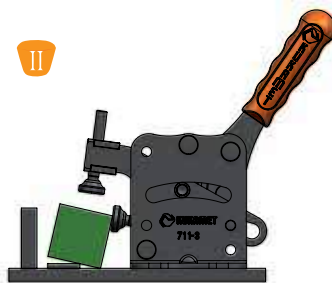
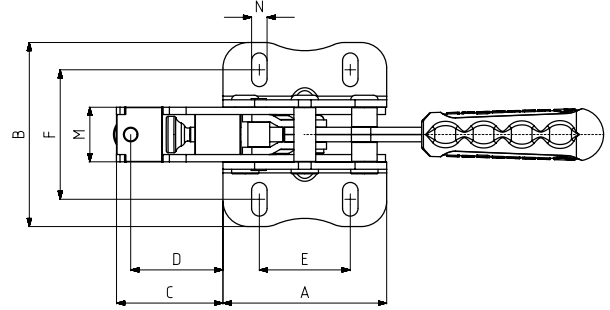
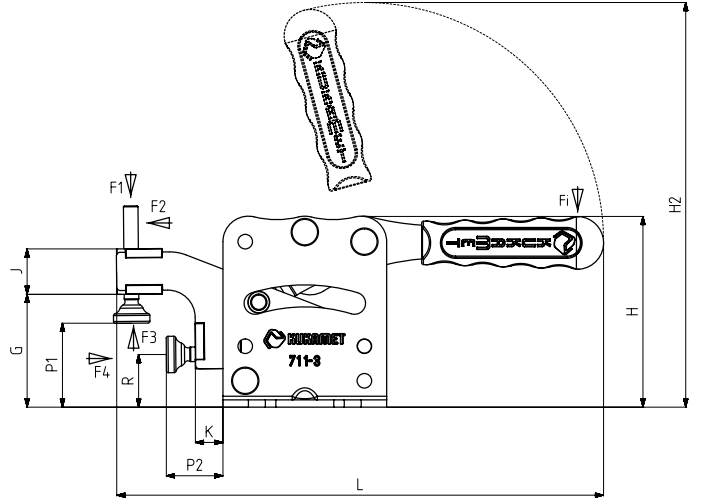
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



Sıkma Pozisyonları
Clamping Positions

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AĞIRLIK (WEIGHT) (gr ±%2)
					VERİM (YIELD) (F1:Fİ)	VERİM (YIELD) (F2:Fİ)	
711-1	1000	1000	1000	1000	14:1	8:1	400
711-2	2000	2000	2000	2000	17:1	9:1	790
711-3	3000	3000	3000	3000	19:1	11:1	1690

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



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712
Sayfa/Page: 89

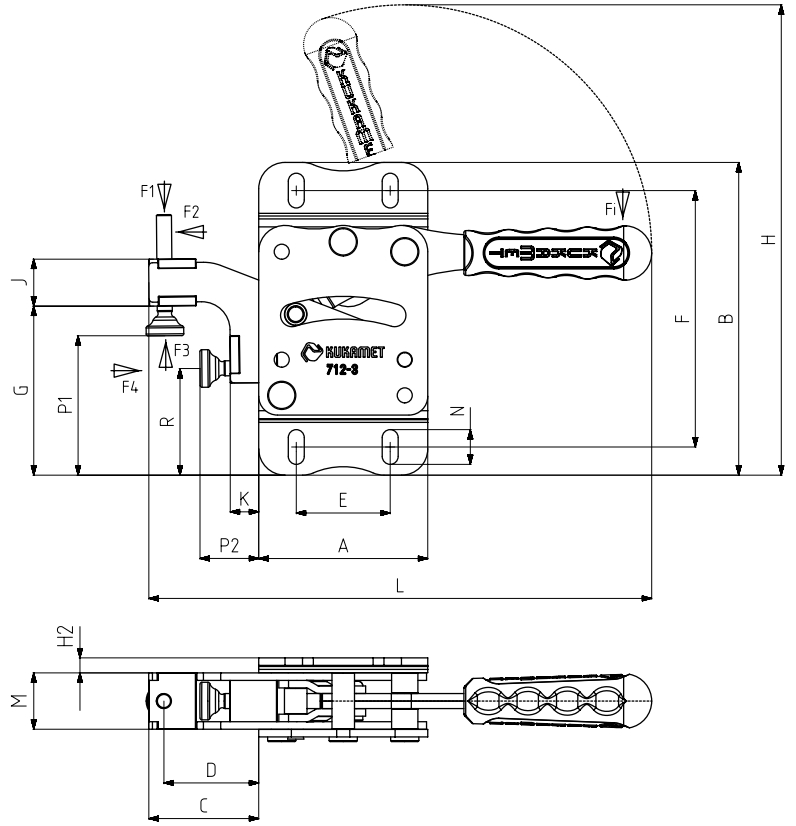
MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	P1 Min.	P1 Max.	P2 Min.	P2 Max.	R
711-1	56	59,5	38	32,5	40	41	42	70	148	15	10	173	16	5.5 x 9	15	33	19	37	20,5
711-2	75	79,5	48	41	50	56	52	88	186	20	12	223	20	6.5 x 13	24	41	22	39	24,5
711-3	90	101,5	58	50	50	71	62	105	222	25	15	268	30	8.5 x 18.5	23	49	28	54	29

712



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AĞIRLIK (WEIGHT) (gr ±%2)
					VERİM (YIELD) (F1:Fi)	VERİM (YIELD) (F2:Fi)	
712-1	1000	1000	1000	1000	14:1	8:1	405
712-2	2000	2000	2000	2000	17:1	9:1	800
712-3	3000	3000	3000	3000	19:1	11:1	1670

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) ,
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

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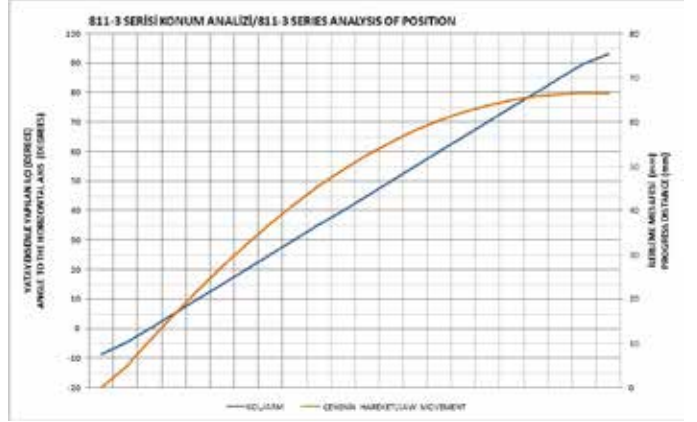
MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	P1 Min.	P1 Max.	P2 Min.	P2 Max.	R
712-1	56	106,5	38	32,5	40	88	58,5	164,5	8	15	10	173	16	5,5 x 9	31,5	49,5	19	37	37
712-2	75	136,5	48	41	50	113	75	209	9	20	12	223	20	6,5 x 13	47	64	22	39	47,5
712-3	90	166,5	58	50	50	136,5	90	250	10	25	15	268	30	8,5 x 18,5	51	77	28	54	57

811



MODEL NO	F1 (N)	F3 (N)	Fi	AĞIRLIK (WEIGHT) (gr ±%)
			VERİM (YIELD) (F1:Fi)	
811-1	1000	2500	27:1	700
811-2	3500	4500	36:1	1060
811-3	4000	6000	38:1	1600

F1 : BASKI KUVVETİ (EXERTING FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY),
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



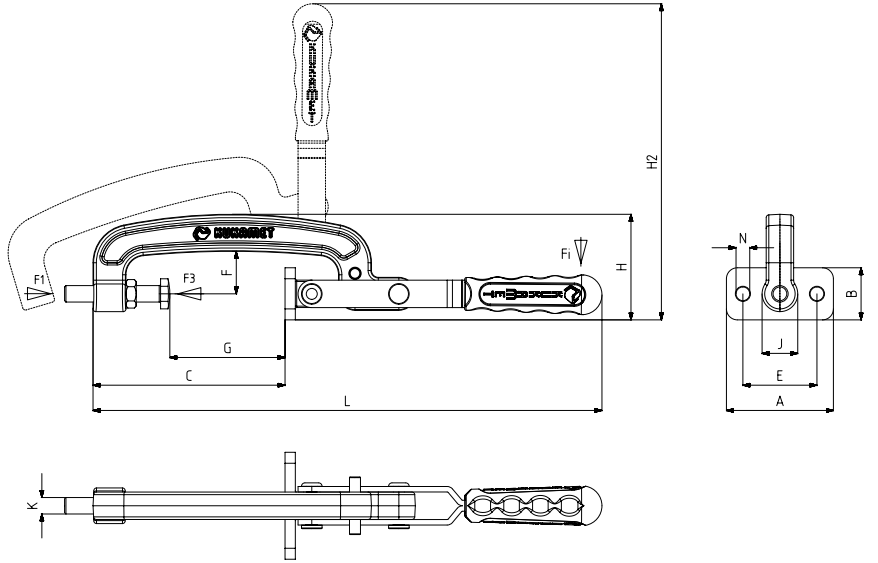
Ayak Tipi: Yatay Tabanlı Body Mounting Base: Horizontal

Ürün özellikleri;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Clamp çenesi sıcak dövme çelikten yapılmıştır.
Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.
The clamping jaw is made of hot forged steel.
The remaining parts are made of galvanized steel for corrosion resistance.



822

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841

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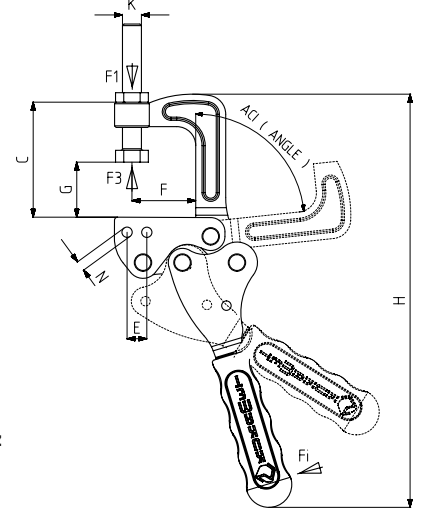


MODEL NO	A	B	C	E	F	G Min.	G Max.	H	H2	J	K	L	N
811-1	58	38	77	40	24	23	50	60	204	16	M8	282	Ø 8
811-2	68	38	110	45	28	46	80	69	217	20	M10	330	Ø 8
811-3	78	38	140	54	31	53	100	77	230	26	M12	372	Ø 10


821


MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
821-2	3500	4000	9:1	85°	810

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) ,
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)


Ürün özellikleri;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.

Clamp çenesi sıcak dövme çelikten yapılmıştır.

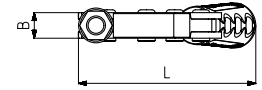
Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.

The clamping jaw is made of hot forged steel.

The remaining parts are made of galvanized steel for corrosion resistance.


Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical

822

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841-D

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MODEL NO	B	C	E	F	G min.	G max.	H	K	L	N
821-2	15	72	12.5	31	0	50	261	M12	107	6.5


822


MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
822-2	3500	4000	9:1	85°	830

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) ,
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)

Ürün özellikleri;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.

Clamp çenesi sıcak dövme çelikten yapılmıştır.

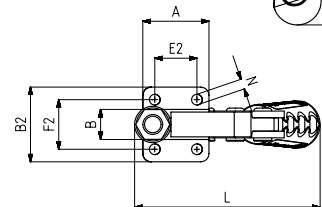
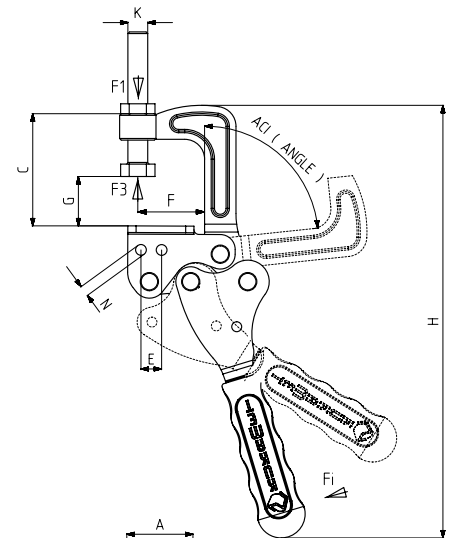
Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.

The clamping jaw is made of hot forged steel.

The remaining parts are made of galvanized steel for corrosion resistance.


Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

821

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MODEL NO	A	B	B2	C	E	E2	F	F2	G min.	G max.	H	K	L	N
822-2	40	15	45	68	12.5	25.5	31	30	0	50	261	M12	107	6.5

831



Ayak Tipi: Yatay Tabanlı Body Mounting Base: Horizontal

Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.

Clamp çenesi sıcak dövme çelikten yapılmıştır ve civata dişleri ovalamadır.

Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.

The clamping jaw is made of hot forged steel.

The remaining parts are made of galvanized steel for corrosion resistance.



822

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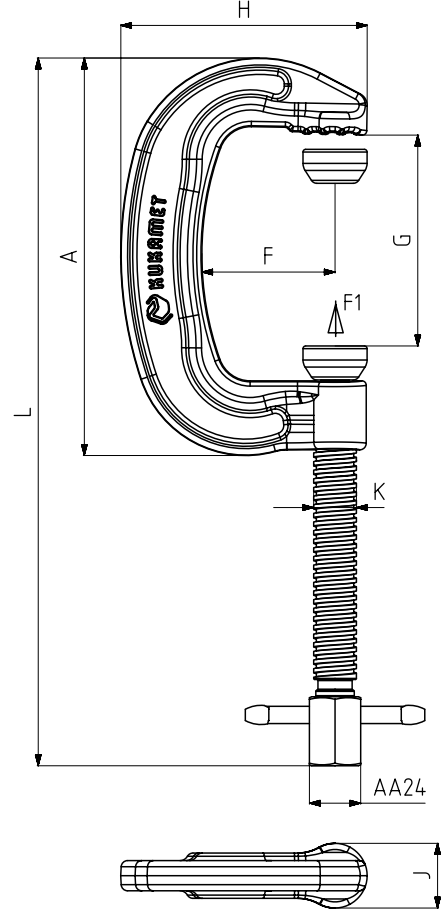


541-L

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MODEL NO	F1 (N)	AĞIRLIK (WEIGHT) (gr ±%2)
831-2	8000	1610
831-3	8000	2300

F1 : BASKI KUVVETİ (EXERTING FORCE)



MODEL NO	A	F	G Min.	G Max.	H	J	K	L Min.	L Max.
831-2	184	62	0	90	115	30	TR20	235	325
831-3	257	73,6	0	140	139	30	TR20	300	440



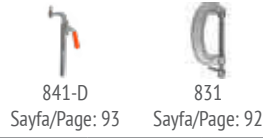
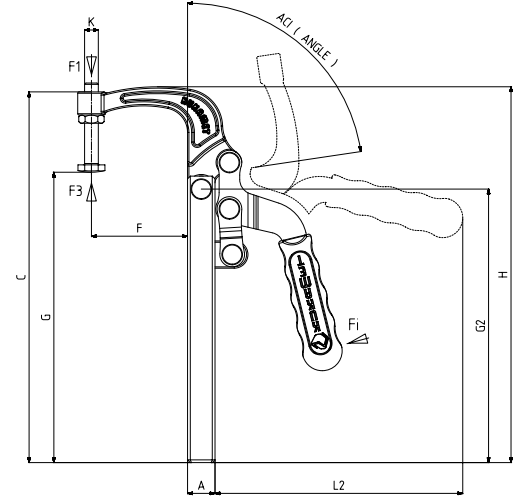

Ayak Tipi: Lamalı Taban

Body Mounting Base: With mounting bar



Ürün özellikleri;
 Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
 Clamp çenesi sıcak dövme çelikten yapılmıştır.
 Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;
 The products are strong and suited for heavy duty applications.
 The clamping jaw is made of hot forged steel.
 The remaining parts are made of galvanized steel for corrosion resistance.



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MODEL NO	A	B	C	F	G min.	G max.	G2	H	K	L	L2
841-2	20 x 20	24	272	70	205	248	200	275	M10	193	180

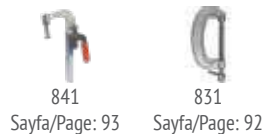
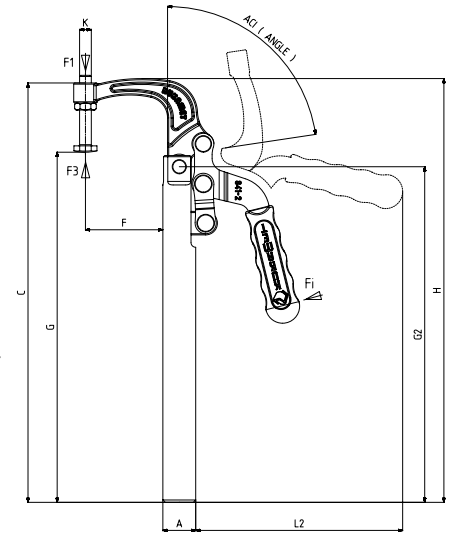

Ayak Tipi: Yuvarlak Gövde

Body Mounting Base: Round Body



Ürün özellikleri;
 Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
 Clamp çenesi sıcak dövme çelikten yapılmıştır.
 Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;
 The products are strong and suited for heavy duty applications.
 The clamping jaw is made of hot forged steel.
 The remaining parts are made of galvanized steel for corrosion resistance.



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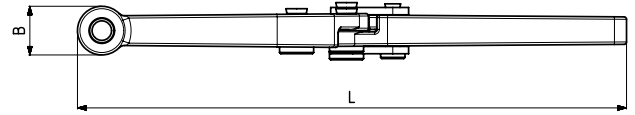
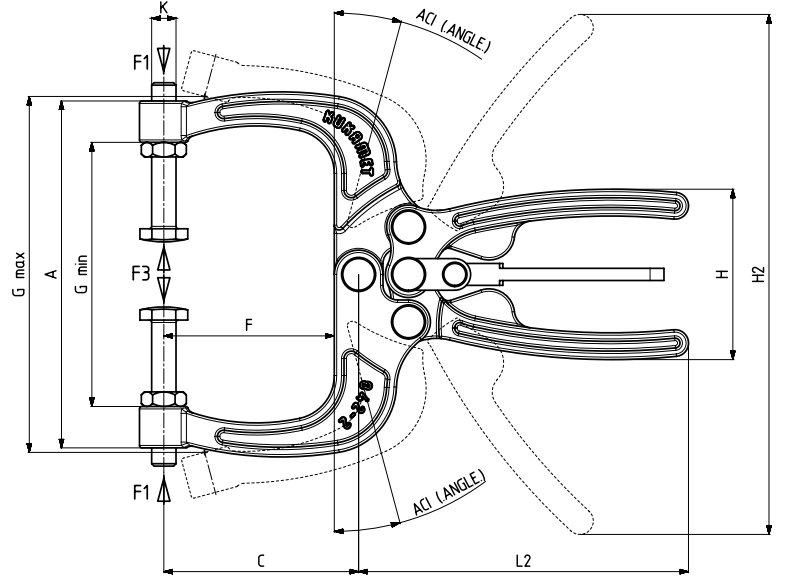
MODEL NO	A	B	C	F	G min.	G max.	G2	H	K	L	L2
841 - 2 - D	Ø28	24	357	66	291	328,5	85,5	360,5	M10	193	176

842



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
842-2	3500	4000	9:1	15°	900

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) ,
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

Ürün özellikleri;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.

Clamp çenesi ve kolu sıcak dövme çelikten yapılmıştır.

Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.

The clamping jaw and handle is made of hot forged steel.

The remaining parts are made of galvanized steel for corrosion resistance.



831

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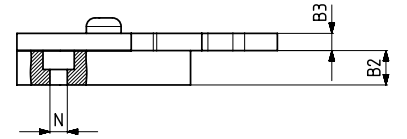
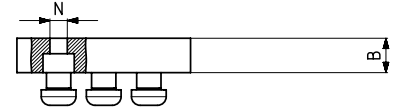
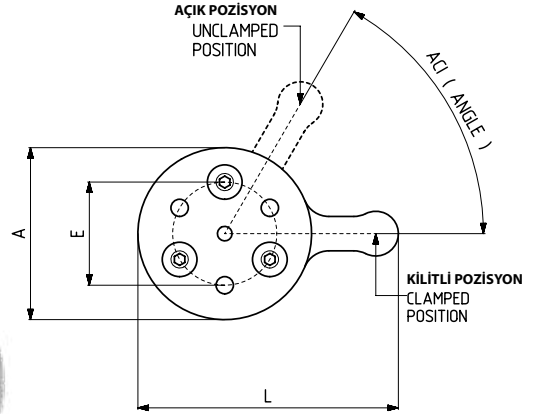


MODEL NO	A	B	C	F	G min.	G max.	H	H2	K	L	L2
842-2	143	20	80	70	108	148	70	215	M10	230	140

991



MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ±%2)
991 - 1	60°	170



Ürün özellikleri;

Gövde alüminyum malzemeden üretilmiştir, sıkma pimleri çelik malzemeden üretilmiştir.
İş parçalarının daha hızlı ve hassas bir şekilde, birleştirilmesi için kullanılır.
Sıkma kolu tek hareketle kolay bir şekilde ürünün kilitlenmesini ve açmasını sağlamaktadır.
Gövde üzerindeki montaj delikleri, kolay ve esnek montaj kabiliyetine sahiptir.

Product Features;

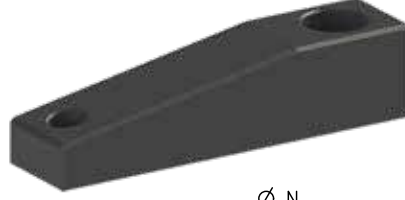
The body is made of aluminum material, clench pins are made of steel material.
The block clamping plate use to join workpieces faster and more precisely.
The clamp lever allows the product to be locked and unlocked easily with a single movement.
The mounting holes on the body have easy and flexible mounting capabilities.



MODEL NO	A	B	B2	B3	E	L	N
991-1	Ø50	10	10	5	30	75	Ø5

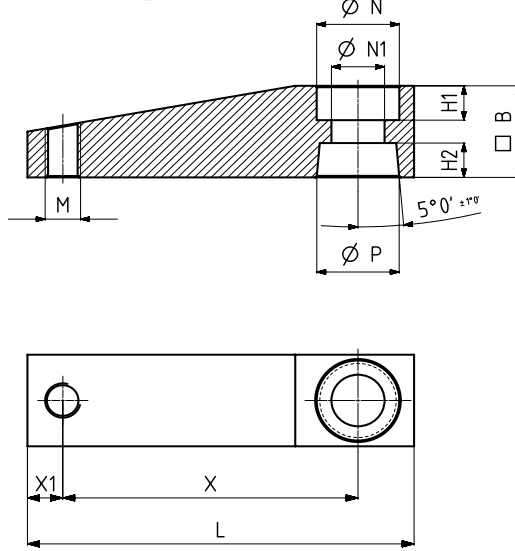
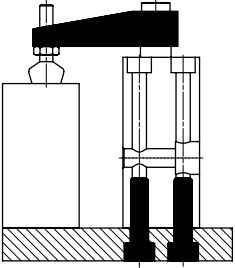


6010-1



Sıkma Kolu Squeezing Arm

Montaj seçenekleri Mounting options.



NOT:

- Çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Aksesuarlar : (fiyata dahil değildir)

1-) Baskı ucu (911, 912, 913, 914, 915, 916)

Sıkma kolunun montajı :

1-) Sıkma kolunu yaylı rondela ve cıvata ile piston mili üzerine tutturun.

2-) Sıkma kolunu çevirerek pozisyonunu ayarlayın.

3-) Anahtar ile sıkma kolunu tutup, cıvatayı sabitleyin.

Sıkma kolunun sökülmesi :

1-) Anahtar ile sıkma kolunu tutarak cıvatayı çözün.

2-) Aşağıdaki resimde görüldüğü şekilde, plastik çekiç ile alttan yukarı doğru hafifçe vurarak sıkma kolunu piston milinden ayırın.

Dikkat: Aşağıdaki resimde olduğu gibi, kesinlikle yandan darbe uygulanmamalıdır.

NOTE:

- Made of steel and phosphate coated for corrosion resistance.

Accessories : (not included in the price)

1-) Squeeze part(911,912,913,914,915,916)

Mounting of squeezing arm:

1-) Set up squeezing arm with spring washer and bolt on the piston rod.

2-) Turn squeezing arm into position.

3-) Hold clamping arm fixed with wrench and tighten bolt.

Squeezing arm removal:

1-) Hold clamping arm fixed with wrench and loosen bolt.

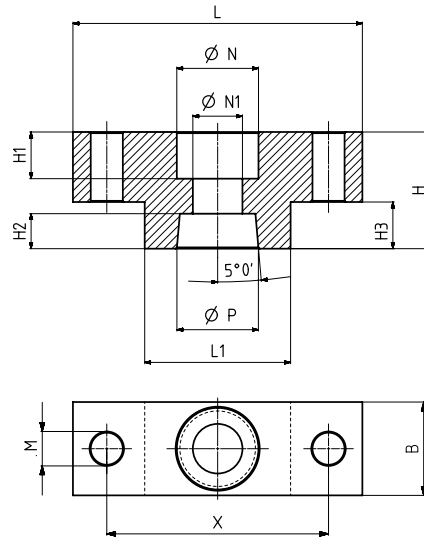
2-) As in the following picture, With light blows from below (plastic hammer), separate squeezing arm from the piston rod.

Caution!: As in the following picture, Definitely, from side blow should not be applied.

KOD	MODEL NO	B	H1	H2	L	M	ØN	ØN1	ØP	X	X1	AĞIRLIK (WEIGHT) (gr ±%)
6010-1-25	6012-6013-6014-6016-25	16	6	6,5	66	M6	14,7	8,5	14	50	6	90
6010-1-32	6012-6013-6014-6016-32	20	7	9	80	M8	14,7	8,5	16	60	10	183
6010-1-40	6012-6013-6014-6016-40	20	7	9	90	M8	14,7	8,5	16	70	10	213
6010-1-50	6012-6013-6014-6016-50	25	9	10	105	M12	18,5	10,5	20	80	10	370



6010-2



Sıkma Kolu Adaptörü Squeezing Arm Adapter

NOT:

- Çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

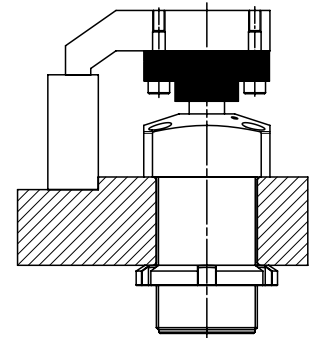
- Özel yapıdaki sıkma kollarının montajı için kullanılır.

NOTE:

- Made of steel and phosphate coated for corrosion resistance.

- Used for mounting of special construction squeezing arm.

Montaj seçenekleri Mounting options.



KOD	MODEL NO	B	H	H1	H2	H3	L	L1	M	ØN	ØN1	ØP	X	AĞIRLIK (WEIGHT) (gr ±%)
6010-2-25	6012-6013-6014-6016-25	16	20	8	6,5	8	50	25	5,5	14,5	8,5	14	38	74
6010-2-32-40	6012-6013-6014-6016-32-40	20	25	11	9	10	60	30	7	14,5	8,5	16	45	147
6010-2-50	6012-6013-6014-6016-50	25	30	14	10	12	65	30	9	18,5	10,5	20	48	220

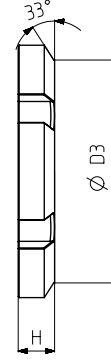
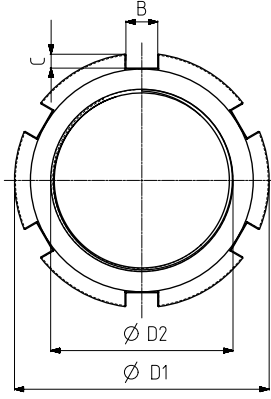
1-) Tek bir sıkıştırma kolu ve piston mili arasında bağlantı elemanı olarak montaj.

1-) Mounting as a connection element between an individual squeezing arm and the piston rod.

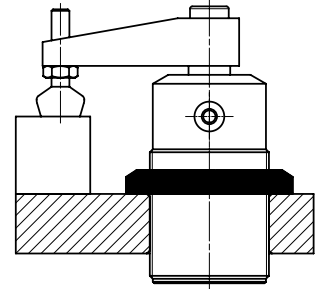
6010-3



Bağlantı Somunu (DIN 70852)
Connection Nut (DIN 70852)



Montaj seçenekleri
Mounting options.



- 1-) Gövdeyi fiştür üzerine sabitlemek için yukarıdan bağlantı somunu ile montaj.
- 2-) Sıkmak için kullanılacak anahtar DIN 1810 A

- 1-) Mounting with connection nut from above locking swing clamp on fixture.
- 2-) The key, will be used for squeeze DIN 1810 A

KOD	MODEL NO	B	C	ØD1	ØD2	ØD3	H	AĞIRLIK (WEIGHT) (gr ±%2)
6010-3-25	6013-6014-6015-25	7	3,3	56	M 40 x 1,5	49	8	66
6010-3-32	6013-6014-6015-32	8	3,8	68	M 50 x 1,5	60	8	88
6010-3-40	6013-6014-6015-40	8	3,8	75	M 55 x 1,5	67	8	112
6010-3-50	6013-6014-6015-50	11	4,3	85	M 65 x 1,5	76	9	141

NOT:

- Çelik malzemeden üretilmiştir ve korozyon direnci için galvaniz (Cr3) kaplama yapılmıştır.

Avantajları :

- Fiştür üzerine dış açılmasına gerek kalmadan montaj imkanı sağlar.

Not : 6014 ve 6015 numaralı ürünlerin montaj deliklerinin merkezleri ile aynıdır.

NOTE:

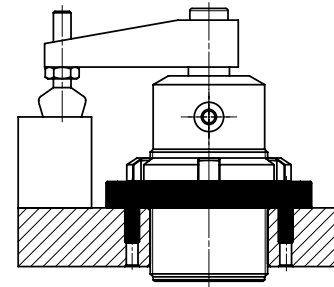
- Made of steel and coated galvanized (Cr3) for corrosion resistance.

Advantages :

- Avoids cutting a large thread on the fixture.

Note : The hole centers are the same with 6014 and 6015 coded products hole centers.

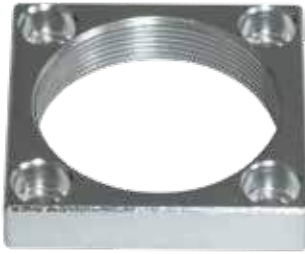
Montaj seçenekleri
Mounting options.



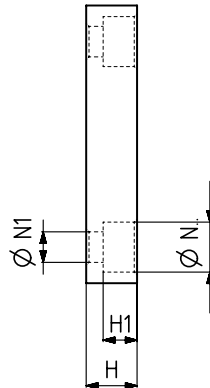
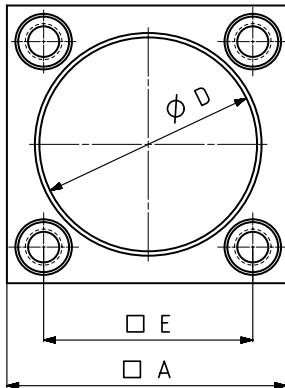
- 1-) Döner tip pnömatik bağlantı elemanını flanş içine vidalayarak montaj.
- 2-) Gövdeyi fiştür üzerine kilitlemek için bağlantı somunu ile montaj.
- 3-) Flanş üzerindeki bağlantı delikleri kullanılarak montaj.

- 1-) Mounting with swing clamp screwed into flange.
- 2-) Mounting with connection nut for locking swing clamp on fixture.
- 3-) Mounting with connection holes on the flange.

6010-4



Bağlantı Flanş
Connection Flange



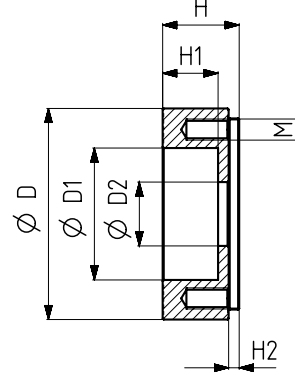
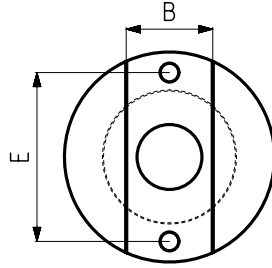
KOD	MODEL NO	A	E	ØD	H	H1	ØN	ØN1	AĞIRLIK (WEIGHT) (gr ±%2)
6010-4-25	6013-6014-6015-25	50	37	M 40 x 1,5	10	6	9	5,5	82
6010-4-32	6013-6014-6015-32	60	45	M 50 x 1,5	12	7	11	6,5	125
6010-4-40	6013-6014-6015-40	70	50	M 55 x 1,5	12	7	11	6,5	208
6010-4-50	6013-6014-6015-50	80	58	M 65 x 1,5	15	9	13	8,5	320

6010-5



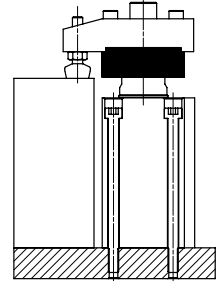
Koruma Adaptörü

Protection Adapter (For Piston Rod)



Montaj seçenekleri

Mounting options.



1-) Sadece 6011 numaralı ürünlerde kullanılmaya uygundur.
 1-) Can be used for only 6011 series products.

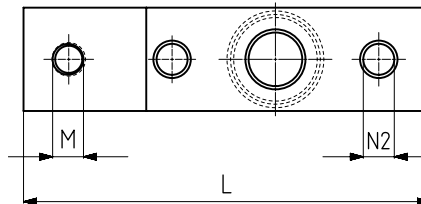
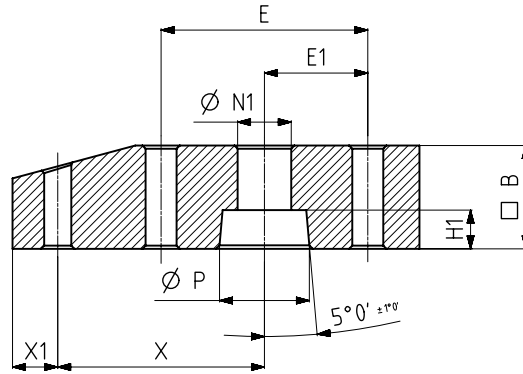
KOD	MODEL NO	B	E	ØD	ØD1	ØD2	H	H1	H2	M	AĞIRLIK (WEIGHT) (gr ±%)
6010-5-25	6011-25	16,4	32	40	25	14,1	14,5	9,5	2	M4	32
6010-5-32 - 40	6011-32-40	22,6	41,4	50	32	16,1	18	11	3	M6	59
6010-5-50	6011-50	25,8	46,5	60	39	20,1	33	24	5	M6	145

6010-6



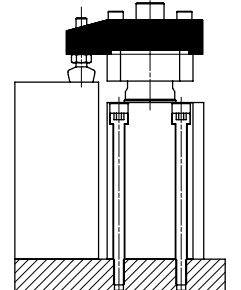
Sıkma Kolu (Koruma Adaptörü için)

Squeezing Arm (for protection adapter)



Montaj seçenekleri

Mounting options.



KOD	MODEL NO	B	E	E1	H1	L	M	ØN1	ØN2	ØP	X	X1	AĞIRLIK (WEIGHT) (gr ±%)
6010-6-25	6011-25	16	32	16	6,5	63	M6	8,5	4,5	14	32	7	102
6010-6-32 - 40	6011-32-40	22	41,4	20,7	9	82	M8	10,5	6,5	16	45	10	252
6010-6-50	6011-50	25	46,5	23,25	10	105	M10	12,5	6,5	20	65	10	420

6010-7



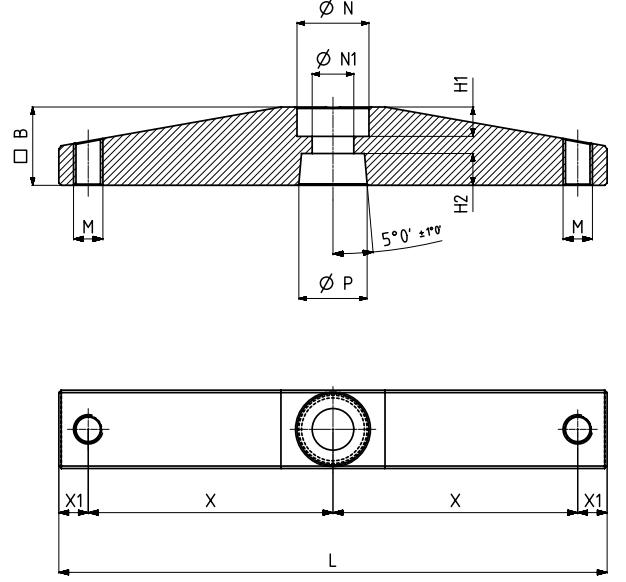
Sıkma Kolu Squeezing Arm

NOT:
- Çelik malzemeden üretilmiştir ve korozyon direnci için fosfat kaplama yapılmıştır.

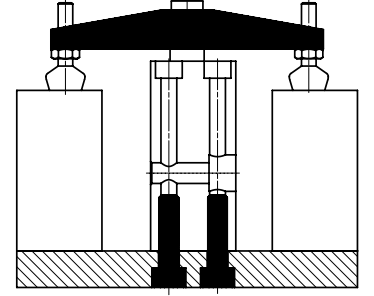
Aksesuarlar : (fiyata dahil değildir)
1-) Baskı ucu (911, 912, 913, 914, 915, 916)

NOTE:
- Made of steel and phosphate coated for corrosion resistance.

Accessories : (not included in the price)
1-) Squeeze part(911,912,913,914,915,916)



Montaj seçenekleri
Mounting options.



KOD	MODEL NO	B	H1	H2	L	M	Ø N	Ø N1	Ø P	X	X1	AĞIRLIK (WEIGHT) (gr ±%2)
6010-7-25	6012-6013-6014-6016-25	16	6	6,5	112	M6	14,7	8,5	14	50	6	155
6010-7-32	6012-6013-6014-6016-32	20	7	9	140	M8	14,7	8,5	16	60	10	330
6010-7-40	6012-6013-6014-6016-40	20	7	9	160	M8	14,7	8,5	16	70	10	390
6010-7-50	6012-6013-6014-6016-50	25	9	10	180	M12	18,5	10,5	20	80	10	650

6010-8

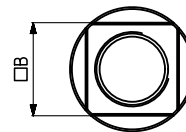
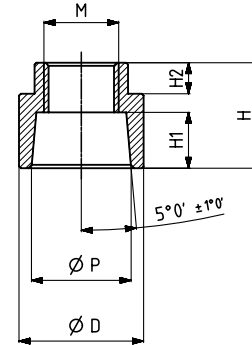


new

Sıkma Kolu Adaptörü Squeezing Arm Adapter

NOT:
- Çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

NOTE:
- Made of steel and phosphate coated for corrosion resistance.



KOD	MODEL NO	B	D	H	H1	H2	M	Ø P	AĞIRLIK (WEIGHT) (gr ±%2)
6010 - 8 - 32	6012-6013-6014-6016 - 32	15	20	17	9	5	M12	16	20
6010 - 8 - 40	6012-6013-6014-6016 - 32	15	20	17	9	5	M12	16	20

6011

DÖNER TİP PNÖMATİK BAĞLANTI ELEMANI - KARE GÖVDE

- Silindir çift etkili ve manyetikdir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksall kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.
- Piston mili, koruma adaptörü sayesinde kaynak çapakları ve dış etkenlerden korunmaktadır.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanallar mevcuttur.

Aksesuarlar : (fiyata dahil değildir)

- 1-) Piston mili koruma adaptörü (6010-5)
- 2-) Koruma adaptörü için sıkma kolu (6010-6)
- 3-) Baskı ucu (911, 912, 913, 914, 915, 916)
- 4-) Sıkma kolu adaptörü (6010-8)

PNEUMATIC SWING CLAMP - SQUARE BODY

- Cylinder is double acting and magnetic.
- The body is made of strength aluminum. Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.
- Piston rod, protected against welding spatter and external factors through the protection adapter.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.

Accessories : (not included in the price)

- 1-) Piston rod protection adapter. (6010-5)
- 2-) Squeezing arm for protection adapter (6010-6)
- 3-) Squeeze part (911, 912, 913, 914, 915, 916)
- 4-) Squeezing Arm Adapter (6010-8)



6012

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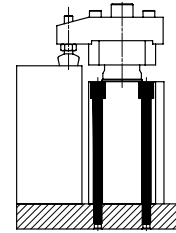
6017

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6031

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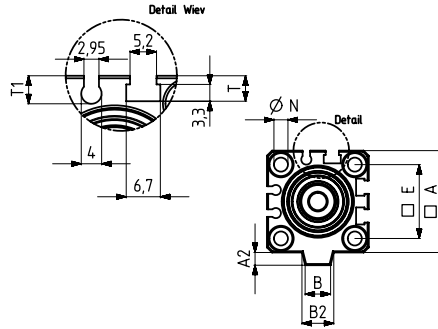
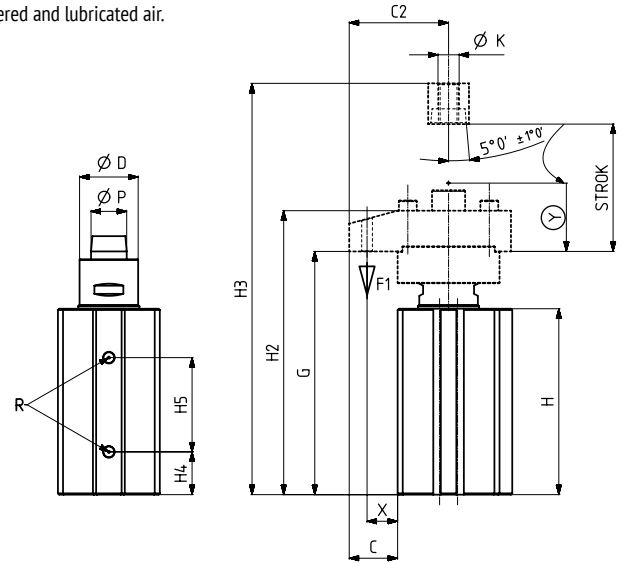

Montaj seçenekleri
 Mounting options

- Gövde üzerindeki deliklerden imbus cıvata (DIN 912) ile yukarıdan montaj.
- Mounting from above with socket bolt (DIN 912) through to holes on the body.

MODEL NO	F1 (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
6011 - 25R	200	0,1	28	360	6
6011 - 25L	200	0,1	28	360	6
6011 - 32R	300	0,23	26	600	6
6011 - 32L	300	0,23	26	600	6
6011 - 40R	600	0,4	26	780	6
6011 - 40L	600	0,4	26	780	6
6011 - 50R	900	0,96	38	1430	6
6011 - 50L	900	0,96	38	1430	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

 Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Not: Filtrelenmiş ve yağlanmış hava kullanılmalıdır.
 Note: Operate only with filtered and lubricated air.


MODEL NO	A	A2	B	B2	C	C2	D	E	G	H	H2	H3	H4	H5	K	M	N	P	R	T	T1	X	Y	PİSTON Ø
6011 - 25R	40	4	10,5	12,5	19	39	24	29	100	76	116	154	16	47	M8	M6	5,5	14	M5	5	5,5	12	12	25
6011 - 25L	40	4	10,5	12,5	19	39	24	29	100	76	116	154	16	47	M8	M6	5,5	14	M5	5	5,5	12	12	25
6011 - 32R	45	4,5	14,5	16,5	32,5	55	29	34	115	82,5	138	175	21	48	M10	M8	5,5	16	G1/8	4,5	5,5	22,5	10	32
6011 - 32L	45	4,5	14,5	16,5	32,5	55	29	34	115	82,5	138	175	21	48	M10	M8	5,5	16	G1/8	4,5	5,5	22,5	10	32
6011 - 40R	55	5	19,5	24	27,5	55	29	40	115	82,5	137	175	21	48	M10	M8	5,5	16	G1/8	6,5	7	17,5	10	40
6011 - 40L	55	5	19,5	24	27,5	55	29	40	115	82,5	137	175	21	48	M10	M8	5,5	16	G1/8	6,5	7	17,5	10	40
6011 - 50R	64	6	20	23	43	75	37	50	149	105	174	228	20	66	M12	M10	6,5	20	G1/8	6	6,5	33	16	50
6011 - 50L	64	6	20	23	43	75	37	50	149	105	174	228	20	66	M12	M10	6,5	20	G1/8	6	6,5	33	16	50

Not: Döner Tip Bağlantı Elemanları, sadece "Y" stroğu sırasında sıkma yapabilir.
 Note: Swing clamps can squeezing only during the "Y" stroke.

6012



MODEL NO	F1 (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
6012 - 25R	170	0,15	28	400	6
6012 - 25L	170	0,15	28	400	6
6012 - 32R	270	0,28	30	670	6
6012 - 32L	270	0,28	30	670	6
6012 - 40R	450	0,47	30	950	6
6012 - 40L	450	0,47	30	950	6
6012 - 50R	700	0,88	36	1600	6
6012 - 50L	700	0,88	36	1600	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Not: Filtrelenmiş ve yağlanmış hava kullanılmalıdır.
Note: Operate only with filtered and lubricated air.

DÖNER TİP PNÖMATİK BAĞLANTI ELEMANI - BLOK GÖVDE

- Silindir çift etkili ve manyettiktir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksallı kaplama yapılmıştır.
- Piston milini yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.
- Piston konumunu izlemek için, gövde üzerinde "T" tip sensörlere uygun kanallar mevcuttur.

Aksesuarlar : (fiyata dahil değildir)

- 1-) Sıkma kolu (6010-1)
- 2-) Sıkma kolu (6010-7)
- 3-) Baskı ucu (911, 912, 913, 914, 915, 916)
- 4-) Sıkma kolu adaptörü (6010-8)

PNEUMATIC SWING CLAMP - BLOCK BODY



6011
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6017
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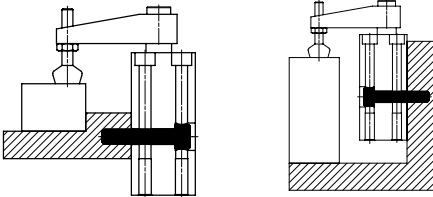


6031
Sayfa/Page: 114

- Cylinder is double acting and magnetic.
 - The body is made of strength aluminum. Anodized for Corrosion resistance.
 - The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.
 - There are slots on the body, according to T type sensors, for monitoring the position of piston.
- Accessories : (not included in the price)
- 1-) Squeezing arm (6010-1)
 - 2-) Squeezing arm (6010-7)
 - 3-) Squeeze part (911, 912, 913, 914, 915, 916)
 - 4-) Squeezing Arm Adapter (6010-8)



Montaj seçenekleri Mounting options



1-Gövde ön ve arka yüzündeki delikler kullanılarak montaj.

1- Mounting through to holes on the front and rear surface of body.

2- Gövde üst yüzündeki deliklerden imbus civata (DIN 912) ile yukarıdan montaj.

2-Mounting from above with socket bolt (DIN 912) through to holes on the top surface of body

3- Gövde alt yüzündeki, klavuz çekilmiş delikler kullanılarak montaj.

3-Mounting through to tapped holes on the lower surface of body.

MODEL NO	A	B	C	C2	E	F	F2	G	H	H2	H3	H4	H5	H6	H7	K	M	N	N2	N3	P	R	T	X	Y	PİSTON Ø
6012 - 25R	35	55	41	56	20	40	17	85	80	101	129	32	16	47	20	M8	M6	6,5	8,5	M8	14	M5	5	35	12	25
6012 - 25L	35	55	41	56	20	40	17	85	80	101	129	32	16	47	20	M8	M6	6,5	8,5	M8	14	M5	5	35	12	25
6012 - 32R	45	60	50	70	30	45	18	100	92	120	150	43	21	52	20	M8	M8	6,5	8,5	M8	16	G1/8	6,5	40	10	32
6012 - 32L	45	60	50	70	30	45	18	100	92	120	150	43	21	52	20	M8	M8	6,5	8,5	M8	16	G1/8	6,5	40	10	32
6012 - 40R	55	70	55	80	37	52	22	100	92	120	150	40	21	52	25	M8	M8	8,5	8,5	M10	16	G1/8	7,5	45	10	40
6012 - 40L	55	70	55	80	37	52	22	100	92	120	150	40	21	52	25	M8	M8	8,5	8,5	M10	16	G1/8	7,5	45	10	40
6012 - 50R	65	85	58,5	90	46	66	25	110	104,5	135	171	45	20	64	30	M10	M12	8,5	10,5	M10	20	G1/8	6	48,5	15	50
6012 - 50L	65	85	58,5	90	46	66	25	110	104,5	135	171	45	20	64	30	M10	M12	8,5	10,5	M10	20	G1/8	6	48,5	15	50

Not: Döner Tip Bağlantı Elemanları, sadece "Y" stroğu sırasında sıkma yapılabilir.
Note: Swing clamps can squeezing only during the "Y" stroke.

6013



MODEL NO	F1 (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%)	BAR
6013 - 25R	170	0,14	28	300	6
6013 - 25L	170	0,14	28	300	6
6013 - 32R	270	0,28	30	480	6
6013 - 32L	270	0,28	30	480	6
6013 - 40R	450	0,47	30	560	6
6013 - 40L	450	0,47	30	560	6
6013 - 50R	700	0,88	36	1000	6
6013 - 50L	700	0,88	36	1000	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

Vn, 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn, AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Not: Filtrelenmiş ve yağlanmış hava kullanılmalıdır.
 Note: Operate only with filtered and lubricated air.



DÖNER TİP PNÖMATİK BAĞLANTI ELEMANI - YUVARLAK GÖVDE

- Silindir çift etkilidir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksal kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.

Aksesuarlar : (fiyata dahil değildir)

- 1-) Sıkma kolu (6010-1)
- 2-) Sıkma kolu (6010-7)
- 3-) Bağlantı somunu (6010-3)
- 4-) Bağlantı flanşı (6010-4)
- 5-) Baskı ucu (911, 912, 913, 914, 915, 916)
- 6-) Sıkma kolu adaptörü (6010-8)

PNEUMATIC SWING CLAMP - ROUND BODY

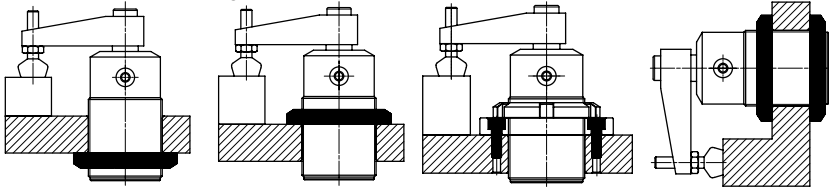
- Cylinder is double actin.
- The body is made of strength aluminum. Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.

Accessories : (not included in the price)

- 1-) Squeezing arm (6010-1)
- 2-) Squeezing arm (6010-7)
- 3-) Connection nut (6010-3)
- 4-) Connection flange (6010-4)
- 5-) Squeeze part (911, 912, 913, 914, 915, 916)
- 6-) Squeezing Arm Adapter (6010-8)

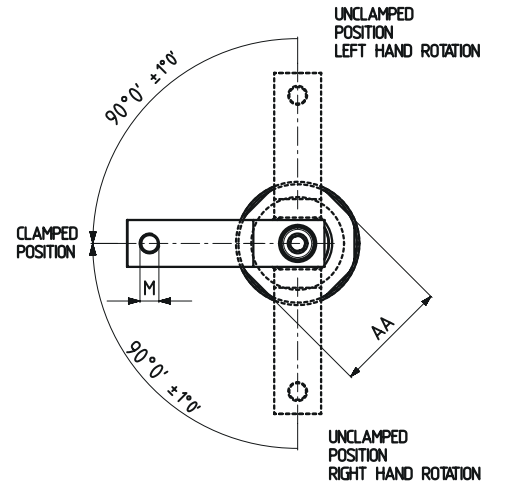
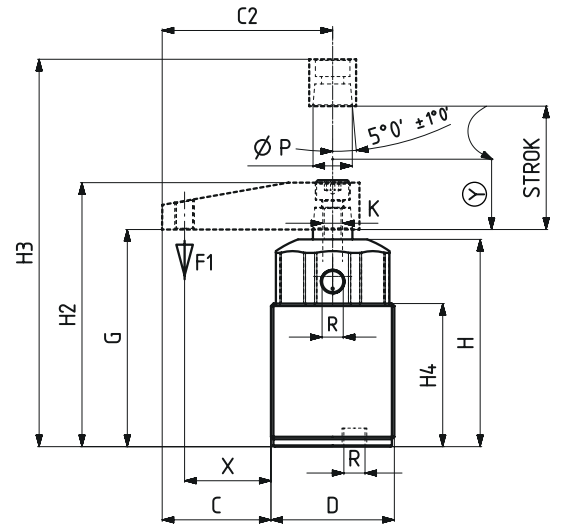
Montaj seçenekleri

Mounting options



1- Bağlantı somunu ile montaj (6010-3)
 1- Mounting with connection nut

2- Bağlantı flanşı ile montaj (6010-4)
 2- Mounting with connection flange



6014



6015



6016



6031

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MODEL NO	AA	C	C2	D	G	H	H2	H3	H4	K	M	P	R	X	Y	PİSTON Ø
6013 - 25R	36	36	56	M 40 x 1,5	78	74	94	122	50	M8	M6	14	M5	30	12	25
6013 - 25L	36	36	56	M 40 x 1,5	78	74	94	122	50	M8	M6	14	M5	30	12	25
6013 - 32R	46	45	70	M 50 x 1,5	89	84	109	139	58	M8	M8	16	G1/8	35	12	32
6013 - 32L	46	45	70	M 50 x 1,5	89	84	109	139	58	M8	M8	16	G1/8	35	12	32
6013 - 40R	50	52,5	80	M 55 x 1,5	89	84	109	139	58	M8	M8	16	G1/8	42,5	12	40
6013 - 40L	50	52,5	80	M 55 x 1,5	89	84	109	139	58	M8	M8	16	G1/8	42,5	12	40
6013 - 50R	60	57,5	90	M 65 x 1,5	103	97	128	164	70	M10	M12	20	G1/8	47,5	15	50
6013 - 50L	60	57,5	90	M 65 x 1,5	103	97	128	164	70	M10	M12	20	G1/8	47,5	15	50

Not: Döner Tip Bağlantı Elemanları, sadece "Y" stroğu sırasında sıkma yapabilir.
 Note: Swing clamps can squeezing only during the "Y" stroke.

6014


MODEL NO	F1 (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
6014 - 25R	170	0,15	28	400	6
6014 - 25L	170	0,15	28	400	6
6014 - 32R	270	0,28	30	710	6
6014 - 32L	270	0,28	30	710	6
6014 - 40R	450	0,47	30	785	6
6014 - 40L	450	0,47	30	785	6
6014 - 50R	700	0,88	36	1160	6
6014 - 50L	700	0,88	36	1160	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Not: Filtrelenmiş ve yağlanmış hava kullanılmalıdır.

Note: Operate only with filtered and lubricated air.

DÖNER TİP PNÖMATİK BAĞLANTI ELEMANI - FLANŞ BAĞLANTILI GÖVDE

- Silindir çift etkilidir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksall kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.



Aksesuarlar : (fiyata dahil değildir)

- 1-) Sıkma kolu (6010-1)
- 2-) Sıkma kolu (6010-7)
- 3-) Bağlantı somunu (6010-3)
- 4-) Bağlantı flanşı (6010-4)
- 5-) Baskı ucu (911,912,913,914,915,916)
- 6-) Sıkma kolu adaptörü (6010-8)



6013



6015



6016



6031

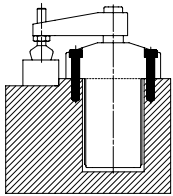
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PNEUMATIC SWING CLAMP - FLANGE MOUNTING BODY

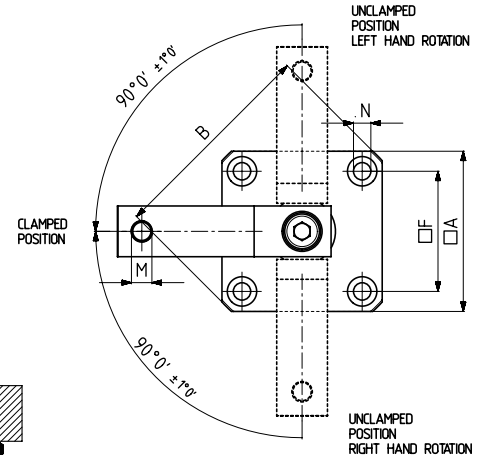
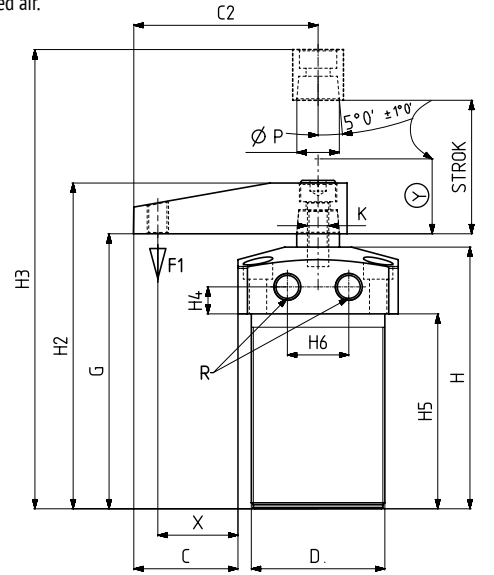
- Cylinder is double acting
- The body is made of strength aluminum. Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.

Accessories : (not included in the price)

- 1-) Squeezing arm (6010-1)
- 2-) Squeezing arm (6010-7)
- 3-) Connection nut (6010-3)
- 4-) Connection flange (6010-4)
- 5-) Squeeze part (911,912,913,914,915,916)
- 6-) Squeezing Arm Adapter (6010-8)

Montaj seçenekleri
Mounting options

1-Flanş sayesinde imbus cıvata (DIN 912) ile yukarıdan montaj.
1- Mounting from above with imbus bolt through the flange

2- Gövdeyi klavuz çekilmiş bir delik içine vidalama ve bağlantı somunu ile sıkarak montaj (6010-3)
2-By screwing the body into a tapped hole and mounting with connection nut (6010-3)

3- Gövde düz bir delik içine yerleştirilerek, bağlantı somunları ile aşağıdan ve yukarıdan sıkarak montaj (6010-3)
3-By inserting the body into a plain hole and mounting with connection nuts, from above and from below (6010-3)


MODEL NO	A	B	C	C2	D	F	G	H	H2	H3	H4	H5	H6	K	M	ØN	P	R	X	Y	PİSTON Ø
6014 - 25R	50	66	31	56	M 40 x 1,5	37	92	87	108	136	11,5	62	21	M8	M6	5,5	14	M5	25	12	25
6014 - 25L	50	66	31	56	M 40 x 1,5	37	92	87	108	136	11,5	62	21	M8	M6	5,5	14	M5	25	12	25
6014 - 32R	60	80	40	70	M 50 x 1,5	45	105	100	125	155	10	73	23	M8	M8	6,5	16	G1/8	30	10	32
6014 - 32L	60	80	40	70	M 50 x 1,5	45	105	100	125	155	10	73	23	M8	M8	6,5	16	G1/8	30	10	32
6014 - 40R	65	85	47,5	80	M 55 x 1,5	50	105	100	125	155	10	73	26	M8	M8	6,5	16	G1/8	37,5	10	40
6014 - 40L	65	85	47,5	80	M 55 x 1,5	50	105	100	125	155	10	73	26	M8	M8	6,5	16	G1/8	37,5	10	40
6014 - 50R	75	100	52,5	90	M 65 x 1,5	58	111	106	136	172	10,5	79	30	M10	M12	8,5	20	G1/8	42,5	15	50
6014 - 50L	75	100	52,5	90	M 65 x 1,5	58	111	106	136	172	10,5	79	30	M10	M12	8,5	20	G1/8	42,5	15	50

Not: Döner Tip Bağlantı Elemanları, sadece "Y" stroğu sırasında sıkma yapabilir.

Note: Swing clamps can squeezing only during the "Y" stroke.

6015


MODEL NO	F1 (N)	Vn (dm³)	BASKI VİDASI (SQUEEZE SCREW)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
6015 - 25	200	0,13	M6 x 40	600	6
6015 - 32	300	0,25	M8 x 50	950	6
6015 - 40	500	0,46	M8 x 50	1100	6
6015 - 50	700	0,79	M12 x 80	1707	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Not: Filtrelenmiş ve yağlanmış hava kullanılmalıdır.

Note: Operate only with filtered and lubricated air.


PNÖMATİK BAĞLANTI ELEMANI - LİNK FLANŞ BAĞLANTILI GÖVDE

- Silindir çift etkilidir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksallı kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.
- Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Aksesuarlar : (fiyata dahil değildir)

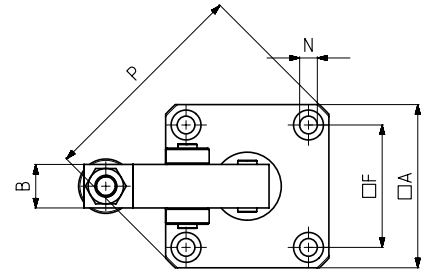
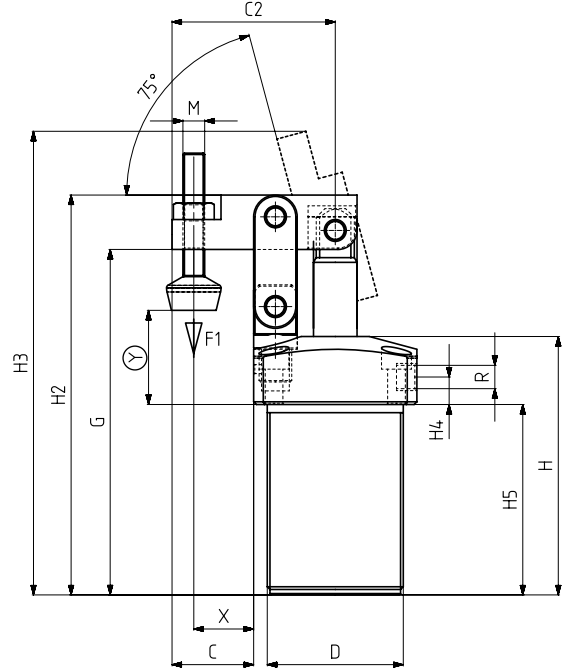
- 1-) Bağlantı somunu (6010-3)
- 2-) Bağlantı flanşı (6010-4)
- 3-) Baskı ucu (911, 912, 913, 914, 915, 916)

PNEUMATIC TOGGLE CLAMP - LINK-FLANGE MOUNTING BODY

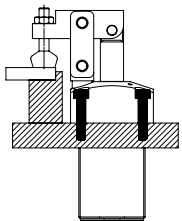
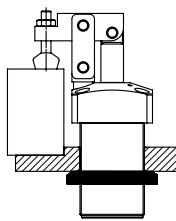
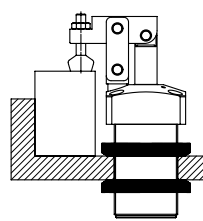
- Cylinder is double acting.
- The body is made of strength aluminum.
- Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.
- Parts of the mechanism are made of steel and phosphate coated for corrosion resistance.

Accessories : (not included in the price)

- 1-) Connection nut (6010-3)
- 2-) Connection flange (6010-4)
- 3-) Squeeze part (911, 912, 913, 914, 915, 916)


Montaj seçenekleri

Mounting options


 1- Flanş sayesinde imbus civata (DIN 912) ile yukarıdan montaj.
 1- Mounting from above with imbus bolt through the flange. (DIN 912)

 2- Gövdeyi klavuz çekilmiş bir delik içine vidalama ve bağlantı somunu ile sıkarak montaj (6010-3)
 2- By screwing the body into a tapped hole and mounting with connection nut (6010-3)

 3- Gövde düz bir delik içine yerleştirilerek, bağlantı somunları ile aşağıdan ve yukarıdan sıkarak montaj (6010-3)
 3- By inserting the body into a plain hole and mounting with connection nuts, from above and from below (6010-3)

MODEL NO	A	B	C	C2	D	F	G	H	H2	H3	H4	H5	M	ØN	P	R	X	Y Min	Y Max	PİSTON Ø
6015 - 25	50	16	25	50	M 40 x 1,5	37	114	87	134	148	12	62	M6	5,5	66	M5	16	20	39	25
6015 - 32	60	16	30	60	M 50 x 1,5	45	132	100	152	172	10	73	M8	6,5	80	G1/8	22	19	46	32
6015 - 40	65	16	35,5	68	M 55 x 1,5	50	132	100	156	181	10	73	M8	6,5	85	G1/8	23,5	22	47	40
6015 - 50	75	20	41,5	79	M 65 x 1,5	58	146	106	176	202	11	79	M12	8,5	100	G1/8	26	2	45	50

6016



MODEL NO	F1 (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%)	BAR
6016 - 25R	170	0,15	28	430	6
6016 - 25L	170	0,15	28	430	6
6016 - 32R	270	0,28	30	750	6
6016 - 32L	270	0,28	30	750	6
6016 - 40R	450	0,47	30	840	6
6016 - 40L	450	0,47	30	840	6
6016 - 50R	700	0,88	36	1270	6
6016 - 50L	700	0,88	36	1270	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)

Not: Filtrelenmiş ve yağlanmış hava kullanılmalıdır.
Note: Operate only with filtered and lubricated air.



DÖNER TİP PNÖMATİK BAĞLANTI ELEMANI - FLANŞ BAĞLANTILI GÖVDE

- Silindir çift etkilidir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksal kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.

Aksesuarlar : (fiyata dahil değildir)

- 1-) Sıkma kolu (6010-1)
- 2-) Sıkma kolu (6010-7)
- 3-) Bağlantı somunu (6010-3)
- 4-) Bağlantı flanşı (6010-4)
- 5-) Baskı ucu (911, 912, 913, 914, 915, 916)
- 6-) Sıkma kolu adaptörü (6010-8)



PNEUMATIC SWING CLAMP - FLANGE MOUNTING BODY

- Cylinder is double actin.
- The body is made of strength aluminum. Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.

Accessories : (not included in the price)

- 1-) Squeezing arm (6010-1)
- 2-) Squeezing arm (6010-7)
- 3-) Connection nut (6010-3)
- 4-) Connection flange (6010-4)
- 5-) Squeeze part (911, 912, 913, 914, 915, 916)
- 6-) Squeezing Arm Adapter (6010-8)

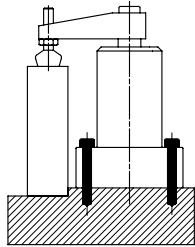


Montaj seçenekleri

Mounting options

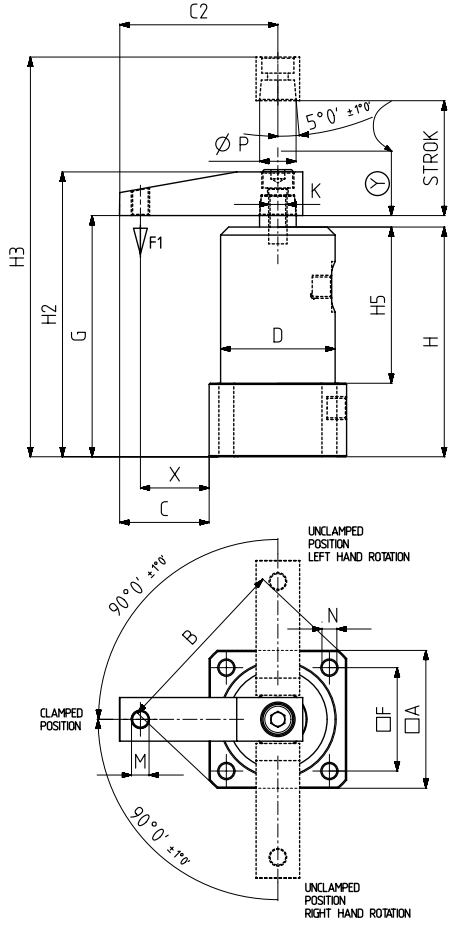
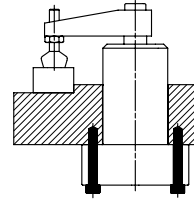
1-Flanş sayesinde imbus cıvata (DIN 912) ile yukarıdan montaj.

1- Mounting from above with imbus bolt through the flange. (DIN 912)



2-Flanş sayesinde imbus cıvata (DIN 912) ile aşağıdan montaj.

2- Mounting from below with imbus bolt through the flange. (DIN 912)



MODEL NO	A	B	C	C2	ØD	F	G	H	H2	H3	H4	H5	H6	K	M	ØN	P	R	X	Y	PİSTON Ø
6016 - 25R	50	66	31	56	40	37	92	87	108	136	16	62	45	M8	M6	5,5	14	M5	25	12	25
6016 - 25L	50	66	31	56	40	37	92	87	108	136	16	62	45	M8	M6	5,5	14	M5	25	12	25
6016 - 32R	60	80	40	70	50	45	105	100	125	155	21	68	53	M8	M8	6,5	16	G1/8	30	10	32
6016 - 32L	60	80	40	70	50	45	105	100	125	155	21	68	53	M8	M8	6,5	16	G1/8	30	10	32
6016 - 40R	65	85	47,5	80	55	50	105	100	125	155	21	68	53	M8	M8	6,5	16	G1/8	37,5	10	40
6016 - 40L	65	85	47,5	80	55	50	105	100	125	155	21	68	53	M8	M8	6,5	16	G1/8	37,5	10	40
6016 - 50R	75	100	52,5	90	65	58	111	106	136	172	20	74	63	M10	M12	8,5	20	G1/8	42,5	15	50
6016 - 50L	75	100	52,5	90	65	58	111	106	136	172	20	74	63	M10	M12	8,5	20	G1/8	42,5	15	50

Not: Döner Tip Bağlantı Elemanları, sadece "Y" stroğu sırasında sıkma yapabilir.
Note: Swing clamps can squeezing only during the "Y" stroke.

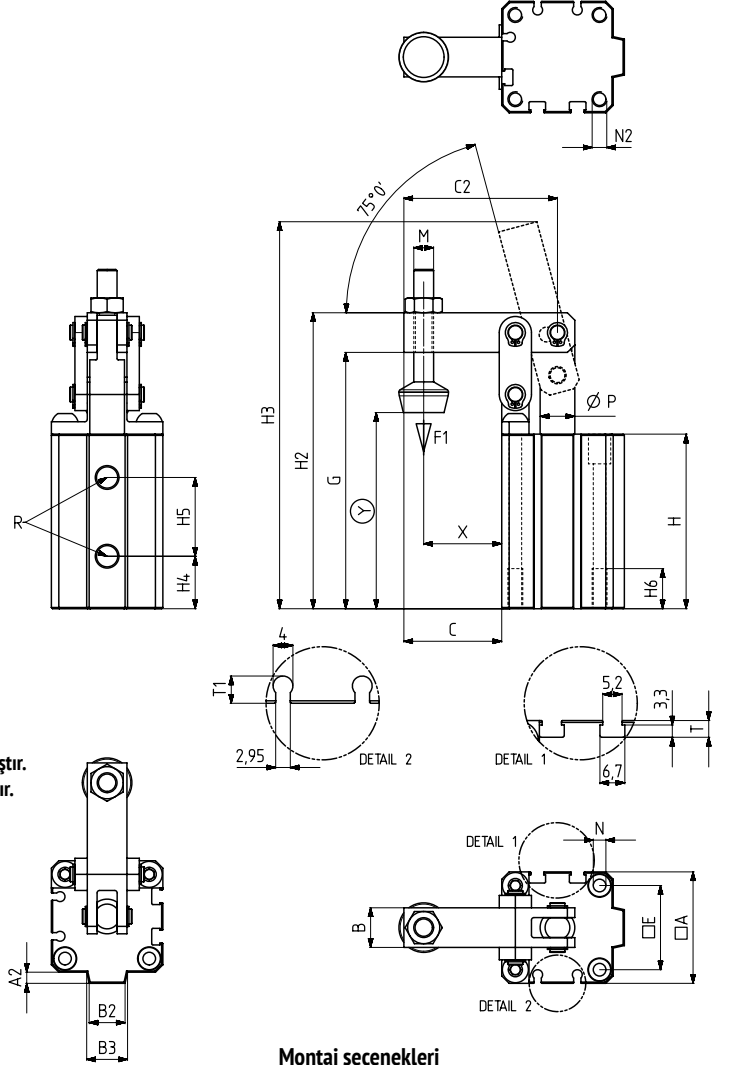
6017



MODEL NO	F1 (N)	Vn (dm³)	BASKI VİDASI (SQUEEZE SCREW)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
6017 - 25	100	0,13	M6 x 40	360	6
6017 - 32	300	0,19	M8 x 50	530	6
6017 - 40	500	0,38	M8 x 50	720	6
6017 - 50	700	0,79	M10 x 70	1110	6

F1 : BASKI KUVVETİ (EXERTING FORCE)

Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



PNÖMATİK BAĞLANTI ELEMANI - LİNK KARE GÖVDE

- Silindir çift etkili ve manyettiktir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksallı kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.
- Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanallar mevcuttur.

Aksesuarlar : (fiyata dahil değildir)

1-) Baskı ucu (911, 912, 913, 914, 915, 916)

PNEUMATIC TOGGLE CLAMP - LINK SQUARE BODY

- Cylinder is double acting and magnetic.
- The body is made of strength aluminum. Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.
- Parts of the mechanism are made of steel and phosphate coated for corrosion resistance.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.

Accessories : (not included in the price)

1-) Squeeze part (911, 912, 913, 914, 915, 916)



6011

Sayfa/Page: 101



6012

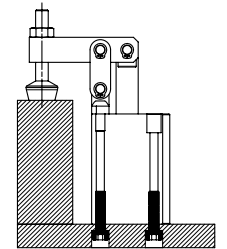
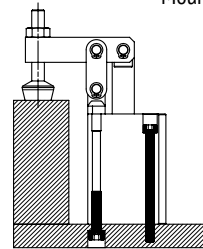
Sayfa/Page: 102



6031

Sayfa/Page: 114

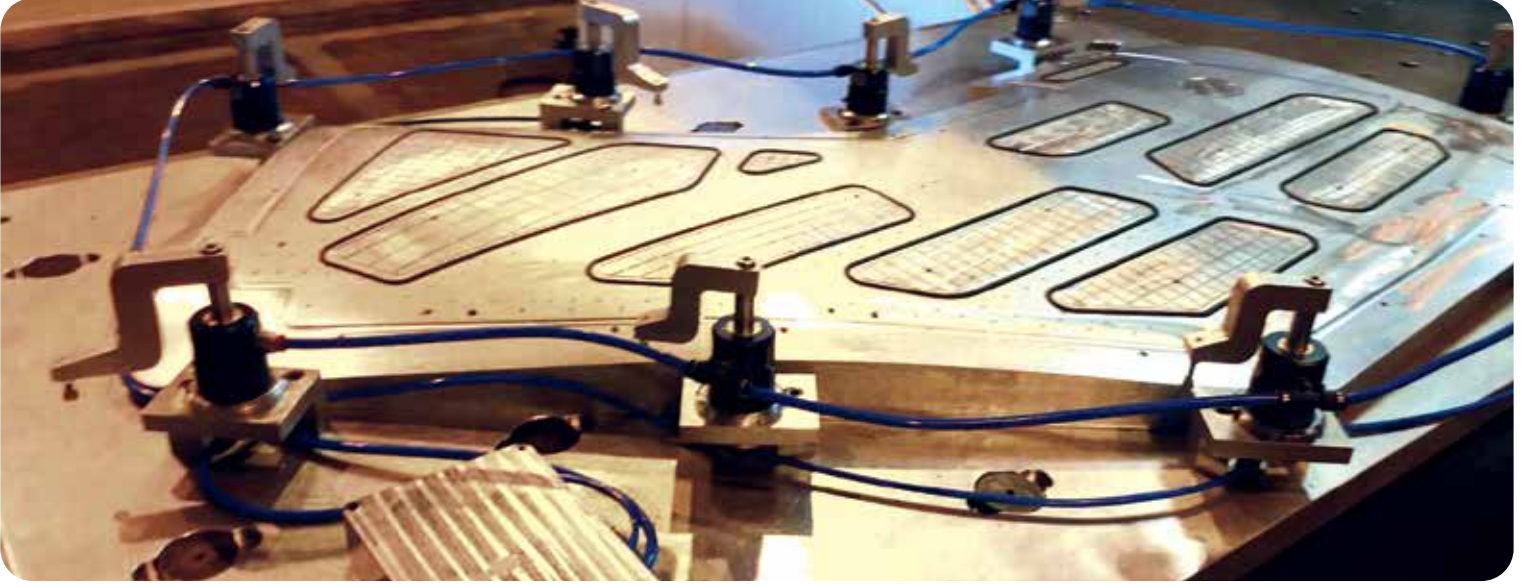
Montaj seçenekleri Mounting options



1- Gövde üzerindeki deliklerden imbus cıvata (DIN 912) ile yukarıdan montaj.
1- Mounting from above with socket bolt (DIN 912) through to holes on the body.

2- Gövde alt yüzeyindeki, klavye çekilmiş delikler kullanılarak montaj.
2- Mounting through to tapped holes on the lower surface of body.

MODEL NO	A	A2	B	B2	B3	C	C2	E	G	H	H2	H3	H4	H5	H6	M	N	N2	P	R	T	T1	X	Y Min	Y Max	PİSTON Ø
6017 - 25	40	4	14	10,5	12,5	34	54	29	80,5	58	94,5	124,5	15,6	30,9	15	M6	Ø5,1	M6	12	M5	5	5,5	27	54	70	25
6017 - 32	45	4,5	16	14,5	16,5	37,5	60	34	96	66,5	112	145	21,2	33,2	17	M8	Ø5,1	M6	14	G1/8	4,5	5,5	29,5	61	83	32
6017 - 40	55	5	16	19,5	24	32,5	60	40	104	72	119	148	21,2	38,8	17	M8	Ø5,5	M8	14	G1/8	6,5	7	24,5	69	91	40
6017 - 50	64	6	20	20	23	38	70	50	115	79	135	165	20,2	46,6	17	M10	Ø6,5	M8	20	G1/8	6	6,5	28	63	98	50



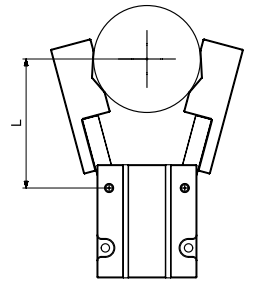
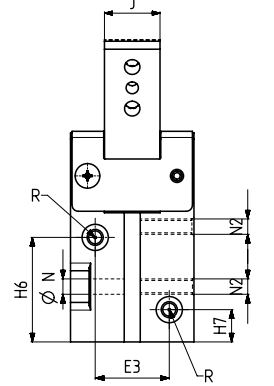
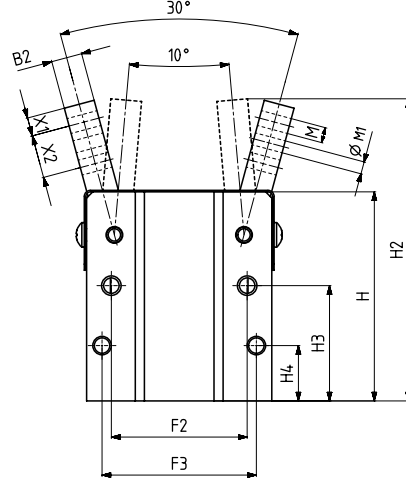
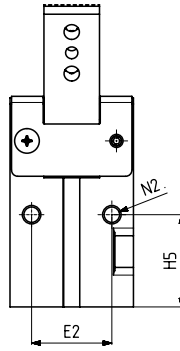
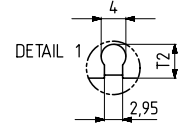
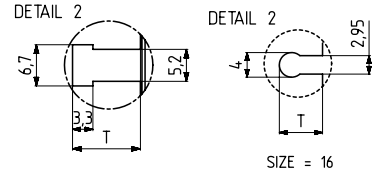
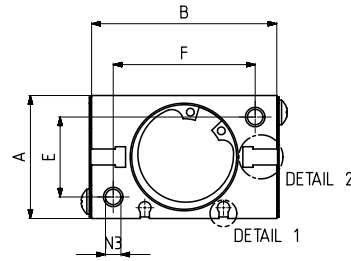
6021

MODEL NO	PİSTON Ø	Strok (mm)	Teorik Moment (Theorem Moment) (M)		Max. Tutma Uzaklığı (Max. Length of Gripping) (L)	Sıkma Kuvveti (Holding Force) (F)	Sıkma Kuvveti (N) (Clamping Force) (N) 5 bar / for 5 bar		Çene Açısı (Jaw Angle)	Çalışma Basınç Aralığı (Operation Pressure Range)	Max. Frekans (Max. Frequency)	AĞIRLIK (WEIGHT) (gr ±%)
			kapalı (closed)	açık (open)			kapalı (closed)	açık (open)				
6021 - 16	16	4	9 x P	12 x P	4	$F = M / L \times 0.85$	10	15	-10° ~ 30°	1,5 - 7 bar	180 cycles/min	100
6021 - 20	20	6	17 x P	23 x P	6		20	30				200
6021 - 25	25	7	34 x P	44 x P	7		45	60				330
6021 - 32	32	8,5	61 x P	81 x P	8,5		85	100				520

L : Tutma Uzaklığı / Length of Gripping (cm) M : Teorik Moment / Theorem Moment (N.cm)

F : Sıkma Kuvveti / Holding Force (N) P : Uygulama Basıncı / Operation Pressure (bar)

Sıkma Kuvvetleri : P = 5 bar basınç ile L = 3 cm tutma uzaklığı durumunda geçerlidir / Clamping forces are valid in case of P = 5 bar pressure with gripping length L = 3 cm



PNÖMATİK TUTUCU - AÇILI HAREKET

- Silindir çift etkili ve manyetik.
- Gövde mukavemetli alüminyumdan üretilmiştir.
- Tutucu çeneler çelikten üretilmiş ve sertleştirilmiştir.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanallar mevcuttur.

PNEUMATIC GRIPPER - ANGLED MOTION

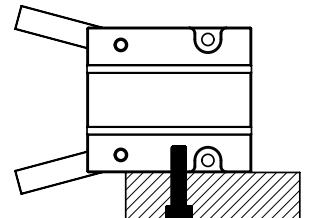
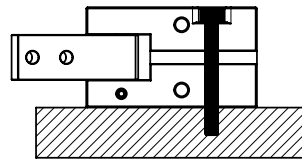
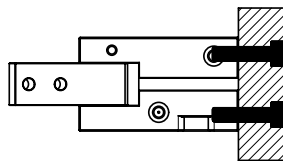
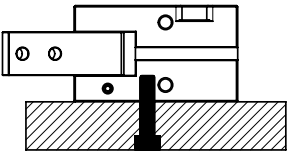
- Cylinder is double acting and magnetic.
- The body is made of strength aluminum.
- The gripper jaws made of steel and hardened.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.

Montaj seçenekleri

* Pnömatik tutucu ergonomik tasarımı sayesinde 4 farklı şekilde montaj yapılabilir.

Mounting options

* Pneumatic gripper can be mounted 4 different way through to ergonomic design.



MODEL NO	A	B	B2	E	E2	E3	F	F2	F3	H	H2	H3	H4	H5	H6	H7	J	M	M1 (H7)	N	N2	N3	R	T	T2	X1	X2
6021 - 16	22	34	6	14	14	10,5	26	24	28	46,5	64	25,5	13	19	24	7	9	M3	2	3,3	M4	M4	M5	6,8	4	3	8
6021 - 20	26	45	7	16	16	15	35	30	36	55	77	28	14,5	22	27,5	8	12	M4	2,5	4,2	M5	M5	M5	10	4,15	4	10
6021 - 25	32	52	9	20	20	18	40	36	36	58,5	84,5	28,5	15	22	29	8	14	M5	3	4,2	M5	M5	M5	10,5	4,5	5	12
6021 - 32	40	60	10	26	26	24	46	44	50	68	98	37,5	18	30	33,5	10	18	M6	4	5	M6	M6	M5	11	5,5	6	14

6022



MODEL NO	PİSTON Ø	Strok (mm)	Max. Tutma Uzaklığı (Max. Length of Gripping) (L)	Sıkma Kuvveti (N) (Clamping Force) (N) 5 bar / for 5 bar		Çalışma Basınç Aralığı (Operation Pressure Range)	Max. Frekans (Max. Frequency)	AĞIRLIK (WEIGHT) (gr ±%)
				kapalı (closed)	açık (open)			
6022 – 16	16	4	4	24	18	1,5 - 7 bar	180 cycles/min	140
6022 – 20	20	6	6	47	35			260
6022 – 25	25	7	7	75	60			430
6022 – 32	32	8,5	8,5	100	85			700

L : Tutma Uzaklığı / Length of Gripping (cm) M : Teorik Moment / Theorem Moment (N.cm)

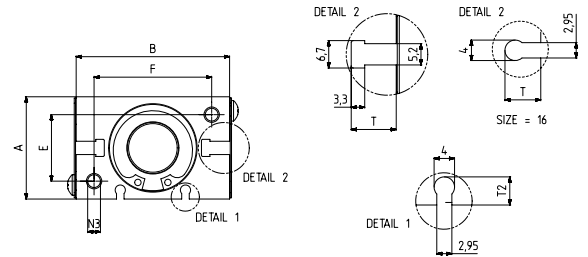
F : Sıkma Kuvveti / Holding Force (N) P : Uygulama Basıncı / Operation Pressure (bar)

Sıkma Kuvvetleri : P = 5 bar basınç ile L = 3 cm tutma uzaklığı durumunda geçerlidir / Clamping forces are valid in case of P = 5 bar pressure with gripping length L = 3 cm



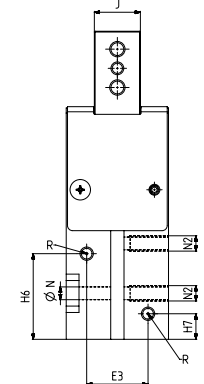
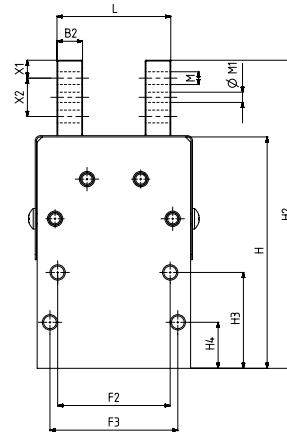
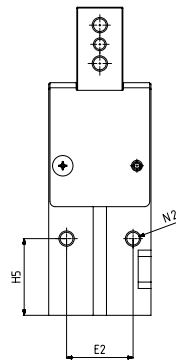
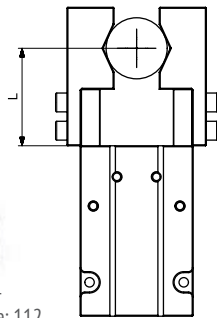
PNÖMATİK TUTUCU - DİKEY PARALEL HAREKET

- Silindir çift etkili ve manyetikdir.
- Gövde mukavemetli alüminyumdan üretilmiştir.
- Tutucu çeneler çekilten üretilmiş ve sertleştirilmiştir.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanallar mevcuttur.
- Tutma eylemi, piston itme konumunda iken gerçekleştiği için daha fazla sıkıştırma kuvveti sağlanır.



PNEUMATIC GRIPPER - VERTICAL PARALLEL MOTION

- Cylinder is double acting and magnetic.
- The body is made of strength aluminum.
- The gripper jaws made of steel and hardened.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.
- The Closing action of the gripper is generated from the cylinder's thrust side, resulting in a higher gripping force.



6021



6023

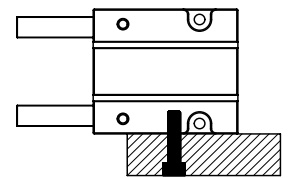
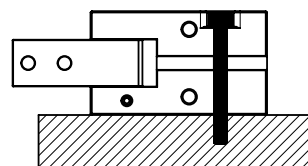
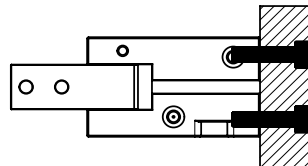
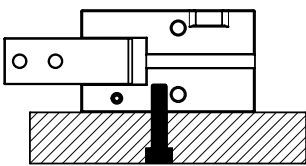


6024

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Montaj seçenekleri

* Pnömatik tutucu ergonomik tasarımı sayesinde 4 farklı şekilde montaj yapılabilir.



Mounting options

* Pneumatic gripper can be mounted 4 different way through to ergonomic design.

MODEL NO	A	B	B2	E	E2	E3	F	F2	F3	H	H2	H3	H4	H5	H6	H7	J	L Min	L Max	M	M1 (H7)	N	N2	N3	R	T	T2	X1	X2
6022 – 16	22	34	6	14	14	10,5	26	24	28	61	76	25,5	13	19	24	7	11	25	33	M3	2	3,3	M4	M4	M5	6,8	4	3	8
6022 – 20	26	45	7	16	16	15	35	30	36	73,5	95,5	28	14,5	22	27,5	8	12	32	44	M4	2,5	4,2	M5	M5	M5	10	4,2	4	10
6022 – 25	32	52	9	20	20	18	40	36	40	80	104	28,5	15	22	29	8	14	37	51	M5	3	4,2	M5	M5	M5	11	4,5	5	12
6022 – 32	40	60	10	26	26	24	46	44	50	90,5	120,5	37,5	18	30	33,5	10	18	43	59	M6	4	5	M6	M6	M5	11	5,5	7	15

6023


MODEL NO	PİSTON Ø	Strok (mm)	Teorik Moment (Theorem Moment) (M)		Max. Tutma Uzaklığı (Max. Length of Gripping) (L)	Sıkma Kuvveti (Holding Force) (F)	Sıkma Kuvveti (N) (Clamping Force) (N) 5 bar / for 5 bar		Çene Açısı (Jaw Angle)	Çalışma Basınç Aralığı (Operation Pressure Range)	Max. Frekans (Max. Frequency)	AĞIRLIK (WEIGHT) (gr ±%)
			kapalı (closed)	açık (open)			kapalı (closed)	açık (open)				
6023 - 16	16	11,5	9 x P	12 x P	4	$F = M / L \times 0,85$	10	15	-2 - 182°	1,5 - 7 bar	180 cycles/min	135
6023 - 20	20	15,5	17 x P	23 x P	6		20	30				260
6023 - 25	25	19	34 x P	44 x P	7		45	60				440
6023 - 32	32	22	61 x P	81 x P	8,5		85	100				770

L : Tutma Uzaklığı / Length of Gripping (cm) M : Teorik Moment / Theorem Moment (N.cm)

F : Sıkma Kuvveti / Holding Force (N) P : Uygulama Basıncı / Operation Pressure (bar)

Sıkma Kuvvetleri : P = 5 bar basınç ile L = 3 cm tutma uzaklığı durumunda geçerlidir / Clamping forces are valid in case of P = 5 bar pressure with gripping length L = 3 cm



PNÖMATİK TUTUCU - 180° AÇILI HAREKET

- Silindir çift etkili ve manyetik.
- Gövde mukavemetli alüminyumdan üretilmiştir.
- Tutucu çeneler çelikten üretilmiş ve sertleştirilmiştir.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanallar mevcuttur.

PNEUMATIC GRIPPER - 180° ANGLED MOTION

- Cylinder is double acting and magnetic.
- The body is made of strength aluminum.
- The gripper jaws made of steel and hardened.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.

Montaj seçenekleri

* Pnömatik tutucu ergonomik tasarımı sayesinde 4 farklı şekilde montaj yapılabilir.

Mounting options

* Pneumatic gripper can be mounted 4 different way through to ergonomic design.



6021

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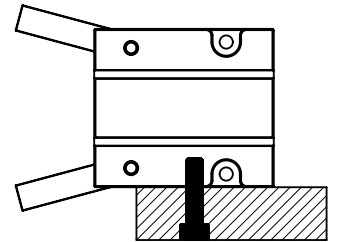
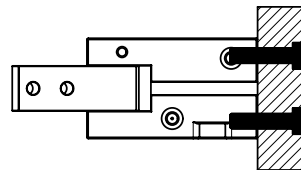
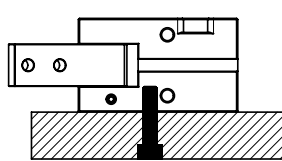
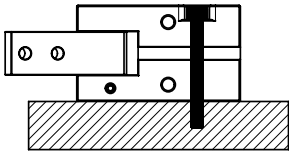
6022

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6024

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MODEL NO	A	B	B2	E	E2	E3	F	F2	F3	F4	F5	F6	H	H2	H3	H4	H5	H6	H7	H8	J	M	M1 (H7)	N	N2	N3	R	T	T2	X1	X2
6023 - 16	22	34	6	14	14	10,5	26	24	28	25,5	28	17,5	61,25	79	25,5	13	19	31	7	51,25	9	M3	2	3,3	M4	M4	M5	6,8	4	4	8
6023 - 20	26	45	7	16	16	15	35	30	36	34	35,5	22	73,5	95,5	28	14,5	22	37	8,25	60	12	M4	2,5	4,2	M5	M5	M5	10	4,15	4	10
6023 - 25	32	52	9	20	20	18	40	36	36	40	47	31	83	115	28,5	15	22	40,5	8	67	14	M5	3	4,2	M5	M5	M5	10,5	4,5	7	14
6023 - 32	40	60	10	26	26	24	46	44	50	46	56	38	98	135	37,5	18	30	47,5	10	79	18	M6	4	5	M6	M6	M5	11	5,5	9	16

6024



MODEL NO	PİSTON Ø	Strok (mm)	Max. Tutma Uzaklığı (Max. Length of Gripping) (L)	Sıkma Kuvveti (N) (Clamping Force) (N) 5 bar / for 5 bar		Çalışma Basınç Aralığı (Operation Pressure Range)	Max. Frekans (Max. Frequency)	AĞIRLIK (WEIGHT) (gr ±%2)
				kapalı (closed)	açık (open)			
6024 - 16	16	4	4	24	18	1,5 - 7 bar	180 cycles/min	140
6024 - 20	20	6	6	47	35			250
6024 - 25	25	7	7	75	60			410
6024 - 32	32	8,5	8,5	100	85			660

L : Tutma Uzaklığı / Length of Gripping (cm) M : Teorik Moment / Theorem Moment (N.cm)

F : Sıkma Kuvveti / Holding Force (N) P : Uygulama Basıncı / Operation Pressure (bar)

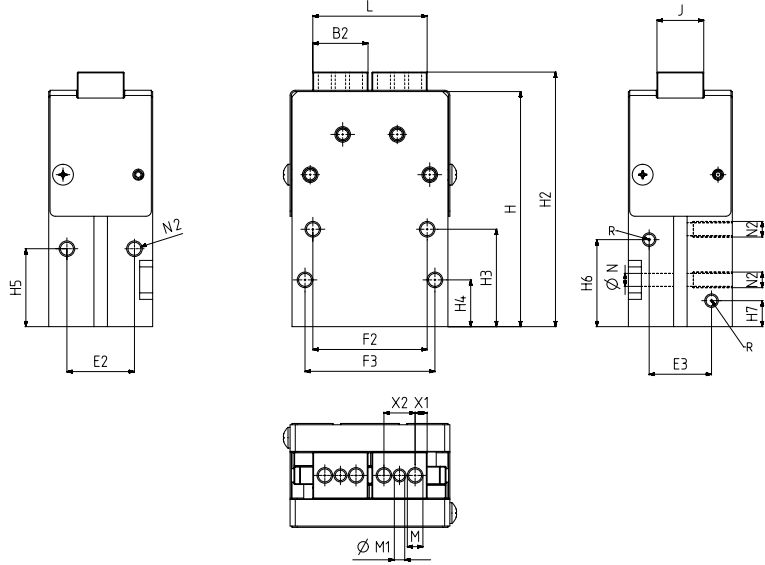
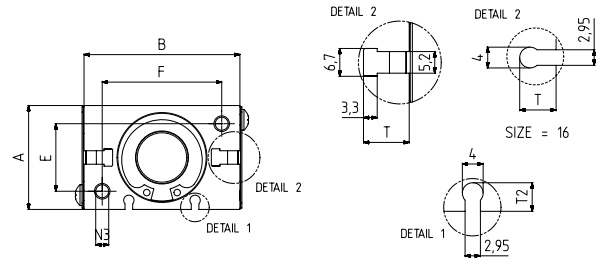
Sıkma Kuvvetleri : P = 5 bar basınç ile L = 3 cm tutma uzaklığı durumunda geçerlidir / Clamping forces are valid in case of P = 5 bar pressure with gripping length L = 3 cm

PNÖMATİK TUTUCU - YATAY PARALEL HAREKET

- Silindir çift etkili ve manyetiktir.
- Gövde mukavemetli alüminyumdan üretilmiştir.
- Tutucu çeneler çelikten üretilmiş ve sertleştirilmiştir.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanallar mevcuttur.
- Tutma eylemi, piston itme konumunda iken gerçekleştiği için daha fazla sıkıştırma kuvveti sağlar.

PNEUMATIC GRIPPER - HORIZONTAL PARALLEL MOTION

- Cylinder is double acting and magnetic.
- The body is made of strength aluminum.
- The gripper jaws made of steel and hardened.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.
- The closing action of the gripper is generated from the cylinder's thrust side, resulting in a higher gripping force.



6021

6022

6023

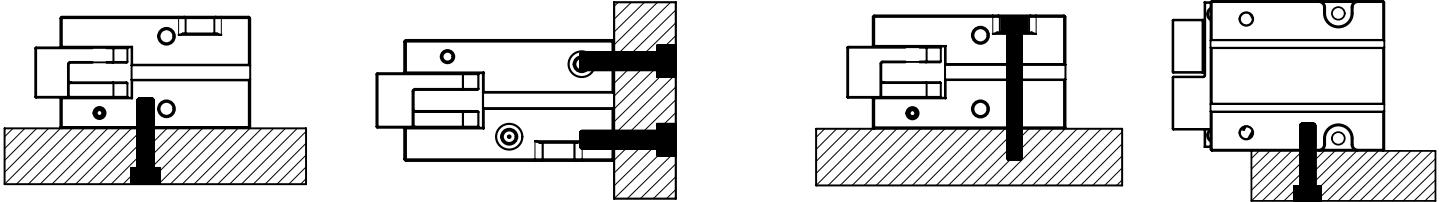
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Montaj seçenekleri

* Pnömatik tutucu ergonomik tasarımı sayesinde 4 farklı şekilde montaj yapılabilir.

Mounting options

* Pneumatic gripper can be mounted 4 different way through to ergonomic design.



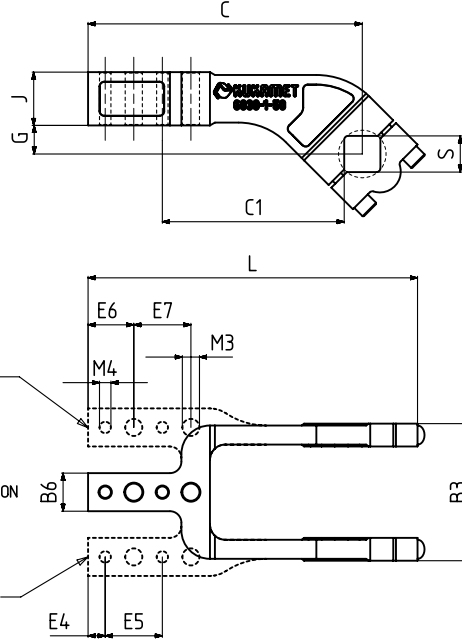
MODEL NO	A	B	B2	E	E2	E3	F	F2	F3	H	H2	H3	H4	H5	H6	H7	J	L Min	L Max	M	M1 (H7)	N	N2	N3	R	T	T2	X1	X2
6024 - 16	22	34	12	14	14	10,5	26	24	28	61	65	25,5	13	19	24	7	11	25	33	M3	2	3,3	M4	M4	M5	6,8	4	3	6
6024 - 20	26	45	16	16	16	15	35	30	36	73,5	78,5	28	14,5	22	27,5	8	12	32	44	M4	2,5	4,2	M5	M5	M5	10	4,2	4	8
6024 - 25	32	52	18	20	20	18	40	36	40	80	86	28,5	15	22	29	8	14	37	51	M5	3	4,2	M5	M5	M5	11	4,5	4	10
6024 - 32	40	60	21	26	26	24	46	44	50	90,5	98	37,5	18	30	33,5	10	18	43	59	M6	4	5	M6	M6	M5	11	5,5	4,5	12

6030-1



new

Power Clamp Çene
Power Clamp Jaw



MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)
6030-1 - 50	1000
6030-1 - 50-R	1050
6030-1 - 50-L	1050



ORDERING EXAMPLE :

6030-1-50 (CLAMP ARM CENTER)
6030-1-50-R (CLAMP ARM RIGHT)
6030-1-50-L (CLAMP ARM LEFT)

MODEL NO	B3	B6	C	C1	E4	E5	E6	E7	G	J	L	M3	M4 (H7)	S
6030-1 - 50	72	20	144	95,5	9	30	24	30	14	30	173	9	6	19
6030-1 - 50-R	72	20	144	95,5	9	30	24	30	14	30	173	9	6	19
6030-1 - 50-L	72	20	144	95,5	9	30	24	30	14	30	173	9	6	19

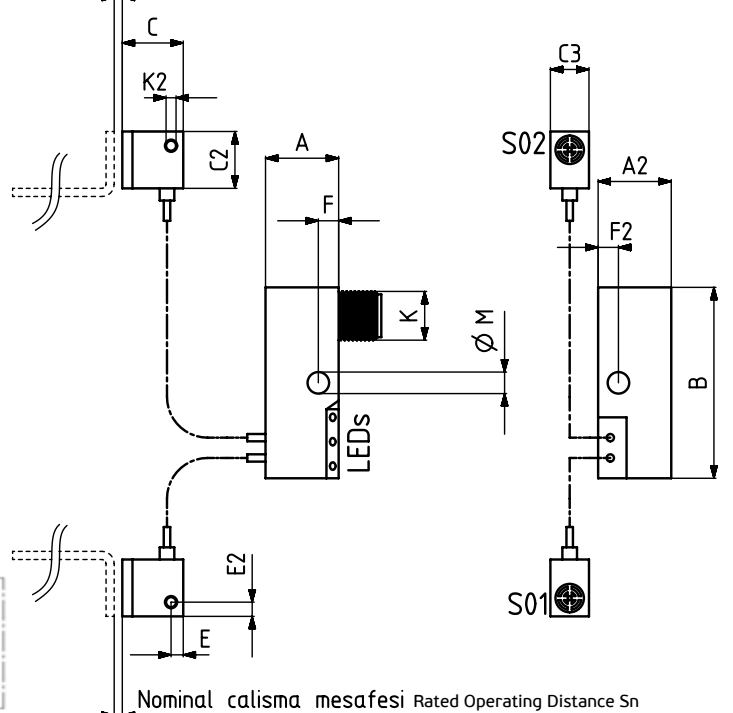
150-690

ÜRÜN ADI VE KODU (PRODUCT NAME AND CODE)	MODEL NO	NOMİNAL ÇALIŞMA MESAFESİ (RATED OPERATING DISTANCE SN)	TEKRARLANABİLİRLİK (REPEATABILITY)	ORTAM SICAKLIĞI (AMBIENT TEMPERATURE)	ÇALIŞMA GERİLİMİ (OPERATING VOLTAGE)	ÇALIŞMA AKIMI (DC RATED OPERATIONAL CURRENT)	GÜÇ AÇIK GÖSTERGESİ (POWER-ON INDICATON)	ANAHTARLAMA DURUMU (SWITCHING STATE)
TURCK NI2-Q9,5- AP6-0,1-FS4,4X3/ S304	150 - 690	2mm	≤ 2 %	-25...+70 °C	10...30VDC	≤ 150 mA	YEŞİL	SARI / KIRMIZI

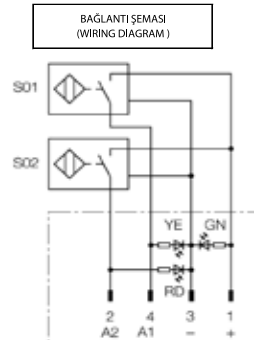


new

Nominal çalışma mesafesi Rated Operating Distance Sn



Power Clamp Sensör
Power Clamp Sensor

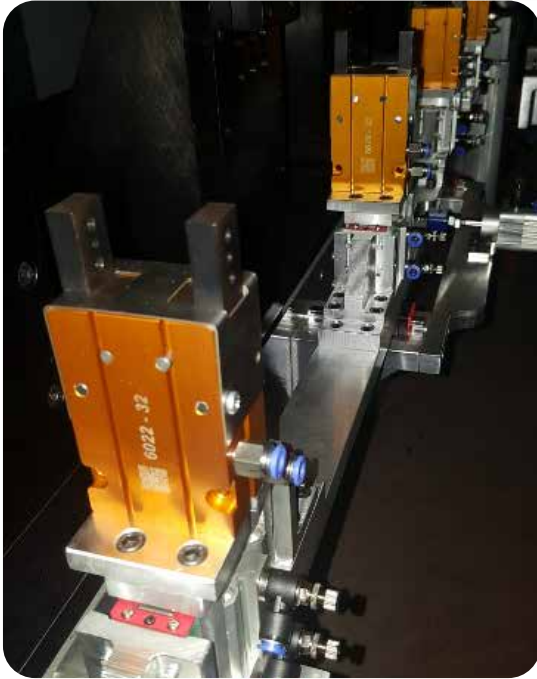
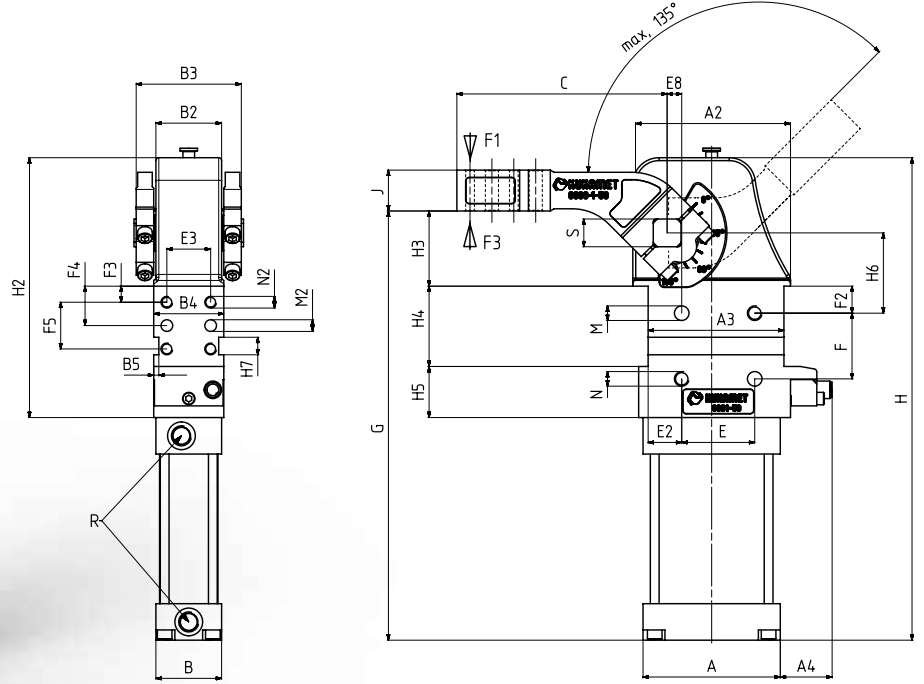


ÜRÜN ADI VE KODU (PRODUCT NAME AND CODE)	MODEL NO	A	A2	B	C	C2	C3	E	E2	F	K	K2	M
TURCK NI2-Q9,5-AP6-0,1-FS4,4X3/S304	150 - 690	18	18	47	15	14	9,5	3	3,5	5	M12x1	M3	5,3

6031

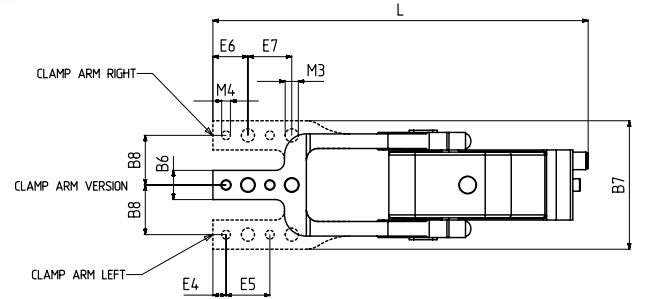


MODEL NO	SIKMA KUVVETİ (CLAMPING MOMENT) (at 5 bar) (Nm) F1	TUTMA KUVVETİ (HOLDING MOMENT) (Nm) F3	AĞIRLIK (WEIGHT) (gr ±%2)
6031 - 50	160	800	3500



ORDERING EXAMPLE :

6031-50 (CLAMP ARM CENTER)
6031-50-R (CLAMP ARM RIGHT)
6031-50-L (CLAMP ARM LEFT)



MODEL NO	A	A2	A3	A4	B	B2	B3	B4	B5	B6	B7	B8	C	E	E2	E3	E4	E5	E6	E7	E8
6031 - 50	94	108	93	35,5	45	45	72	48	3,5	20	88	34	144	50	23	30	9	30	24	30	10

MODEL NO	F	F2	F3	F4	F5	G	H	H2	H3	H4	H5	H6	H7	J	L	M (H7)	N	M2 (H7)	N2	M3	M4 (H7)	R	S
6031 - 50	45	18,5	11	27	32	294	330,5	178	50,5	55	35	55	12	30	257	Ø10	M10	Ø8	M8	9	6	G1/4	19

Optik Ölçüm Teknolojileri için Bağlantı Elemanları

Toggle Clamps For Optical Measurement
Technology

Ürün özellikleri;

Optik ölçüm cihazları ile kullanıma uygundur. Işık ve lazer yansımalarını önleyici fosfat kaplama yapılmıştır.

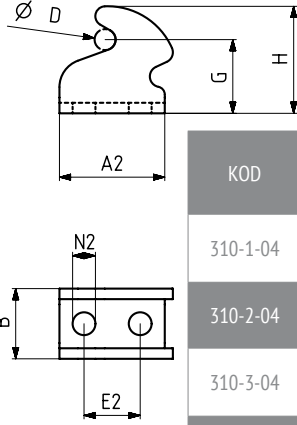
Features of product;

Suitable for usage with optical measurement devices,
phosphate coated against reflexions of light and laser.





311

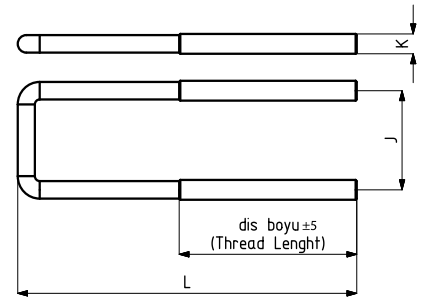


Gerdirme Parçası
Stretchers Parts

KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A2	B	D	G	H	E2	N2
310-1-04	311-312-321-331-332-351-1	S310-1-04	B310-1-04	12	24,5	15,5	Ø 3,5	12,5	19	10	Ø 5
310-2-04	311-312-331-332-351-2	S310-2-04	B310-2-04	19	28,5	15,5	Ø 3,5	16,5	23	12	5,5 x 7,5
310-3-04	311-312-331-332-351-421-3	S310-3-04	B310-3-04	36	30	20	Ø 5,5	21	30,5	16	Ø 6,5
310-4-04	311-312-331-332-351-4-5 371-4	S310-4-04	B310-4-04	86	45	28	Ø 7	27	39	19,5	8,5 x 10

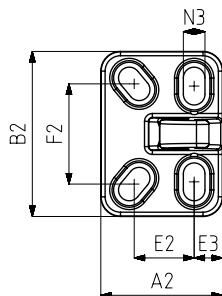
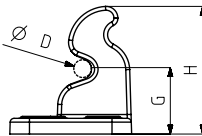
311

U Kanca
U Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	DİŞ BOYU (Thread length)
150 - 63	*311-312-321-331-332-351-1 311-312-331-332-351-2*	S 150 - 63	B 150 - 63	14	23	M4	90	45
150 - 591	*311-312-321-331-332-351-1 311-312-331-332-351-2*	S 150 - 591	B150 - 591	12	23	M4	75	45
150 - 155	*311-312-321-331-332-351-1 311-312-331-332-351-2*	S 150 - 155	B 150 - 155	22	23	M4	140	45
150 - 08	311-312-331-332-351-3	S 150 - 08	B 150 - 08	39	30	M6	105	75
150 - 156	311-312-331-332-351-3	S 150 - 156	B 150 - 156	56	30	M6	155	75
150 - 34	311-312-331-332-351-4-341-3	S 150 - 34	B 150 - 34	101	43	M8	145	95
150 - 198	311-312-331-332-351-4	S 150 - 198	B 150 - 198	135	43	M8	195	65
150 - 35	311-312-331-332-351-4	S 150 - 35	B 150 - 35	187	43	M8	295	85
150-539	311-312-331-332-351-4	-	-	175	43	M8	250	80,5
150 - 148	341-4	-	-	222	50	M10	210	130
150-512	341-4	-	-	260	50	M10	260	130
150 - 650	371-4	-	B150 - 650	85	43	M8	120	65
150 - 141	311-312-331-332-351-5	-	B 150 - 141	200	45	M10	180	110
150 - 200	311-312-331-332-351-5	-	B 150 - 200	257	45	M10	258	130
150-516	311-312-331-332-351-5	-	B 150 - 516	240	45	M10	230	130
150 - 285	341-5	-	-	229	54	M12	146	65

341



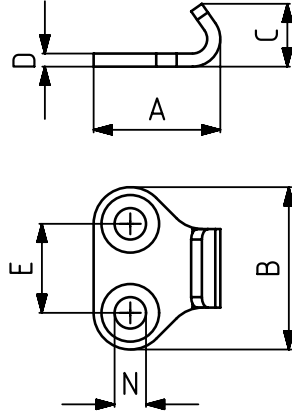
KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A2	B2	D	G	H	E2	F2	N3
340-3-03	341-3	210	49,5	67	Ø 8	27	52,5	24,5	41	8,5 x 14,5
340-4-03	341-4	400	62	84	Ø 10	33,5	65	30,5	51	11 x 19
340-5-03	341-5	510	66	84	Ø 12	33,5	65	31,5	51	11 x 19

Gerdirme Parçası
Stretchers Parts

361



Gerdirme Parçası
Stretcher Parts



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C	D	E	N
361-1-03	361-362-1	S 361 -1 -03	6	19,5	24,5	10	2	14	Ø 5
361-2-03	361-362-2-2-K	S 361 -2 -03	14	24	31	12	2,5	17	Ø 6
361-3-03	361-362-3-3-K	S 361 -3 -03	26	27	40	15	3	22	Ø 6

361

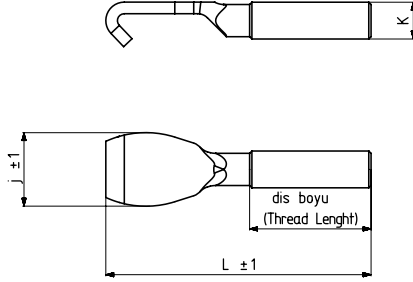
Kanca
Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	Diş BOYU (Thread lenght)
150 - 697	361 - 1	S 150-697	12	20	M5	50	23
150 - 267	361 - 2 - 361-2-K	S 150-267	24	28	M6	88,5	50
150 - 642	361 - 3 - 361-3-K	S 150-642	56	40	M8	95	40

362

Kanca
Hook

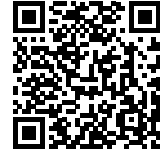
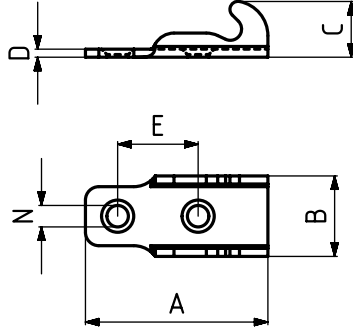


KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	Diş BOYU (Thread lenght)
150 - 270	362-1	S 150-270	10	10,5	M6	57	25
150 - 498	362-2	S 150-498	20	14	M8	57,5	25

363



Gerdirme Parçası
Stretcher Parts

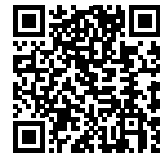
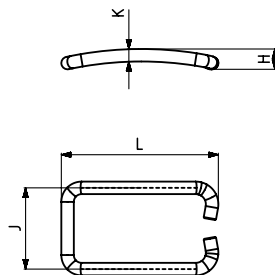


KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C	D	E	N
363-2-03	363-2	S 363-2-03	6	34	15	10,5	1,5	15	Ø 4

363

new

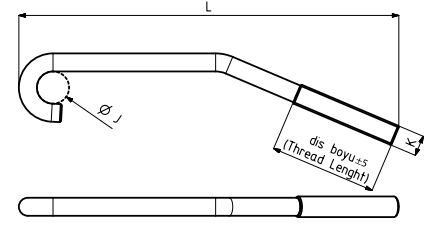
Kanca
Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	H	J	K	L
150 - 269	363-2	S 150-269	12	6,5	26	Ø4	50

411

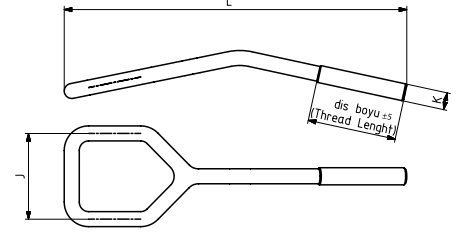
C Kanca
C Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	DİŞ BOYU (Thread lenght)
150 - 69	411-412 - 2	S 150-69	B 150-69	23	9	M6	122	50
150 - 13	411-412-413 - 3	S 150-13	B 150-13	54	12,5	M8	152	40
150 - 44	411-412 - 4	-	B 150-44	110	16	M10	197	55

421

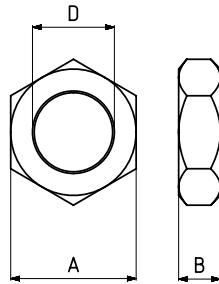
C Kanca
C Hook



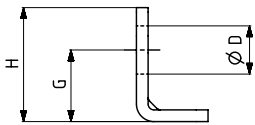
KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	DİŞ BOYU (Thread lenght)
150-139	421-3	S 150-139	B 150-139	77	40	M8	159	40

510

Somun
Nut

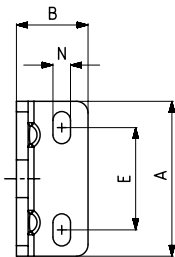


KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	D
150 - 327	511 - 0	S 511 -	B 511 -	11	17	6	M10 x 1
150 - 103	511-512-513 - 1	S 511 -	B 511 -	14	19	7	M12 x 1,5
150 - 74	511-512-513 - 2	S 511 -	B 511 -	19	24	8	M16 x 1,5
150 - 21	511-512-513 - 3	-	B 511 -	29	30	9	M20 x 1,5
150 - 50	511-512-513 - 5 - 6	-	B 511 -	62	36	10	M24 x 1,5



511

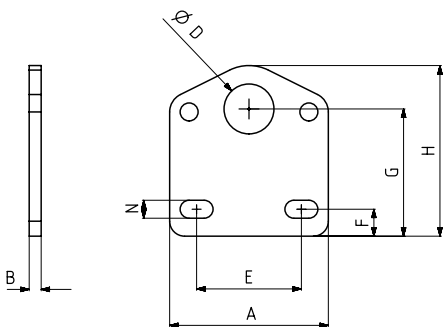
Yatay Taban
Horizontal Base



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	Ø D	E	G	H	N
510 - 1 - 01	511 - 1	S 511 -	B 511 -	36	44	20	12,5	26,5	19,5	30,5	5,5 x 10,5
510 - 2 - 01	511 - 2	S 511 -	B 511 -	72	53	24,5	16,5	35	24,5	39	6 x 11
510 - 3 - 01	511 - 3	-	B 511 -	122	60	30	20,5	38	30,5	48	6,5 x 11
510 - 5 - 01	511 - 5 / 511 - 6	-	B 511 -	250	78	36	24,5	49,5	38	61	8,5 x 16

512

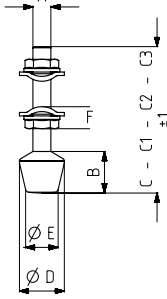
Dik Taban
Vertical Base



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	Ø D	E	F	G	H	N
510 - 1 - 02	512 - 1	S 512 -	B 512 -	40	44	3	12,5	26,5	8,5	35	46	5,5 x 10,5
510 - 2 - 02	512 - 2	S 512 -	B 512 -	74	53	4	16,5	35	9	42,5	57	6 x 11
510 - 3 - 02	512 - 3	-	B 512 -	124	60	5	20,5	38	12,5	52	69	6,5 x 11
510 - 5 - 02	512 - 5 / 512 - 6	-	B 512 -	250	78	6	24,5	49,5	15	64,5	87,5	8,5 x 16

911

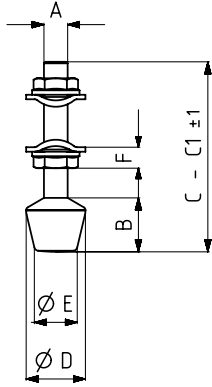
Silikon Uç
Silicon Squeeze Part



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	SİYAH GALVANİZ (BLACK GALVANIZED)	AĞIRLIK (WEIGHT) (gr ±%)	A CİVATA DIN 933 (SCREW DIN 933)	B	C	C1	C2	C3	D	E	F
150 - 181	911 - 0	S 911 -	B 911 -	BG 911 -	7	M 4 x 25	7	31	-	-	-	10	8	6
150 - 547	911 - 0 - C1	S 911 -	B 911 -	-	8	M 4 x 60	7	-	65,5	-	-	10	8	6
150 - 99	911 - 1	S 911 -	B 911 -	BG 911 -	12	M 5 x 35	10,5	43,5	-	-	-	12,5	9	7
150 - 545	911 - 1 - C1	S 911 -	B 911 -	-	14	M 5 x 60	10,5	-	68,5	-	-	12,5	9	7
150 - 86	911 - 2	S 911 -	B 911 -	BG 911 -	23	M 6 x 40	14,5	50,5	-	-	-	16	10,5	8
150 - 245	911 - 2 - C1	S 911 -	B 911 -	-	34	M 6 x 100	14,5	-	110,5	-	-	16	10,5	8
150 - 246	911 - 2 - C2	S 911 -	B 911 -	-	41	M 6 x 120	14,5	-	-	130,5	-	16	10,5	8
150 - 546	911 - 2 - C3	S 911 -	B 911 -	-	28	M 6 x 60	14,5	-	-	-	70,5	16	10,5	8
150 - 87	911 - 3	S 911 -	B 911 -	BG 911 -	46	M 8 x 50	18	63,5	-	-	-	20	14	10
150 - 247	911 - 3 - C1	S 911 -	B 911 -	-	55	M 8 x 70	18	-	83,5	-	-	20	14	10
150 - 283	911 - 3 - C2	S 911 -	B 911 -	-	75	M 8 x 130	18	-	-	143	-	20	14	10
150 - 641	911 - 3 - C3	S 911 -	B 911 -	-	22	M 8 x 35	18	-	-	-	48,5	20	14	10
150 - 88	911 - 4	-	B 911 -	BG 911 -	97	M 10 x 70	23,5	87	-	-	-	26,5	17	13
150 - 217	911 - 4 - C1	-	B 911 -	-	116	M 10 x 110	23,5	-	125	-	-	26,5	17	13
150 - 116	911 - 5	-	B 911 -	BG 911 -	156	M 12 x 80	27,25	100	-	-	-	30	21	15
150 - 354	911 - 5 - C1	-	B 911 -	-	174	M 12 x 110	27,25	-	130	-	-	30	21	15

BG911 NR

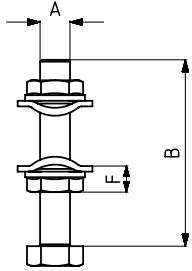
Doğal Kauçuk Uç
Natural Rubber Squeeze Part



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%)	A CİVATA DIN 933 (SCREW DIN 933)	B	C	D	E	F
BG150 - 181 - NR	BG911 - 0-NR	7	M 4 x 25	7	31	10	8	6
BG150 - 99 - NR	BG911 - 1-NR	12	M 5 x 35	10,5	43,5	12,5	9	7
BG150 - 86 - NR	BG911 - 2-NR	23	M 6 x 40	14,5	50,5	16	10,5	8
BG150 - 546 - NR	BG911 - 2-C3-NR	28	M 6 x 60	14,5	70,5	16	10,5	8
BG150 - 87 - NR	BG911 - 3-NR	46	M 8 x 50	18	63,5	20	14	10
BG150 - 88 - NR	BG911 - 4-NR	97	M 10 x 70	23,5	87	26,5	17	13
BG150 - 116 - NR	BG911 - 5-NR	156	M 12 x 80	27,25	100	30	21	15

M911

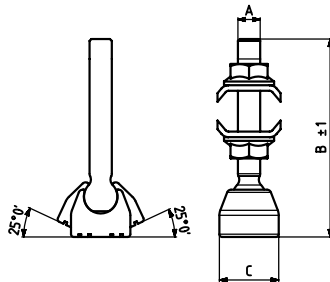
Metal Cıvata Uç
Metal Screw Part



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A CİVATA DIN 933 (SCREW DIN 933)	B	F
150 - 181 - 324 - 00	M911 - 0	S M911 -	B M911 -	7	M 4 x 25	25	6
150 - 99 - 263 - 00	M911 - 1	S M911 -	B M911 -	12	M 5 x 35	35	7
150 - 86 - 264 - 00	M911 - 2	S M911 -	B M911 -	23	M 6 x 40	40	8
150 - 87 - 265 - 00	M911 - 3	S M911 -	B M911 -	42	M 8 x 50	50	10
150 - 88 - 266 - 00	M911 - 4	-	B M911 -	89	M 10 x 70	70	13
150 - 116 - 328 - 00	M911 - 5	-	B M911 -	145	M 12 x 80	80	15

912

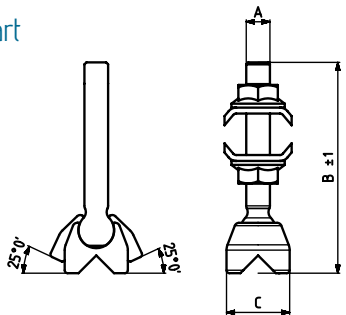
Metal Mafsal Uç
Swivel Metal Squeeze Part
PATENT NO: 20100115



MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	C
912 - 2	25°	36	M6	53,5	Ø15
912 - 3	25°	70	M8	63,5	Ø20
912 - 4	25°	149	M10	90	Ø26
912 - 5	25°	223	M12	103	Ø30

913

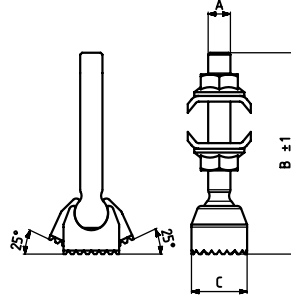
Metal V Mafsal Uç
V Grooved Swivel Metal Squeeze Part
PATENT NO: 20100115



MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	C
913 - 2	25°	32	M6	53,5	Ø15
913 - 3	25°	66	M8	63,5	Ø20
913 - 4	25°	142	M10	90	Ø26
913 - 5	25°	212	M12	103	Ø30

914

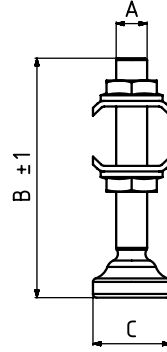
Metal Tırtır Mafsal Uç
Knurled Swivel Metal Squeeze Part
PATENT NO: 20100115



MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C
914 - 2	25°	33	M6	53,5	Ø15
914 - 3	25°	69	M8	63,5	Ø20
914 - 4	25°	148	M10	90	Ø26
914 - 5	25°	222	M12	103	Ø30

915

Metal Sabit Uç PATENT NO: 20100115
Fixed Metal Squeeze Part

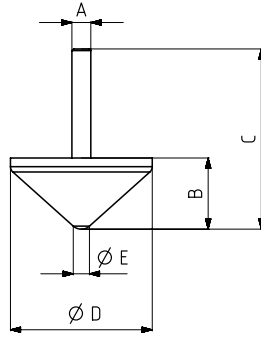


MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C
915 - 1	8	M5	43	Ø14
915 - 2	15	M6	53,5	Ø16
915 - 3	53	M8	64,5	Ø20
915 - 4	105	M10	86	Ø25
915 - 5	182	M12	98	Ø30

150-623

NBR Baskı Ucu
NBR Squeeze Part

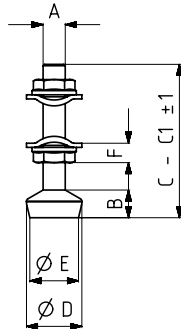
new



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	A CİVATA DIN 933 (SCREW DIN 933)	B	C	D	E
150 - 623	510-520-530-550-620-640-660-670-3	S150 - 623	155	M8 x 50	30	76	60	6,5

916

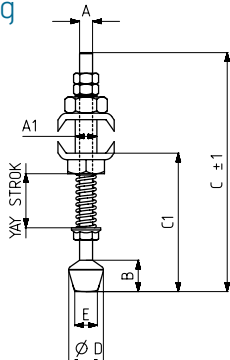
Silikon Uç
Silicon Squeeze Part



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A CİVATA DIN 933 (SCREW DIN 933)	B	C	C1	D	E	F
150 - 324	916 - 0	S 916 -	B 916 -	6	M4 x 25	5	29	-	10	9	6
150 - 526	916 - 0 - C1	S 916 -	B 916 -	10	M4 x 60	5	63,9	-	10	9	6
150 - 263	916 - 1	S 916 -	B 916 -	16	M 5 x 35	7	40	-	12	10	7
150 - 588	916 - 1 - C1	S 916 -	B 916 -	16	M 5 x 60	7	65	-	12	10	7
150 - 264	916 - 2	S 916 -	B 916 -	23	M 6 x 40	10	46	-	16	13	8
150 - 265	916 - 3	S 916 -	B 916 -	46	M 8 x 50	12	57	-	20	16	10
150 - 266	916 - 4	-	B 916 -	98	M10 x 70	16	79	-	26	20	13
150 - 328	916 - 5	-	B 916 -	152	M12 x 80	19	91	-	30	24	15

917

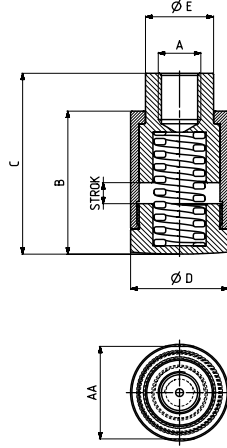
Yaylı Silikon Uç
Silicon Squeeze Part With Spring



KOD	MODEL NO	SİYAH (BLACK)	YAY STROK	AĞIRLIK (WEIGHT) (gr ±%2)	A CİVATA DIN 933 (SCREW DIN 933)	A1	B	C	C1	D	E
150 - 545	917 - 3	B 917 -	8	37	M 5 x 60	M8	10,5	68,5	35,5	12,5	9
150 - 246	917 - 4	B 917 -	14	82	M 6 x 120	M10	14,5	130,5	55 - 93,5	16	10,5
150 - 283	917 - 5	B 917 -	19	140	M 8 x 130	M12	18	143	69-88	20	14

918

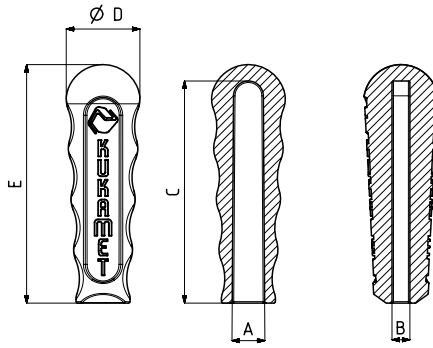
Çaylı Metal Uç
Metal Squeeze
Part With Spring



MODEL NO	F1 (N)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	A	AA	B	C MİN.	C MAX.	ØD	ØE
918 - 3	200	5	96	M8	22	34	38	43	23	16
918 - 4	250	5	93	M10	22	34	38	43	23	16
918 - 5	300	5	91	M12	22	34	38	43	23	16

921

Poliüretan Sap
Polyurethane Handle

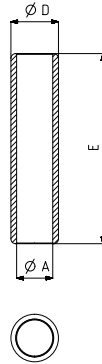


MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C	D	E
921 - 0	B 921 -	1	6,5	3	26,5	10,5	29
921 - 1	B 921 -	8	11	4	54	17,5	58
921 - 2	B 921 -	15	11	5	54	23	60
921 - 3	B 921 -	27	11	6	74	25	80
921 - 4	B 921 -	49	18	6	94	29	100
921 - 4	B 921 -	49	18	8	94	29	100
921 - 4	B 921 -	49	18	10	94	29	100



921-M

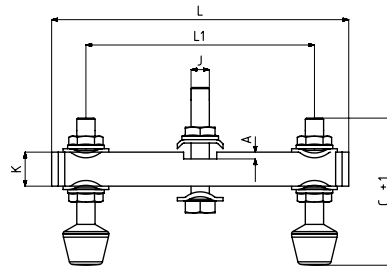
Metal Sap
Metal Handle



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A	D	E
921-1-2-M	110-210-310-330-410-510-710-810 - 1 - 2	44	12	16	60
921-1-2-M-C1	222-232-820 - 2	54	12	16	110
921-3-M	110-210-310-330-410-510-710-810 - 3	57	12	18	80
921-3-M-C1	110-210-310-330-410-510-710-810 - 3	90	12	18	130
921-4-M	110-210-310-330-410-4 / 110-210-310-5	164	19	25	100
921-4-M-C1	110-210-310-330-410-4 / 110-210-310-5	241	19	25	150

931

Çapraz Baskı Grubu
Squeeze Part With Double Point

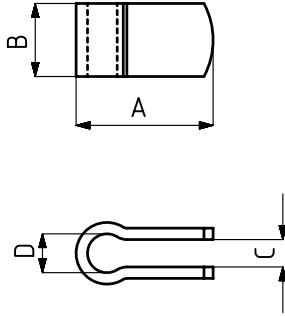


MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A	C	L	L1	J	K
931 - 1	B 931 -	60	2,5	43,5	90	30 - 70	M5	10
931 - 2	B 931 -	142	2,5	50,5	110	30 - 80	M6	16
931 - 3	B 931 -	289	3	63,5	130	40 - 100	M8	20
931 - 4	B 931 -	463	4	87	160	50 - 120	M10	20
931 - 5	B 931 -	774	5	100	180	60 - 140	M12	25



941-G

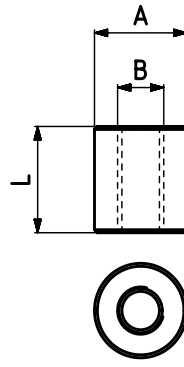
Lama U Bağlantı Grubu Bolt Retainers



MODEL NO	SİYAH (BLACK)	SİLİKON UÇ (SQUEEZE PART)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	C	D
941 - 1 - G	B 941 -	M5	6	25	10	5	Ø 6,5
941 - 2 - G	B 941 -	M6	10	25	13	5	Ø 6,5
941 - 2 - C1 - G	B 941 -	M6	16	35	13	6,5	Ø 6,5
941 - 3 - G	B 941 -	M8	20	30	16	6	Ø 8,5
941 - 4 - G	B 941 -	M10	35	37	20	8	Ø 10,5
941 - 5 - G	B 941 -	M12	61	40	25	10	Ø 12,5

951-G

Lama Uç Bağlantı Grubu Sleeve

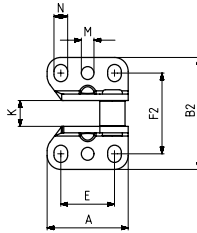
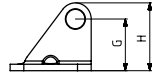


MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	L
951 - 1 - G	B 951 -	6	Ø 10	M5	12
951 - 2 - G	B 951 -	10	Ø 12	M6	15
951 - 3 - G	B 951 -	23	Ø 16	M8	18
951 - 4 - G	B 951 -	32	Ø 18	M10	22
951 - 5 - G	B 951 -	44	Ø 20	M12	27
951 - 6 - G	B 951 -	94	Ø 25	M12	32



961

Gerdirme Parçası Stretcher Parts

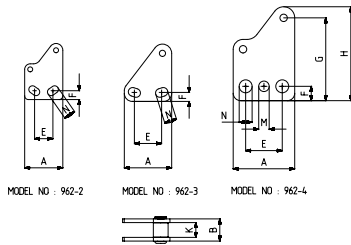


KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	E	G	H	K	M	N	F2	B2
961 - 2	411 - 2	S 961 -	B 961 -	50	31	15	26	31,5	10	-	6 x 9,5	32,5	47
961 - 3	411 - 3	S 961 -	B 961 -	65	38,5	22	24	31,5	12	-	7 x 10	37,5	52
961 - 4	411 - 4	-	B 961 -	210	50	30	40	49	16	8,5	10,5 x 15	60,5	84



962

Gerdirme Parçası Stretcher Parts

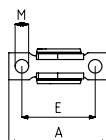
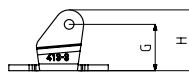


KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	E	F	G	H	K	M	N
962 - 2	412 - 2	S 962 -	B 962 -	51	31	15	15	7	40	45,5	10	-	6 x 9,5
962 - 3	412 - 3	S 962 -	B 962 -	65	38,5	18	22	7,3	39	46,5	12	-	7 x 10
962 - 4	412 - 4	-	B 962 -	220	50	24	30	11,5	67	76	16	8,5	Ø10,5



963

Gerdirme Parçası Stretcher Parts



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	E	M	G	H
963-3	413-3	S 963 -	B 963 -	46	51,5	38	7	24	31,5





HIZLI BAĞLANTI ELEMANLARI / TOGGLE CLAMPS

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01.07.2021

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