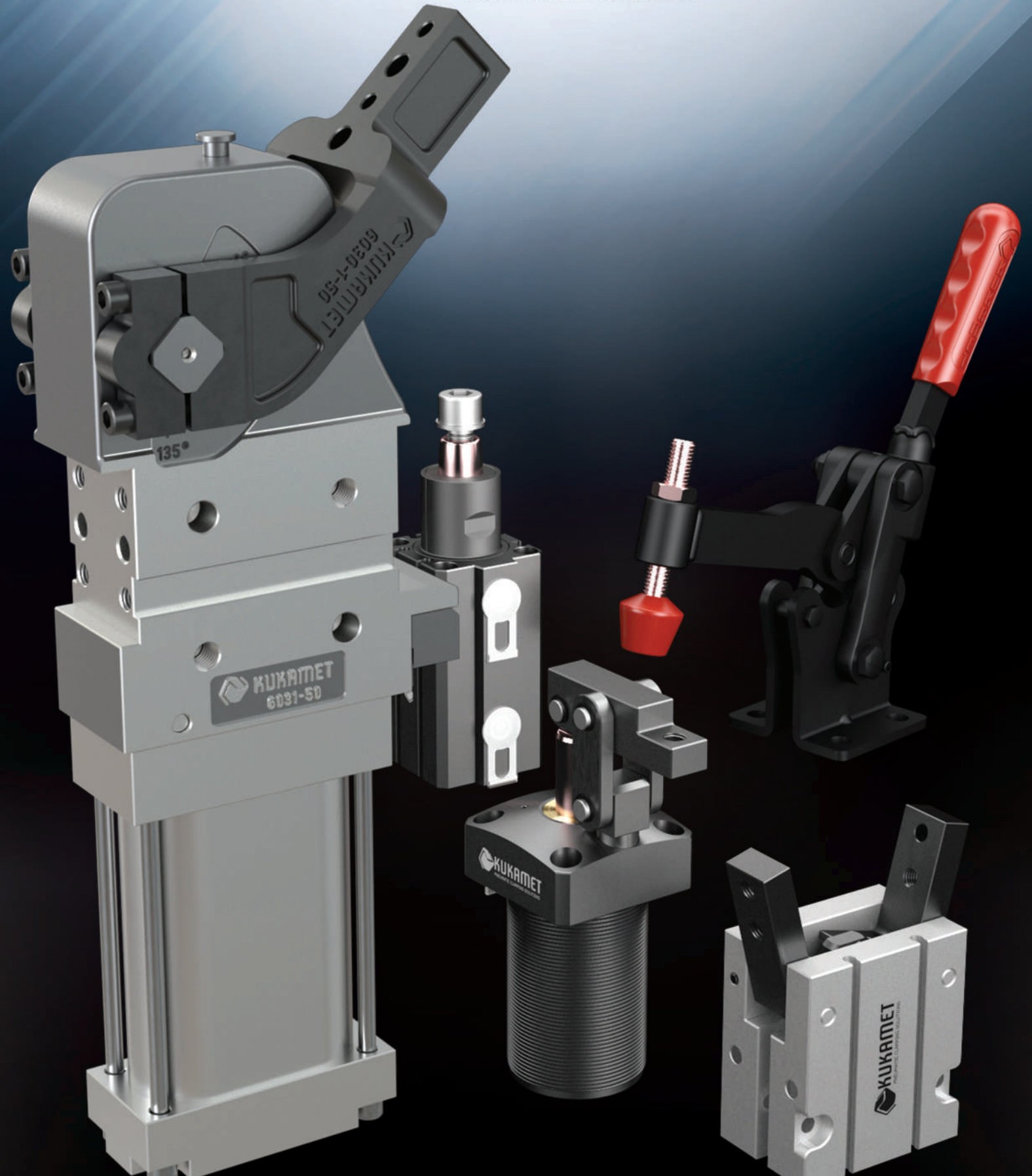




KUKAMET

PNEUMATIC CLAMPING SOLUTIONS

www.kukamet.com.tr



PNEUMATIC COMPONENTS FOR PRODUCTION ENGINEERING



KURUCUMUZUN MESAJI

1985 yılında Hasan Bey tarafından kurulan firmamız 40 yıllık tecrübeye sahiptir. 40 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 40 years of experience. With our 40 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 (Rohs Belgesi 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

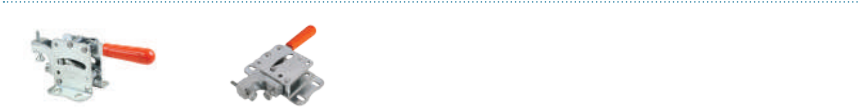
INDUSTRIAL USAGES

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

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 (Rosh certified handle)
- 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 Definition	Sayfa No Page No
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Sağlığa zararlı olmayan, kolay tutulabilen, yağ ve kırılmaya dayanıklı, ergonomik poliüretan 90 shore Rohs Belgeli Sap
Not be harmful to health polyurethane handles are ergonomic, easy grabbing and resistant to oil and break, 90 shore, Rosh certified handle.

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

ST52 yüksek mukavemetli, galvaniz kaplı, yüksek kaliteli çelik sac aksamı (S355J2+N)
ST52 high strength, galvanised, high-quality steel sheet (S355J2+N)

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

304 kalite 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

180 derece ısıya, yağ ve yanmaya dayanıklı, silikon, 90 shore baskı ucu
Clamping plastics are made of 90 shore silicon and resistant to burning and 180 °C degree temperature.

2 eksenli hareket imkanı baskı parçası ve bu baskı civatasının çıkması için kırım
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 esnek. Cadmiyumsuzdur. 80 °C sıcaklıkta yumuşar , 180 °C sıcaklıkta erir. Bu durumda metal saplarımız önerilir.
- Silikon uç ; -60 °C ile 180 °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.
- Doğal Kauçuk Uç ; -50 derece ile 90 derece sıcaklıklarda kullanılır. Özgül ağırlığı 18'dir Sertliği 20 A ile 90 A shore arasındadır Çekme gerilmesi 250-300kg/cm2 dir Uzama katsayısı %500-700 arasındadır. Doğal kauçuğun önemli bir başka özelliği de yük ve gerilim altında da yapısının düzünleşmesidir. Bu özelliğinden dolayı yapısında kuvvetlendirici dolgu maddesi olmasa bile kopma mukavemet değerleri artmaktadır, sürtünme ve aşınma direnci yüksektir.
- 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 koyulmuştur. Özel bir tasarım ile tekrarlama hassasiyeti sağlanmıştır.

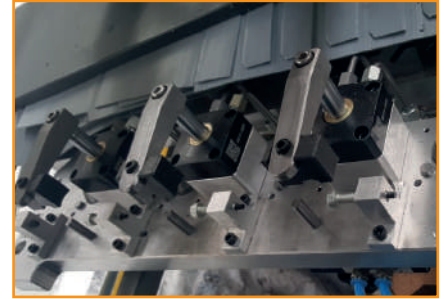
- All our standard model toggle clamps are manufactured from high grade steel
- Special designed of our R304 quality stainless steel rivets minimize wear and ensure long endurance.
- Bushings hardened by heat treatment reduce wear
- Lubricated hinges ensure easy operation and wear resistance
- Polyurethane oil resistant ergonomic handle; for easy operation, is impact resistant and flexible. No Cadmium. 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 180 °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.
- Natural Rubber Tip: It is used at temperatures between -50 degrees and 90 degrees. Its specific gravity is 1,8 kg. Its hardness is between 20 A and 90 A shore. The tensile stress is 250-300kg/cm². The elongation coefficient is between 500-700%. Another important feature of natural rubber is its smoothing under load and tension. Due to this feature, even if there is no reinforcing filler in its structure, its breaking strength values increase and its friction and wear resistance are high.
- 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 - 'S'

Stainless Steel Series - 'S'

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 - 'B'

Black Series - 'B'

Siyah seri ; özel olarak optik ölçüm uygulamaları için geliştirilmiştir. Uygulanan mat siyah fosfat kaplama ışık ve lazer ışınlarının yansımalarını 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 toplanabilmesini sağlar.

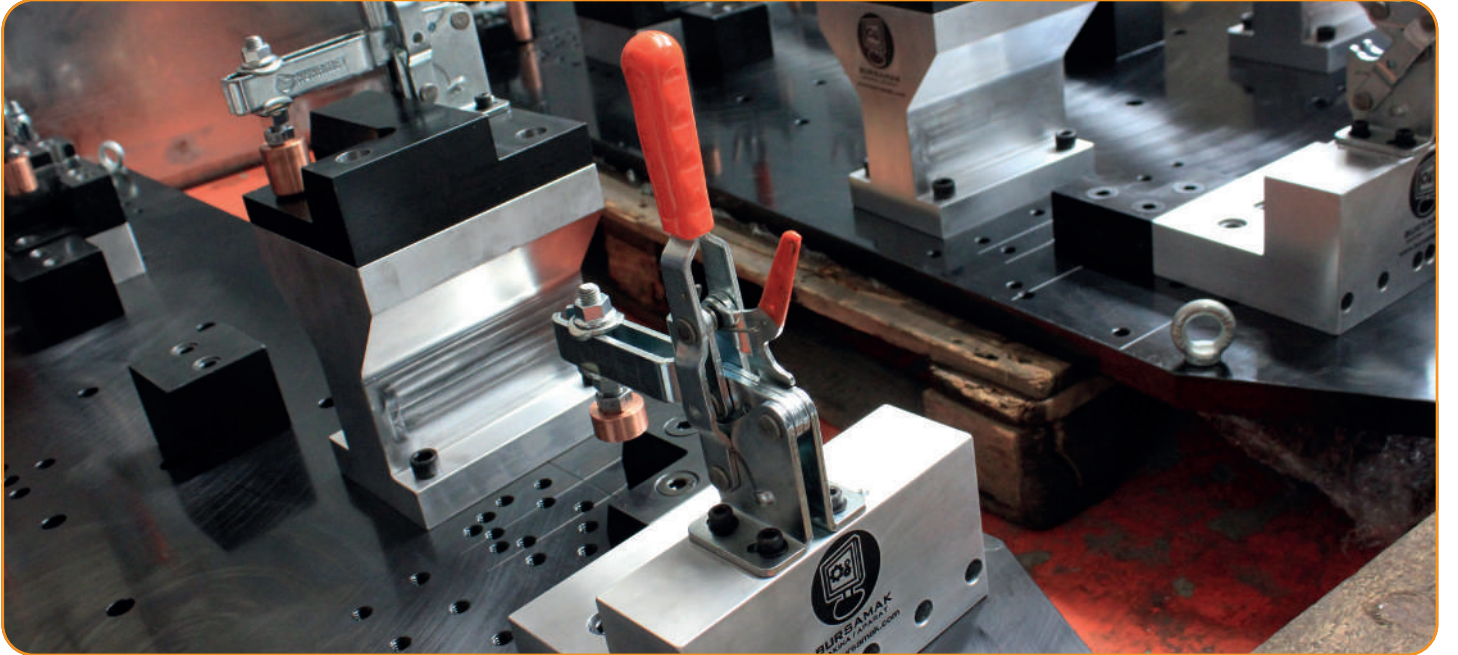
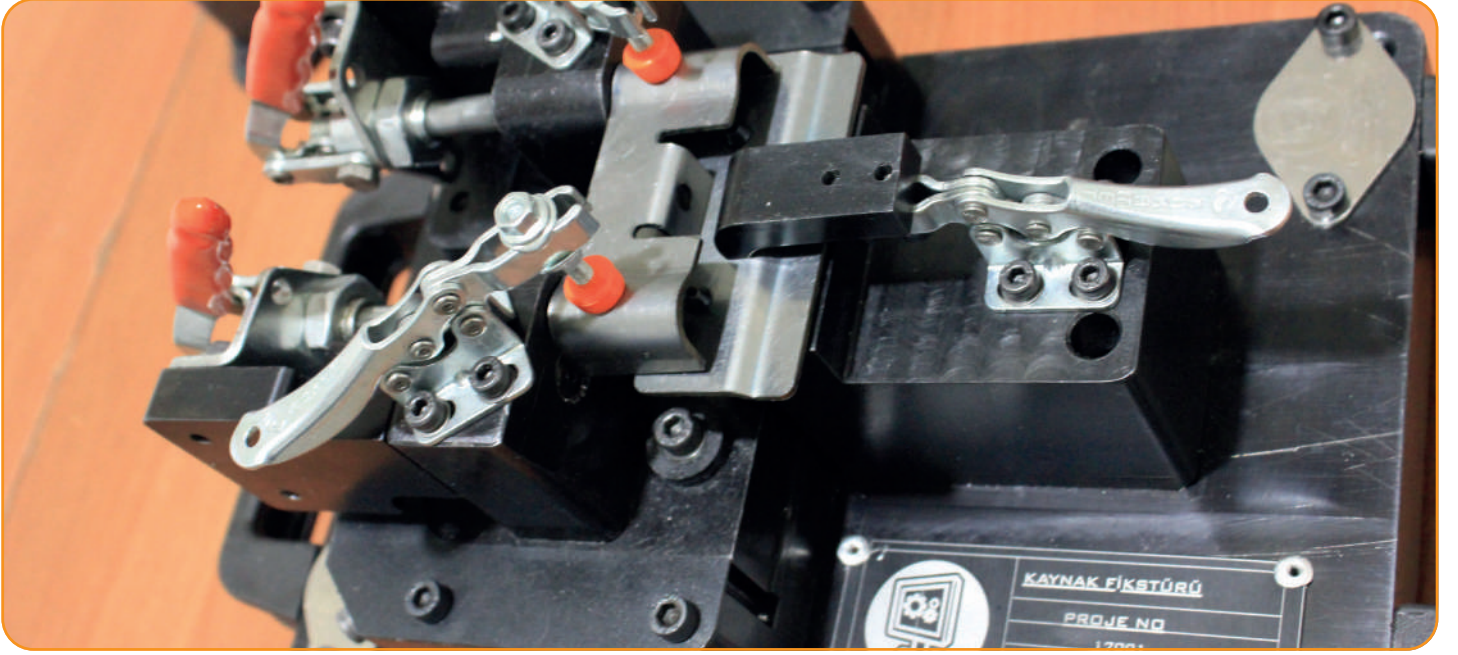
The black series is purpose designed for use with optical measurement applications. The application of a matt black phosphate coating prevents the reflection of light or laser beams, whilst also providing corrosion protection. The non-reflective properties of these clamps enable them to be isolated from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



**MANUEL
BAĞLANTI ELEMANLARI
MANUAL
TOGGLE CLAMPS**



*retim hıızlı ve gl kahramanları...
fast and strong heroes of production...*



111

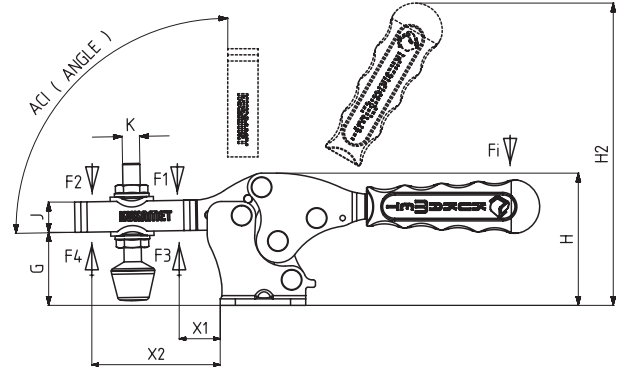
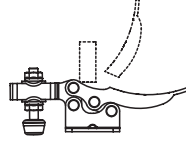


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
							(X1) VERİM (YIELD) (F1 : Fi)	(X2) VERİM (YIELD) (F2 : Fi)			
111 - 0 - M	S 111 -	B 111 -	450	300	520	350	5:1	2:1	M4X25	90 °	42
111 - 0	S 111 -	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 °	127
111 - 2	S 111 -	B 111 -	1000	750	1200	1000	7:1	3:1	M6X40	90 °	220
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 °	818
111 - 5	-	B 111 -	4500	2000	5000	2125	10:1	5:1	M12X80	90 °	1524

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



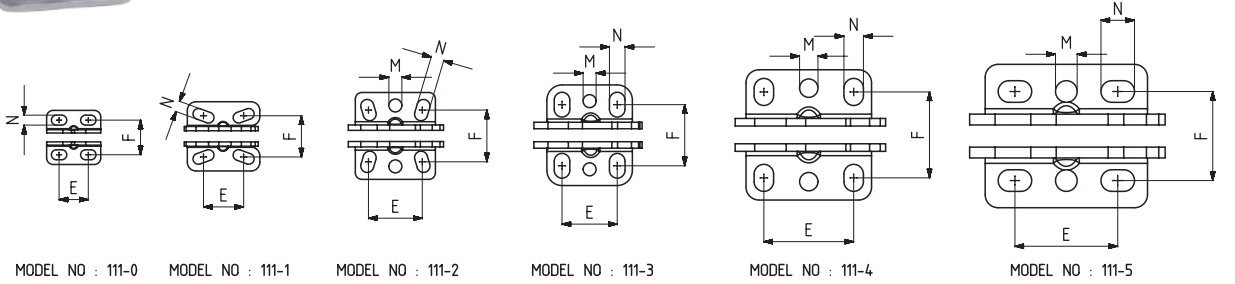
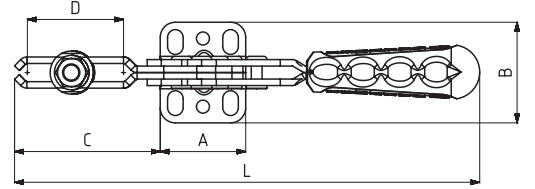
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



111-0-M



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

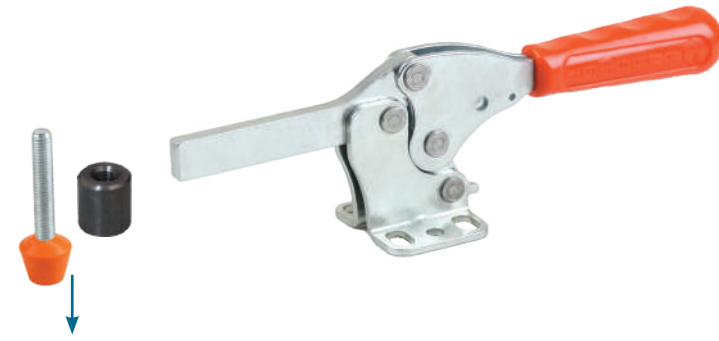
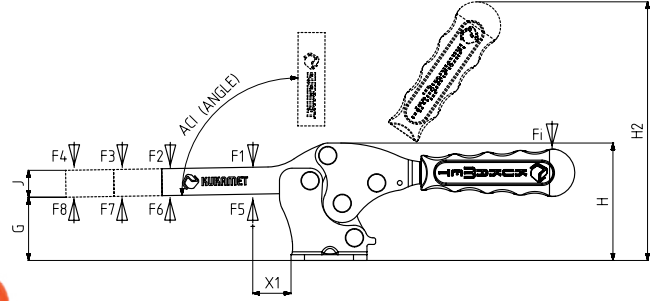


MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
111 - 0 - M	25	25	25,5	13	13,5	16	15	24	60	7,5	M4	82,5		4,5 x 7	11	18
111 - 0	25	25	25,5	13	13,5	16	15	24	66	7,5	M4	89		4,5 x 7	11	18
111 - 1	33,5	32	43	28	18,5	19	21	40	95	10	M5	148		5 x 10	15	33
111 - 2	37	40	66	47	25	24	28	51	110	14	M6	184	Ø 6	6 x 10	19	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)	Fİ		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fİ)	(C1) VERİM (YIELD) (F2:Fİ)		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°	196	216	252
111 - 3 - D	B 111 -	2300	1250	560	400	2500	1350	740	530	8:1	4:1	90°	293	328	359
111 - 4 - D	B 111 -	3500	1800	900	700	3650	2000	1035	800	9:1	4:1	90°	720	786	840
111 - 5 - D	B 111 -	4500	2000	1250	1000	5000	2125	1350	1080	10:1	5:1	90°	1370	1480	1580

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

111-D



*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
Please See Accessories Page

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



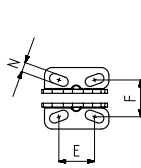
111-D-L
Sayfa/Page: 12



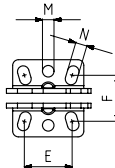
211
Sayfa/Page: 17



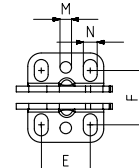
211-D
Sayfa/Page: 18



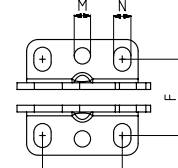
MODEL NO : 111-1-D



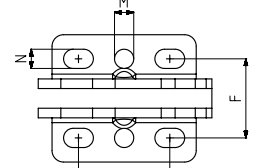
MODEL NO : 111-2-D



MODEL NO : 111-3-D



MODEL NO : 111-4-D



MODEL NO : 111-5-D



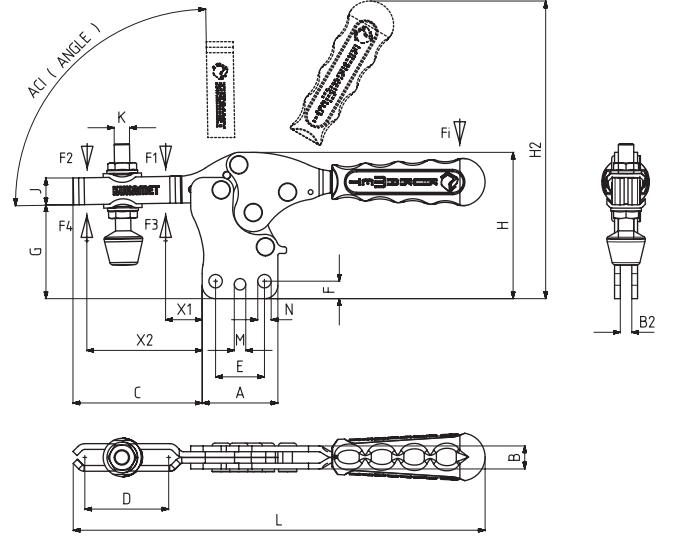
MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	H2	J	LC1	LC2	LC3	M	N	X1
111 - 1 - D	33,5	32	5	43	93	143	18,5	19	21	40	95	10	148	198	248		5 x 10	15
111 - 2 - D	37	40	5	66	116	166	25	24	28	51	110	14	184	234	284	Ø 6	6 x 10	19
111 - 3 - D	39,5	46,5	6	68	118	168	25,5	28,5	34	61	136	14	215	265	315	Ø 6	7 x 11,5	25
111 - 4 - 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)	Fİ		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
							(X1) VERİM (YIELD) (F1 : Fİ)	(X2) VERİM (YIELD) (F2 : Fİ)			
112 - 0 - M	S 112 -	B 112 -	450	300	520	350	5:1	2:1	M4X25	90 °	44
112 - 0	S 112 -	B 112 -	450	300	520	350	5:1	2:1	M4X25	90 °	45
112 - 1	S 112 -	B 112 -	850	650	1000	800	7:1	3:1	M5X35	90 °	130
112 - 2	S 112 -	B 112 -	1000	750	1200	1000	7:1	3:1	M6X40	90 °	220
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 °	818
112 - 5	-	B 112 -	4500	2000	5000	2125	10:1	5:1	M12X80	90 °	1528

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



112-0-M



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



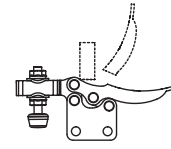
112-D
Sayfa/Page: 9



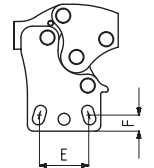
112-L
Sayfa/Page: 12



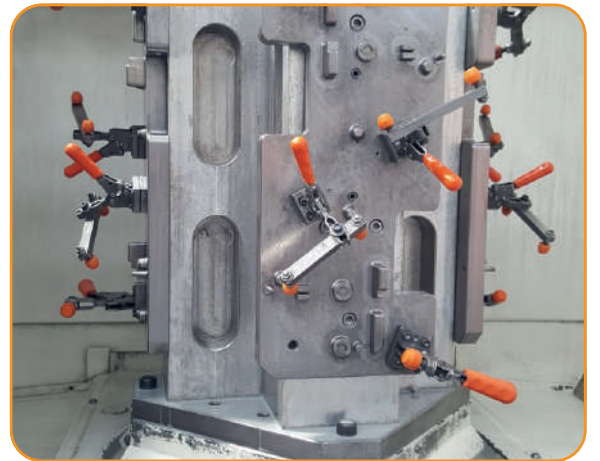
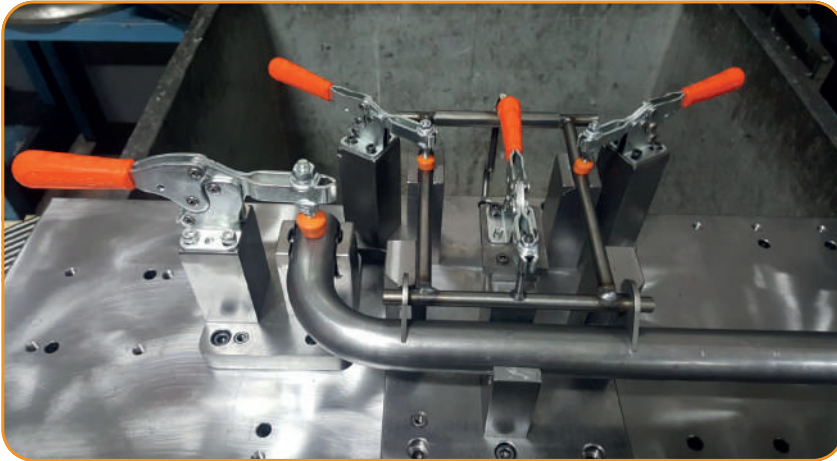
212
Sayfa/Page: 19



MODEL NO : 112-0-M
(KAPLAMASIZ METAL SAP)
(UNCOATED METAL HANDLE)



MODEL NO : 112-2



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

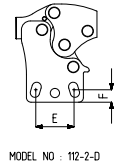
MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fİ		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fİ)	(C1) VERİM (YIELD) (F2:Fİ)		C1	C2	C3
112 - 1 - D	B 112 -	850	650	200	100	1000	800	200	125	7:1	3:1	90°	113	132	155
112 - 2 - D	B 112 -	1000	750	300	220	1200	1000	350	250	7:1	3:1	90°	200	223	254
112 - 3 - D	B 112 -	2300	1250	560	400	2500	1350	740	530	8:1	4:1	90°	296	326	354
112 - 4 - D	B 112 -	3500	1800	900	700	3650	2000	1035	800	9:1	4:1	90°	720	780	844
112 - 5 - D	B 112 -	4500	2000	1250	1000	5000	2125	1350	1080	10:1	5:1	90°	1373	1485	1600

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

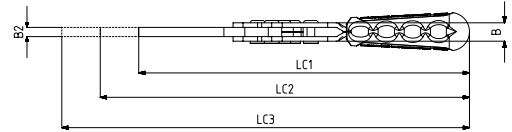
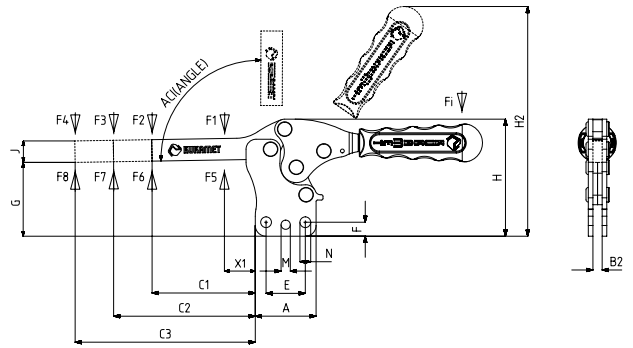
112-D



*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
Please See Accessories Page



MODEL NO : 112-2-D



Ayak Tipi: Dikey Tabanlı Body Mounting Base: Vertical



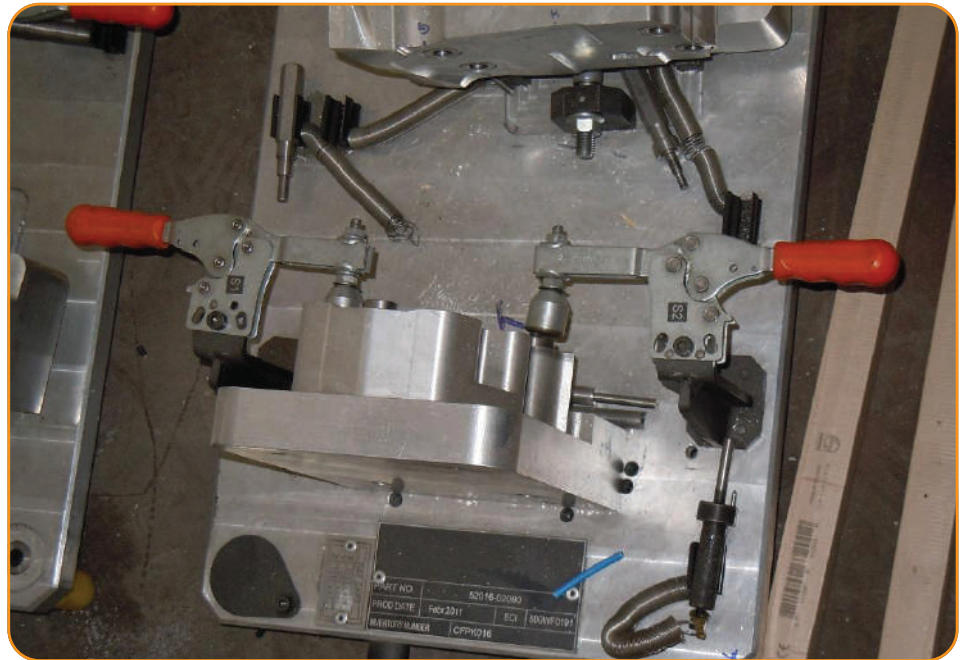
112-D-L
Sayfa/Page: 12



212
Sayfa/Page: 19



212-D
Sayfa/Page: 20

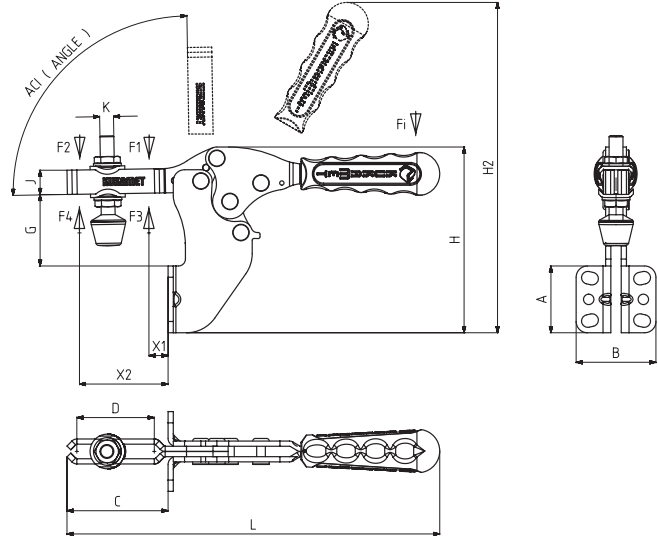
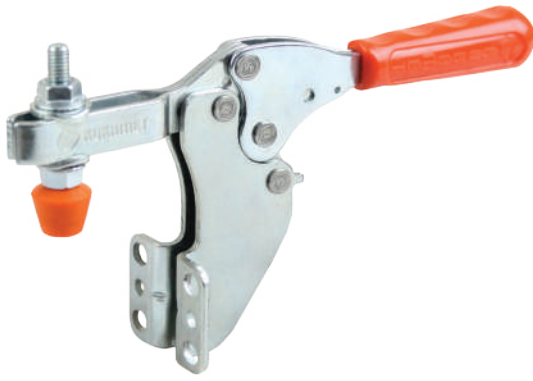


MODEL NO	A	B	B2	C1	C2	C3	E	F	G	H	H2	J	LC1	LC2	LC3	M	N	X1
112 - 1 - D	33,5	9	5	43	93	143	23	5,5	31	50	105	10	148	198	248	-	Ø 5	15
112 - 2 - D	37	10	5	66	116	166	25	8	41	64	123	14	184	234	284	Ø 6	6 x 10	19
112 - 3 - D	39,5	12	6	68	118	168	25,5	9	49	76	151	14	215	265	315	Ø 6	Ø 7	25
112 - 4 - D	58	16	8	100	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:F)	(X2) VERİM (YIELD) (F2:F)			
113 - 1	B 113-	850	650	1000	800	7:1	3:1	M5X35	90 °	151
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 °	1845

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-D
Sayfa/Page: 11



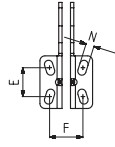
113-L
Sayfa/Page: 12



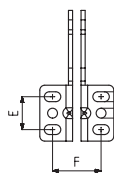
133
Sayfa/Page: 15



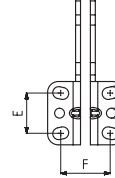
213
Sayfa/Page: 22



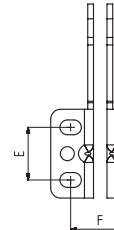
MODEL NO : 113-1



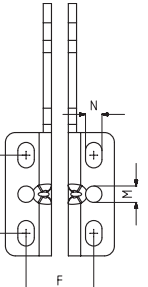
MODEL NO : 113-2



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)	F _i		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:F _i)	(C1) VERİM (YIELD) (F2:F _i)		C1	C2	C3
113 - 1 - D	B 113 -	850	650	200	100	1000	800	200	125	7:1	3:1	90°	136	158	178
113 - 2 - D	B 113 -	1000	750	300	220	1200	1000	350	250	7:1	3:1	90°	240	270	300
113 - 3 - D	B 113 -	2300	1250	560	400	2500	1350	740	530	8:1	4:1	90°	370	400	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°	1685	1808	1906

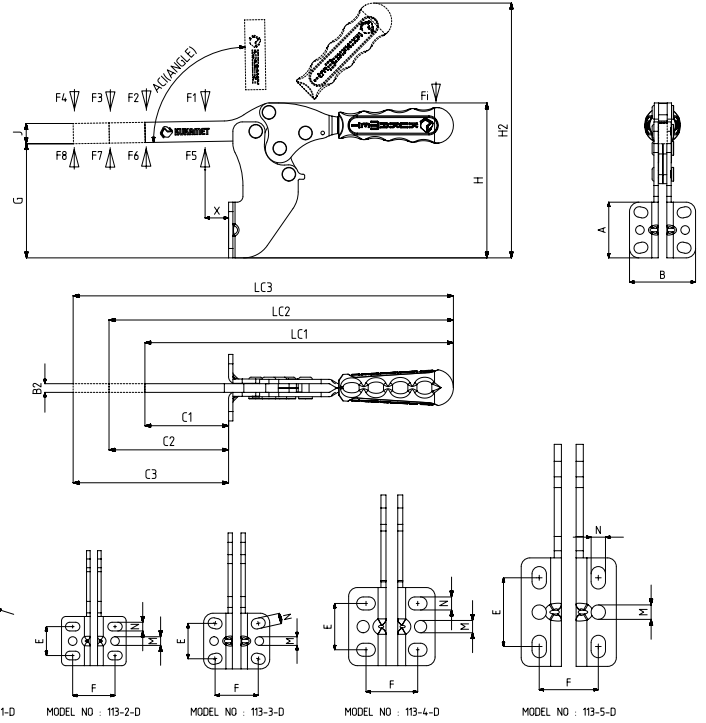
F1 - F2 - F3 - F4 : BASKI KUVVETİ (EXERTING FORCE) , F5 - F6 - F7 - F8 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F_i : UYGULAMA KUVVETİ (APPLIED FORCE)

113-D



*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
Please See Accessories Page

Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward



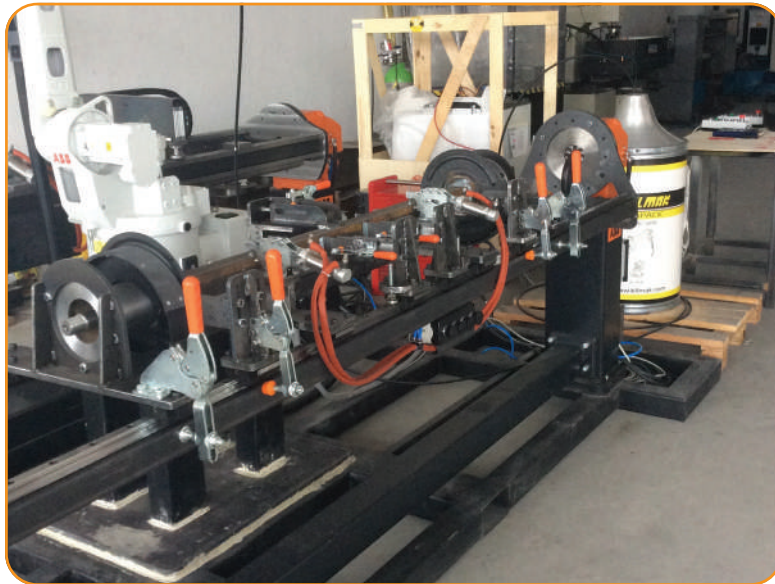
113-D-L
Sayfa/Page: 12



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Sayfa/Page: 22



213-D
Sayfa/Page: 23



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



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
111 - 1 - L	S111 - 1 - L	B111 - 1 - L	130
111 - 2 - L	S111 - 2 - L	B111 - 2 - L	228
111 - 3 - L	S111 - 3 - L	B111 - 3 - L	360
111 - 4 - L	-	B111 - 4 - L	849
111 - 5 - L	-	B111 - 5 - L	1584

MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
112 - 1 - L	S112 - 1 - L	B112 - 1 - L	134
112 - 2 - L	S112 - 2 - L	B112 - 2 - L	230
112 - 3 - L	S112 - 3 - L	B112 - 3 - L	356
112 - 4 - L	-	B112 - 4 - L	843
112 - 5 - L	-	B112 - 5 - L	1584

MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
113 - 1 - L	B113 - 1 - L	156
113 - 2 - L	B113 - 2 - L	275
113 - 3 - L	B113 - 3 - L	430
113 - 4 - L	B113 - 4 - L	975
113 - 5 - L	B113 - 5 - L	1900



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2) - C3
111 - 1 - D - L	B111 - 1 - D - L	156
111 - 2 - D - L	B111 - 2 - D - L	261
111 - 3 - D - L	B111 - 3 - D - L	370
111 - 4 - D - L	B111 - 4 - D - L	868
111 - 5 - D - L	B111 - 5 - D - L	1635

MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2) - C3
112 - 1 - D - L	B112 - 1 - D - L	160
112 - 2 - D - L	B112 - 2 - D - L	260
112 - 3 - D - L	B112 - 3 - D - L	342
112 - 4 - D - L	B112 - 4 - D - L	854
112 - 5 - D - L	B112 - 5 - D - L	1645

MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2) - C3
113 - 1 - D - L	B113 - 1 - D - L	180
113 - 2 - D - L	B113 - 2 - D - L	302
113 - 3 - D - L	B113 - 3 - D - L	440
113 - 4 - D - L	B113 - 4 - D - L	996
113 - 5 - D - L	B113 - 5 - D - L	1962



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



Ayak Tipi: Yan Tabanlı
Body Mounting Base: Side Ward

121

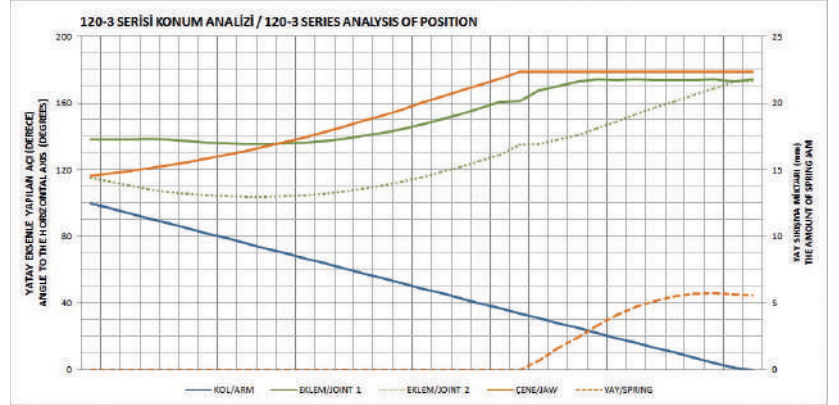


MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
					X1 VERİM (YIELD) (F1:Fi)	X2 VERİM (YIELD) (F2:Fi)		
121 - 3	2500	1250	2800	1400	9:1	4,5:1	71°	460

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

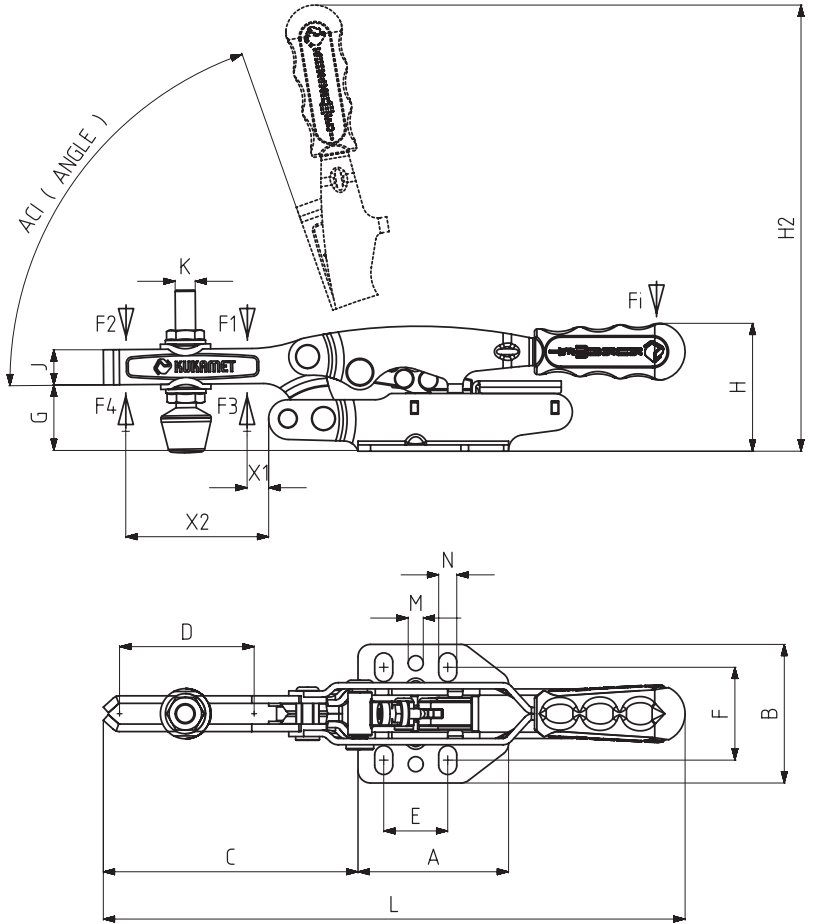


Ürün özellikleri ;

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.



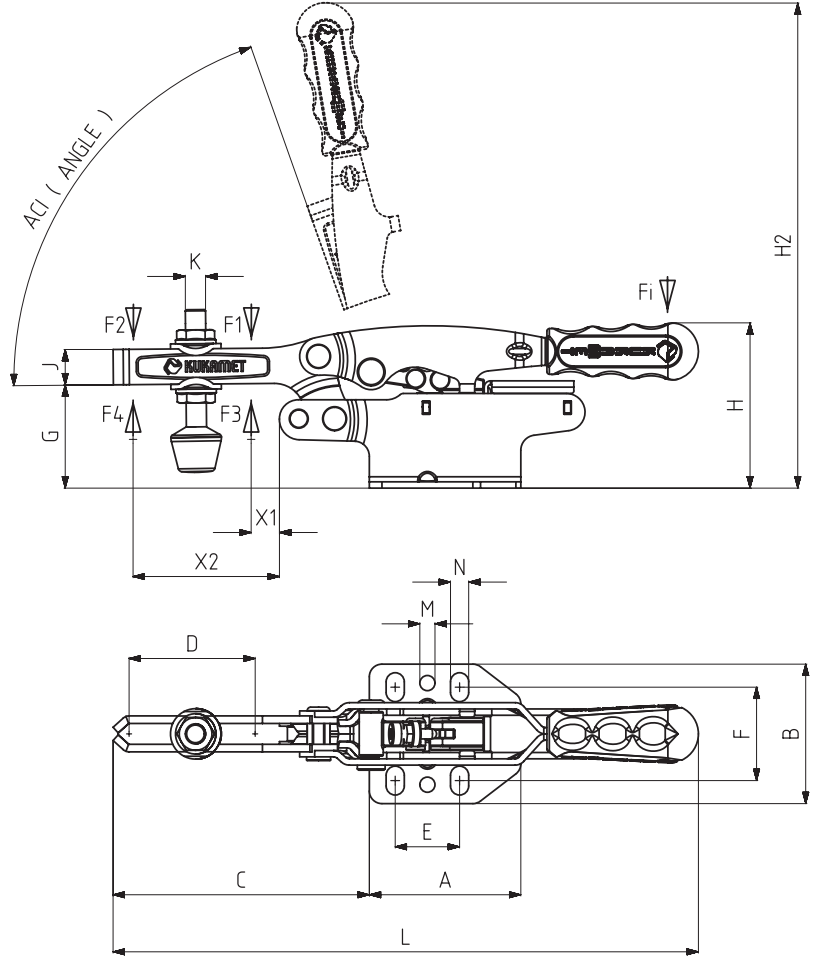
MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
121 - 3	60	55,5	101,5	50	25,5	37	26,5	51	187	14	M8	232	Ø6	7x11,5	16	50

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.



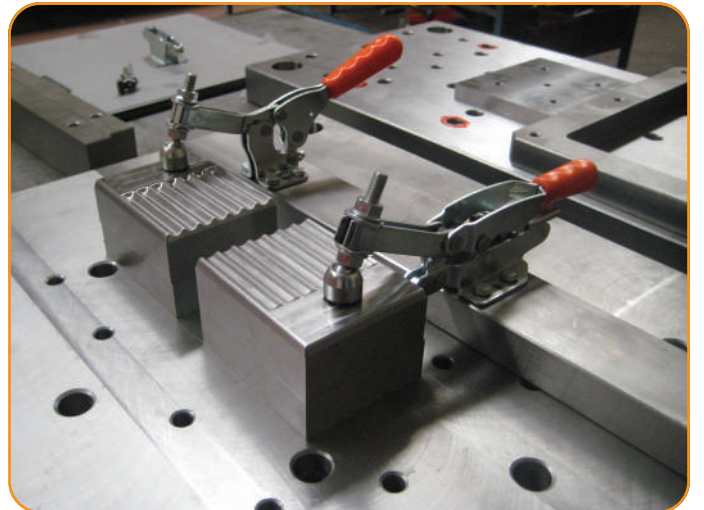
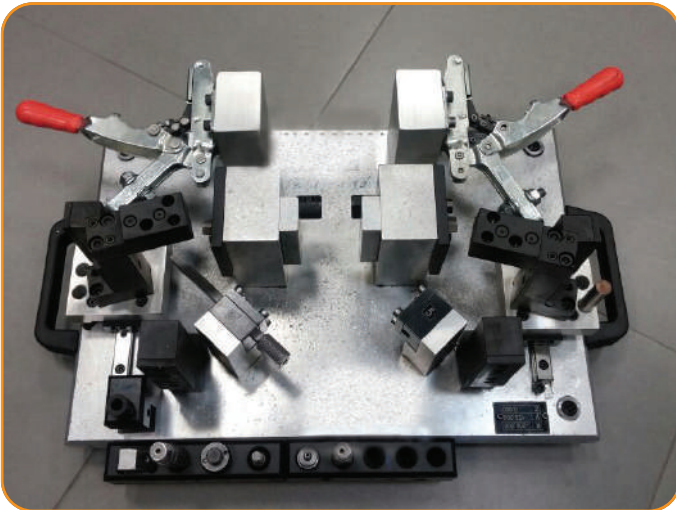
111

Sayfa/Page: 6



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Sayfa/Page: 107



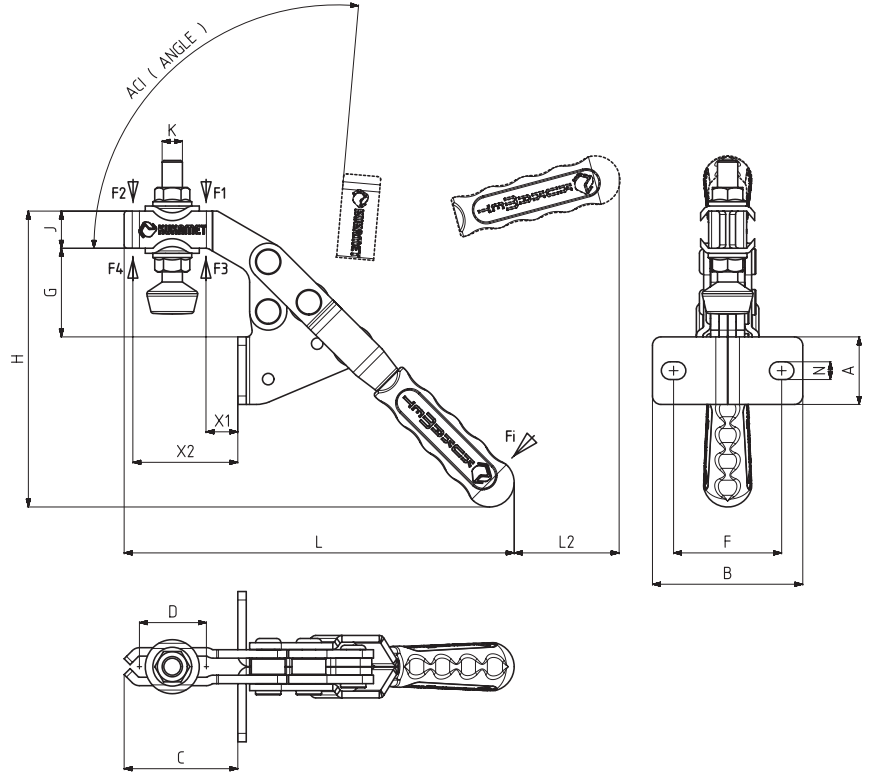
MODEL NO	A	B	C	D	E	F	G	H	H2	J	K	L	M	N	X1	X2
122 - 3	60	55,5	101,5	50	25,5	37	41	65,5	201,5	14	M8	232	Ø6	7x11,5	16	50

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 °	1180

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: 10



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Sayfa/Page: 22



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

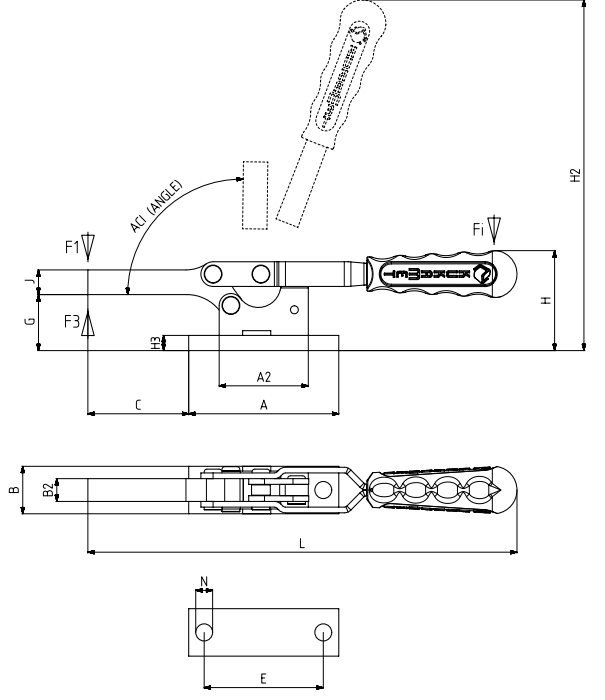
141



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°	630

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	E	G	H	H2	H3	J	L	N
141 - 4	80	28	12	53,75	63,5	29,5	53	212	8	13	256	Ø9

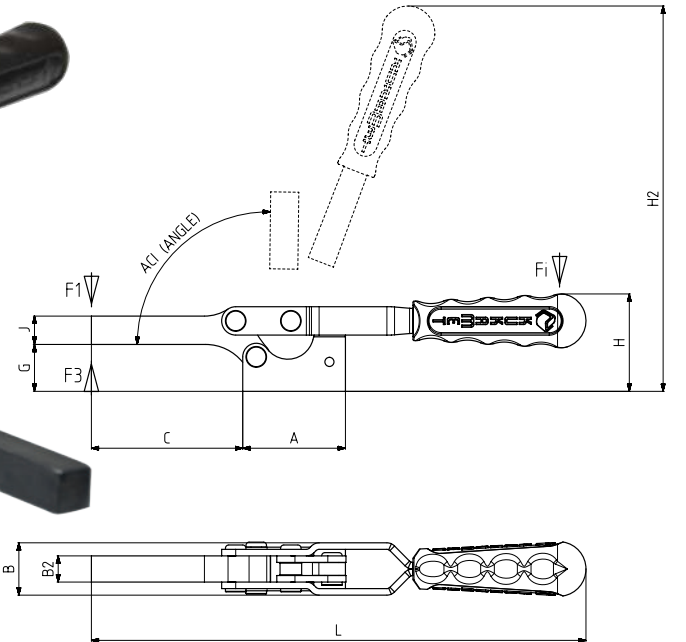
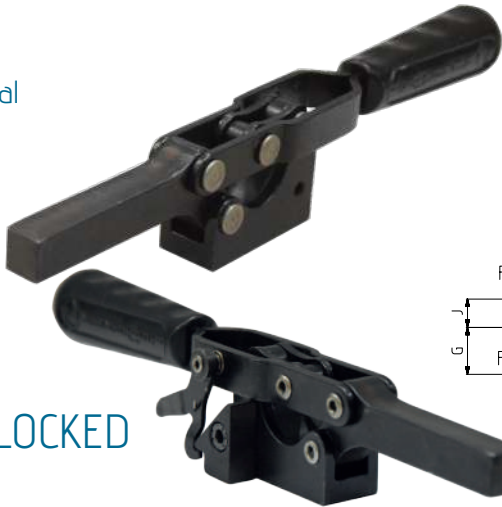
142



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°	510

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



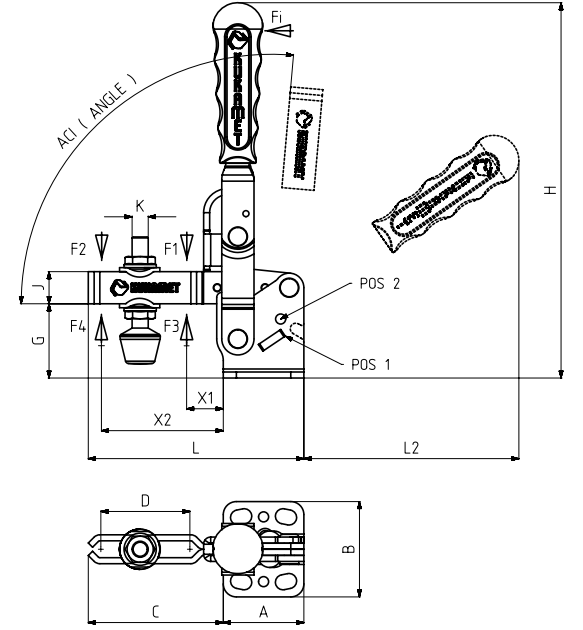
MODEL NO	A	B	B2	C	G	H	H2	J	L
142 - 4	47,5	28	12	70	21,5	47	202	13	229

211

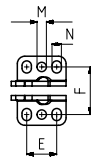


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)
							(X1 VERİM (YIELD) (F1:Fi)	(X2 VERİM (YIELD) (F2:Fi)		KOL DAYAMA AÇISI ARMSREST ANGLE		
211 - 0 - M	S 211 -	B 211 -	550	350	700	455	10:1	5:1	M4X25	115°	-	78
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°	-	150
211 - 2	S 211 -	B 211 -	1200	700	1400	925	12:1	7,5:1	M6X40	105°	-	225
211 - 3	S 211 -	B 211 -	2000	1400	2500	1560	11:1	8:1	M8X50	105°	-	416
211 - 4	-	B 211 -	3000	2000	3300	2200	11,5:1	8:1	M10X70	135°	105°	895
211 - 5	-	B 211 -	4500	2500	5000	3000	12:1	7:1	M12X80	135°	105°	1520

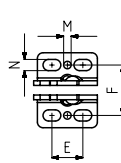
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



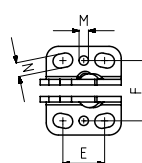
Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



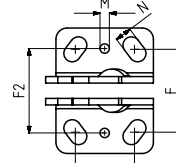
MODEL NO : 211-1



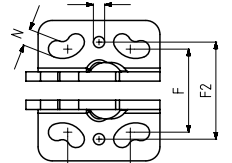
MODEL NO : 211-2



MODEL NO : 211-3

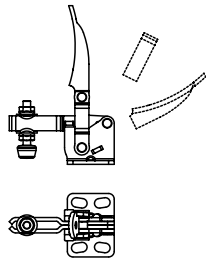


MODEL NO : 211-4



MODEL NO : 211-5

211-0-M



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



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Sayfa/Page: 6



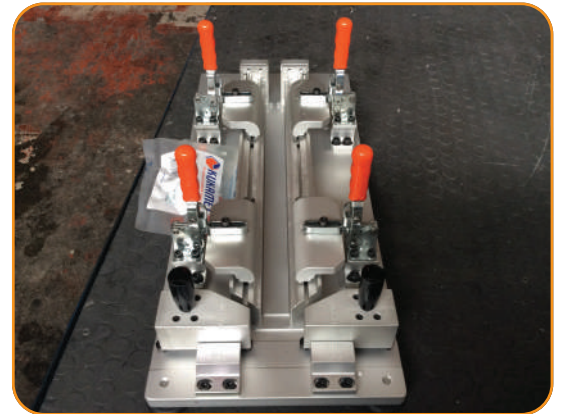
211-D
Sayfa/Page: 18



211-L
Sayfa/Page: 25



711
Sayfa/Page: 107



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

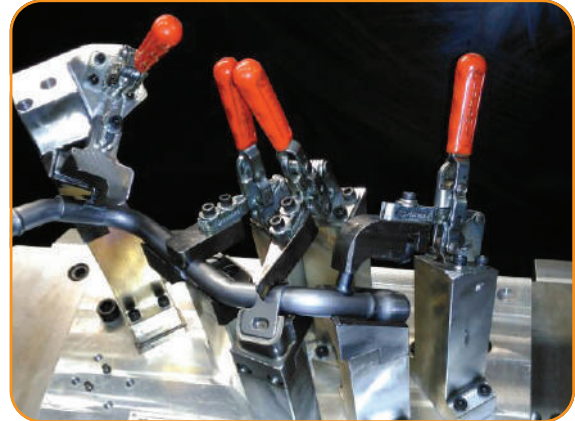
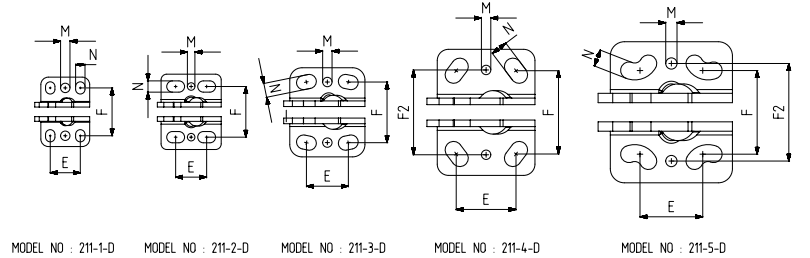
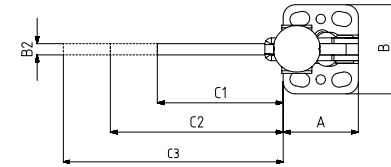
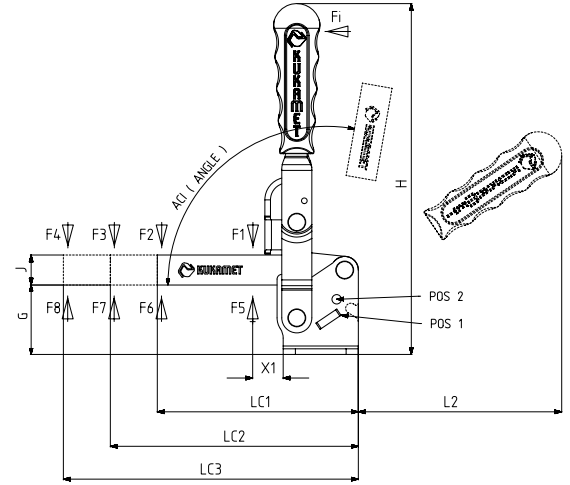
MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)	KOL DAYAMA AÇISI ARMSREST ANGLE		C1	C2	C3
												POS 1	POS 2			
211 - 1 - D	B 211 -	750	500	200	100	1000	680	300	200	12:1	8:1	105°	-	135	155	175
211 - 2 - D	B 211 -	1200	700	350	250	1400	925	510	370	12:1	7,5:1	105°	-	206	225	254
211 - 3 - D	B 211 -	2000	1400	700	500	2500	1560	910	680	11:1	8:1	105°	-	365	405	445
211 - 4 - D	B 211 -	3000	2000	1100	850	3300	2200	1350	1080	11,5:1	8:1	135°	105°	800	860	929
211 - 5 - D	B 211 -	4500	2500	1300	1000	5000	3000	1445	1190	12:1	7:1	135°	105°	1358	1452	1555
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 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
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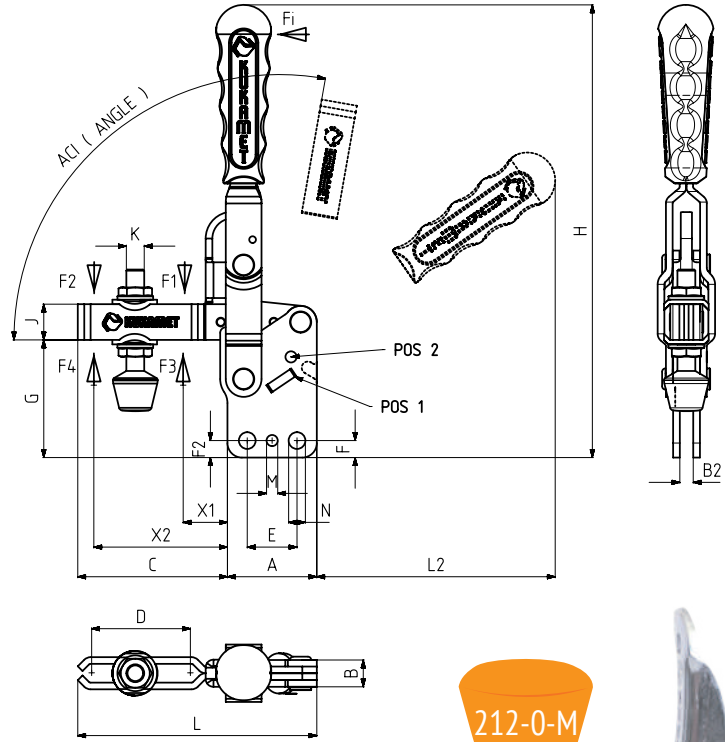
MODEL NO	A	B	B2	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N	X1
211 - 1 - D	26	37	5	44	94	144	16	25,5	25,5	23	125	10	70	120	170	73	Ø5	5 x 6,5	18
211 - 2 - D	32	40	5	62	112	162	16,5	27	27	26	141	13	94	144	194	85	Ø4	6 x 9,5	20
211 - 3 - D	40	47,5	6	67	117	167	22,5	32,3	32,3	37	187	16	107	157	207	110	Ø5	7,5 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

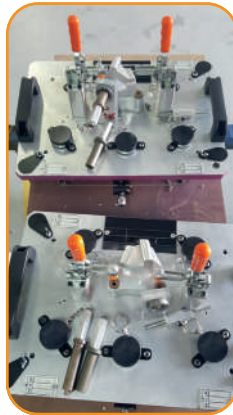
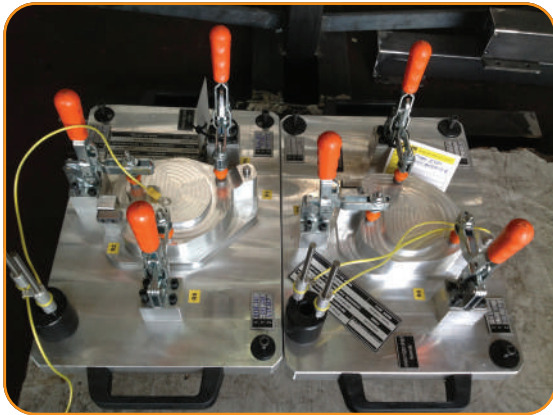


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		BASKI VİDASI (SQUEEZE SCREW)	AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%)
							(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		KOL DAYAMA AÇISI ARMSREST ANGLE		
										POS 1	POS 2	
212 - 0 - M	S 212 -	B 212 -	550	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°	-	74
212 - 1	S 212 -	B 212 -	750	500	1000	680	12:1	8:1	M5X35	105°	-	150
212 - 2	S 212 -	B 212 -	1200	700	1400	925	12:1	7,5:1	M6X40	105°	-	225
212 - 3	S 212 -	B 212 -	2000	1400	2500	1560	11:1	8:1	M8X50	105°	-	418
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



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Sayfa/Page: 8



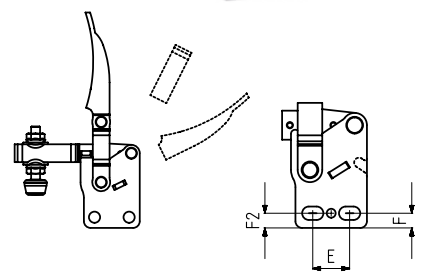
212-D
Sayfa/Page: 20



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Sayfa/Page: 107



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

MODEL NO : 212-2

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°	-	131	170	174
212 - 2 - D	B 212 -	1200	700	350	250	1400	925	510	370	12:1	7,5:1	105°	-	200	223	252
212 - 3 - D	B 212 -	2000	1400	700	500	2500	1560	910	680	11:1	8:1	105°	-	367	406	447
212 - 4 - D	B 212 -	3000	2000	1100	850	3300	2200	1350	1080	11,5:1	8:1	135°	105°	803	864	932
212 - 5 - D	B 212 -	4500	2500	1300	1000	5000	3000	1445	1190	12:1	7:1	135°	105°	1381	1466	1570

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

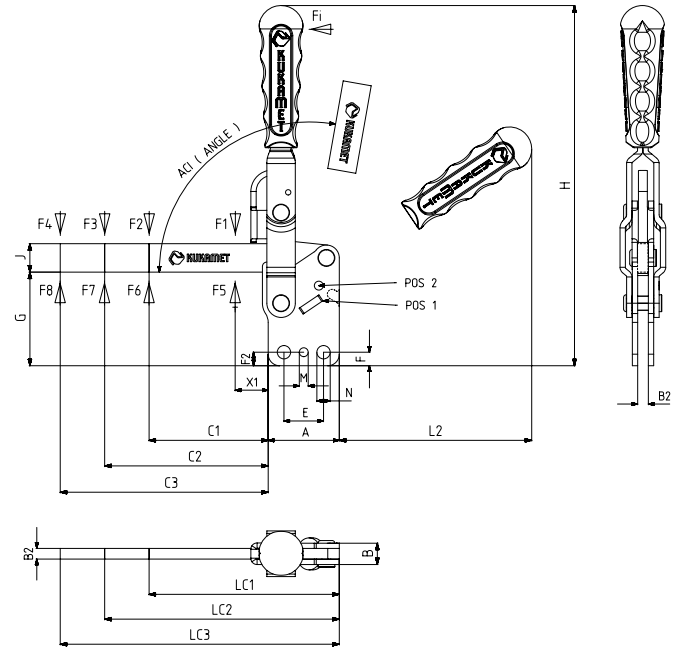
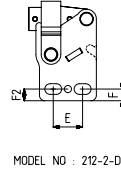
212-D



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
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Sayfa/Page: 19



212-D-L
Sayfa/Page: 25



951-G
Sayfa/Page: 143



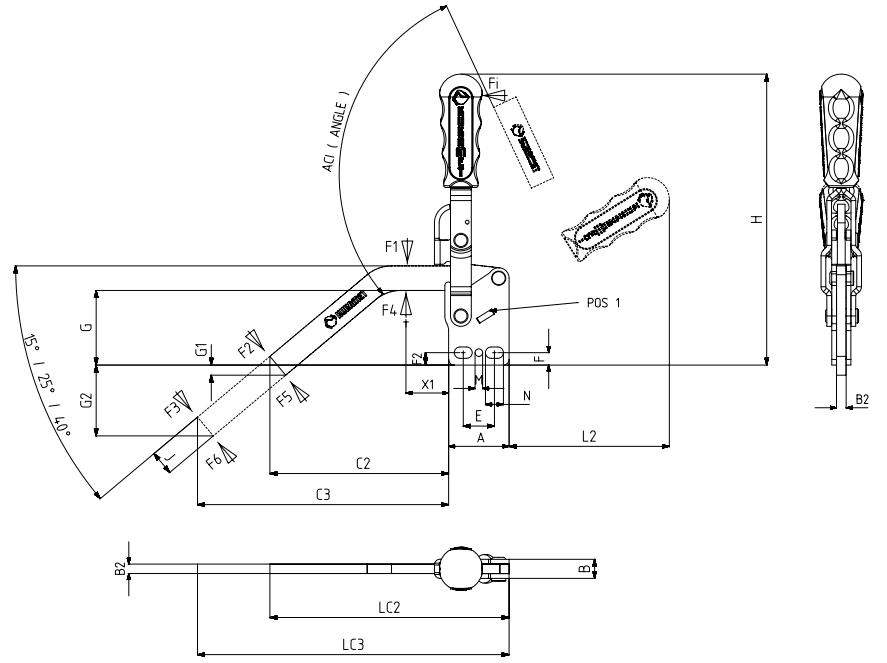
MODEL NO	A	B	B2	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N	X1
212 - 1 - D	26	10	5	44	94	144	16	5	5,75	35	135	10	70	120	170	73	Ø5	Ø 5	18
212 - 2 - D	32	10	5	62	112	162	16,5	6,5	6,5	39	154	13	94	144	194	85	Ø4	6 x 9,5	20
212 - 3 - D	40	12	6	67	117	167	22,5	7,5	7,6	52	202	16	107	157	207	110	Ø5	Ø 7,5	25
212 - 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)	F5 (N)	F6 (N)	Fi	AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)	
								(X1) VERİM (YIELD) (F1:Fi)	KOL DAYAMA AÇISI ARMSREST ANGLE		C2	C3
									POS 1	POS 2		
212 - 1 - D - A25	B 212 -	750	200	100	1000	300	200	12:1	105°	-	170	174
212 - 1 - D - A40	B 212 -	750	200	100	1000	300	200	12:1	105°	-	170	174
212 - 2 - D - A15	B 212 -	1200	350	250	1400	510	370	12:1	105°	-	-	255
212 - 2 - D - A25	B 212 -	1200	350	250	1400	510	370	12:1	105°	-		255
212 - 2 - D - A40	B 212 -	1200	350	250	1400	510	370	12:1	105°	-	228	250
F1 – F2 – F3 :BASKI KUVVETİ (EXERTING FORCE) , F4 - F5 – F6 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)												



Ayak Tipi: Dikey Tabanlı - Açılı
Body Mounting Base: Vertical Base-Angled

*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
Please See Accessories Page



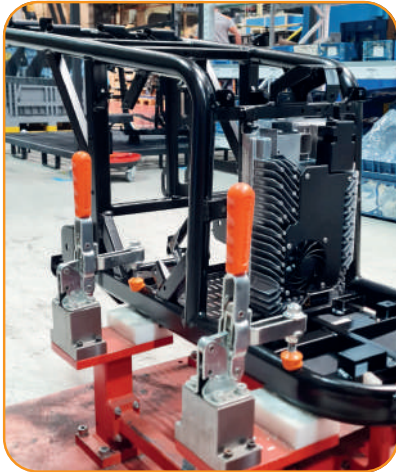
212
Sayfa/Page: 19



212-D
Sayfa/Page: 20



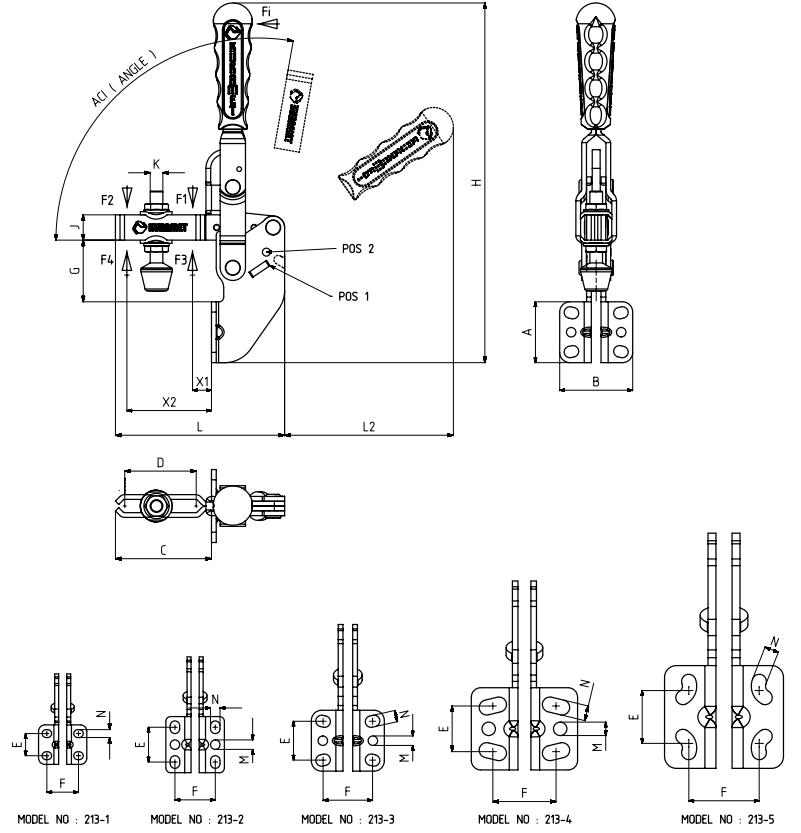
951-G
Sayfa/Page: 143



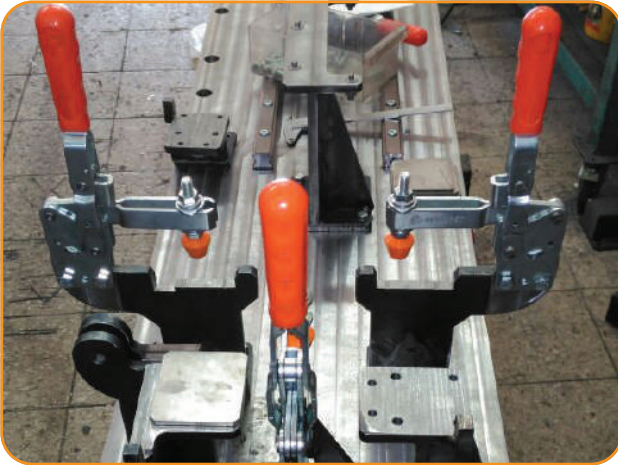
MODEL NO	A	B	B2	C1	C2	C3	E	F	F2	G	G1	G2	H	J	LC2	LC3	L2	M	N	X1
212 - 1 - D - A25	26	10	5			126	16	5	5,75	35		7	135	10		152	73	Ø 5	Ø 5	18
212 - 1 - D - A40	26	10	5		81	119	16	5	5,75	35	1,1	31	135	10	107	145	73	Ø 5	Ø 5	18
212 - 2 - D - A15	26	10	5			161	16	5	5,75	39		4,5	135	10		193	73	Ø 5	Ø 5	18
212 - 2 - D - A25	26	10	5			160	16	5	5,75	39		18,5	135	10		192	73	Ø 5	Ø 5	18
212 - 2 - D - A40	32	10	5		94,5	133	16,5	6,5	6,5	39	5,5	37,5	154	13	126,5	165	85	Ø 4	6 x 9,5	20

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°	168
213 – 2	B 213 -	1200	700	1400	925	12:1	7,5:1	M6X40	135°	105°	260
213 – 3	B 213 -	2000	1400	2500	1560	11:1	8:1	M8X50	105°	-	474
213 – 4	B 213 -	3000	2000	3300	2200	11,5:1	8:1	M10X70	135°	105°	1020
213 – 5	B 213 -	4500	2500	5000	3000	12:1	7:1	M12X80	135°	105°	1780
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)											

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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

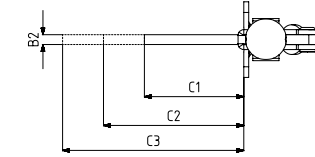
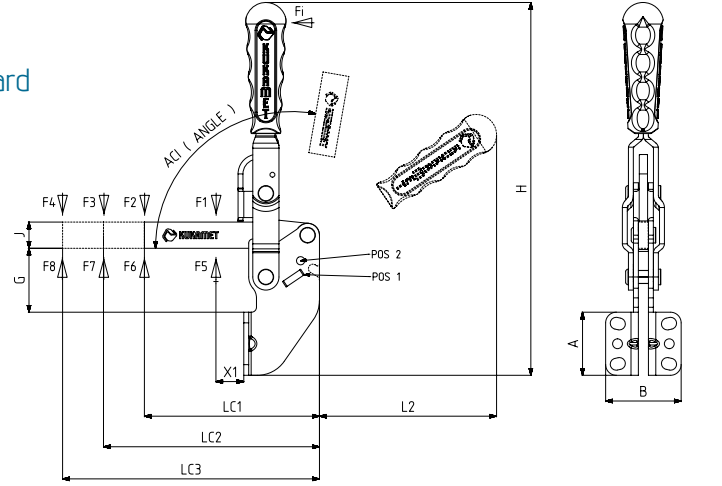
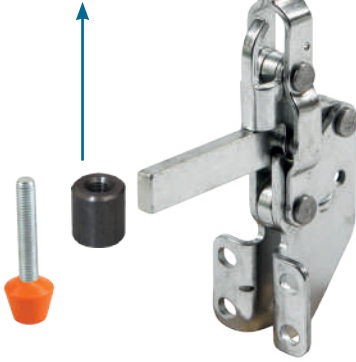
MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	F7 (N)	F8 (N)	Fi		AÇI (ANGLE) (± 5 °)		AĞIRLIK (WEIGHT) (gr ±%2)		
										(X1) VERİM (YIELD) (F1:Fi)	(C1) VERİM (YIELD) (F2:Fi)	KOL DAYAMA AÇISI ARMSREST ANGLE		C1	C2	C3
												POS 1	POS 2			
213 – 1-D	B 213 -	750	500	250	175	1000	680	340	250	12:1	8:1	135°	105°	153	175	195
213 – 2-D	B 213 -	1200	700	350	250	1400	925	510	370	12:1	7,5:1	135°	105°	242	262	290
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°	935	972	1060
213 – 5-D	B 213 -	4500	2500	1300	1000	5000	3000	1445	1190	12:1	7:1	135°	105°	1620	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 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
Please See Accessories Page



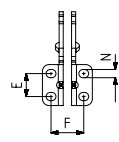
113
Sayfa/Page: 10



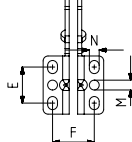
213
Sayfa/Page: 22



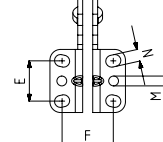
213-D-L
Sayfa/Page: 25



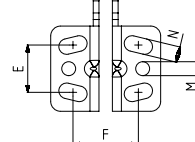
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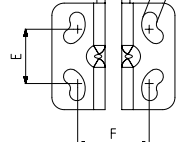
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MODEL NO : 213-3-D



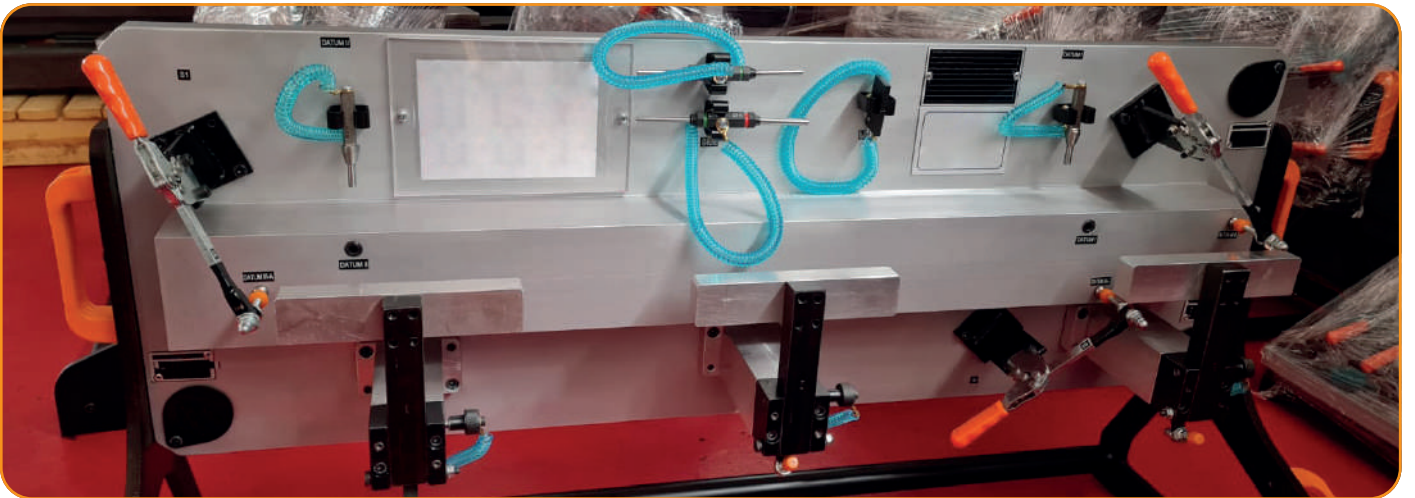
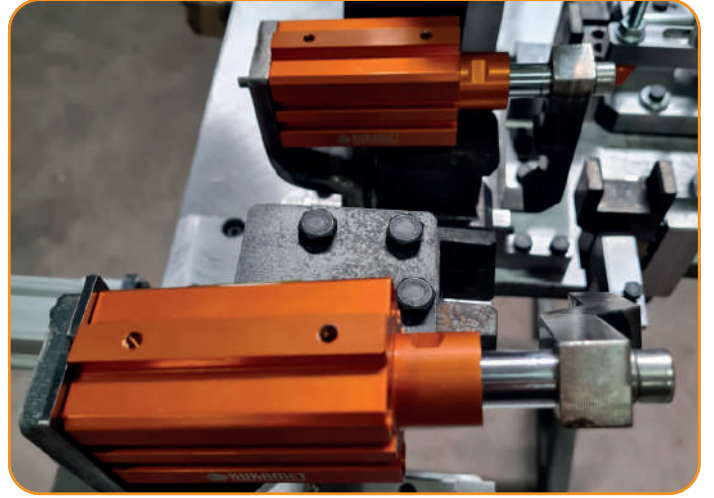
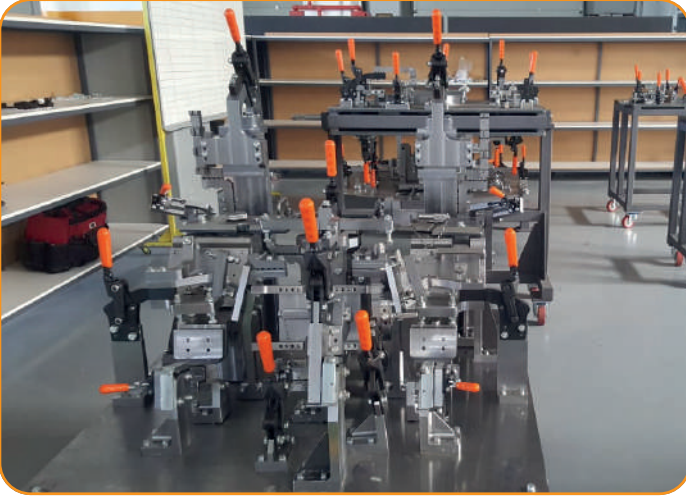
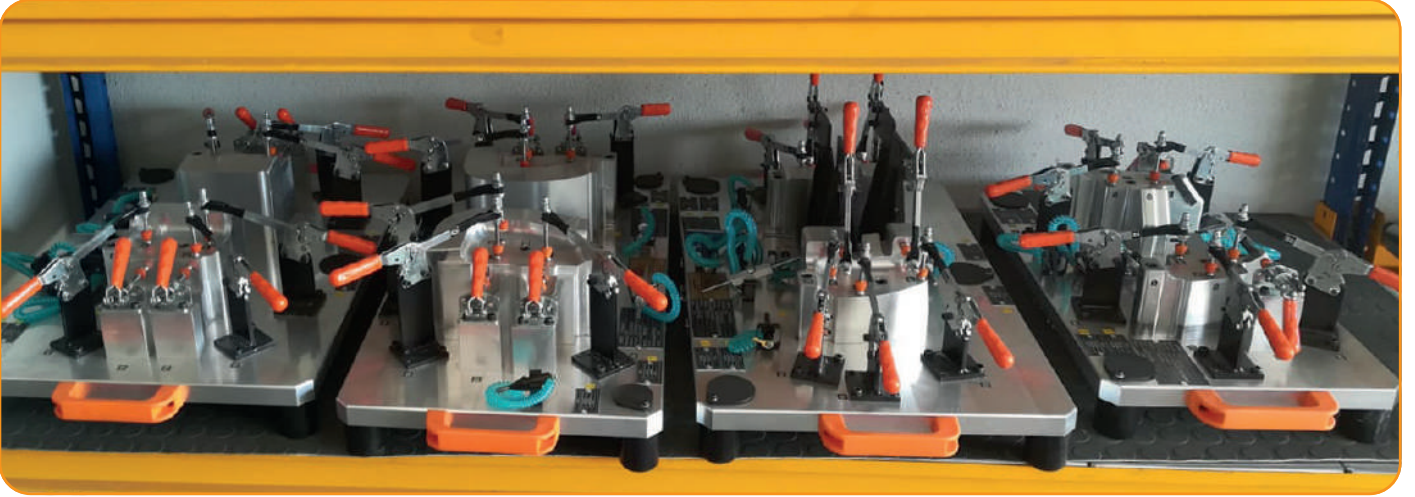
MODEL NO : 213-4-D



MODEL NO : 213-5-D



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, 22 ve 23 numaralı sayfalarda mevcuttur
Note : Technical details of locked models are available at pages 17,18,19,20,22 and 23


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
211 - 1 - L	S211 - 1 - L	B211 - 1 - L	151
211 - 2 - L	S211 - 2 - L	B211 - 2 - L	231
211 - 3 - L	S211 - 3 - L	B211 - 3 - L	428
211 - 4 - L	-	B211 - 4 - L	920
211 - 5 - L	-	B211 - 5 - L	1550


Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
212 - 1 - L	S212 - 1 - L	B212 - 1 - L	152
212 - 2 - L	S212 - 2 - L	B212 - 2 - L	233
212 - 3 - L	S212 - 3 - L	B212 - 3 - L	416
212 - 4 - L	-	B212 - 4 - L	923
212 - 5 - L	-	B212 - 5 - L	1570


Ayak Tipi: Dikey Tabanlı

Body Mounting Base: Vertical



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
213 - 1 - L	B213 - 1 - L	167
213 - 2 - L	B213 - 2 - L	265
213 - 3 - L	B213 - 3 - L	480
213 - 4 - L	B213 - 4 - L	1030
213 - 5 - L	B213 - 5 - L	1810


Ayak Tipi: Yan Tabanlı

Body Mounting Base: Side Ward



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2) - C3
211 - 1 - D - L	B211 - 1 - D - L	178
211 - 2 - D - L	B211 - 2 - D - L	260
211 - 3 - D - L	B211 - 3 - D - L	454
211 - 4 - D - L	B211 - 4 - D - L	945
211 - 5 - D - L	B211 - 5 - D - L	1590


Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2) - C3
212 - 1 - D - L	B212 - 1 - D - L	180
212 - 2 - D - L	B212 - 2 - D - L	260
212 - 3 - D - L	B212 - 3 - D - L	451
212 - 4 - D - L	B212 - 4 - D - L	950
212 - 5 - D - L	B212 - 5 - D - L	1570


Ayak Tipi: Dikey Tabanlı

Body Mounting Base: Vertical



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2) - C3
213 - 1 - D - L	B213 - 1 - D - L	199
213 - 2 - D - L	B213 - 2 - D - L	296
213 - 3 - D - L	B213 - 3 - D - L	516
213 - 4 - D - L	B213 - 4 - D - L	1060
213 - 5 - D - L	B213 - 5 - D - L	1854


Ayak Tipi: Yan Tabanlı

Body Mounting Base: Side Ward

221



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



221-OCL
Sayfa/Page: 28



221-S
Sayfa/Page: 28

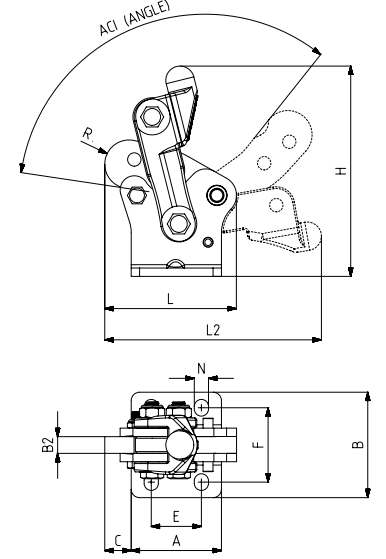


241
Sayfa/Page: 40



921
Sayfa/Page: 141

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
221-3	43,5	51	8	12,5	23	33	100,5	63	110	Ø9	11,5
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



221-L



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



221-C-L
Sayfa/Page: 27



221-OCL
Sayfa/Page: 28



241-L
Sayfa/Page: 40

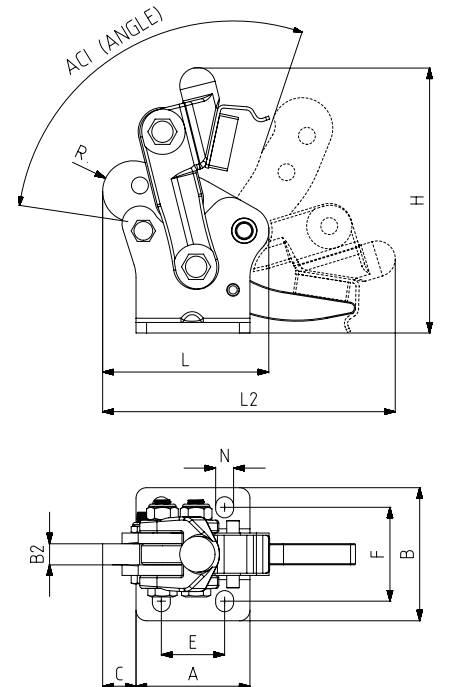


913
Sayfa/Page: 140

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°	1950

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





Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



221

Sayfa/Page: 26



221-OCL

Sayfa/Page: 28



241

Sayfa/Page: 40

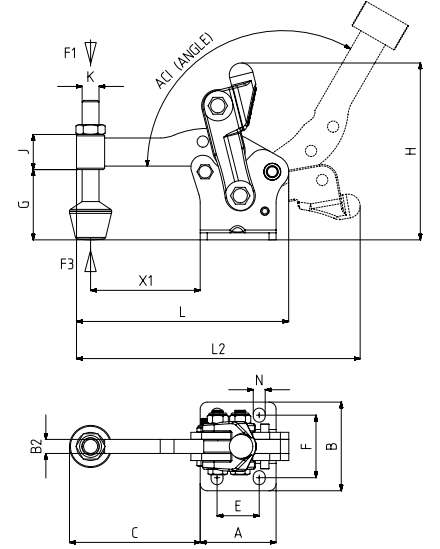


921-S

Sayfa/Page: 142

MODEL NO	F1 (N)	F3 (N)	F1 VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
221-2-C	750	2500	5:1	120°	270
221-3-C	1000	3500	5:1	120°	650
221-4-C	1500	5000	5:1	120°	1170
221-6-C	2000	6000	5:1	120°	2112

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



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 - 3 - C	43,5	51	8	76,5	-	23	33	39	100,5	22	M10	123	170,5	-	Ø9	63
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



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



221-L

Sayfa/Page: 26



241-L

Sayfa/Page: 40

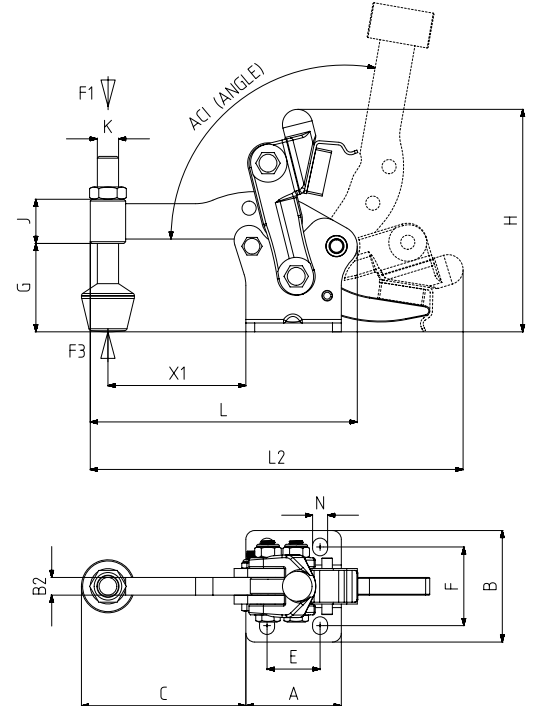


914

Sayfa/Page: 140

MODEL NO	F1 (N)	F3 (N)	F1 VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
221 - 4 - C - L	1500	5000	5:1	100°	1280
221 - 6 - C - L	2000	6000	5:1	100°	2260

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



MODEL NO	A	B	B2	C	E	F	G	H	J	K	L	L2	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

221-OCL



Ayak Tipi: Yatay Tabanlı - Açık ve Kapalı İken Kilitli

Body Mounting Base: Horizontal - Locked when open and closed



221
Sayfa/Page: 26



221-L
Sayfa/Page: 26



222-OCL
Sayfa/Page: 31

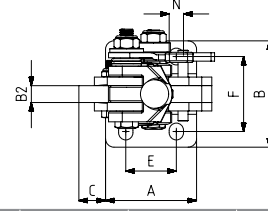
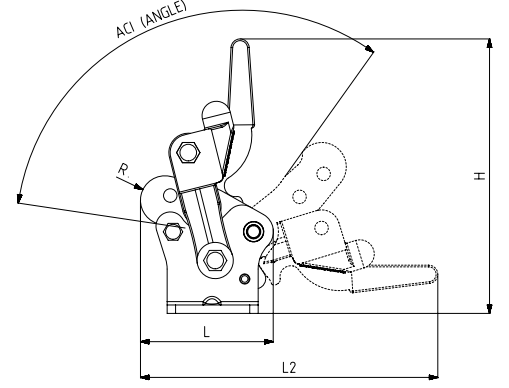


921-M
Sayfa/Page: 142

MODEL NO	A	B	B2	C	E	F	H	L	L2	N	R
221 - 2 - OCL	36	48,5	6	17,5	20	32	93	56	112	6,5 x 8,5	9,5
221 - 4 - OCL	54	63	10	16	30	44,5	163	79	176,5	8,5 x 10	15
221 - 6 - OCL	70	74	12	32	45	52	191	112	220	10,5 x 11,5	18

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
221 - 2 - OCL	2500	5:1	100°	270
221 - 4 - OCL	7000	5:1	100°	1070
221 - 6 - OCL	11000	5:1	100°	1998

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



221-S



new



Ayak Tipi: Yatay Tabanlı - Sac Kol

Body Mounting Base: Horizontal Sheet Arm



221
Sayfa/Page: 26



221-C-L
Sayfa/Page: 27

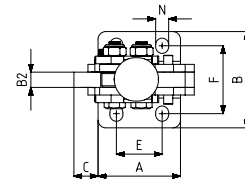
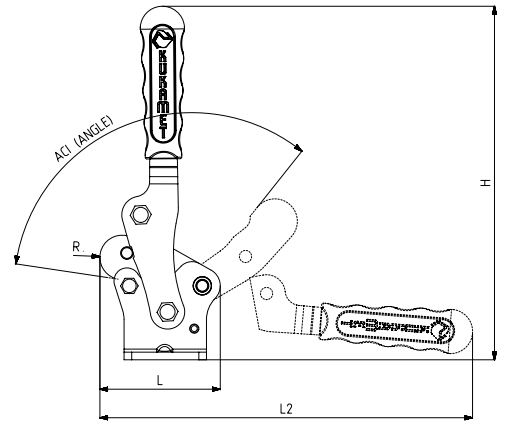


221-OCL
Sayfa/Page: 28

MODEL NO	A	B	B2	C	D	E	F	H	L	L2	N	R
221 - 3 - S	43,5	51	8	12,5	-	23	33	205	63	215	Ø9	11,5
221 - 4 - S	54	63	10	16	-	30	44,5	232	79	244	8,5 x 10	15
221 - 6 - S	70	74	12	32	-	45	52	266	112	296	10,5 x 11,5	18

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
221 - 3 - S	4000	5:1	120°	590
221 - 4 - S	7000	5:1	120°	1056
221 - 6 - S	11000	5:1	120°	1670

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



222



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



222-P

Sayfa/Page: 31



222-S-A

Sayfa/Page: 32



224

Sayfa/Page: 33



233

Sayfa/Page: 39

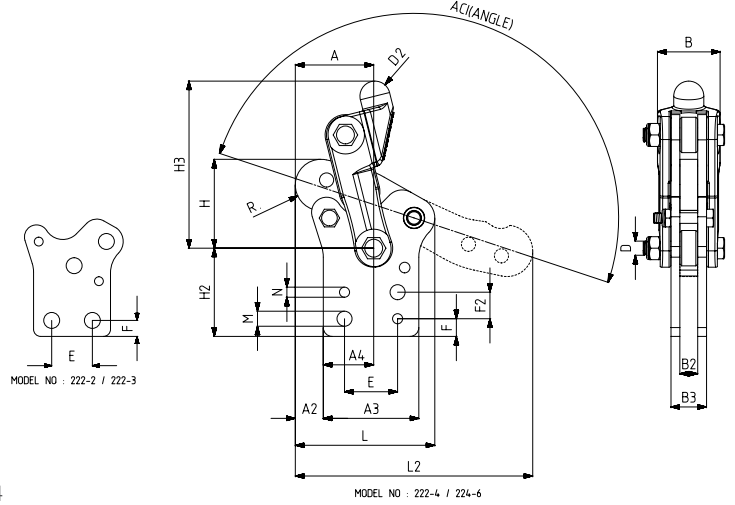


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Sayfa/Page: 44

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
222 - 2	2500	5:1	180°	238
222 - 3	4000	5:1	180°	500
222 - 4	7000	5:1	180°	960
222 - 6	11000	5:1	180°	1790

F1 : BASKI KUVVETİ (EXERTING FORCE) , Fi : 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	Ø 10	20	8	-	31	34	55	56	98	Ø 6,5	-	9,5
222 - 3	35,5	12,5	43,5	23	31	8	16	M6	Ø13	23	9	-	40	40	75	63	107	Ø9	-	11,5
222 - 4	44	16	54	28,5	36	10	20	M8	Ø 17	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	Ø 22	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-OCL

Sayfa/Page: 31

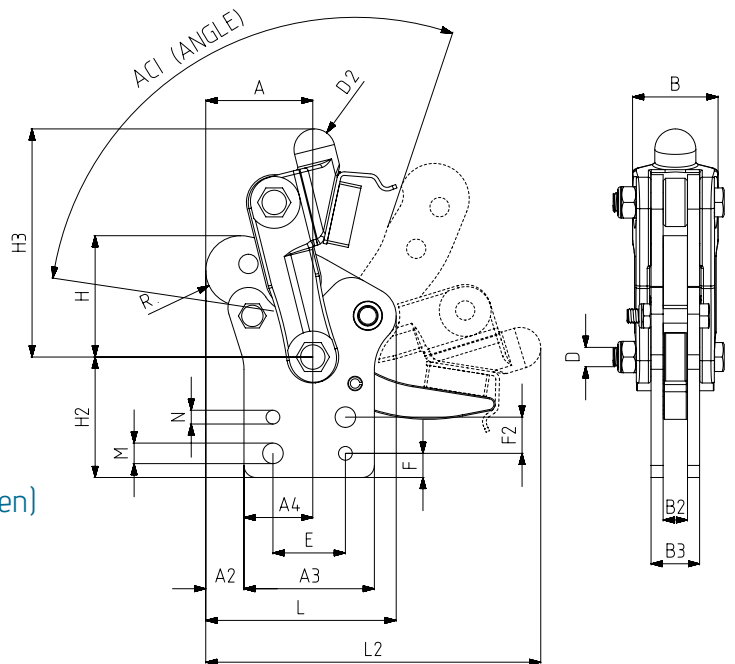


223

Sayfa/Page: 33

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
222-4-L	7000	5:1	100°	1030
222-6-L	11000	5:1	100°	1950

F1 : BASKI KUVVETİ (EXERTING FORCE) , Fi : 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



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



222

Sayfa/Page: 29



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Sayfa/Page: 44



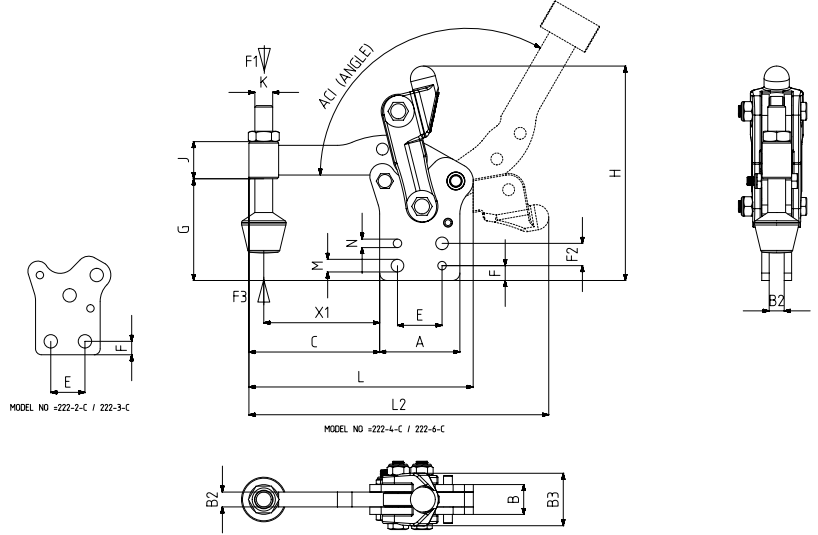
150-623

Sayfa/Page: 140

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 - 3 - C	43,5	16	8	30,5	72,5	23	9	-	54	115,5	22	M8	123	170,5	Ø 9		63
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

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
222 - 2 - C	750	2500	5:1	120°	280
222 - 3 - C	1000	3500	5:1	120°	600
222 - 4 - C	1500	5000	5:1	120°	1212
222 - 6 - C	2000	6000	5:1	120°	2100

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)



222

Sayfa/Page: 29



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Sayfa/Page: 44



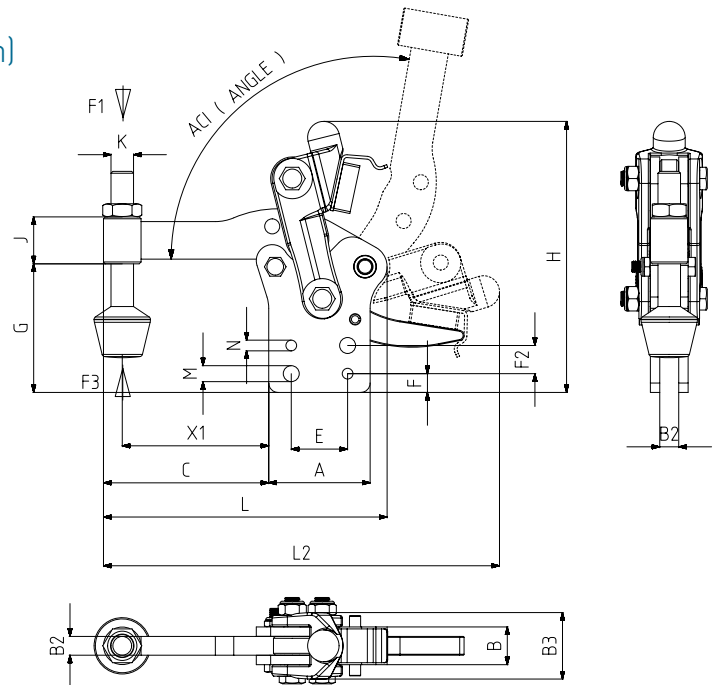
150-623

Sayfa/Page: 140

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

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
222 - 4 - C - L	1500	5000	5:1	100°	1316
222 - 6 - C - L	2000	6000	5:1	100°	2272

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





MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
222 - 2 - OCL	2500	5:1	100°	270
222 - 4 - OCL	7000	5:1	100°	1070
222 - 6 - OCL	11000	5:1	100°	2000

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

Ayak Tipi: Dikey Tabanlı - Açık ve Kapalı İken Kilitli
 Body Mounting Base: Vertical Locked when open and closed



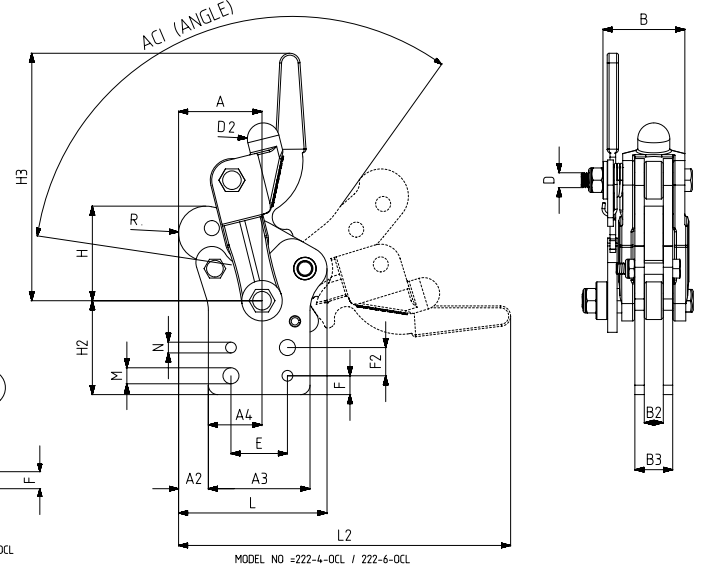
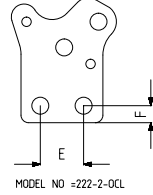
224-OCL
Sayfa/Page: 34



233
Sayfa/Page: 39



921-M
Sayfa/Page: 142



MODEL NO	A	A2	A3	A4	B	B2	B3	D	D2	E	F	F2	H	H2	H3	L	L2	M	N	R
222 - 2 - OCL	36	17,5	36	18,5	30	6	12	M6	Ø 10	20	8	-	31	34	75,5	56	112	Ø 6,5	-	9,5
222 - 4 - OCL	44	16	54	28,5	43,5	10	20	M8	Ø 17	30	10	15	50	50	131,5	79	176,5	Ø 8,5	Ø 5,7	15
222 - 6 - OCL	69	32	70	37	51	12	22	M10	Ø 22	45	15	20	73	62	152	112	220	Ø 10,5	Ø 7,7	18,5



Ayak Tipi: Dikey Sabit Tabanlı - Piston Bağlanılabilir
 Body Mounting Base: Vertical and Fixed - Mountable Piston

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
222 - 3 - P	4000	5:1	180°	425
222 - 4 - P	7000	5:1	180°	890
222 - 6 - P	11000	5:1	180°	1520

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



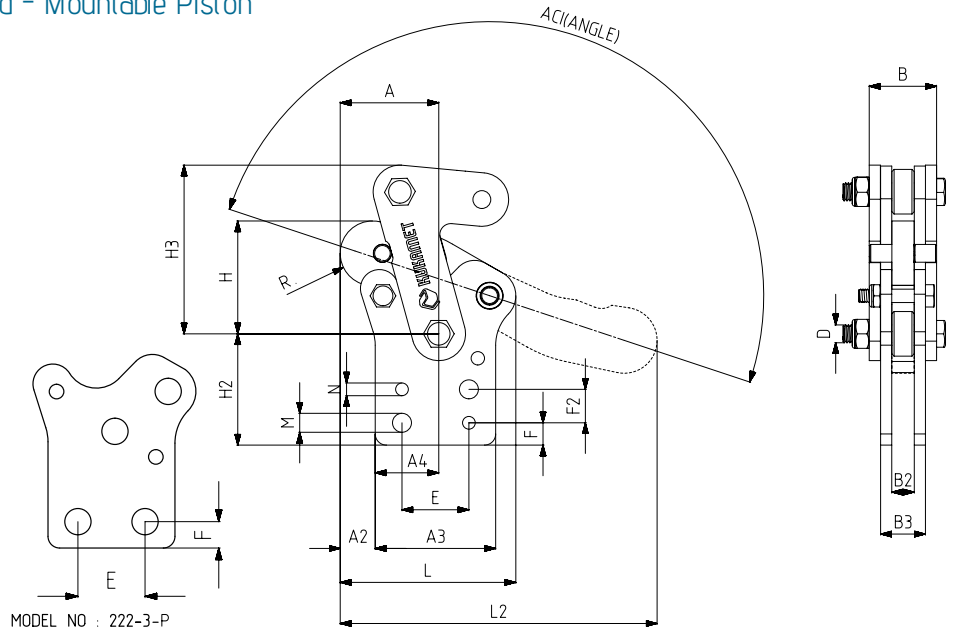
222
Sayfa/Page: 29



222-C-L
Sayfa/Page: 30



222-OCL
Sayfa/Page: 31



MODEL NO	A	A2	A3	A4	B	B2	B3	D	E	F	F2	H	H2	H3	L	L2	M	N	R
222 - 3 - P	35,5	12,5	43,5	23	24	8	16	M6	23	9	-	40	40	61	63	107	Ø 9	-	11,5
222 - 4 - P	44	16	54	28,5	30	10	20	M8	30	10	15	50	50	75,5	79	135	Ø 8,5	Ø 5,7	15
222 - 6 - P	69	32	70	37	32	12	22	M10	45	15	20	73	62	99,5	112	197	Ø 10,5	Ø 7,7	18,5

222-S



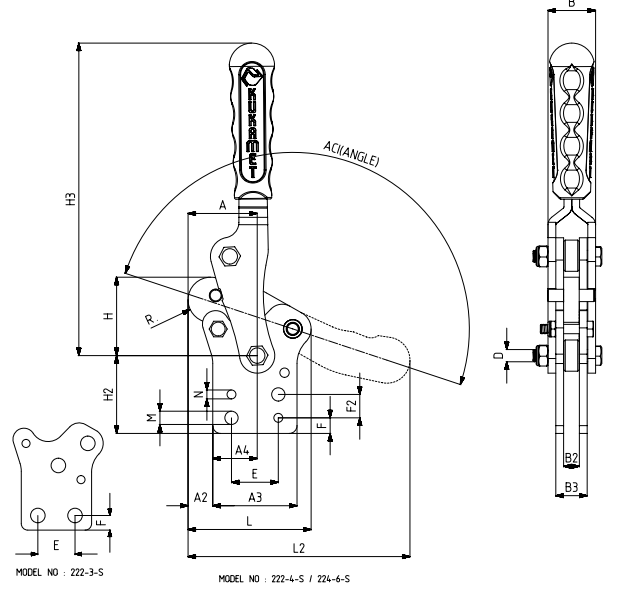
new

Ayak Tipi: Dikey Sabit Tabanlı - Sac Kol
Body Mounting Base: Vertical and Fixed - Sheet Arm



MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
222 - 3 - S	4000	5:1	180°	600
222 - 4 - S	7000	5:1	180°	1050
222 - 6 - S	11000	5:1	180°	1658

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



222

Sayfa/Page: 29



222-C-L

Sayfa/Page: 30



222-OCL

Sayfa/Page: 31

MODEL NO	A	A2	A3	A4	B	B2	B3	D	E	F	F2	H	H2	H3	L	L2	M	N	R
222 - 3 - S	35,5	12,5	43,5	23	24,5	8	16	M6	23	9	-	40	40	179	63	107	Ø 9	-	11,5
222 - 4 - S	44	16	54	28,5	30,5	10	20	M8	30	10	15	50	50	200	79	135	Ø 8,5	Ø 5,7	15
222 - 6 - S	69	32	70	37	32,5	12	22	M10	45	15	20	73	62	228	112	197	Ø 10,5	Ø 7,7	18,5

222-S-A



new

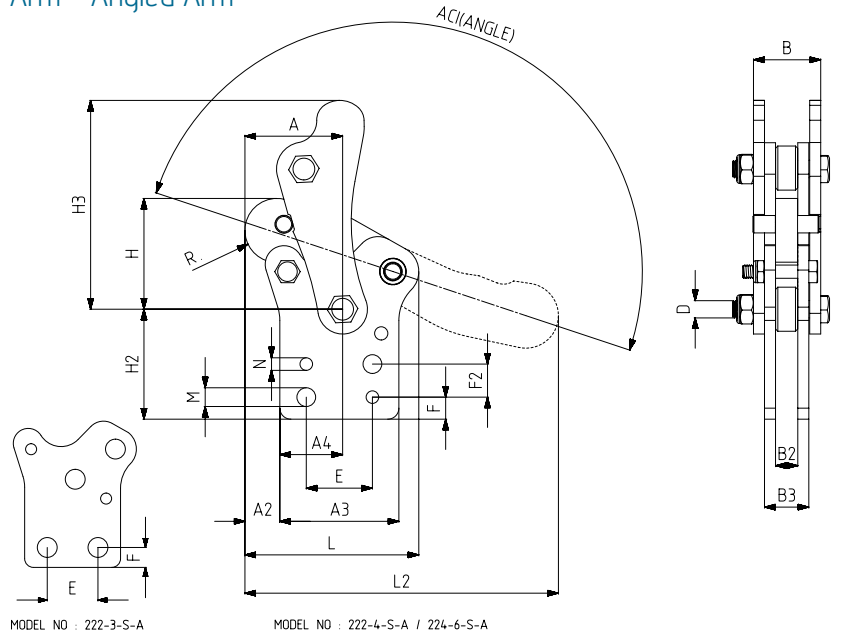
Ayak Tipi: Dikey Sabit Tabanlı - Sac Kol - Açılı Kol
Body Mounting Base: Vertical and Fixed - Sheet Arm - Angled Arm

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
222 - 3 - S - A	4000	5:1	180°	460
222 - 4 - S - A	7000	5:1	180°	880
222 - 6 - S - A	11000	5:1	180°	1482

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



*220-A (sayfa 48)
Bkz. Aksesuar Sayfası
*220-A (page 48)
Please See Accessories Page



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Sayfa/Page: 29



222-S

Sayfa/Page: 32



224-S-A

Sayfa/Page: 37

MODEL NO	A	A2	A3	A4	B	B2	B3	D	E	F	F2	H	H2	H3	L	L2	M	N	R
222 - 3 - S - A	35,5	12,5	43,5	23	24,5	8	16	M6	23	9	-	40	40	77	63	107	Ø 9	-	11,5
222 - 4 - S - A	44	16	54	28,5	30,5	10	20	M8	30	10	15	50	50	95	79	135	Ø 8,5	Ø 5,7	15
222 - 6 - S - A	69	32	70	37	32,5	12	22	M10	45	15	20	73	62	117,5	112	197	Ø 10,5	Ø 7,7	18,5

223



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



233

Sayfa/Page: 39

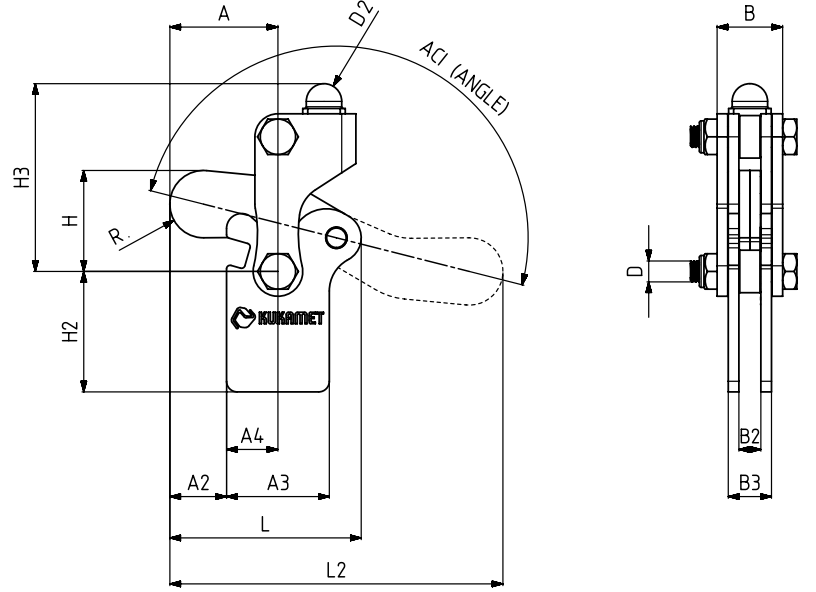


921-M

Sayfa/Page: 142

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
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



222

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Sayfa/Page: 44

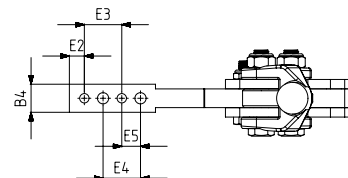
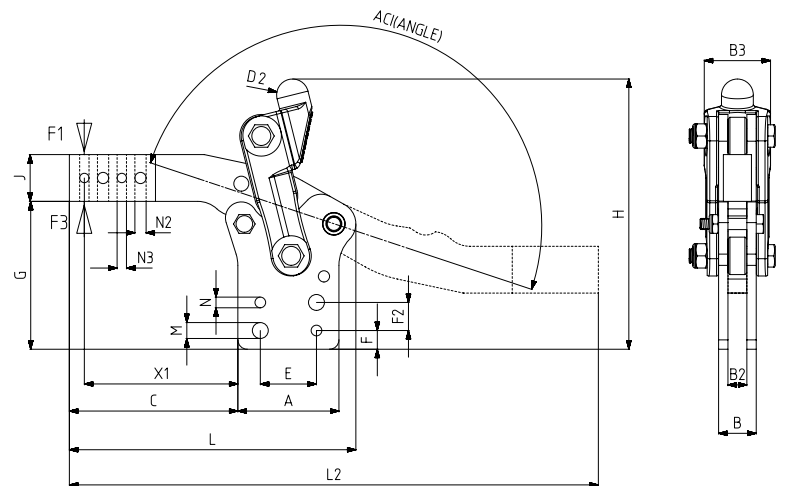


931

Sayfa/Page: 142

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
224-4	1500	5000	5:1	180°	1135
224-6	2500	6500	5:1	180°	2104

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



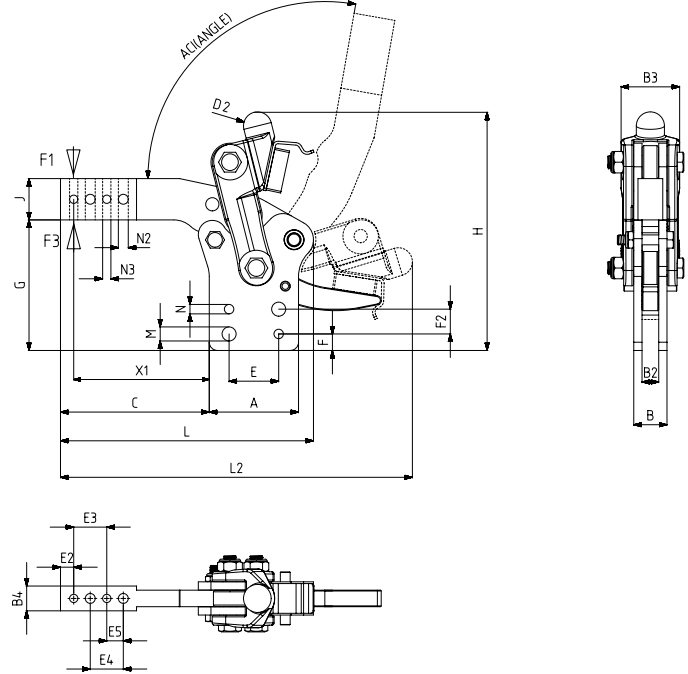
MODEL NO	A	B	B2	B3	B4	C	D2	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224-4	54	20	10	36	15	90	Ø17	30	8	20	20	10	10	15	79	144,5	25	153	283	Ø 8.5	Ø 5.7	Ø6	Ø6	82
224-6	70	22	12	46	20	106,5	Ø22	45	8	30	30	15	15	20	106,5	182	31	187	346	Ø 10.5	Ø 7.7	Ø8	Ø6	98.5

224-L



Ayak Tipi: Dikey Sabit Tabanlı (Açıkken Kilitli)

Body Mounting Base: Vertical and Fixed (Locked when open)



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224-K-L
Sayfa/Page: 35

224-S-A
Sayfa/Page: 37

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Sayfa/Page: 40

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

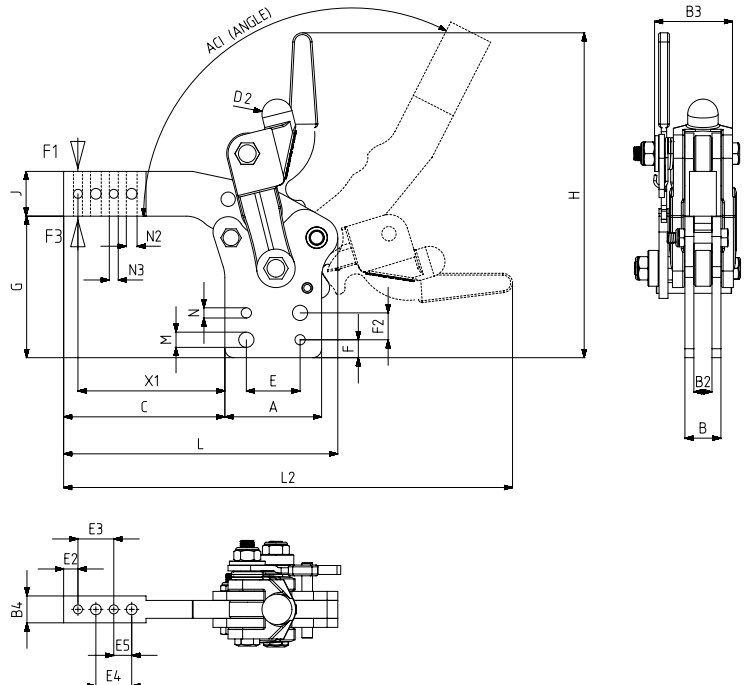
224-OCL



new

Ayak Tipi: Dikey Sabit Tabanlı-Açık ve Kapalı İken Kilitli

Body Mounting Base: Vertical and Fixed-
Locked When Open and Closed



224
Sayfa/Page: 33

224-K-L
Sayfa/Page: 35

921
Sayfa/Page: 141

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 - OCL	54	20	10	43,5	15	90	Ø 17	30	8	20	20	10	10	15	79	181	25	153	250,5	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224 - 6 - OCL	70	22	12	51	20	106,5	Ø 22	45	8	30	30	15	15	20	106,5	212	31	187	294	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5

224-K



Ayak Tipi: Dikey Sabit Tabanlı - Kollu

Body Mounting Base: With Vertical And Fixed Base - With Arm



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Sayfa/Page: 33



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Sayfa/Page: 40

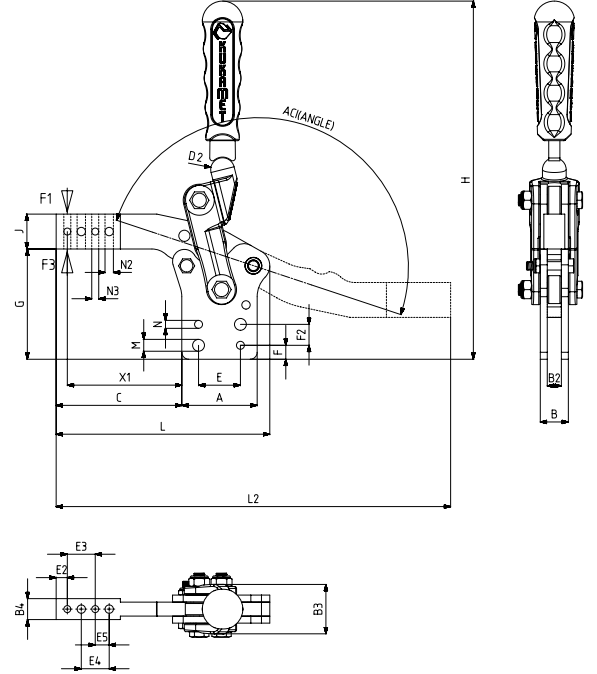


242

Sayfa/Page: 44

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
224 - 4 - K	1500	5000	5:1	180°	1300
224 - 6 - K	2500	6500	5:1	180°	2298

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 - K	54	20	10	36	15	90	Ø 17	30	8	20	20	10	10	15	79	257	25	153	283	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224 - 6 - K	70	22	12	46	20	106,5	Ø 22	45	8	30	30	15	15	20	106,5	303	31	187	346	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5

224-K-L



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
224 - 4 - K - L	1500	5000	5:1	100°	1415
224 - 6 - K - L	2500	6500	5:1	100°	2450

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

Ayak Tipi: Dikey Sabit Tabanlı - Kollu (Açıkken Kilitli)

Body Mounting Base: Vertical and Fixed Base -
Arm (when it is open, it is Locked)



224

Sayfa/Page: 33



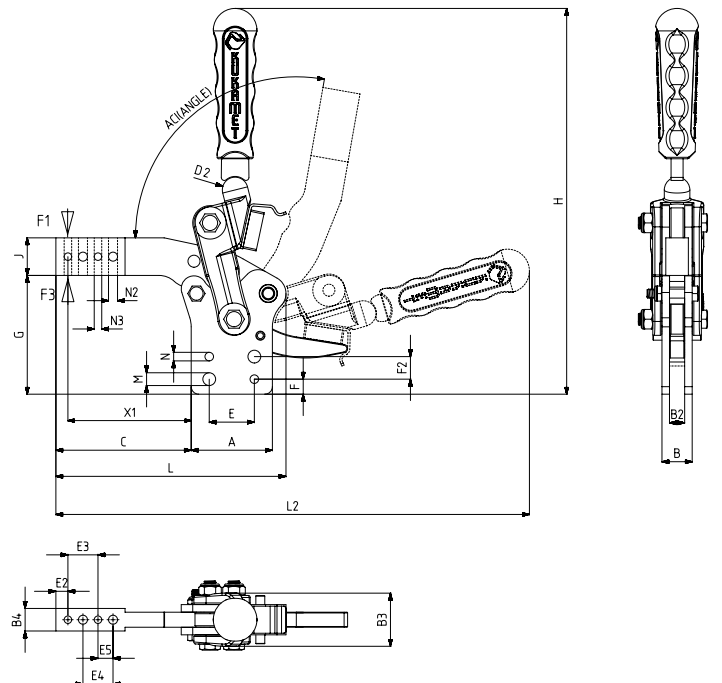
224-K

Sayfa/Page: 35



921

Sayfa/Page: 141



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 - K - L	54	20	10	36	15	90	Ø 17	30	8	20	20	10	10	15	79	257	25	153	323	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224 - 6 - K - L	70	22	12	46	20	106,5	Ø 22	45	8	30	30	15	15	20	106,5	303	31	187	390	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5

224-K-OCL



new

Ayak Tipi: Dikey Sabit Tabanlı-Kollu
Açık ve Kapalı İken Kilitli
Vertical and Fixed Base - With Arm
Locked When Open and Closed



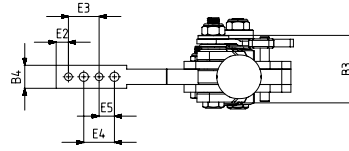
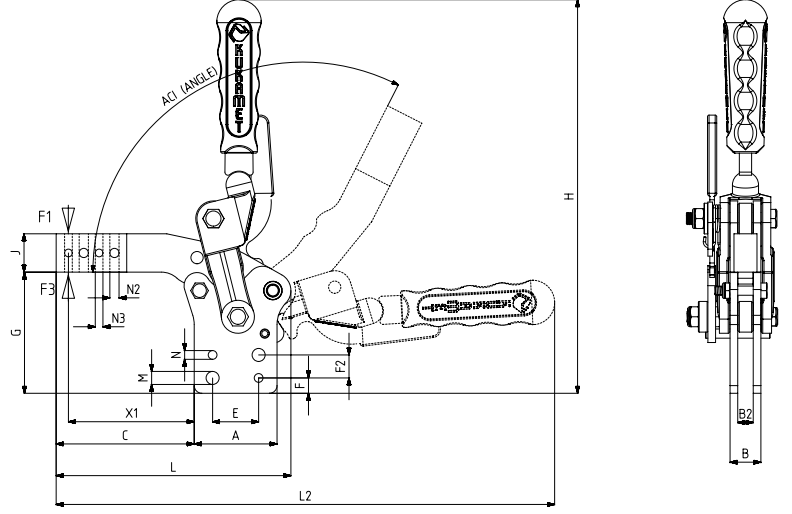
224
Sayfa/Page: 33

224-K
Sayfa/Page: 35

224-S-L
Sayfa/Page: 37

MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
224 - 4 - K - OCL	1500	5000	5:1	100°	1415
224 - 6 - K - OCL	2000	6500	5:1	100°	2480

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



MODEL NO	A	B	B2	B3	B4	C	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224 - 4 - K - OCL	54	20	10	43,5	15	90	30	8	20	20	10	10	15	79	257	25	153	323	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224 - 6 - K - OCL	70	22	12	51	20	106,5	45	8	30	30	15	15	20	106,5	303	31	187	390	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5

224-S



new

Ayak Tipi: Dikey Sabit Tabanlı - Sac Kol
Body Mounting Base: Vertical and Fixed - Sheet Arm



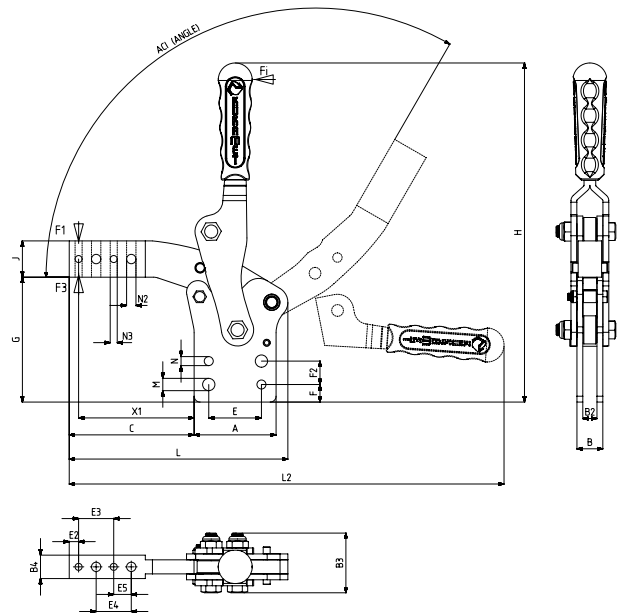
224
Sayfa/Page: 33

224-S-A
Sayfa/Page: 37

224-OCL
Sayfa/Page: 34

MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
			VERİM (YIELD) (F1)		
224-4-S	1500	5000	5:1	110 °	1230
224-6-S	2500	6500	5:1	110 °	1970

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



MODEL NO	A	B	B2	B3	B4	C	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224 - 4 - S	54	20	10	44	15	90	30	8	20	20	10	10	15	79	250	25	153	318	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224 - 6 - S	70	22	12	51	20	106,5	45	8	30	30	15	15	20	106,5	289,5	31	187	371,5	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5



new

Ayak Tipi: Dikey Sabit Tabanlı - Sac Kol - Açılı
 Body Mounting Base: Vertical and Fixed - Sheet Arm - Angled



*220-A (sayfa 48)
 Bkz. Aksesuar Sayfası
 *220-A (page 48)
 Please See Accessories Page



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Sayfa/Page: 33



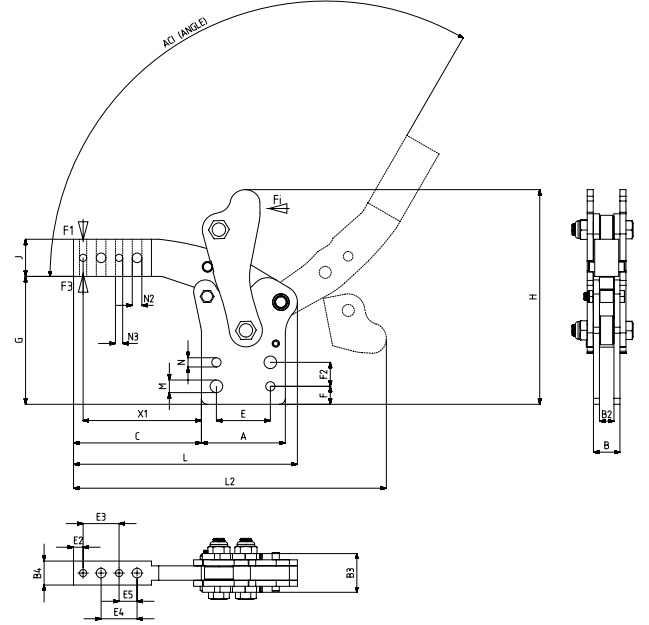
224-S

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Sayfa/Page: 44



MODEL NO	A	B	B2	B3	B4	C	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224-4-S-A	54	20	10	30,5	15	90	30	8	20	20	10	10	15	79	144,5	25	153	213	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224-6-S-A	70	22	12	32,5	20	106,5	45	8	30	30	15	15	20	106,5	179	31	187	261	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5



new



KİLİTLİ/LOCKED

Ayak Tipi: Dikey Sabit Tabanlı - Sac Kol
Açık ve Kapalı İken Kilitli
 Body Mounting Base: Vertical and Fixed - Sheet Arm
 Locked When Open and Closed



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Sayfa/Page: 29



224

Sayfa/Page: 33



224-K

Sayfa/Page: 35

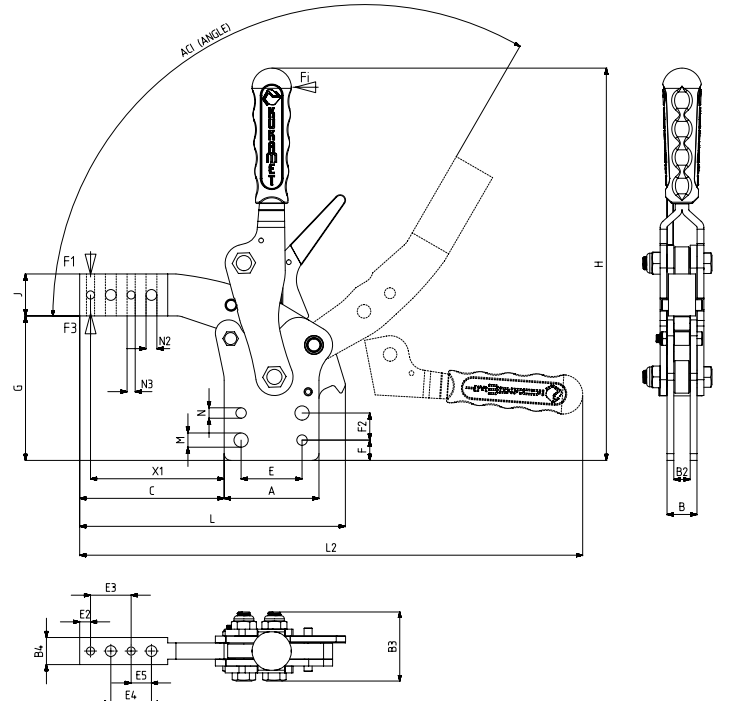


242

Sayfa/Page: 44

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
224-4-S-L	1500	5000	5:1	110°	1260
224-6-S-L	2500	6500	5:1	110°	2030

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



MODEL NO	A	B	B2	B3	B4	C	E	E2	E3	E4	E5	F	F2	G	H	J	L	L2	M	N	N2	N3	X1
224-4-S-L	54	20	10	44	15	90	30	8	20	20	10	10	15	79	144,5	25	159,5	318,5	Ø 8,5	Ø 5,7	Ø 6	Ø 6	82
224-6-S-L	70	22	12	51	20	106,5	45	8	30	30	15	15	20	106,5	289,5	31	196	371,5	Ø 10,5	Ø 7,7	Ø 8	Ø 6	98,5

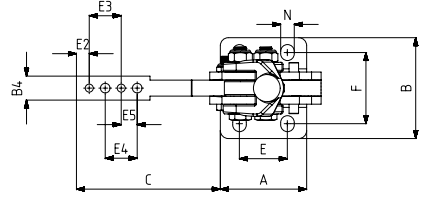
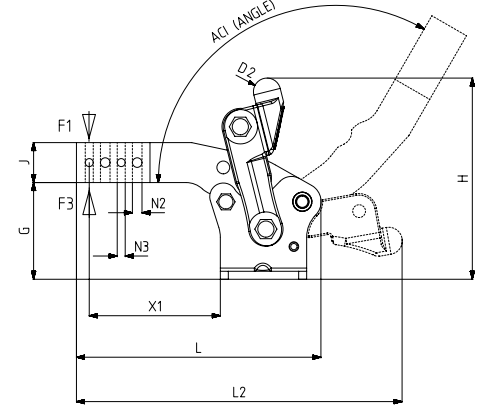
225



MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1)		
225 - 4	1500	5000	5:1	120°	1140
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

Sayfa/Page: 34



224-S-A

Sayfa/Page: 37



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Sayfa/Page: 40

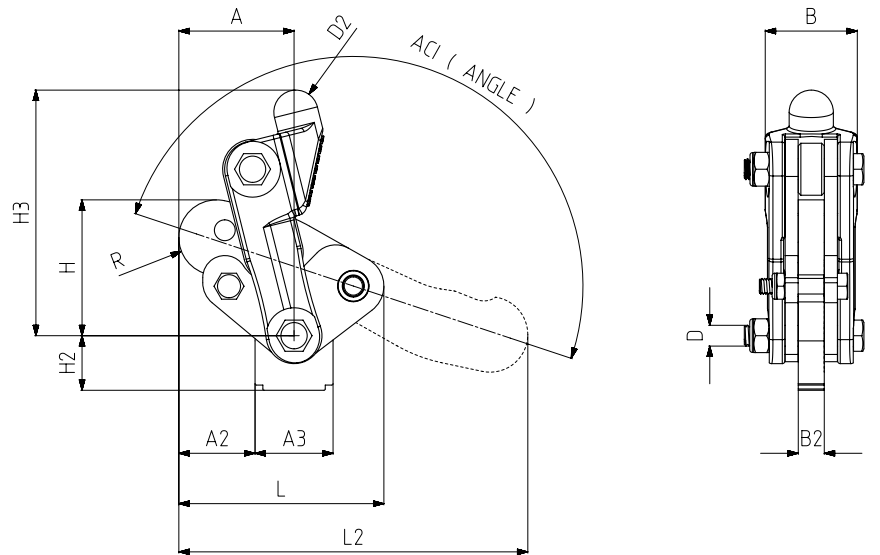
MODEL NO	A	B	B4	C	D2	E	E2	E3	E4	E5	F	G	H	J	L	L2	N	N2	N3	X1
225 - 4	54	63	15	90	Ø 17	30	8	20	20	10	44,5	60,5	126	25	153	204	8,5 x 10	Ø 6	Ø 6	82
225 - 6	70	74	20	106,5	Ø 22	45	8	30	30	15	52	83,5	159	31	187	263	10,5 x 11,5	Ø 8	Ø 6	98,5

232



MODEL NO	F1 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
		VERİM (YIELD) (F1)		
232-2	2500	5:1	180°	200
232-3	4000	5:1	180°	430
232-4	7000	5:1	180°	790
232-6	11000	5:1	180°	1600

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



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



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Sayfa/Page: 29



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Sayfa/Page: 44

MODEL NO	A	A2	A3	B	B2	D	D2	H	H2	H3	L	L2	R
232 - 2	36	26	20	23	6	M6	Ø 10	31	17	55	56	98	9,5
232 - 3	35,5	24,5	22	31	8	M6	Ø 13	40	19	75,5	63	107,5	11,5
232 - 4	44	29	30	36	10	M8	Ø 17	52	23	94,5	79	135	15
232 - 6	69	51,5	35	46	12	M10	Ø 22	73	30	120	112	197	18,5

232-P



new

Ayak Tipi: Dikey Oynar Tabanlı - Piston Bağlanılabilir
Body Mounting Base: Vertical and Adjustable - Mountable Piston

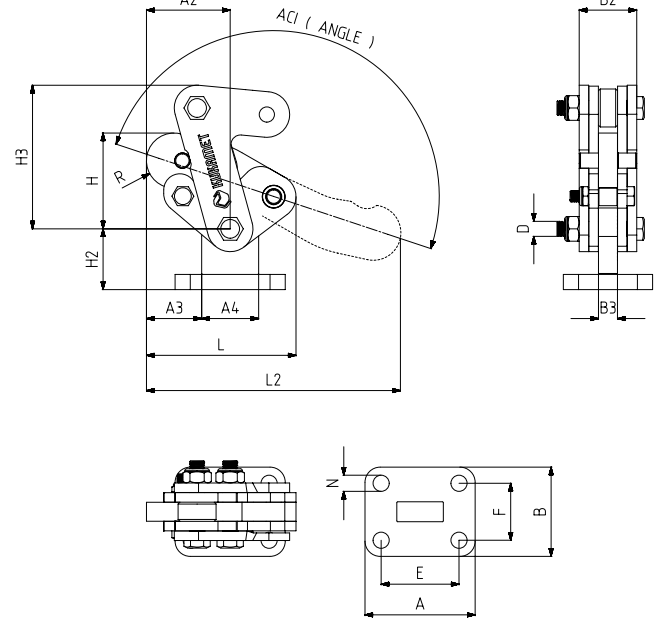


222-P
Sayfa/Page: 31



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Sayfa/Page: 38

MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
232 - 3 - P	4000	5:1	180°	500
232 - 4 - P	7000	5:1	180°	915
232 - 6 - P	11000	5:1	180°	1500



MODEL NO	A	A2	A3	A4	B	B2	B3	D	E	F	H	H2	H3	L	L2	N	R
232 - 3 - P	40	35,5	24,5	22	47	24	8	M6	23	33	40	25	61	63	107,5	Ø6,5	11,5
232 - 4 - P	40	44	29	30	50	30	10	M8	25	35	50,5	32	76	79	134	Ø6,5	15
232 - 6 - P	50	69	51,5	35	60	32	12	M10	30	40	73	36	99,5	112	197	Ø8,5	18,5

233



MODEL NO	F1 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
233-2	2500	5:1	180°	200

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

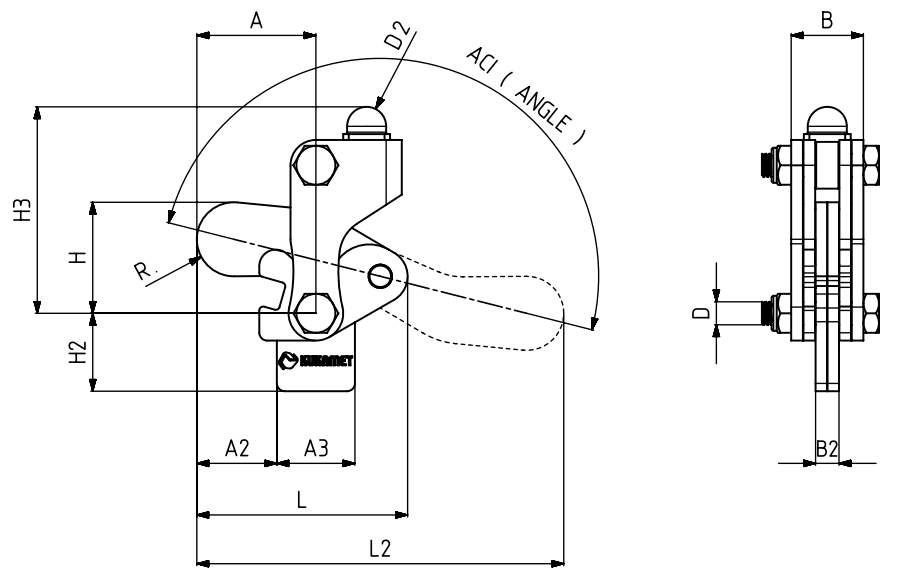
Ayak Tipi: Dikey Oynar Tabanlı
Body Mounting Base: Vertical and Adjustable



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Sayfa/Page: 33



917
Sayfa/Page: 141



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

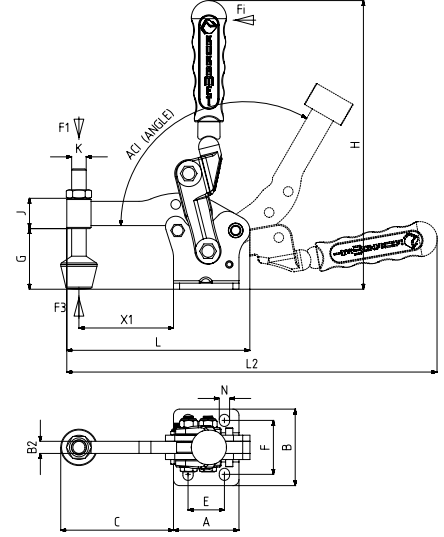
MODEL NO	A	A2	A3	B	B2	D	D2	H	H2	H3	L	L2	R
233-2	30,5	20,5	20	18,5	6	M6	Ø10	28,5	20	53	54	94	9,5

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°	315
241-3	1000	3500	5:1	120°	810
241-4	1500	5000	5:1	120°	1350
241-6	2000	6000	5:1	120°	2320

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



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



241-D
Sayfa/Page: 41



241-S
Sayfa/Page: 42



241-S-A
Sayfa/Page: 43



242
Sayfa/Page: 44

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	M6	89	192	6,5 x 8,5	44,5
241 - 3	43,5	51	8	76,5	23	33	39	210	22	M10	123	279	Ø9	63
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-L

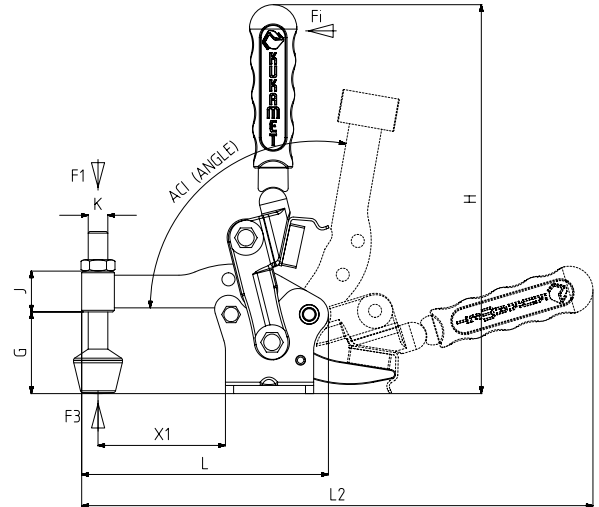


KİLİTLİ/LOCKED



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°	1465
241-6-L	2000	6000	5:1	100°	2470

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: 41



241-S-L
Sayfa/Page: 42



241-OCL
Sayfa/Page: 43



951-G
Sayfa/Page: 143

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


Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

*911-951-G (sayfa 139-143)

Bkz. Aksesuar Sayfası

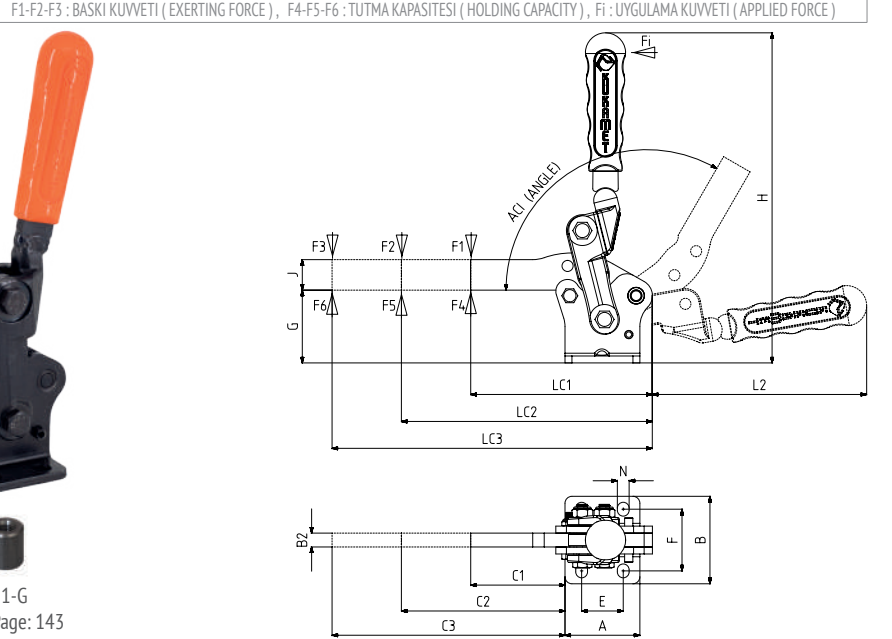
*911-951 -G (page 139-143)

Please See Accessories Page



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

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
							VERİM (YIELD) (F1)		C1	C2	C3
241-2-D	750	320	210	2500	1000	700	5:1	120°	290	320	354
241-4-D	1500	860	600	5000	2800	1500	5:1	120°	1174	1270	1380
241-6-D	2000	1400	850	6000	3600	2000	5:1	120°	2120	2260	2370



*911-951-G (sayfa 139-143)

Bkz. Aksesuar Sayfası

*911-951 -G (page 139-143)

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KİLİTLİ/LOCKED

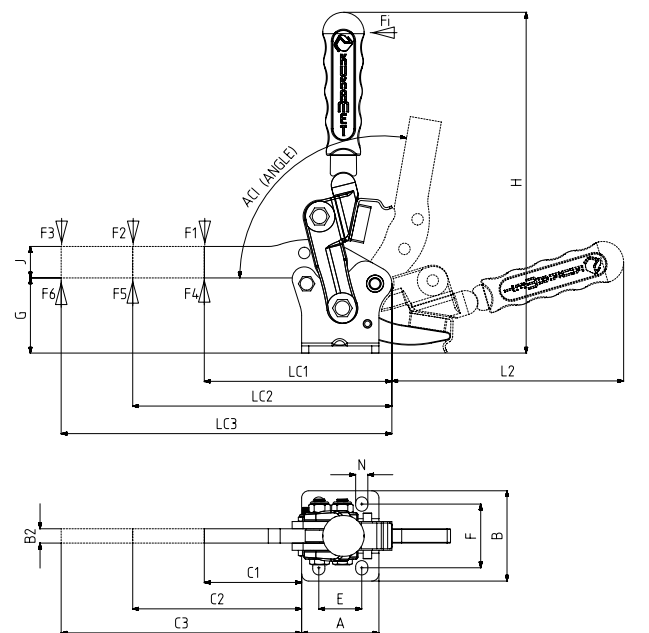
Ayak Tipi: Yatay Tabanlı
(Açıkken Kilitli)

 Body Mounting Base: Horizontal
 (Locked when open)

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

MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	F5 (N)	F6 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)		
							VERİM (YIELD) (F1)		C1	C2	C3
241-4-D-L	1500	860	600	5000	2800	1500	5:1	100°	1288	1380	1500
241-6-D-L	2000	1400	850	6000	3600	2000	5:1	100°	2270	2400	2520

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



241-S

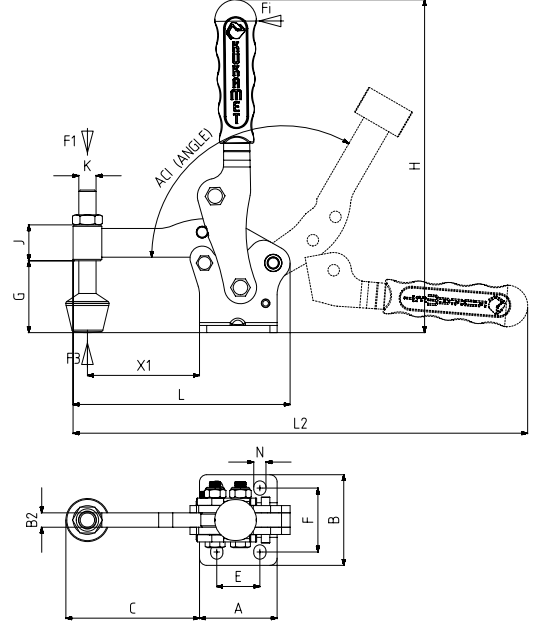


Ayak Tipi: Yatay Tabanlı - Sac Kol

Body Mounting Base: Horizontal Base - Sheet Arm

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
241 - 3 - S	1000	3500	5:1	120°	750
241 - 4 - S	1500	5000	5:1	120°	1300
241 - 6 - S	2000	6000	5:1	120°	1995

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



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MODEL NO	A	B	B2	C	D	E	F	G	H	J	K	L	L2	M	N	X1
241 - 3 - S	43,5	51	8	76,5	-	23	33	39	204,5	22	M10	123	274,5	-	Ø9	63
241 - 4 - S	54	63	10	88	-	30	44,5	49	232	27	M12	151	316,5	-	8,5 x 10	78
241 - 6 - S	70	74	12	111	-	45	52	68	266,5	32	M12	191	376	-	10,5 x 11,5	98,5

241-S-L



new

Ayak Tipi: Yatay Tabanlı - Sac Kol

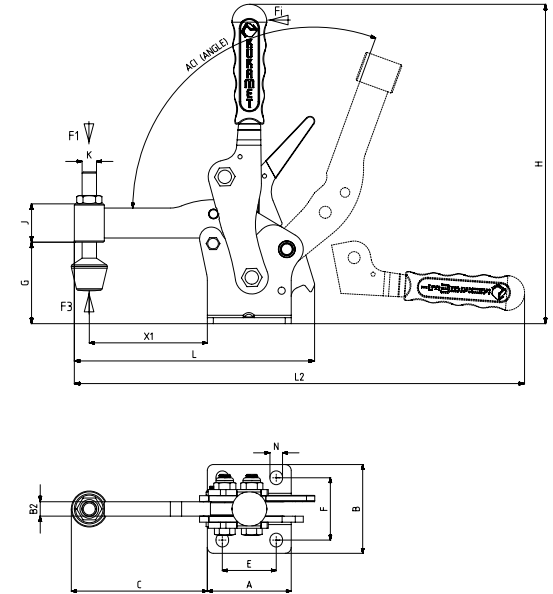
Açık ve Kapalı İken Kilitli

Body Mounting Base: Horizontal Base - Sheet Arm

Locked when open and closed

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
241 - 3 - S - L	1000	3500	5:1	110°	765
241 - 4 - S - L	1500	5000	5:1	110°	1345
241 - 6 - S - L	2000	6000	5:1	110°	2038

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



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MODEL NO	A	B	B2	C	E	F	G	H	J	K	L	L2	N	X1
241 - 3 - S - L	43,5	51	8	76,5	23	33	39	204,5	22	M10	128	274,5	Ø9	63
241 - 4 - S - L	54	63	10	88	30	44,5	49	232	27	M12	157	316,5	8,5 x 10	78
241 - 6 - S - L	70	74	12	111	45	52	68	266,5	32	M12	200,5	376	10,5 x 11,5	98,5



new

Ayak Tipi: Yatay Tabanlı - Sac Kol - Açılı Kol

Body Mounting Base: Horizontal Base - Sheet Arm - Angled Arm



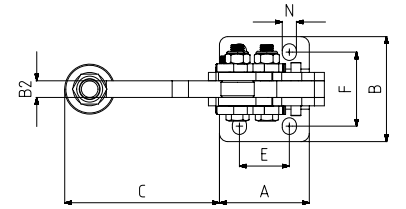
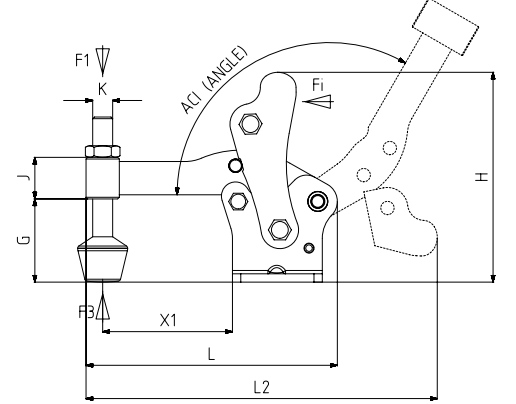
*220-A (sayfa 48)
Bkz. Aksesuar Sayfası
*220-A (page 48)
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224-S-A
Sayfa/Page: 37

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Sayfa/Page: 40

220-A
Sayfa/Page: 48



MODEL NO	A	B	B2	C	D	E	F	G	H	J	K	L	L2	M	N	X1
241-3-S-A	43,5	51	8	76,5	-	23	33	39	102	22	M10	123	172	-	Ø9	63
241-4-S-A	54	63	10	88	-	30	44,5	49	126	27	M12	151	211	-	8,5 x 10	78
241-6-S-A	70	74	12	111	-	45	52	68	156	32	M12	191	265	-	10,5 x 11,5	98,5



new

Ayak Tipi: Yatay Tabanlı - Açık ve Kapalı İken Kilitli

Body Mounting Base: Horizontal Base - Locked when open and closed



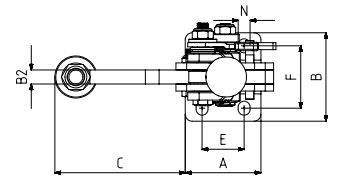
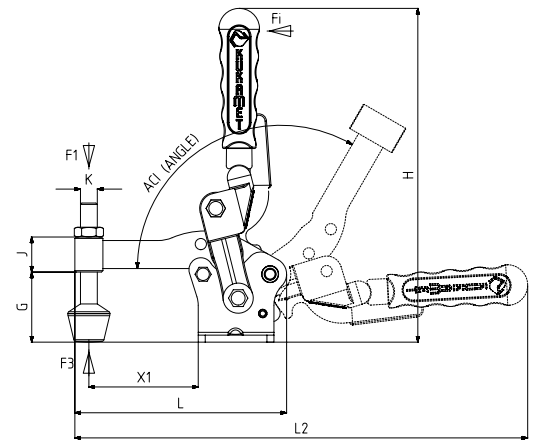
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Sayfa/Page: 40

241-D
Sayfa/Page: 41

241-S
Sayfa/Page: 42

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
241-2-OCL	750	2500	5:1	100°	355
241-4-OCL	1500	5000	5:1	100°	1484
241-6-OCL	2000	6000	5:1	100°	2520

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



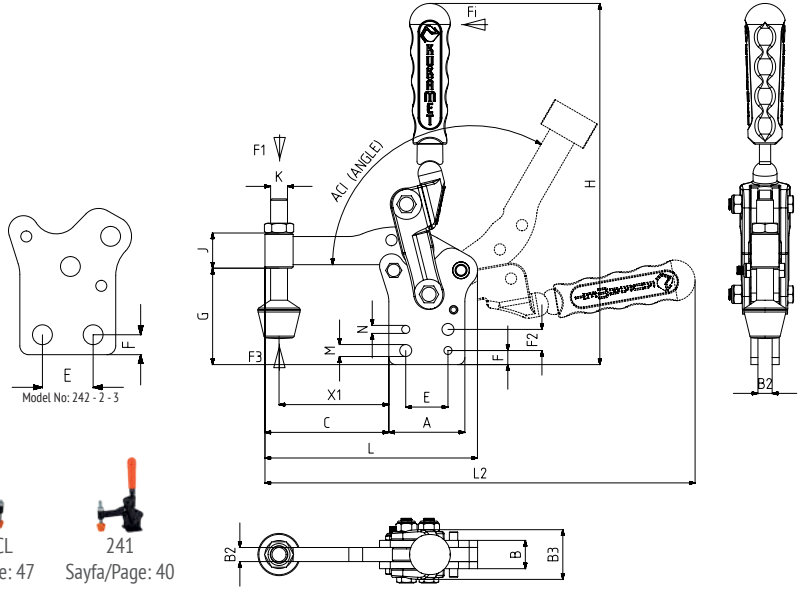
MODEL NO	A	B	B2	C	D	E	F	G	H	J	K	L	L2	N	X1
241-2-OCL	36	48,5	6	52,5	-	20	32	28,5	143	15	M6	89	192	6,5 x 8,5	44,5
241-4-OCL	54	63	10	88	-	30	44,5	49	238	27	M12	151	323	8,5 x 10	78
241-6-OCL	70	74	12	111	-	45	52	68	280	32	M12	191	390	10,5 x 11,5	98,5

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°	315
242 - 3	1000	3500	5:1	120°	756
242 - 4	1500	5000	5:1	120°	1370
242 - 6	2000	6000	5:1	120°	2300

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

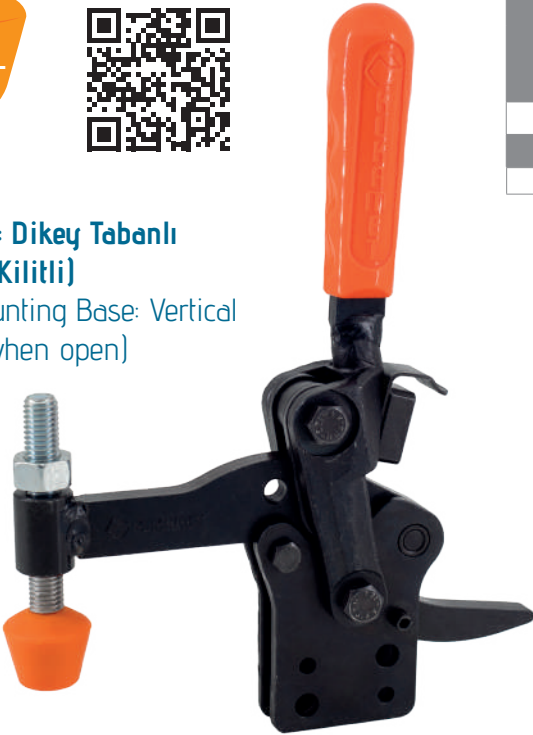


Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



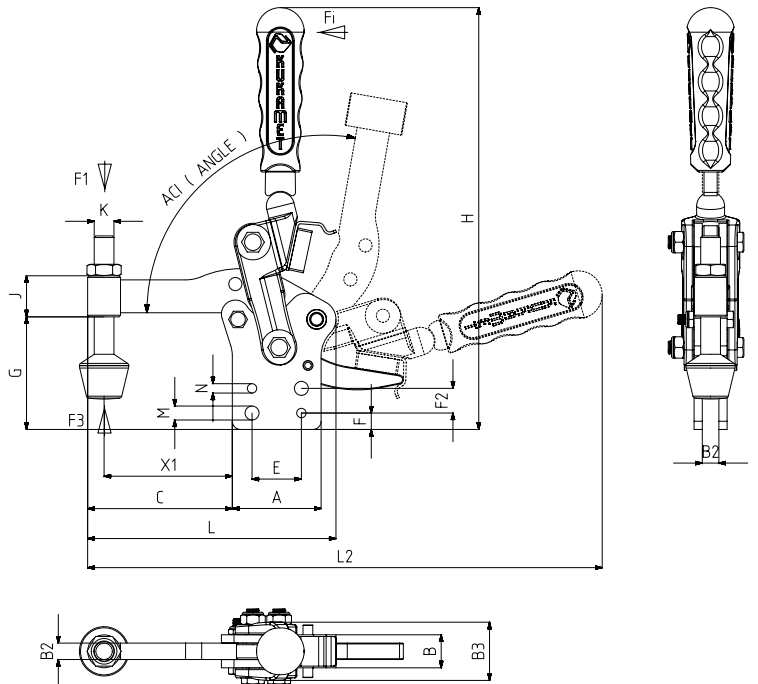
MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242 - 2	36	12	6	23	50,5	20	8	-	44,5	159	15	M6	89	192	Ø 6,5		44,5
242 - 3	43,5	16	8	30,5	72,5	23	9	-	54	225	22	M8	123	280	Ø9		63
242 - 4	54	20	10	36	88	30	10	15	67,5	257	27	M12	151	323	Ø 8,5	Ø 5,7	78
242 - 6	70	22	12	46	111	45	15	20	91	303	32	M12	191	390	Ø 10,5	Ø 7,7	98,5

242-L

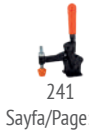


MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
242-4-L	1500	5000	5:1	100°	1435
242-6-L	2000	6000	5:1	100°	2470

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



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

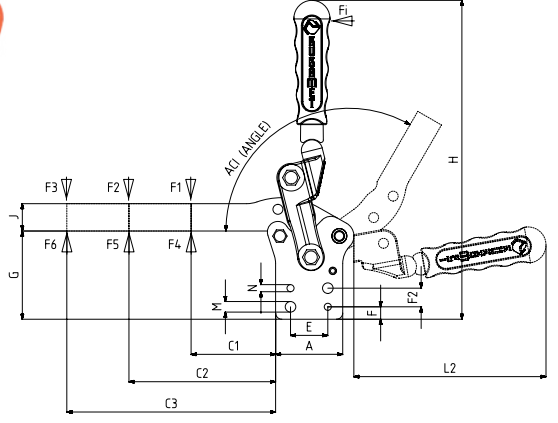


MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242-4-L	54	20	10	36	88	30	10	15	67,5	257	27	M12	151	323	Ø 8,5	Ø 5,7	78
242-6-L	70	22	12	46	111	45	15	20	91	303	32	M12	191	390	Ø 10,5	Ø 7,7	98,5

242-D



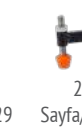
*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
Please See Accessories Page



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



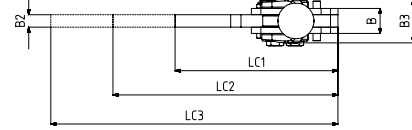
222
Sayfa/Page: 29



222-C
Sayfa/Page: 30



242
Sayfa/Page: 44

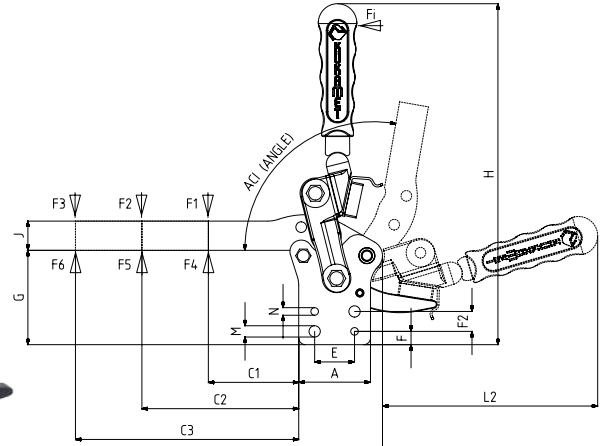


MODEL NO	A	B	B2	B3	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N
242 - 2 - D	36	12	6	23	38,5	88,5	138,5	20	8	-	44,5	159	15	77	127	177	103	Ø 6,5	-
242 - 4 - D	54	20	10	36	68	118	168	30	10	15	67,5	257	27	131	181	231	172	Ø 8,5	Ø 5,7
242 - 6 - D	70	22	12	46	86	130	180	45	15	20	91	303	32	166	210	260	198	Ø 10,5	Ø 7,7

242-D-L



*911-951-G (sayfa 139-143)
Bkz. Aksesuar Sayfası
*911-951 -G (page 139-143)
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Ayak Tipi: Dikey Tabanlı
(Açıkken Kilitli)
Body Mounting Base: Vertical
(Locked when open)



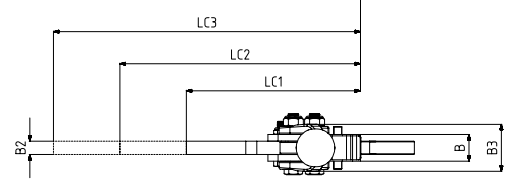
222
Sayfa/Page: 29



222-C
Sayfa/Page: 30



242
Sayfa/Page: 44



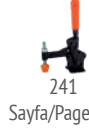
MODEL NO	A	B	B2	B3	C1	C2	C3	E	F	F2	G	H	J	LC1	LC2	LC3	L2	M	N
242 - 4 - D - L	54	20	10	36	68	118	168	30	10	15	67,5	257	27	131	181	231	172	Ø 8,5	Ø 5,7
242 - 6 - D - L	70	22	12	46	86	130	180	45	15	20	91	303	32	166	210	260	199	Ø 10,5	Ø 7,7

242-S



Ayak Tipi: Dikey Tabanlı - Sac Kol

Body Mounting Base: Vertical Base - Sheet Arm



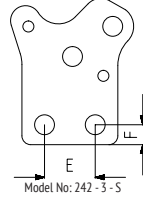
241
Sayfa/Page: 40



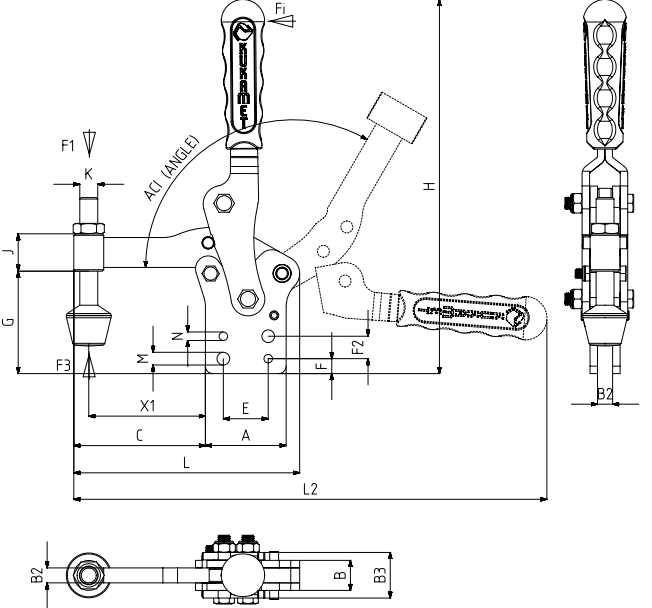
241-D-L
Sayfa/Page: 41



951-G
Sayfa/Page: 143



Model No: 242 - 3 - S



MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242 - 3 - S	43,5	16	8	30,5	72,5	23	9	-	54	220	22	M8	123	274,5	Ø9		63
242 - 4 - S	54	20	10	36	88	30	10	15	67,5	250	27	M12	151	316,5	Ø 8,5	Ø 5,7	78
242 - 6 - S	70	22	12	46	111	45	15	20	91	290	32	M12	191	376	Ø 10,5	Ø 7,7	98,5

242-S-L



new

Ayak Tipi: Dikey Tabanlı - Sac Kol

Açık ve Kapalı İken Kilitli

Body Mounting Base: Vertical Base - Sheet Arm

Locked when open and closed



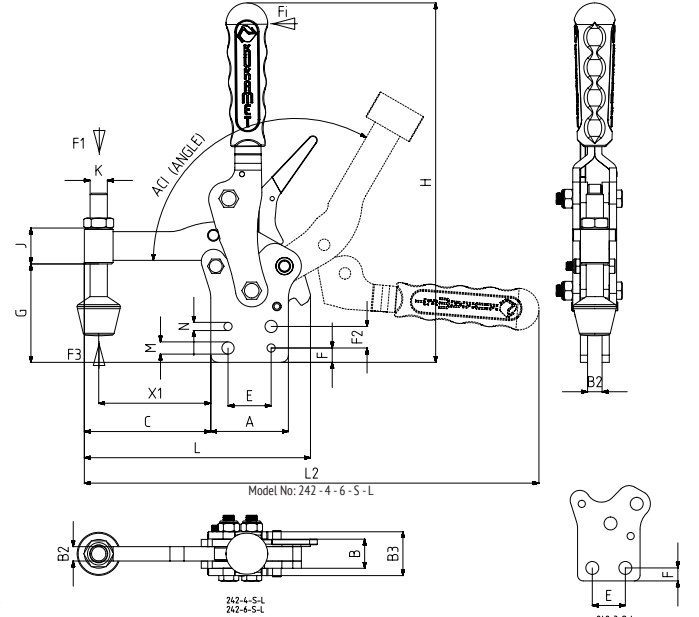
241-S-L
Sayfa/Page: 42



242
Sayfa/Page: 44



242-OCL
Sayfa/Page: 47



MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242 - 3 - S - L	43,5	16	8	30,5	72,5	23	9	-	54	220	22	M8	128	274,5	Ø9		63
242 - 4 - S - L	54	20	10	36	88	30	10	15	67,5	250	27	M12	157	316,5	Ø 8,5	Ø 5,7	78
242 - 6 - S - L	70	22	12	46	111	45	15	20	91	290	32	M12	200,5	376	Ø 10,5	Ø 7,7	98,5



new

MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ± %2)
242 - 2 - OCL	750	2500	5:1	100°	355
242 - 4 - OCL	1500	5000	5:1	100°	1500
242 - 6 - OCL	2000	6000	5:1	100°	2520

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

Ayak Tipi: Dikey Tabanlı - Açık ve Kapalı İken Kilitli

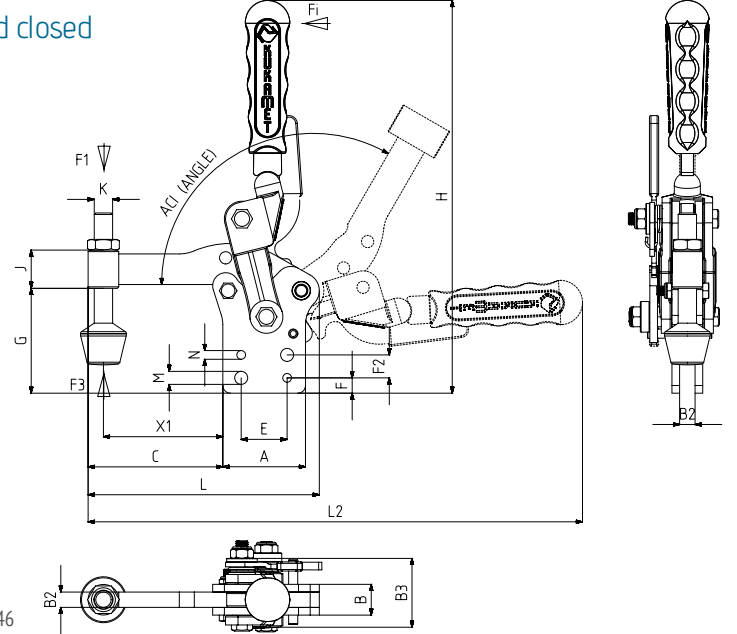
Body Mounting Base: Vertical Base - Locked when open and closed



241-OCL
Sayfa/Page: 43

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Sayfa/Page: 44

242-S
Sayfa/Page: 46



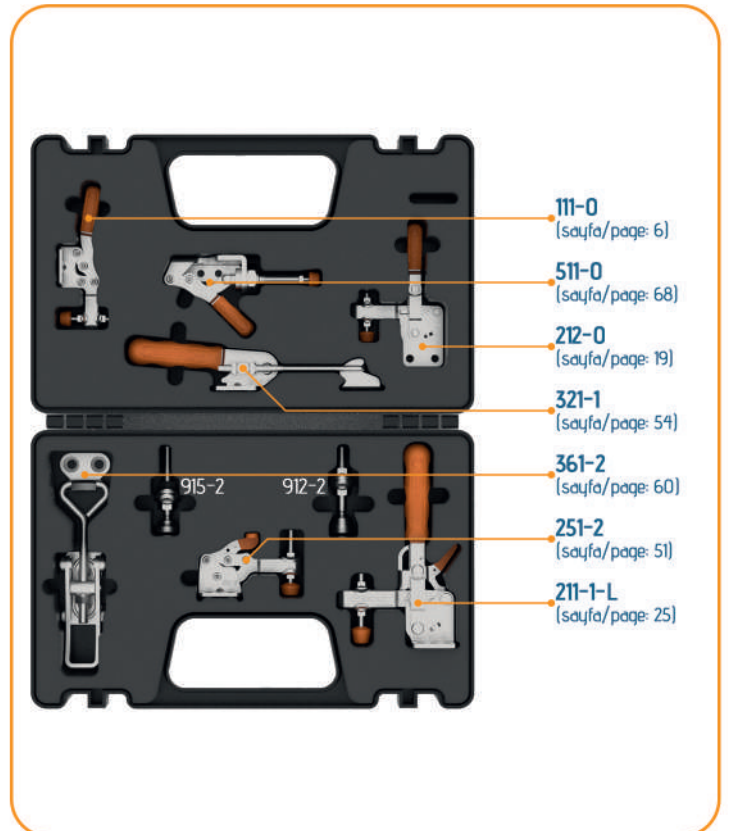
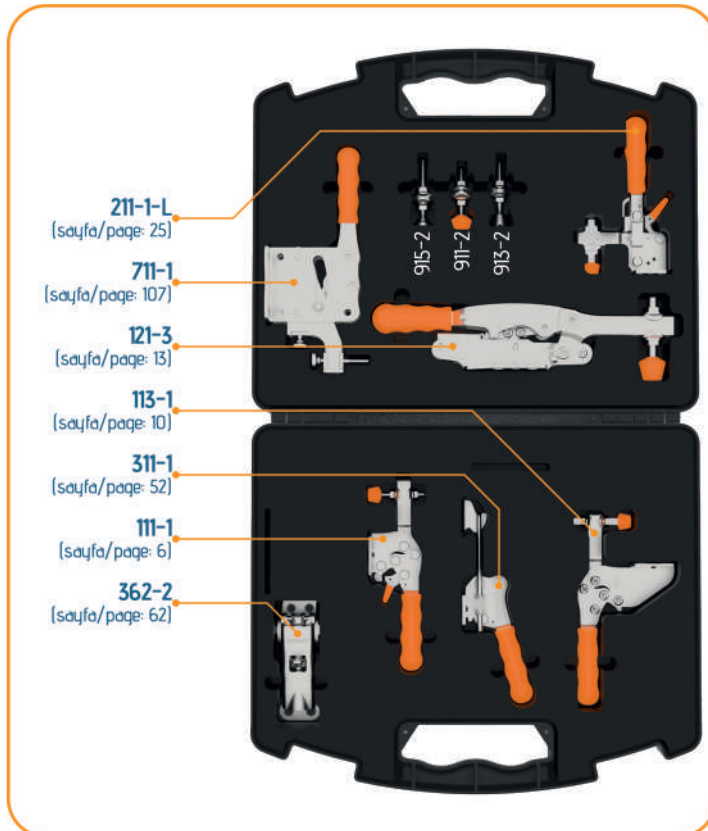
MODEL NO	A	B	B2	B3	C	E	F	F2	G	H	J	K	L	L2	M	N	X1
242 - 2 - OCL	36	12	6	30	50,5	20	8	-	44,5	159	15	M6	89	192	Ø 6,5		44,5
242 - 4 - OCL	54	20	10	43,5	88	30	10	15	67,5	257	27	M12	151	323	Ø 8,5	Ø 5,7	78
242 - 6 - OCL	70	22	12	51	111	45	15	20	91	303	32	M12	191	390	Ø 10,5	Ø 7,7	98,5

new

AMATÖR SET | AMATEUR SET

SET 1

SET 2



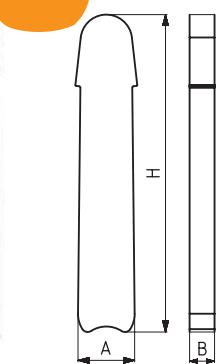


*921 Bkz. Aksesuar Sayfası (sayfa 141)
*921 Please See Accessories Page (page 141)



*921-S Bkz. Aksesuar Sayfası (sayfa 142)
*921-S Please See Accessories Page (page 142)

220-06



METAL UZATMA KOLU
METAL EXTENSION ARM

220-07

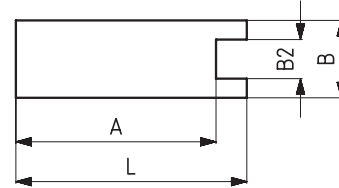


ÇENE UZATMA LAMASI
JAW EXTENSION BAR



METAL UZATMA KOLU / METAL EXTENSION ARM

KOD	MODEL NO	POLİÜRETAN SAP (POLYURETHANE HANDLE)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	H
220-2-06	221-221-L-221-C-221-C-L-222-222-L-222-C-222-C-L-224-224-K-224-L-224-K-L-225-232-2	921 - 2	25	11	5	66
220-2-06-C1	221-221-L-221-C-221-C-L-222-222-L-222-C-222-C-L-224-224-K-224-L-224-K-L-225-232-2	921 - 2	75	13,5	5	167
220-4-06	221-221-L-221-C-221-C-L-222-222-L-222-C-222-C-L-224-224-K-224-L-224-K-L-225-232-4 / 221-3 / 222-3	921 - 4 - 8 mm	110	18	8	105
220-4-06 C1	221-221-L-221-C-221-C-L-222-222-L-222-C-222-C-L-224-224-K-224-L-224-K-L-225-232-4	921 - 4 - 8 mm	235	20,5	8	207
220-6-06	221-221-L-221-C-221-C-L-222-222-L-222-C-222-C-L-224-224-K-224-L-224-K-L-225-232-6	921 - 4 - 10 mm	150	18	10	114
220-6-06-C1	221-221-L-221-C-221-C-L-222-222-L-222-C-222-C-L-224-224-K-224-L-224-K-L-225-232-6	921 - 4 - 10 mm	307	20,5	10	215



ÇENE UZATMA LAMASI / JAW EXTENSION BAR

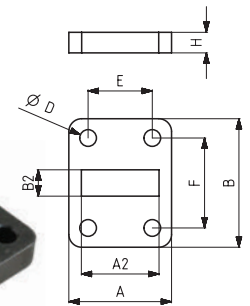
KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	B2	L	H
220-2-07	222-232-2	50	32	12	6,5	40	15
220-4-07	222-232-4	215	52	20	10,1	60	25
220-6-07	222-232-6	430	68	25	12,1	80	30

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
232-3-08	232-3	95	40	18,5	47	8,5	Ø6,5	23	33	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

232-08

TABAN PLAKASI
BASE PLATE

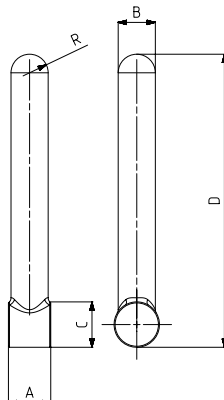


220-A



new

AÇILI KOL
ANGLED ARM

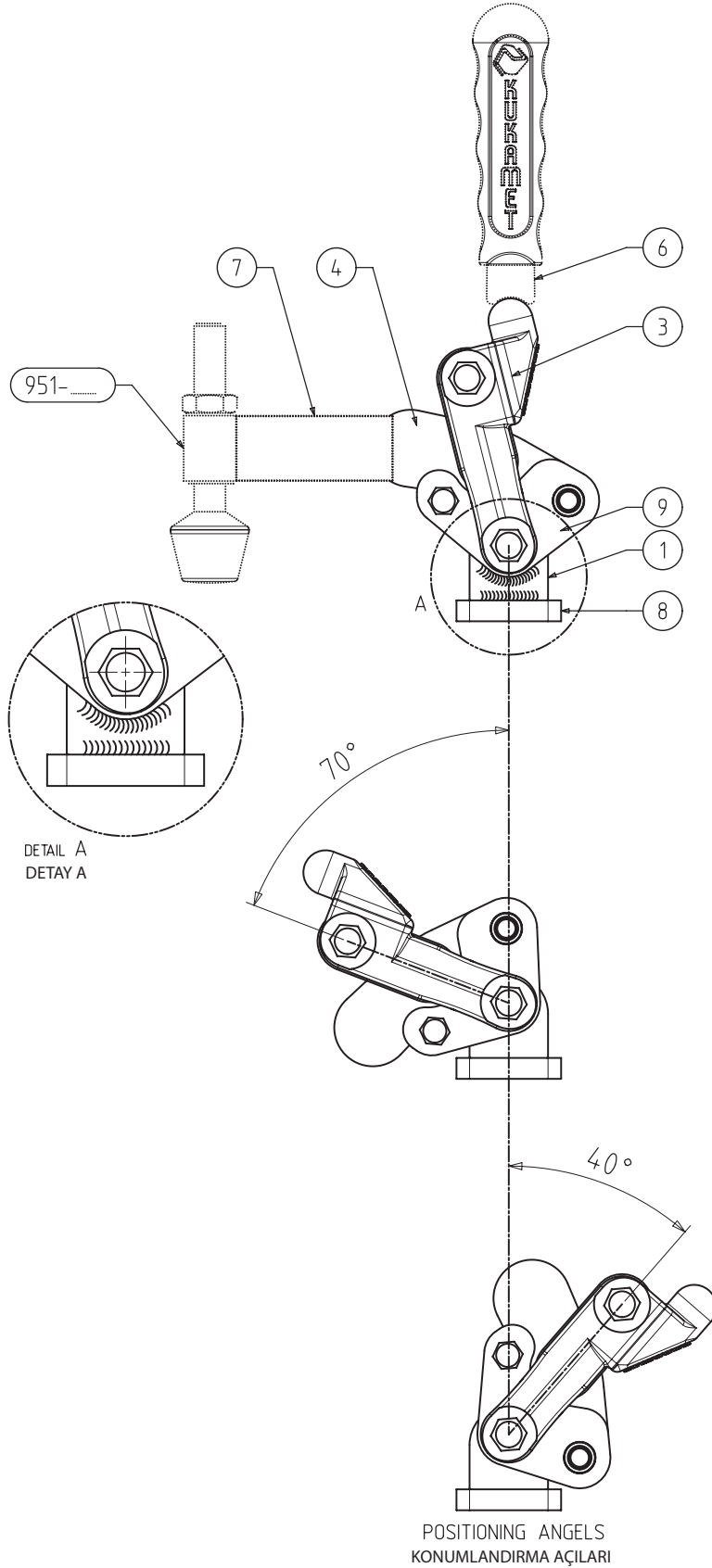


AÇILI KOL / ANGLED ARM

KOD	MODEL NO	POLİÜRETAN SAP (POLYURETHANE HANDLE)	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	C	D	R
220-3-A	222-224-241-3-S-A	921 - 4 - Ø16	215	16,2	Ø16	Ø16	136	8
220-4-A	222-224-241-4-S-A	921 - 4 - Ø18	295	20,5	Ø18	Ø22	142	9
220-6-A	222-224-241-6-S-A	921 - 4 - Ø18	315	22	Ø18	Ø24	144	9

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

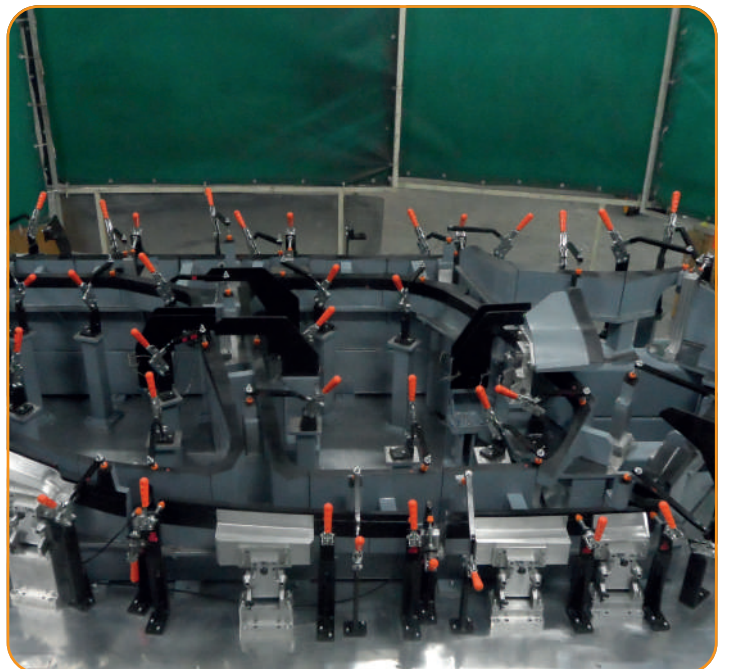
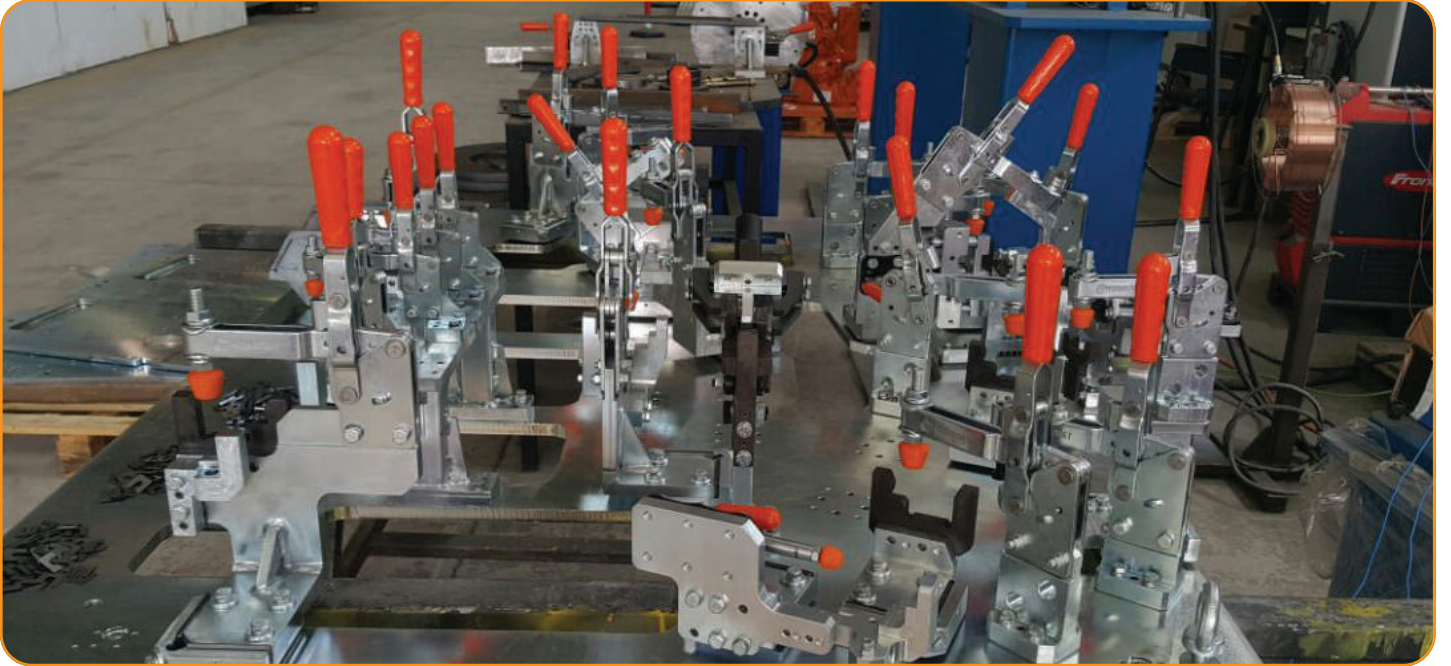
* THE HANDLE EXTENSION PART NUMBER 6 CAN BE WELDED TO THE HANDLE PART NUMBER 3;
 * THE ARM EXTENSION PART NUMBER 7 CAN BE WELDED TO THE ARM PART NUMBER 4

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.

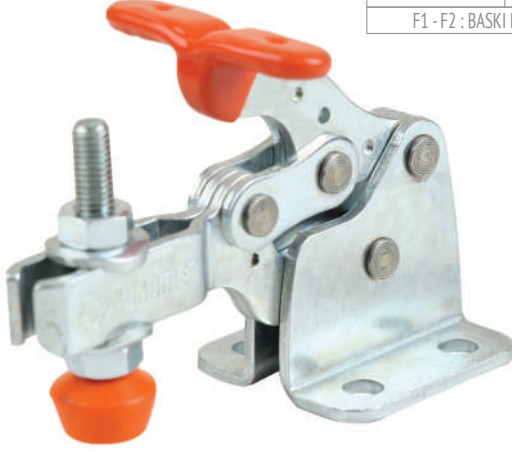


251

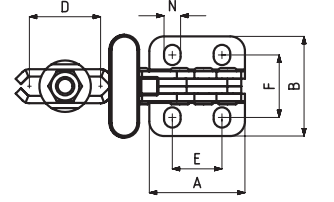
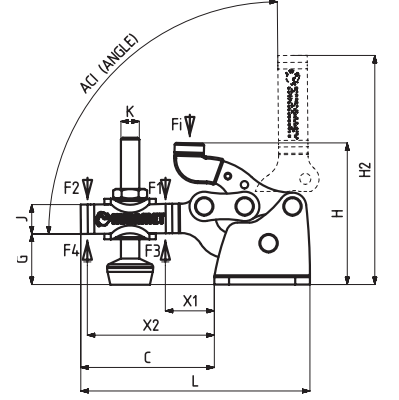


MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		
251-2	B251-....	470	380	700	560	3:1	2:1	90°	68
251-3	B251-....	1400	1030	1625	1200	3:1	2:1	90°	263
251-4	B251-....	2000	1370	3370	2445	4:1	2.5:1	90°	700

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



251-L



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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251-L

Sayfa/Page: 51

KİLİTLİ/LOCKED

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

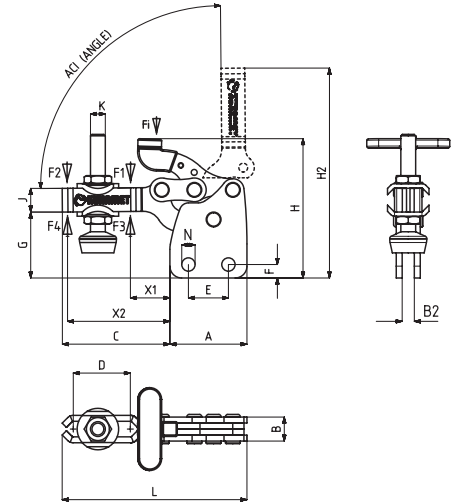


MODEL NO	SİYAH (BLACK)	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
						(X1) VERİM (YIELD) (F1:Fi)	(X2) VERİM (YIELD) (F2:Fi)		
252-2	B252-....	470	380	700	560	3:1	2:1	90°	68
252-3	B252-....	1400	1030	1625	1200	3:1	2:1	90°	261
252-4	B252-....	2000	1370	3370	2445	4:1	2.5:1	90°	708

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



252-L



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



112

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212

Sayfa/Page: 19

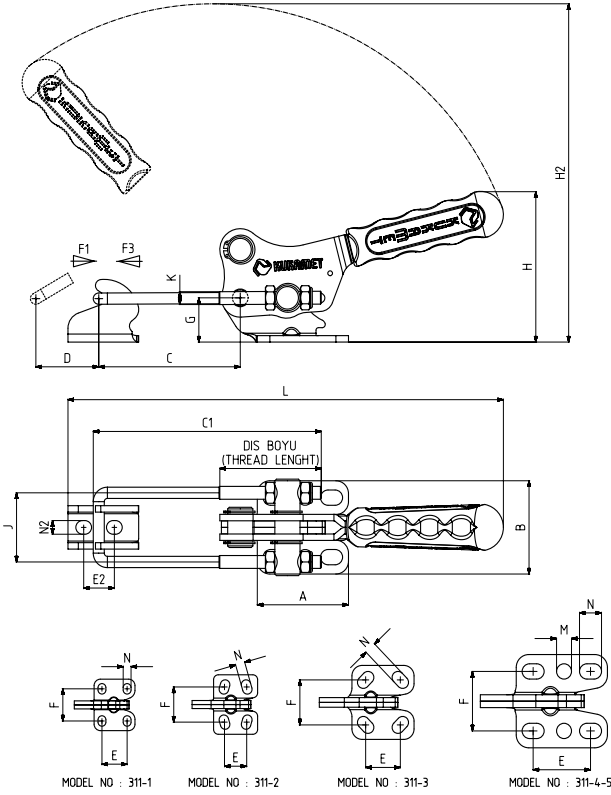


252-L

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KİLİTLİ/LOCKED

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	130
311 - 2	S 311 -	B 311 -	1500	2000	45	168
311 - 3	S 311 -	B 311 -	2200	3200	75	332
311 - 4	S 311 -	B 311 -	7000	8000	95	810
311 - 5	-	B 311 -	10000	11000	110	950

F1 : ÇEKME KUVVETİ (TENSILE 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

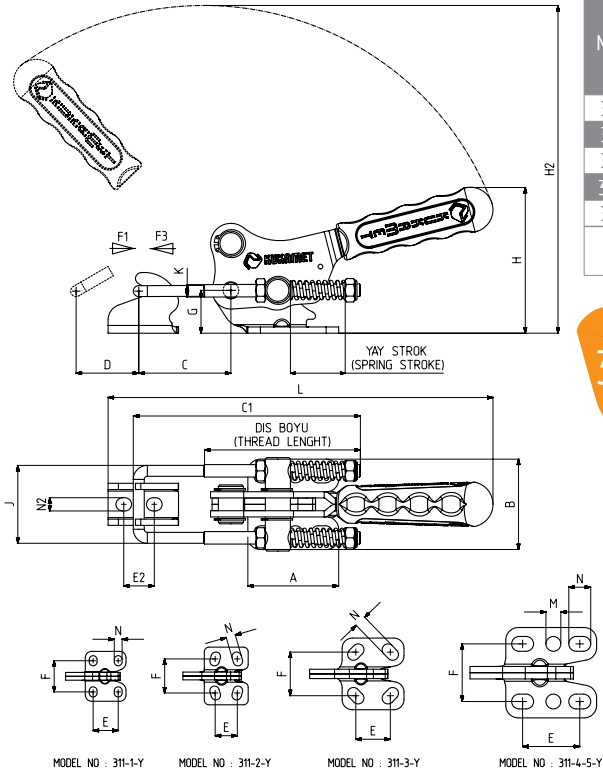


311-Y
Sayfa/Page:52

312
Sayfa/Page: 53

311-L
Sayfa/Page: 59

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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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

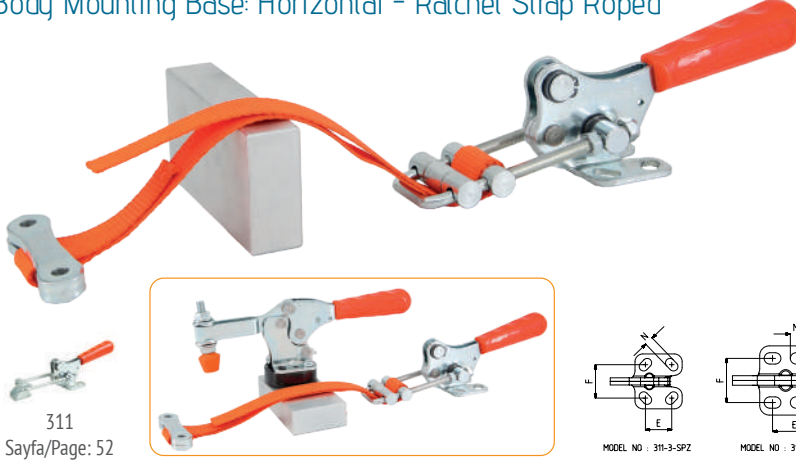
C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

311-SPZ



new

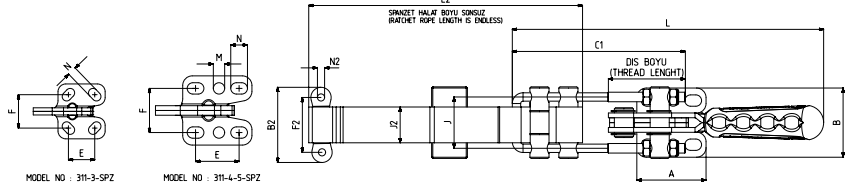
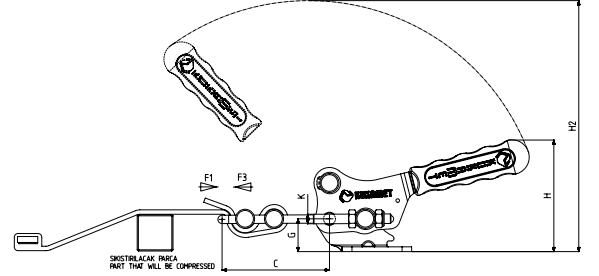
Ayak Tipi: Yatay Tabanlı - Spanzet - Halatlı
Body Mounting Base: Horizontal - Ratchet Strap Roped



311
Sayfa/Page: 52

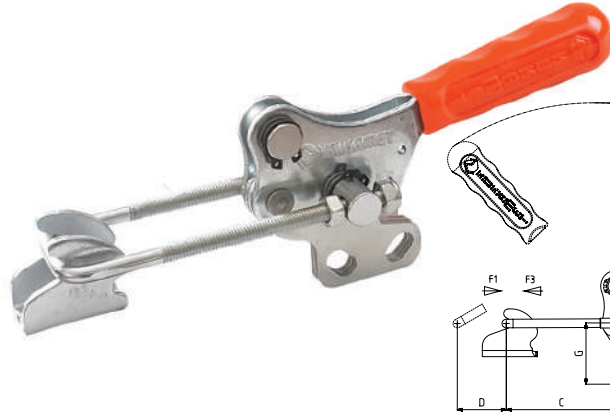
MODEL NO	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread lenght)	AĞIRLIK (WEIGHT) (gr ± %2)
311 - 3 - SPZ	2200	3200	75	376
311 - 4 - SPZ	7000	8000	95	914
311 - 5 - SPZ	10000	11000	110	1098

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



MODEL NO	A	B	B2	C min.	C max.	C1	D	E	E2	F	F2	G	H	H2	J	J2	K	L min.	L max.	L2	M	N	N2
311 - 3 - SPZ	39,5	46	49,5	32	67	105	35	22	16	28	37,5	21,5	67	160	30	20	M6	167	202	∞	-	7,5 x 11,5	Ø 5
311 - 4 - SPZ	58	58	63	45	95	145	44	36,5	19,5	37	46	27,5	91	200	43	30	M8	218	267	∞	Ø 9,5	9,5 x 14	Ø 6
311 - 5 - SPZ	58	58	63	45	127	180	44	36,5	19,5	37	46	27,5	93,5	204,5	45	30	M10	218	300	∞	Ø 9,5	9,5 x 14	Ø 6

312



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



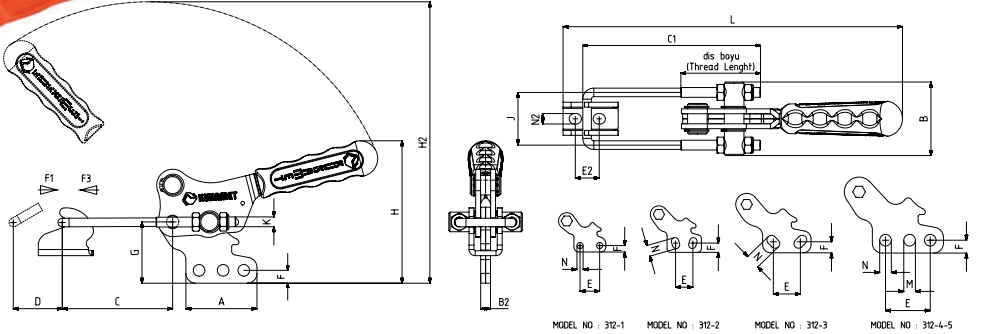
311
Sayfa/Page: 52

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Sayfa/Page: 54

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Sayfa/Page: 55

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	130
312 - 2	S 312 -	B 312 -	1500	2000	45	170
312 - 3	S 312 -	B 312 -	2200	3200	75	330
312 - 4	S 312 -	B 312 -	7000	8000	95	815
312 - 5	-	B 312 -	10000	11000	110	954

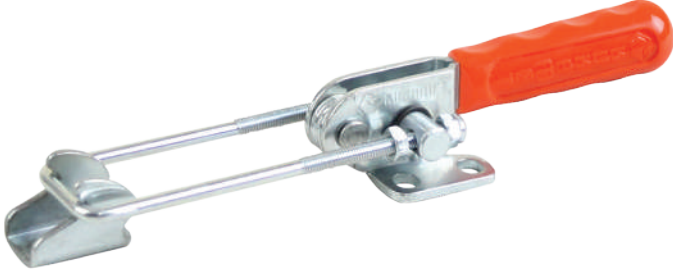
F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz U Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



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

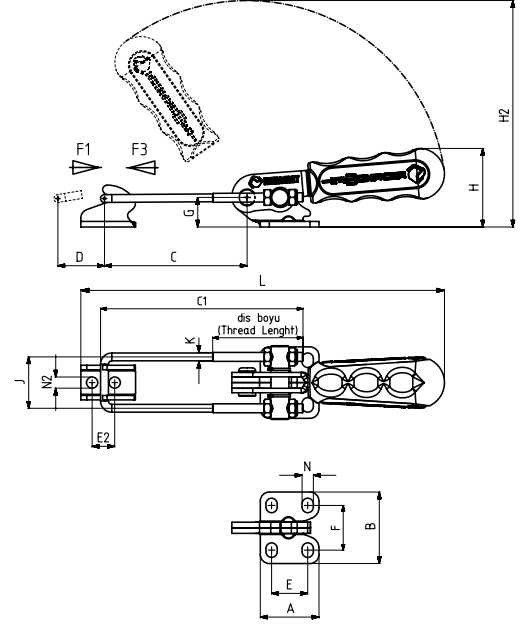
C Ölçüsü Kısa U Kanca İçindir. Bkz. Aksesuar Sayfası. / C Dimension is for short U Hook. Please See Accessories Page.

321



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
321 - 1	S 321 -	B 321 -	1000	1500	45	110

F1 : ÇEKME KUVVETİ (TENSILE 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: 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

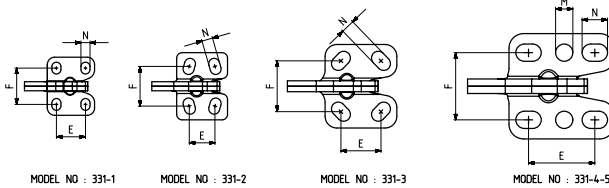
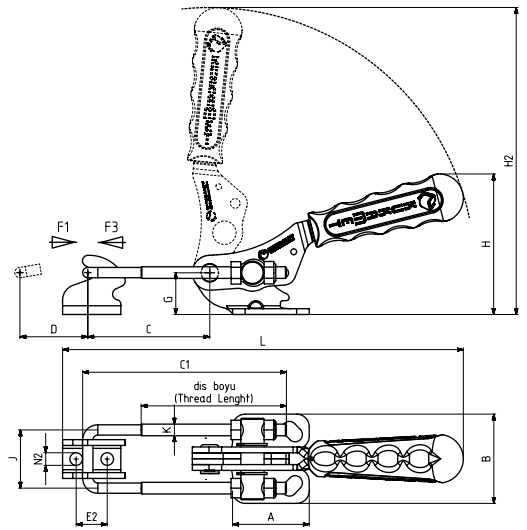


Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
331 - 1	S 331 -	B 331 -	1000	1500	45	90
331 - 2	S 331 -	B 331 -	1500	2000	45	147
331 - 3	S 331 -	B 331 -	2200	3200	75	300
331 - 4	S 331 -	B 331 -	7000	8000	95	710
331 - 5	-	B 331 -	10000	11000	110	840

F1 : ÇEKME KUVVETİ (TENSILE 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)



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.

332

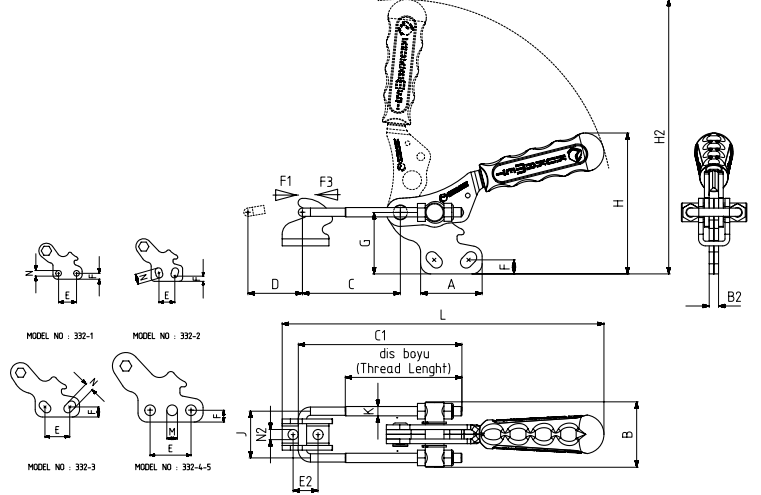


Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
332 - 1	S 332 -	B 332 -	1000	1500	45	91
332 - 2	S 332 -	B 332 -	1500	2000	45	150
332 - 3	S 332 -	B 332 -	2200	3200	75	300
332 - 4	S 332 -	B 332 -	7000	8000	95	720
332 - 5	-	B 332 -	10000	11000	110	850

F1 : ÇEKME KUVVETİ (TENSILE 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)

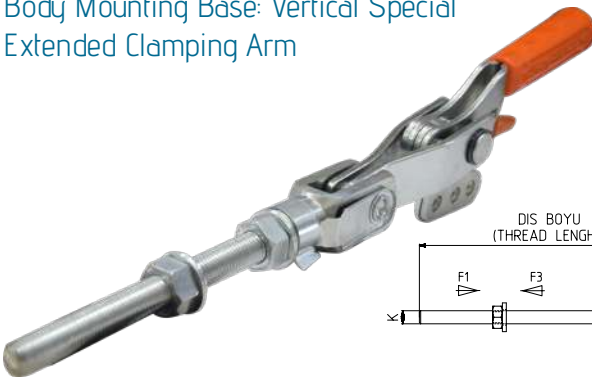


MODEL NO	A	B	B2	C min.	C max.	C1	D	E	E2	F	G	H	H2	J	K	L min.	L max.	M	N	N2
332 - 1	26	33	5	35	65	90	20	16	10	5	25	40	91,5	23	M4	135	165	-	Ø 5	Ø 5
332 - 2	28	33	5	32	62	90	25	14	12	7,5	31	72	134	23	M4	142	172	-	6 x 9	5,5 x 7,5
332 - 3	39,5	42	6	32	67	105	35	22	16	9	39,5	85	178	30	M 6	177	212	-	7,5 x 11,5	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

333-L

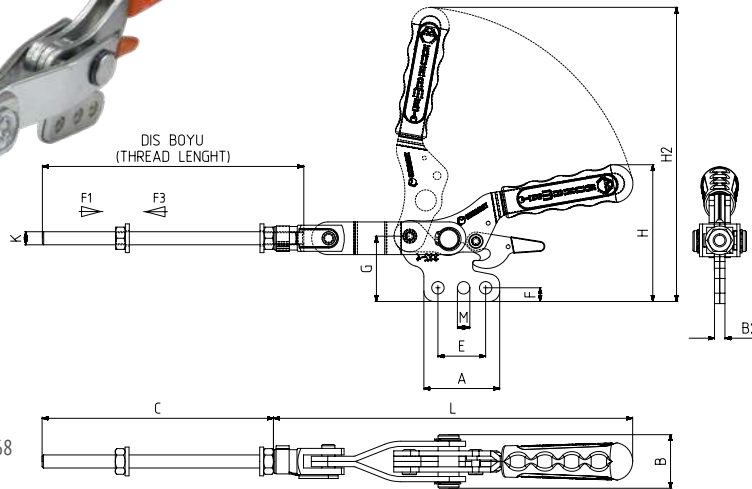


Ayak Tipi: Dikey Tabanlı-Saplamalı
Body Mounting Base: Vertical Special
Extended Clamping Arm



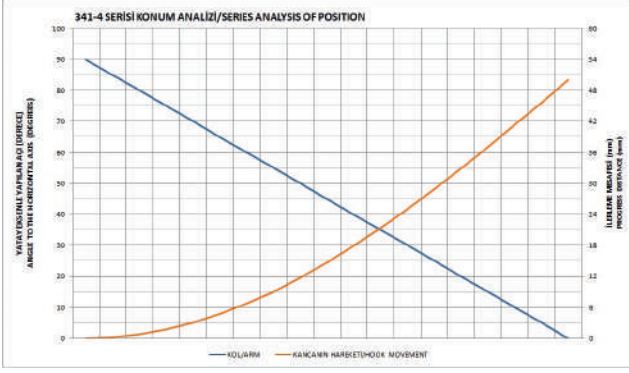
MODEL NO	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (thread lenght)	AĞIRLIK (WEIGHT) (gr ±%)
333-4-L-M10	10000	12000	200	900
333-4-L-M12-C1	15000	17000	250	1045
333-4-L-M12-C2	15000	17000	400	1148
333-5-L-M16	20000	25000	200	1416

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



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

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



MODEL NO	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
341 - 3	10000	12000	95	1035
341 - 4	15000	17000	130	1896
341 - 5	20000	25000	65	2235

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)

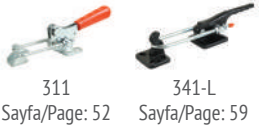
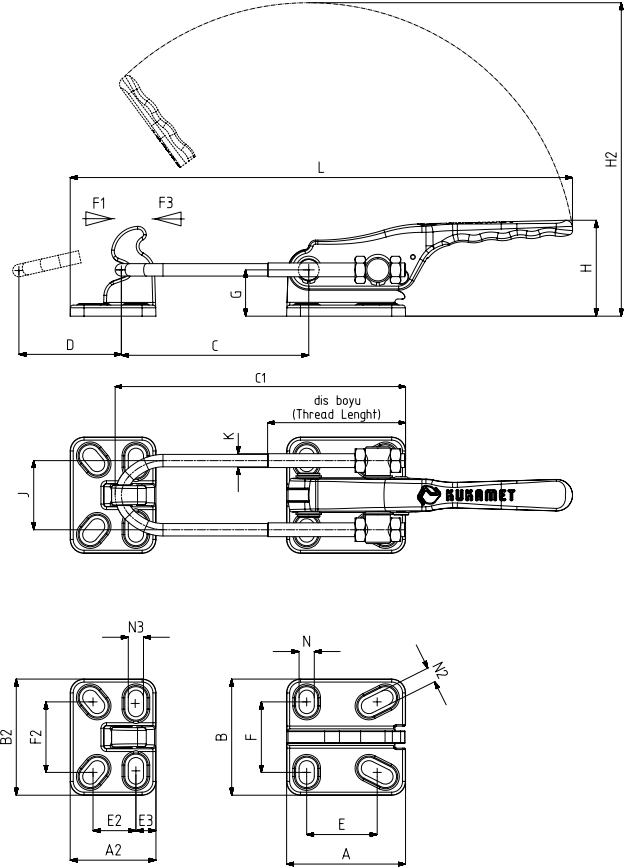


Ayak Tipi: Döküm Gövdeli Body Mounting Base: Casting

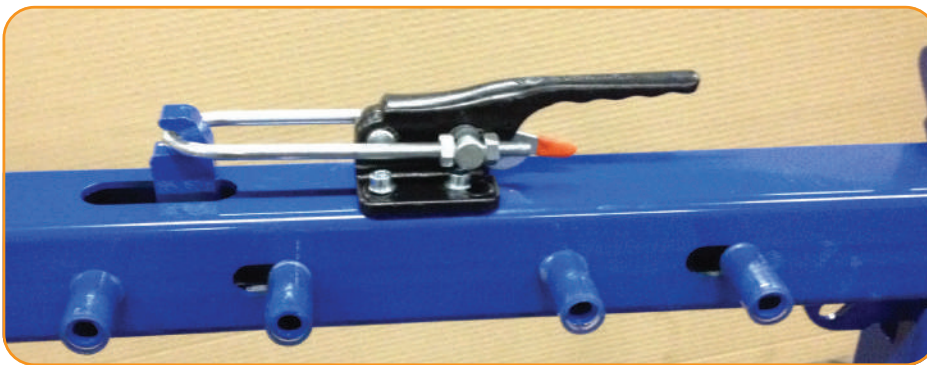


Ürün özellikleri ;
Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Taban, kol ve gerdirmе parçası mukavemetli döküm malzemeden üretilmiş ve siyah elektro statik toz boya ile boyanmıştır.
Kanca ve pimler çelik malzemeden üretilmiştir. Korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;
The products are strong and suited for heavy duty applications.
The base, arm and stretching part are made of strong 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	10 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

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

341-S



Ayak Tipi: Döküm Gövdeli - Sac Kol Body Mounting Base: Casting Body - Sheet Arm

Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir. Taban ve gerdirmе parçası mukavemetli döküm malzemeden üretilmiş ve siyah elektrostatik toz boya ile boyanmıştır. Kol ST52 Sac malzemeden üretilmiş ve karartma yapılmıştır. Kanca ve pimler çelik malzemeden üretilmiştir. Korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

They are durable products suitable for using in heavy-duty applications. The base and tensioning part are made of durable casting material and painted with black electrostatic powder paint. The handle is made of ST52 Sheet material and blackened is applied. Hooks and pins are made of steel material. Galvanized coating is applied against to corrosion resistance.



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Sayfa/Page: 52



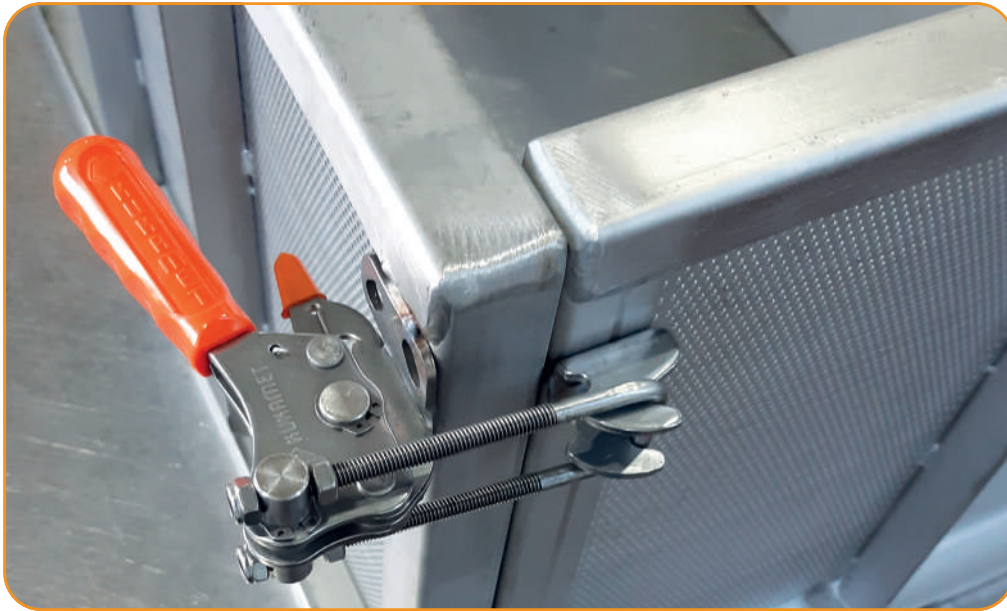
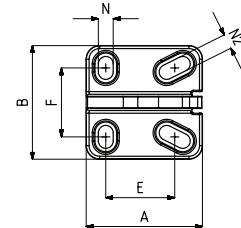
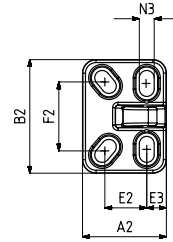
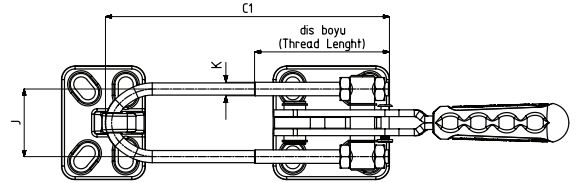
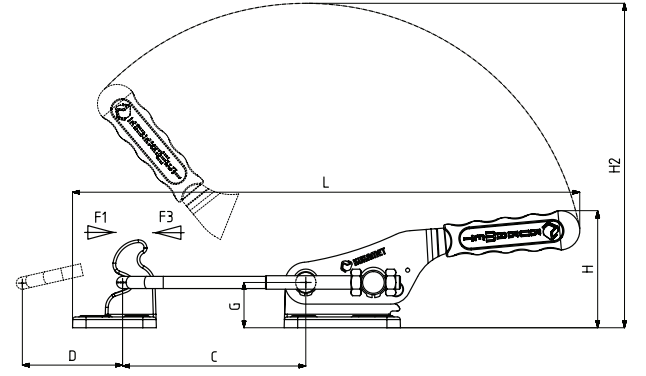
331
Sayfa/Page: 54



341-L
Sayfa/Page: 59

MODEL NO	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
341 - 3 - S	10000	12000	95	970
341 - 4 - S	15000	17000	130	1760
341 - 5 - S	20000	25000	65	1940

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



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 - S	68,5	49,5	67	67	33,5	84,5	145	55	41	24,5	11,5	41	41	27,5	84	207	43	M8	237	289	8,5 x 13,5	8,5 x 19	8,5 x 14,5
341 - 4 - S	86	62	84	84	50	135	210	80	51	30,5	15	51	51	33,5	86,5	240	50	M10	290	375	11 x 17	11 x 24	11 x 19
341 - 5 - S	86	66	84	84	50	70	146	80	51	31,5	20	51	51	33,5	86,5	240	56	M12	295	303,5	11 x 17	11 x 24	11 x 19

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

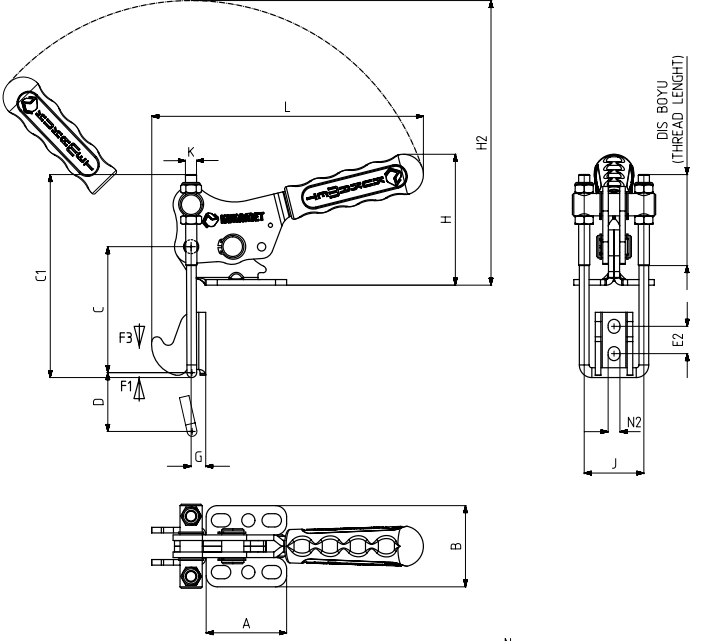


Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

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	130
351 - 2	S 351 -	B 351 -	1500	2000	45	166
351 - 3	S 351 -	B 351 -	2200	3200	75	330
351 - 4	S 351 -	B 351 -	7000	8000	95	810
351 - 5	-	B 351 -	10000	11000	110	950

F1 : ÇEKME KUVVETİ (TENSILE 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)



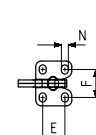
311
Sayfa/Page: 52



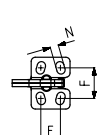
331
Sayfa/Page: 54



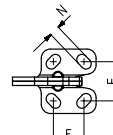
371
Sayfa/Page: 63



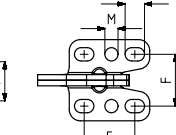
MODEL NO : 351-1



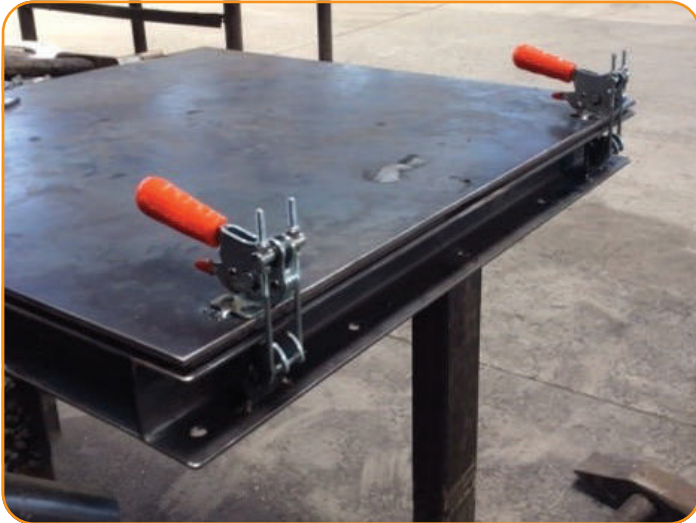
MODEL NO : 351-2



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 52, 53, 54, 56, 57, 58, 63 numaralı sayfalarda mevcuttur.

Note : Technical details of locked models are available at pages 52, 53, 54, 56, 57, 58 and 63



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
311 - 1 - L	S311 - 1 - L	B311 - 1 - L	132
311 - 2 - L	S311 - 2 - L	B311 - 2 - L	173
311 - 3 - L	S311 - 3 - L	B311 - 3 - L	343
311 - 4 - L	S311 - 4 - L	B311 - 4 - L	834
311 - 5 - L	-	B311 - 5 - L	973



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
311 - 2 - Y - L	S311 - 2 - Y - L	B311 - 2 - Y - L	176
311 - 3 - Y - L	S311 - 3 - Y - L	B311 - 3 - Y - L	348



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



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
312 - 1 - L	S312 - 1 - L	B312 - 1 - L	133
312 - 2 - L	S312 - 2 - L	B312 - 2 - L	175
312 - 3 - L	S312 - 3 - L	B312 - 3 - L	341
312 - 4 - L	S312 - 4 - L	B312 - 4 - L	840
312 - 5 - L	-	B312 - 5 - L	978



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: vertical



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
331 - 2 - L	S 331 - 2 - L	B 331 - 2 - L	153
331 - 3 - L	S 331 - 3 - L	B 331 - 3 - L	312
331 - 4 - L	S 331 - 4 - L	B 331 - 4 - L	715
331 - 5 - L	-	B 331 - 5 - L	848



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)
341 - 3 - L	1050
341 - 4 - L	1900
341 - 5 - L	2276



Ayak Tipi: Döküm Gövdeli
Body Mounting Base: Casting



MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)
341-3-S-L	994
341-4-S-L	1800
341-5-S-L	1958



Ayak Tipi: Döküm Gövdeli - Sac Kol
Body Mounting Base: Casting Body - Sheet Arm



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
351 - 1 - L	S351 - 1 - L	B351 - 1 - L	139
351 - 2 - L	S351 - 2 - L	B351 - 2 - L	173
351 - 3 - L	S351 - 3 - L	B351 - 3 - L	344
351 - 4 - L	S351 - 4 - L	B351 - 4 - L	840
351 - 5 - L	-	B351 - 5 - L	970



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)
371 - 4 - L	B371 - 4 - L	818



Ayak Tipi: Yatay Tabanlı-Ters Kollu
Body Mounting Base: Horizontal - Reverse Arm

361-1

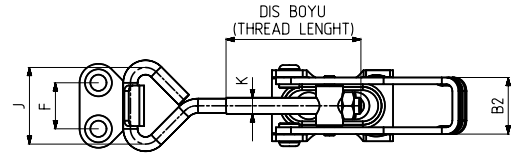
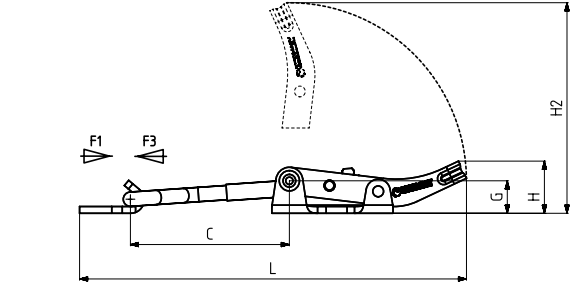


361-2

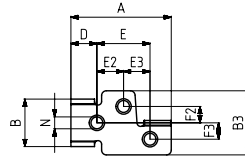


MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread lenght)	AĞIRLIK (WEIGHT) (gr ±%2)
361 - 1	S361 -	1000	1200	23	54
361 - 2	S361 -	1500	1725	50	100
361 - 2 - K	S361 -	1500	1725	50	101
361 - 3	S361 -	2000	2500	40	248
361 - 3 - K	S361 -	2000	2500	40	238

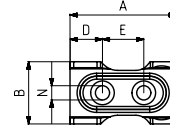
F1 : ÇEKME KUVVETİ (TENSILE FORCE), F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



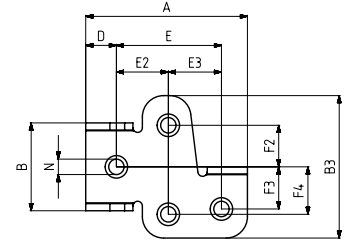
361-2-K



MODEL NO : 361-1

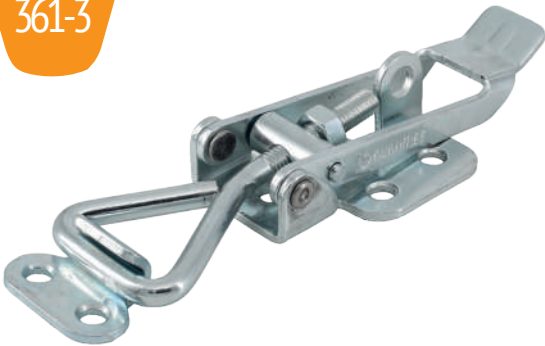


MODEL NO : 361-2 / 361-2-K

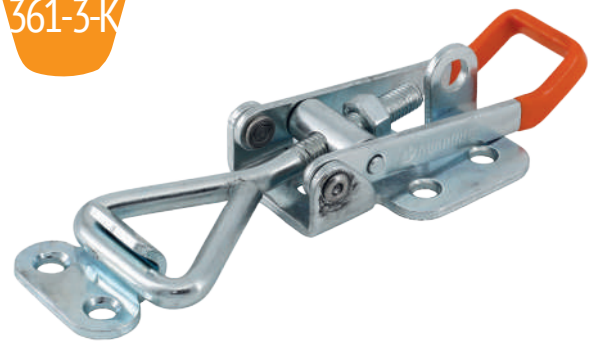


MODEL NO : 361-3 / 361-3-K

361-3



361-3-K



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Sayfa/Page: 52

361-K-T
Sayfa/Page: 61

362
Sayfa/Page: 62

363
Sayfa/Page: 62

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

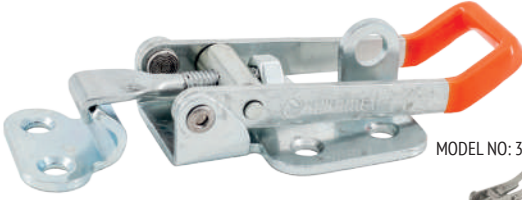
MODEL NO	A	B	B2	B3	C min.	C max.	D	E	E2	E3	F	F2	F3	F4	G	H	H2	J	K	L min.	L max.	N
361 - 1	42,5	20	16,5	27	22	31,5	11	22,5	11,3	11,2	14	6,9	6,9	-	10,5	16,5	57,5	20	M5	83	93,5	Ø 5
361 - 2	45	26	21	-	25	60	13,75	17,5	-	-	17	-	-	-	12	19,5	78	28,5	M6	110	145	Ø 6
361 - 2 - K	45	26	21	-	25	60	13,75	17,5	-	-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



Ayak Tipi: Yatay Tabanlı - Tırnaklı
Body Mounting Base: Horizontal - Clawed Hook



MODEL NO: 361-2-K-T



MODEL NO: 361-3-K-T



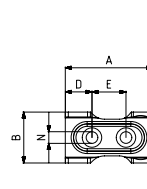
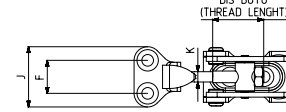
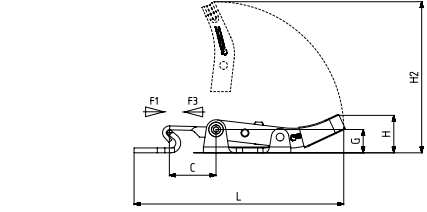
361
Sayfa/Page: 60



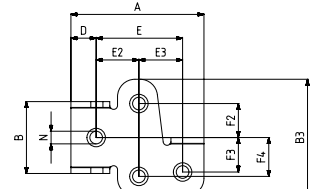
362
Sayfa/Page: 62



363-KL
Sayfa/Page: 63



MODEL NO: 361-2-K-T



MODEL NO: 361-3-K-T

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 - K - 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 - K - 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



Ayak Tipi: Yatay Tabanlı - Tırnaklı
Body Mounting Base: Horizontal - Clawed Hook



MODEL NO: 361-2-T



MODEL NO: 361-3-T



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Sayfa/Page: 54



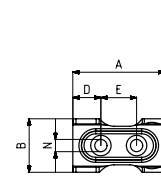
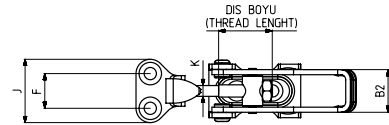
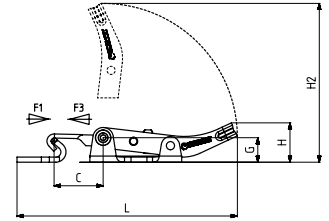
361
Sayfa/Page: 60



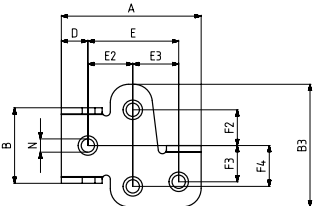
363
Sayfa/Page: 62

MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ± %2)
361 - 2 - T	S361 - ...	1400	1650	25	86
361 - 3 - T	S361 - ...	1600	1800	25	214

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



MODEL NO: 361-2-T



MODEL NO: 361-3-T

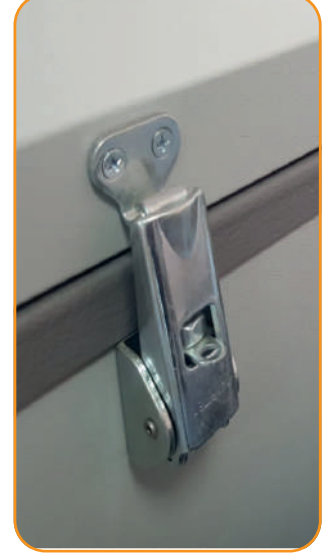
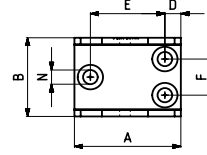
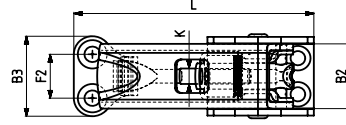
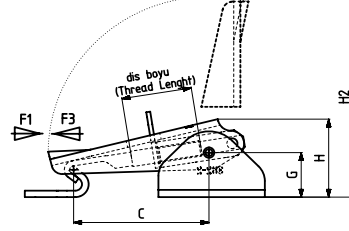
MODEL NO	A	B	B2	B3	C min.	C max.	D	E	E2	E3	F	F2	F3	F4	G	H	H2	J	K	L min.	L max.	N
361 - 2 - T	45	26	21	-	15,5	25,5	13,75	17,5	-	-	17	-	-	-	12	19,5	78	28,5	M6	99	109	Ø 6
361 - 3 - T	68,5	37	31,5	60	20	25	13	44,5	22	22,5	-	17,5	17,75	20	15	22	112	40	M8	143	148	Ø 6

362



MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%2)
362-1	S362 -	1400	1650	25	131
362-2	S362 -	1600	1800	25	160

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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361
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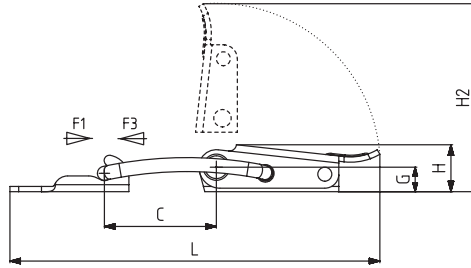
MODEL NO	A	B	B2	B3	C Min	C Max	D	E	F	F2	G	H	H2	K	L Min	L Max	N
362-1	40	29,5	24	31	47	62	6	28	14	17	17	30	78	M6	86	101	Ø 5,5
362-2	40	30,5	25	31	47	62	6	28	14	17	17	30	78	M8	86	101	Ø 5,5

363

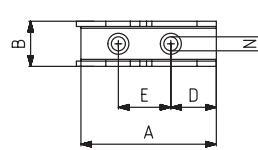
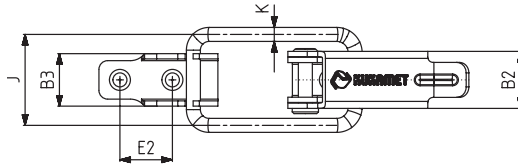


MODEL NO	PASLANMAZ (STAINLESS)	F1 (N)	F3 (N)	AĞIRLIK (WEIGHT) (gr ±%2)
363-2	S363-....	1500	1725	45

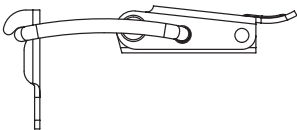
F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



POS 1



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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363-KL
Sayfa/Page: 63

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

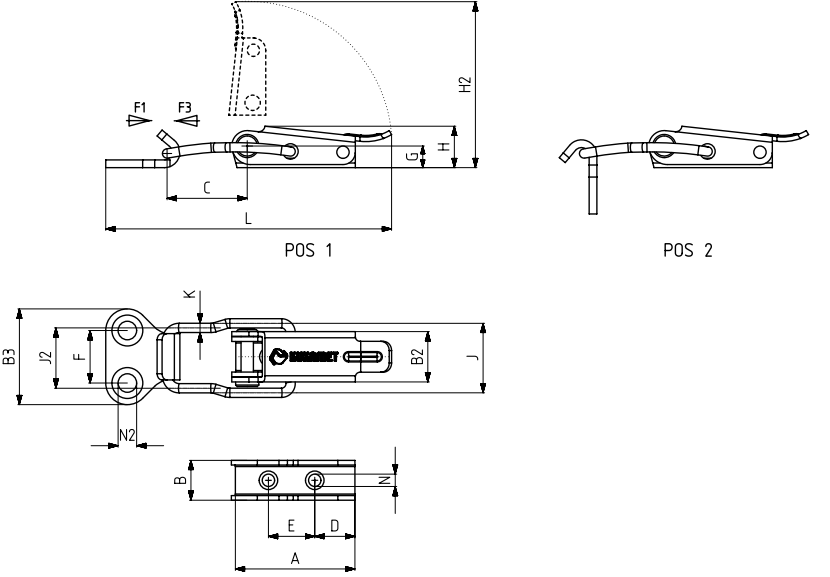
363-KL



new

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

Çinko Nikel Kaplama
Zinc Nickel Plating



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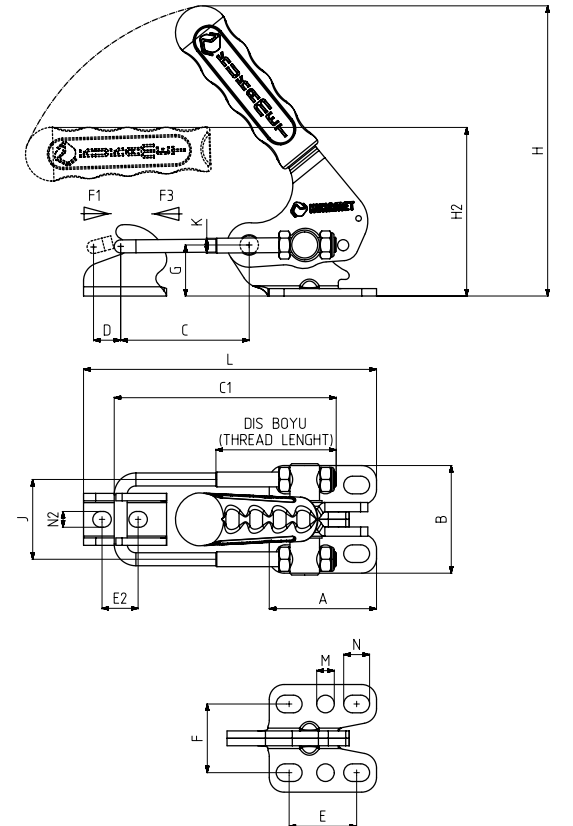
MODEL NO	A	B	B2	B3	C	D	E	F	G	H	H2	J	J2	K	L	N	N2
363 - 2 - KL	38,5	13	16,3	31	26	13	15	17	7	13,5	54	22,5	19,5	3	92,5	Ø 4	Ø 6

371



MODEL NO	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread lenght)	AĞIRLIK (WEIGHT) (gr ± %2)
371 - 4	B 371 -	7000	8000	65	790

F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)



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.

411

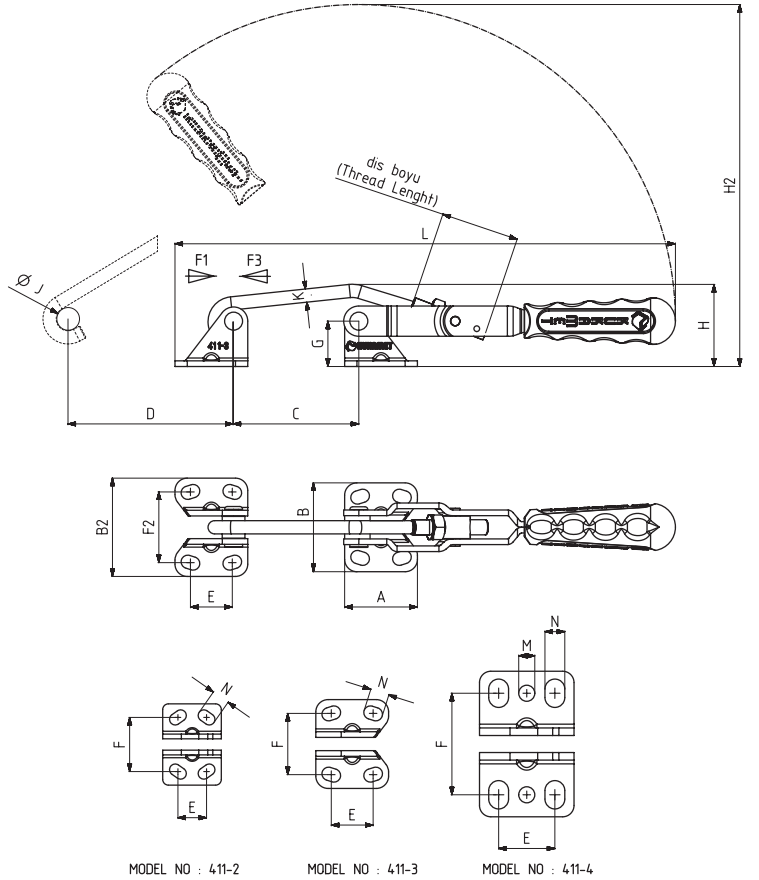
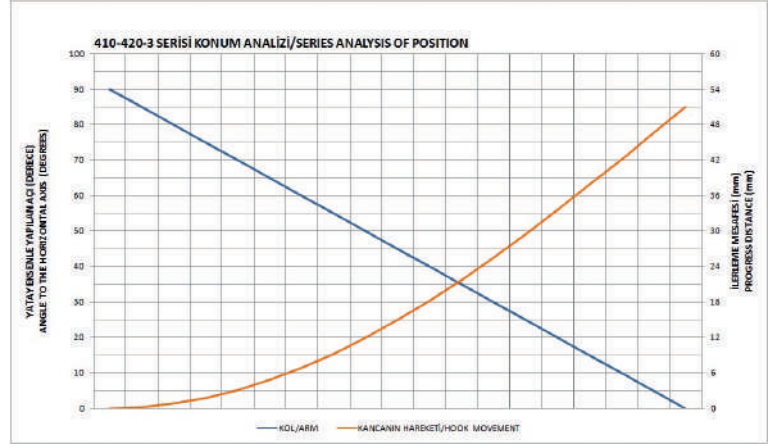


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
411 - 2	S 411 -	B 411 -	1500	1800	50	200
411 - 3	S 411 -	B 411 -	2000	2500	41	325
411 - 4	-	B 411 -	3500	4000	55	860

F1 : ÇEKME KUVVETİ (TENSILE 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



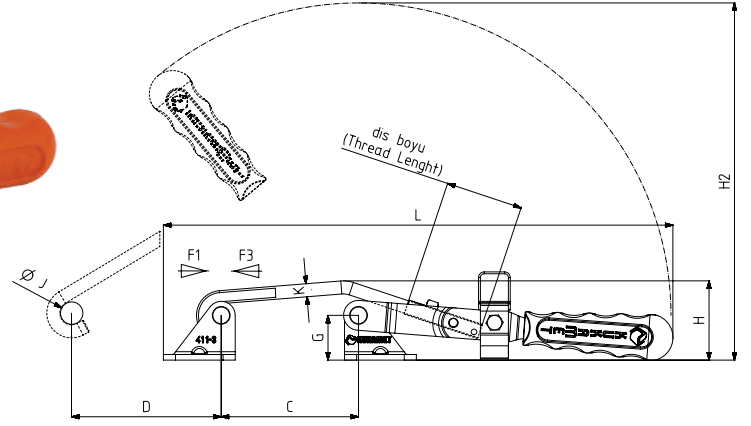
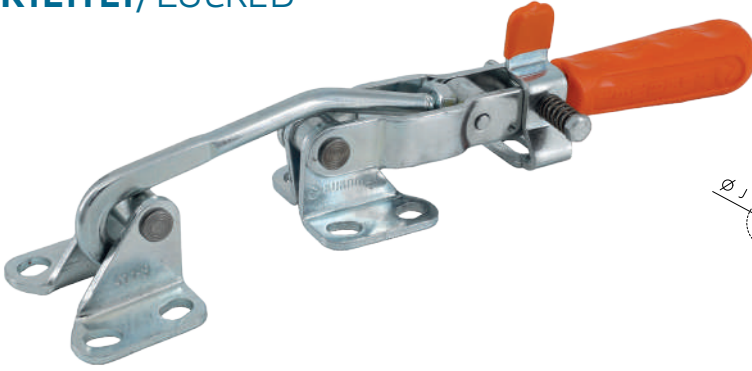
MODEL NO	A	B	B2	C min.	C max.	D	E	F	F2	G	H	H2	J	K	L min.	L max.	M	N
411 - 2	31	43	47	45	68	50	15	28,5	32,5	26	38	155	9	M6	200	220	-	6x9,5
411 - 3	38,5	47	52	60	75	80	22	32,5	37,5	24	42	190	12	M 8	255	270	-	7x10
411 - 4	50	77	84	75	100	130	30	53,5	60,5	40	61	253	16	M10	335	360	Ø 8,5	10,5x15

411-L

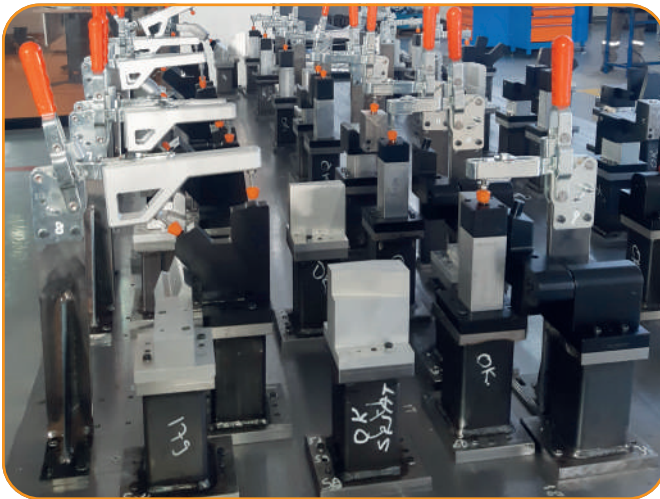
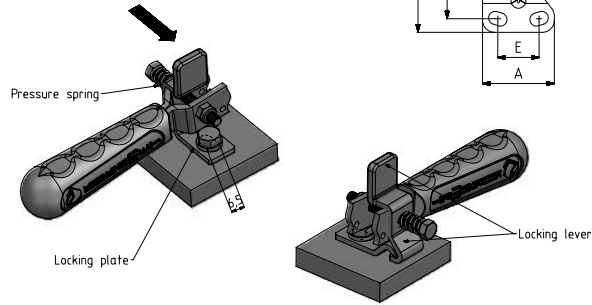


MODEL NO	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
411 - 3 - L	B 411 -	2000	2500	41	360
F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)					

KİLİTLİ/LOCKED

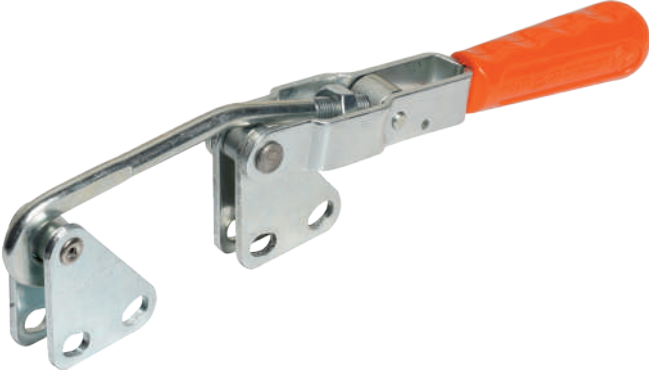


Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal Base



MODEL NO	A	B	B2	C min.	C max.	D	E	E2	F	F2	F3	G	H	H2	J	K	L min.	L max.	N	N2
411 - 3 - L	38,5	47	52	60	75	80	22	50	32,5	37,5	3	24	42	190	12	M8	255	270	7 x 10	6,5 x 12,5

412



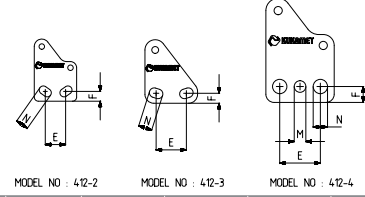
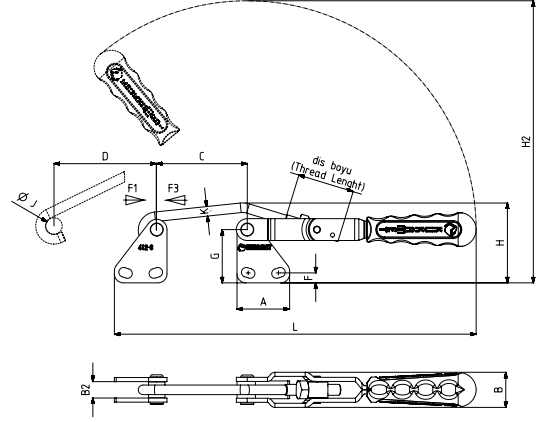
Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical



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

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	205
412 - 3	S 412 -	B 412 -	2000	2500	41	325
412 - 4	-	B 412 -	3500	4000	55	860

F1 : ÇEKME KUVVETİ (TENSILE 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)



413



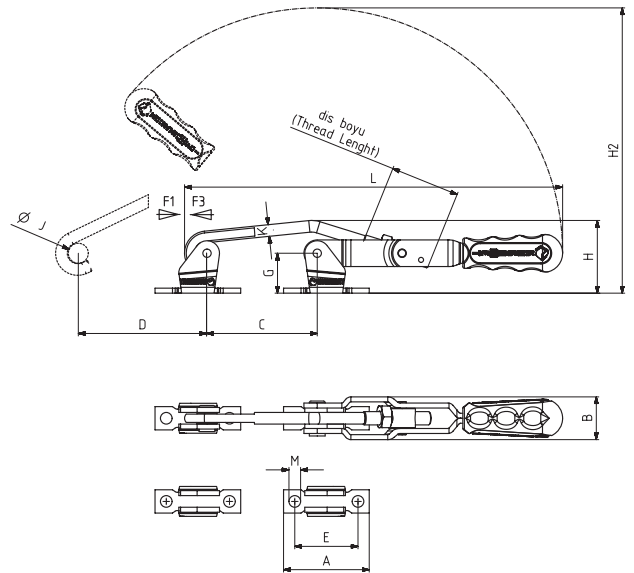
Ayak Tipi: U Tabanlı
Body Mounting Base: U Base



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 ±%)
413 - 3	S 413 -	B 413 -	2000	2500	41	290

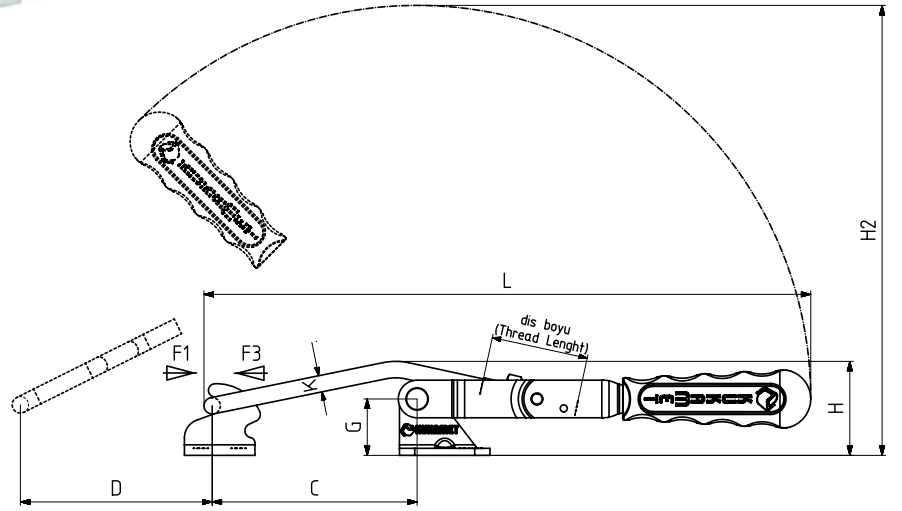
F1 : ÇEKME KUVVETİ (TENSILE FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Paslanmaz C Kancalı ürünlerin çekme kuvvetleri %30 daha azdır. (Stainless stell latch clamp's tensile strength are %30 more less)



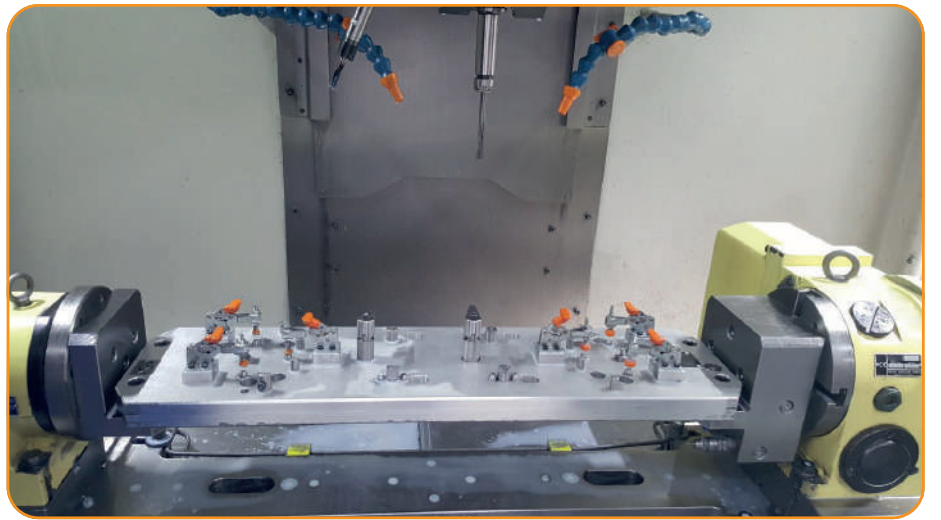
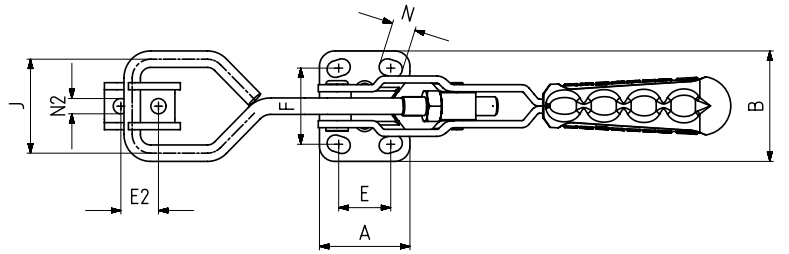


MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	STROK (DİŞ BOYU) (STROKE) (thread length)	AĞIRLIK (WEIGHT) (gr ±%)
421 - 3	S 421 -	B 421 -	2000	2500	41	325

F1 : ÇEKME KUVVETİ (TENSILE 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



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

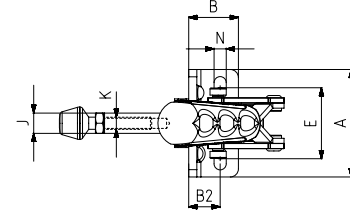
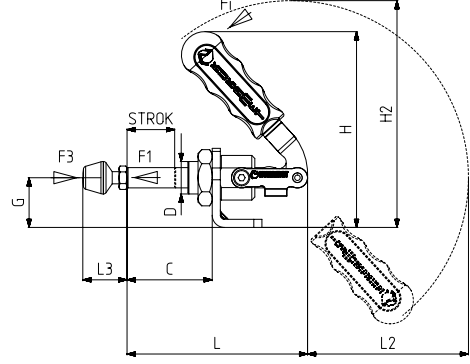
511



MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	Fi VERİM YIELD (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
511-0-M	S 511 -	B 511 -	550	700	20:1	M4X25	23	88
511-0	S 511 -	B 511 -	550	700	20:1	M4X25	23	90
511-1	S 511 -	-	800	970	24:1	M5X35	22	145
511-2	S 511 -	B 511 -	1500	1700	26:1	M6X40	27	267
511-3	-	B 511 -	2500	2640	27:1	M8X50	38	482
511-5	-	B 511 -	3500	3700	38:1	M10X70	53	940
511-6	-	B 511 -	4500	4650	38:1	M12X80	53	1060
511-7	-	B 511 -	4500	5400	38:1	M12X80	51	1170

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

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal



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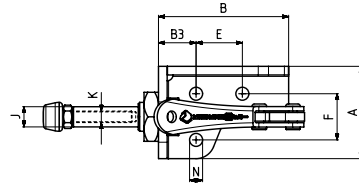
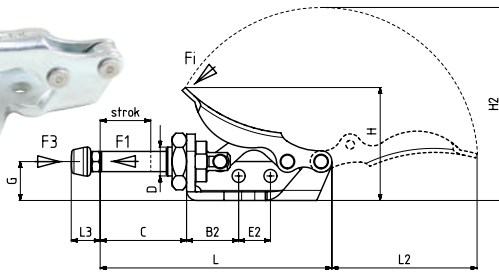
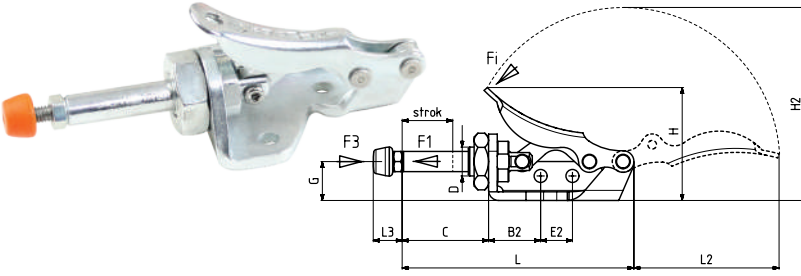


513
Sayfa/Page: 72



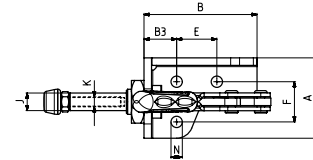
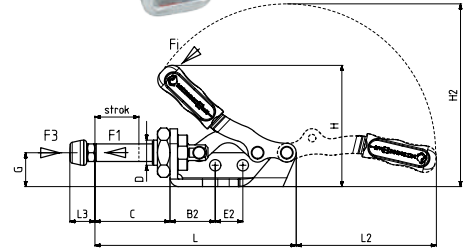
918
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511-0-M



MODEL NO : 511-0-M
(KAPLAMASIZ METAL SAP)
(UNCOATED METAL HANDLE)

511-0



MODEL NO : 511-0

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	Ø7	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	Ø7	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	Ø8	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	Ø10	M6	89	80	19	46	6 x 11
511-3	60	30	17,5	-	56	M20 x 1,5	38	-	-	30,5	137	140	Ø12	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	Ø14	M10	155	135	32	74	8,5 x 16
511-6	78	36	21	-	75	M24 x 1,5	49,5	-	-	38	152	179	Ø16	M12	155	135	32	74	8,5 x 16
511-7	78	36	21	-	75	M27 x 1,5	49,5	-	-	38	152	179	Ø20	M12	155	135	32	74	8,5 x 16

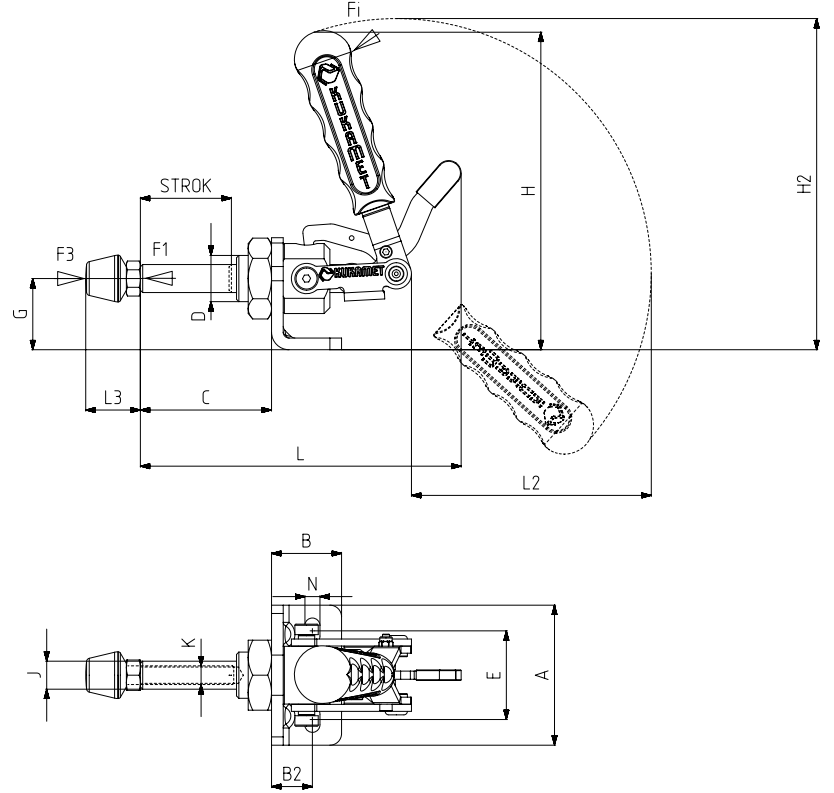
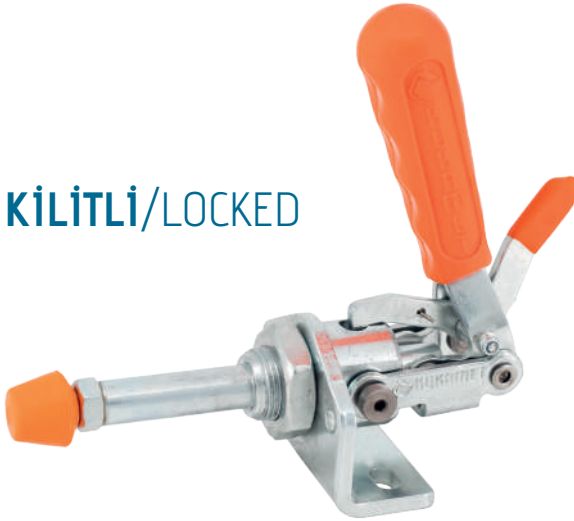


MODEL NO	SİYAH (BLACK)	F1 (N)	F3 (N)	Fi VERİM YIELD (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
511 - 3 - L	B 511 -	2500	2640	27:1	M8X50	38	506
511 - 5 - L	B 511 -	3500	3700	38:1	M10X70	53	1000
511 - 6 - L	B 511 -	4500	4650	38:1	M12X80	53	1125

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

Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal Base

KİLİTLİ/LOCKED



- 511 Sayfa/Page: 68 511-Y Sayfa/Page: 70 513 Sayfa/Page: 72 918 Sayfa/Page: 141



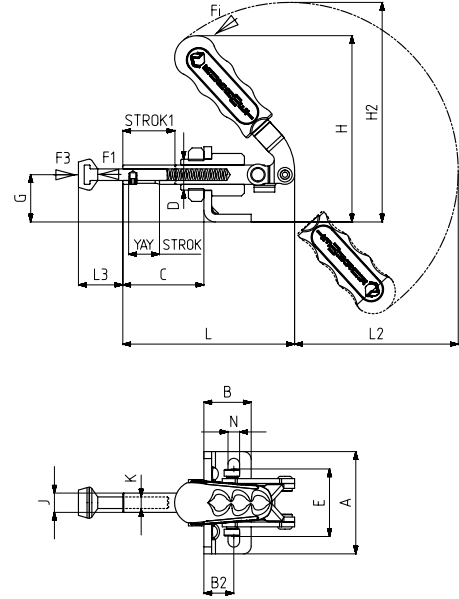
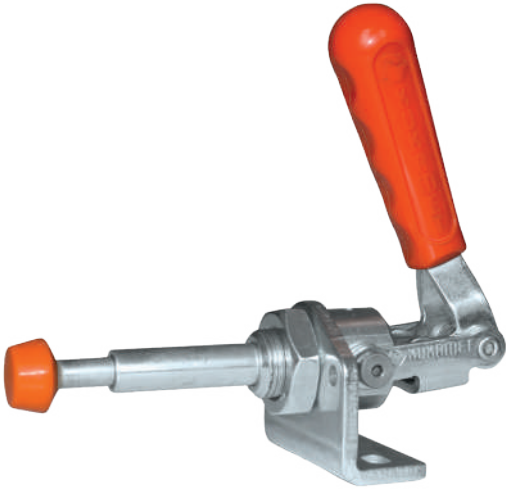
MODEL NO	A	B	B2	C	D	E	G	H	H2	J	K	L	L2	L3 min.	L3 max.	N
511 - 3 - L	60	30	17,5	56	M20 x 1,5	38	30,5	137	140	Ø12	M8	139	80	24	58	6,5 x 11
511 - 5 - L	78	36	21	75	M24 x 1,5	49,5	38	152	179	Ø14	M10	172,5	135	32	74	8,5 x 16
511 - 6 - L	78	36	21	75	M24 x 1,5	49,5	38	152	179	Ø16	M12	172,5	135	32	74	8,5 x 16



MODEL NO	F1 (N)	F3 (N)	Fi VERİM YIELD (F1:Fi)	YAY STROK SPRING STROKE	STROK 1	AĞIRLIK (WEIGHT) (gr ±%2)
511 - 1 - Y	230	280	24:1	10	22	143
511 - 2 - Y	550	620	26:1	12	27	260
511 - 3 - Y	1100	1160	27:1	14	38	475
511 - 5 - Y	1850	1950	38:1	16	53	930
511 - 6 - Y	2200	2270	38:1	16	53	1040
511 - 7 - Y	2550	2650	38:1	20	51	1180

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

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



511
Sayfa/Page: 68



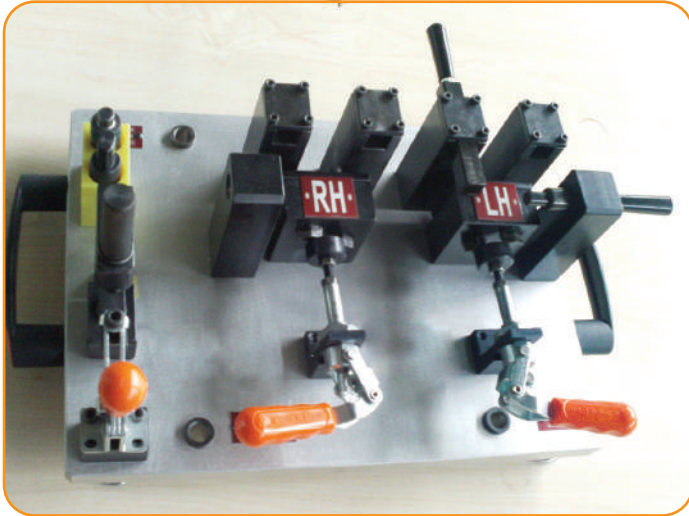
512
Sayfa/Page: 71



513
Sayfa/Page: 72



918
Sayfa/Page: 141



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	Ø8	Ø5	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	Ø10	Ø6	89	80	11	23	6 x 11
511 - 3 - Y	60	30	17,5	56	M20 x 1,5	38	30,5	137	140	Ø12	Ø8	116	80	13	27	6,5 x 11
511 - 5 - Y	78	36	21	75	M24 x 1,5	49,5	38	152	179	Ø14	Ø10	155	135	17	33	8,5 x 16
511 - 6 - Y	78	36	21	75	M24 x 1,5	49,5	38	152	179	Ø16	Ø10	155	135	17	33	8,5 x 16
511 - 7 - Y	78	36	21	75	M27 x 1,5	49,5	38	152	179	Ø20	Ø12	155	135	17	33	8,5 x 16

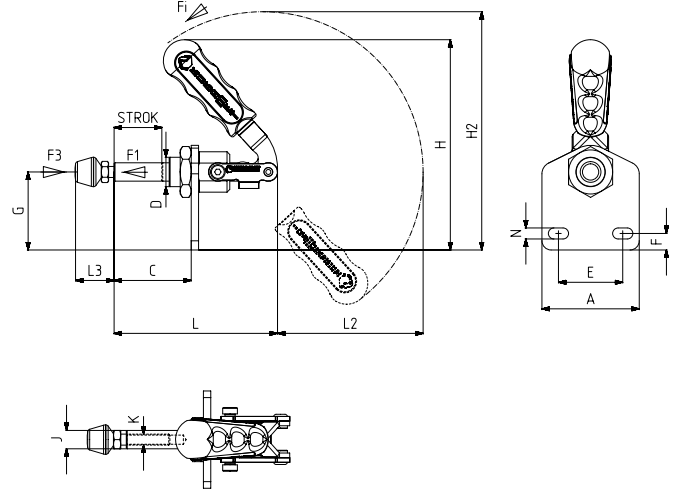
512



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical

MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
512 - 1	S 512 -	-	800	970	24:1	M5X35	22	145
512 - 2	S 512 -	B 512 -	1500	1700	26:1	M6X40	27	266
512 - 3	-	B 512 -	2500	2640	27:1	M8X50	38	480
512 - 5	-	B 512 -	3500	3700	38:1	M10X70	53	960
512 - 6	-	B 512 -	4500	4650	38:1	M12X80	53	1070
512 - 7	-	B 512 -	4500	5400	38:1	M12X80	51	1178

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



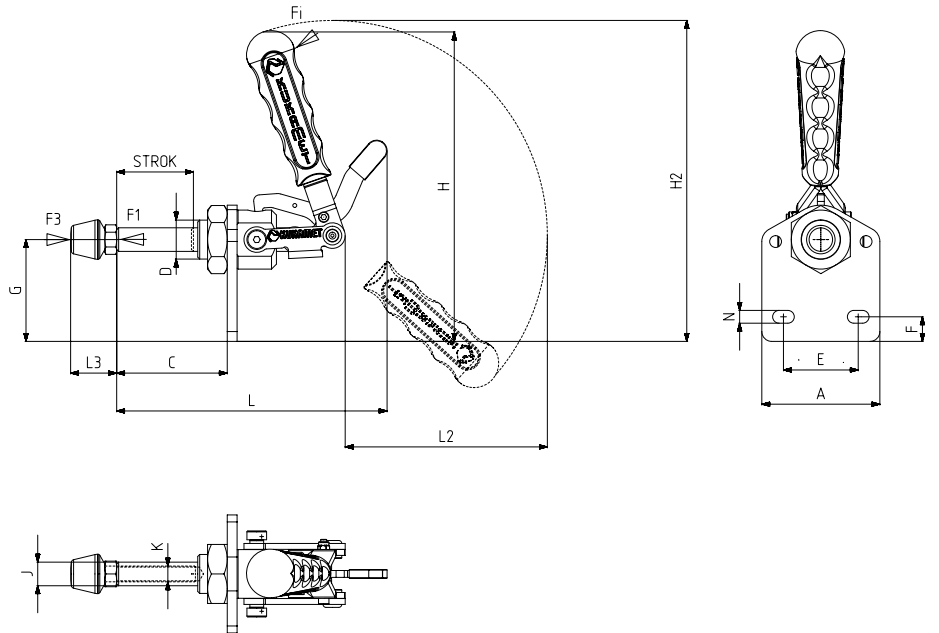
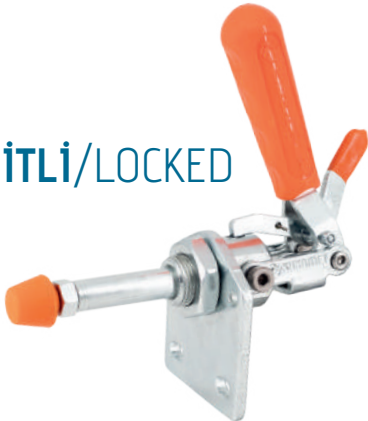
MODEL NO	A	C	D	E	F	G	H	H2	J	K	L	L2	L3 min.	L3 max.	N
512 - 1	44	34	M12 x 1,5	26,5	8,5	35	95	108	Ø8	M5	73	68,5	15	38	5,5 x 10,5
512 - 2	53	42	M16 x 1,5	35	9	42,5	114	129	Ø10	M6	89	80	19	46	6 x 11
512 - 3	60	56	M20 x 1,5	38	12,5	52	158	161	Ø12	M8	116	80	24	58	6,5 x 11
512 - 5	78	75	M24 x 1,5	49,5	15	64,5	178	206	Ø14	M10	155	135	32	74	8,5 x 16
512 - 6	78	75	M24 x 1,5	49,5	15	64,5	178	206	Ø16	M12	155	135	32	74	8,5 x 16
512 - 7	78	75	M27 x 1,5	49,5	15	64,5	178	206	Ø20	M12	155	135	32	74	8,5 x 16

512-L



Ayak Tipi: Dikey Tabanlı
Body Mounting Base: Vertical Base

KİLİTLİ/LOCKED



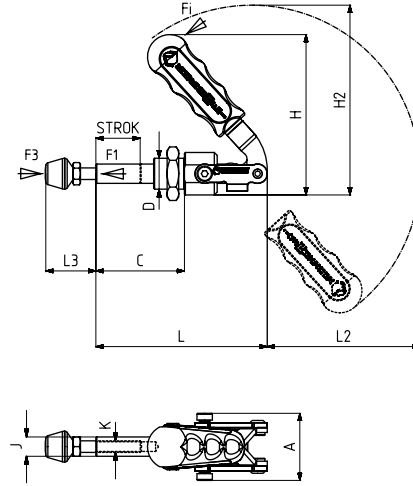
MODEL NO	A	C	D	E	F	G	H	H2	J	K	L	L2	L3 min.	L3 max.	N
512 - 3 - L	60	56	M20 x 1,5	38	12,5	52	158	161	Ø12	M8	139	80	24	58	6,5 x 11
512 - 5 - L	78	75	M24 x 1,5	49,5	15	64,5	178	206	Ø14	M10	172,5	135	32	74	8,5 x 16
512 - 6 - L	78	75	M24 x 1,5	49,5	15	64,5	178	206	Ø16	M12	172,5	135	32	74	8,5 x 16



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 -	-	800	1500	24:1	M5 x 35	22	100
513 - 2	S 513 -	B 513 -	1500	3500	26:1	M6 x 40	27	195
513 - 3	-	B 513 -	2500	5500	27:1	M8 x 50	38	355
513 - 5	-	B 513 -	3500	7500	38:1	M10 x 70	53	710
513 - 6	-	B 513 -	4500	8500	38:1	M12 x 80	53	810
513 - 7	-	B 513 -	4500	8500	38:1	M12 x 80	51	941

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

Ayak Tipi: Tabansız
Body Mounting Base: No Base

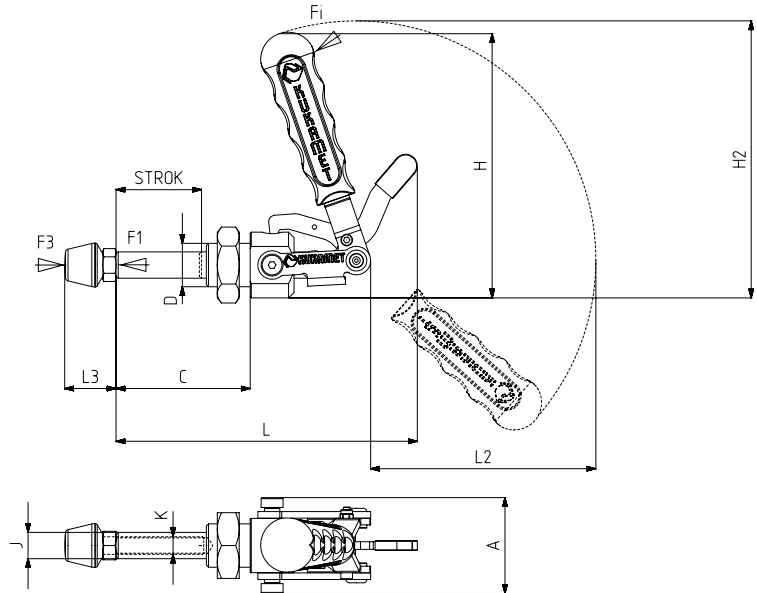


MODEL NO	A	C	D	H	H2	J	K	L	L2	L3 min.	L3 max.
513 - 1	32	37	M12 x 1,5	69	82	Ø8	M5	73	68,5	15	38
513 - 2	35	46	M16 x 1,5	81,5	97	Ø10	M6	89	80	19	46
513 - 3	43	61	M20 x 1,5	122	118	Ø12	M8	116	96	24	58
513 - 5	50	81	M24 x 1,5	131	159	Ø14	M10	155	135	32	74
513 - 6	52	81	M24 x 1,5	131	159	Ø16	M12	155	135	32	74
513 - 7	55	81	M27 x 1,5	131	159	Ø20	M12	155	135	32	74



Ayak Tipi: Tabansız
Body Mounting Base: No Base

KİLİTLİ/LOCKED

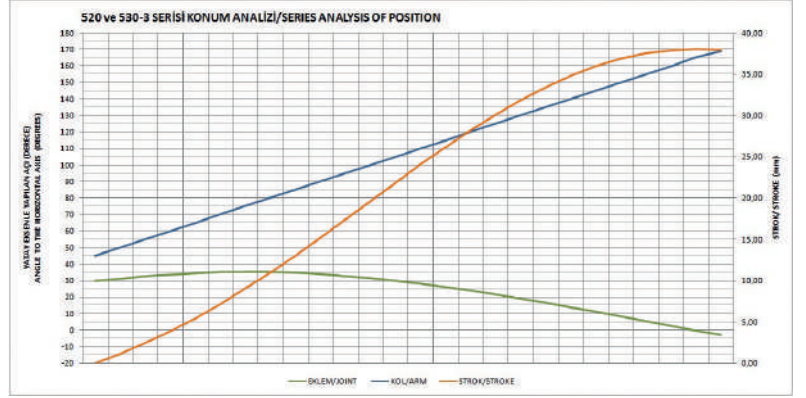


MODEL NO	A	C	D	H	H2	J	K	L	L2	L3 min.	L3 max.
513 - 3 - L	43	61	M20 x 1,5	122	118	Ø12	M8	139	96	24	58
513 - 5 - L	50	81	M24 x 1,5	131	159	Ø14	M10	172,5	135	32	74
513 - 6 - L	52	81	M24 x 1,5	131	159	Ø16	M12	172,5	135	32	74

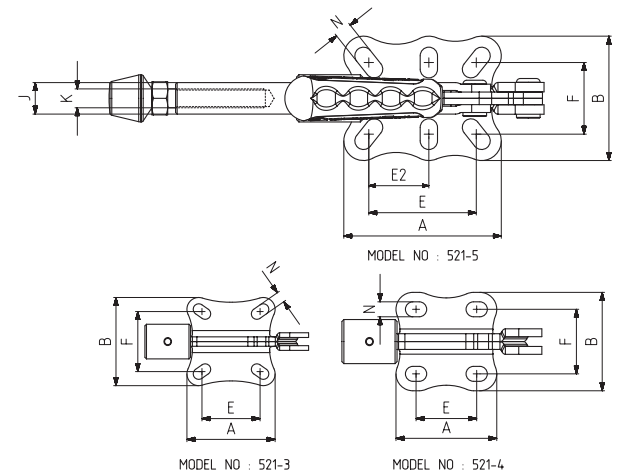
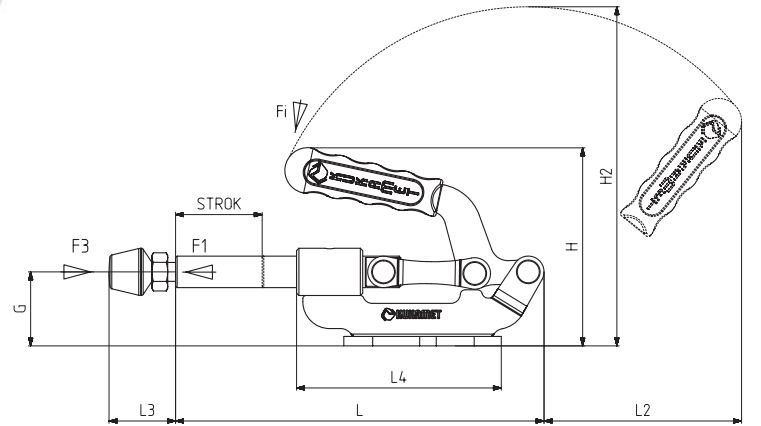
MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
521 - 3 (Ø 12)	2500	2960	16:1	M8X50	38	381
521 - 3 (Ø 14)	2500	3200	16:1	M8X50	38	400
521 - 4 (Ø 16)	4500	6650	23:1	M10X70	47	800
521 - 4 (Ø 18)	4500	7200	23:1	M10X70	47	820
521 - 5 (Ø 20)	7500	15000	30:1	M12X80	55	1432

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

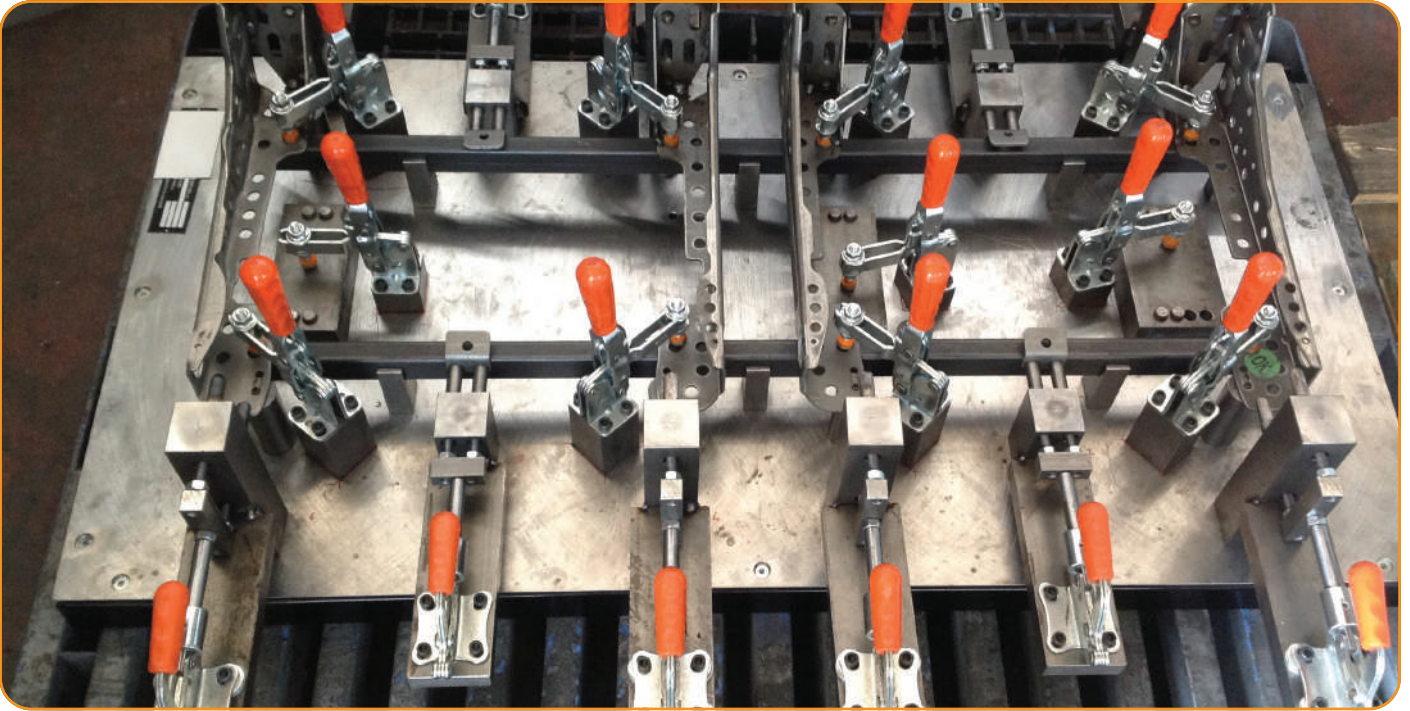
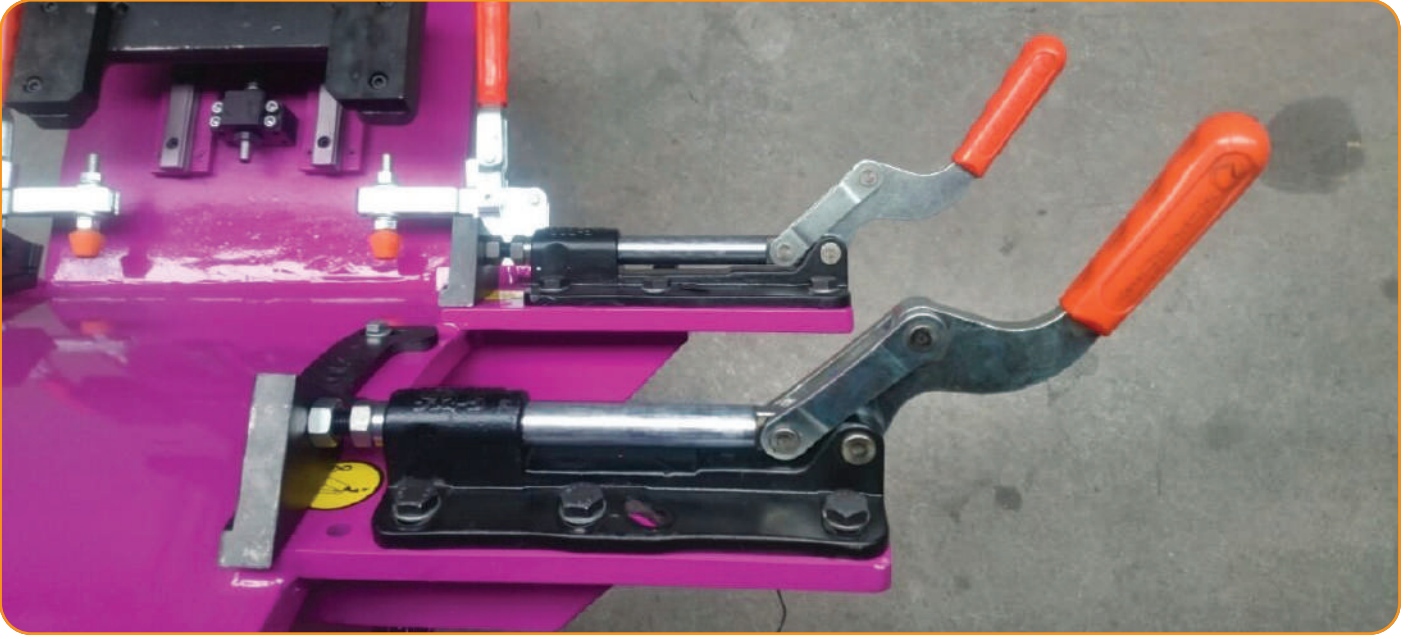
521



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



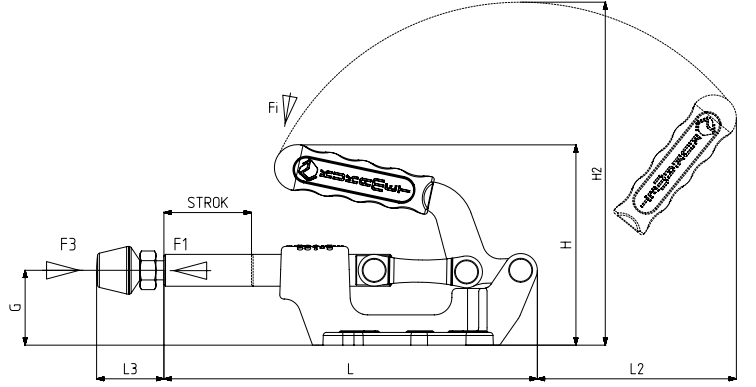
MODEL NO	A	B	E	E2	F	G	H	H2	J	K	L	L2	L3 Min	L3 Max	L4	N
521 - 3 (Ø 12)	56	56	37	-	38	32	88	142	Ø12	M8	154	85	24	58	83	7 x 12
521 - 3 (Ø 14)	56	56	37	-	38	32	88	142	Ø14	M8	154	85	24	58	83	7 x 12
521 - 4 (Ø 16)	64	62	38,5	-	41	40	107	179	Ø16	M10	186	105	32	81	98	9,5 x 13,5
521 - 4 (Ø 18)	64	62	38,5	-	41	40	107	179	Ø18	M10	186	105	32	81	98	9,5 x 13,5
521 - 5 (Ø 20)	100	79	68	38	45,5	47	125	216	Ø20	M12	234	125	39	94	130	11 x 22





MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±½)
			VERİM (YIELD) (F1:Fİ)			
531 - 3 (Ø 12)	2500	3700	16:1	M8X50	38	624
531 - 3 (Ø 14)	2500	4000	16:1	M8X50	38	642
531 - 4 (Ø 16)	4500	8100	23:1	M10X70	47	1250
531 - 4 (Ø 18)	4500	8800	23:1	M10X70	47	1140
531 - 5 (Ø 20)	7500	18450	30:1	M12X80	55	1850

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 döküm malzemeden üretilmiş ve siyah elektro statik toz boya ile boyanmıştır.

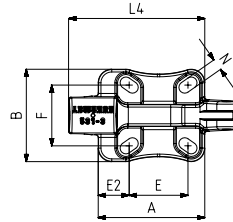
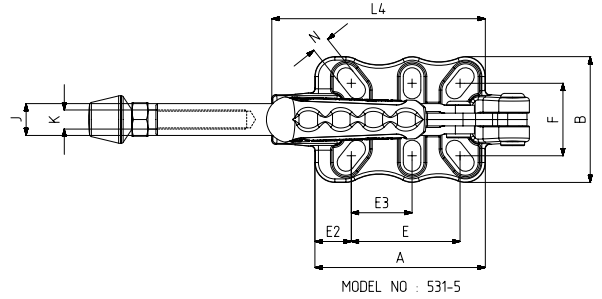
Mil, yüksek aşınma direnci ve korozyon direnci için sert krom kaplı malzemeden üretilmiştir.
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

Product Features ;

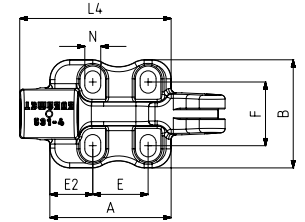
The products are strong and suited for heavy duty applications.

The body is made of strong 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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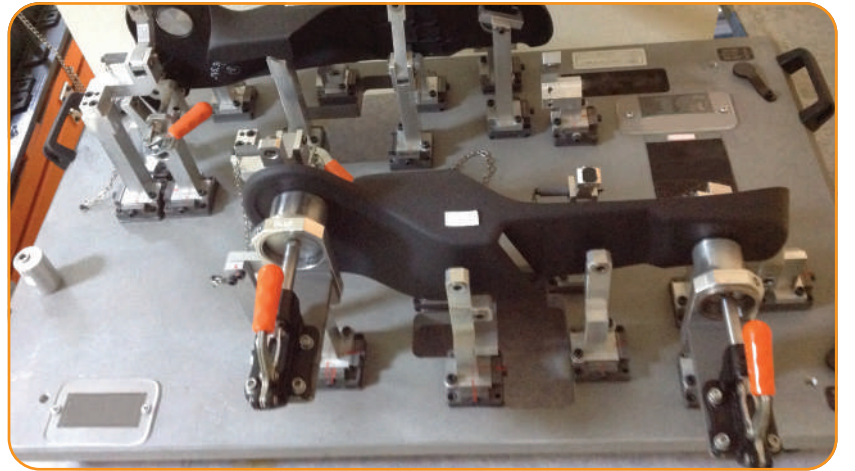
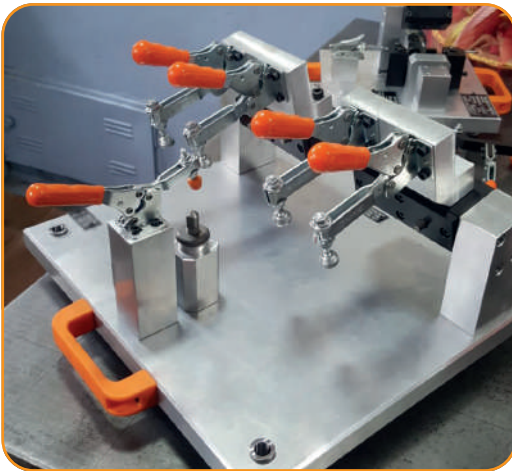
532

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Sayfa/Page: 78



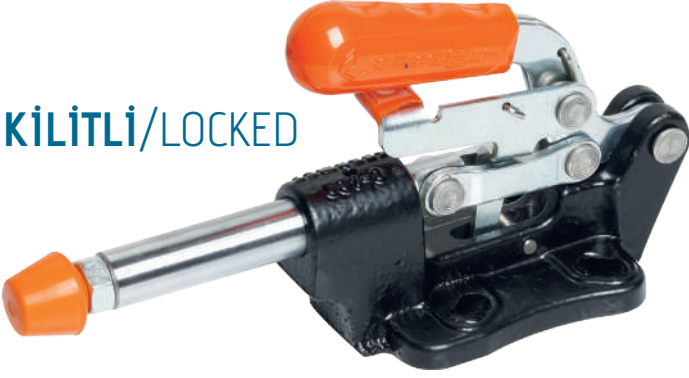
MODEL NO	A	B	E	E2	E3	F	G	H	H2	J	K	L	L2	L3 Min	L3 Max	L4	N
531 - 3 (Ø 12)	67	58	37	19,5	-	38	32	88	142	Ø12	M8	155	85	24	58	85,5	7 x 12
531 - 3 (Ø 14)	67	58	37	19,5	-	38	32	88	142	Ø14	M8	155	85	24	58	85,5	7 x 12
531 - 4 (Ø 16)	76	68	34,5	27	-	40	39	107	179	Ø16	M10	187	105	32	81	95	10 x 14
531 - 4 (Ø 18)	76	68	34,5	27	-	40	39	107	179	Ø18	M10	187	105	32	81	95	10 x 14
531 - 5 (Ø 20)	107	79	68	23	38	45,5	47	125	216	Ø20	M12	235	125	39	94	134	11 x 22

531-L

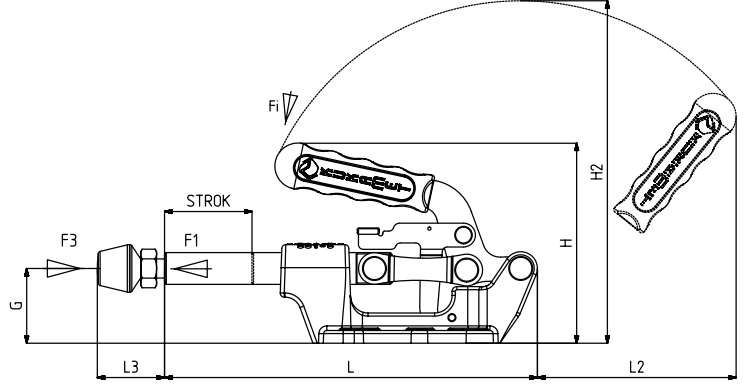


MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
			VERİM (YIELD) (F1:Fi)			
531 - 3 - L - Ø12	2500	3700	16:1	M8X50	38	660
531 - 3 - L - Ø14	2500	4000	16:1	M8X50	38	670
531 - 4 - L - Ø16	4500	8100	23:1	M10X70	47	1175
531 - 4 - L - Ø18	4500	8800	23:1	M10X70	47	1175
531 - 5 - L - Ø20	7500	18450	30:1	M12X80	55	1900

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



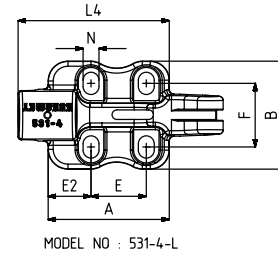
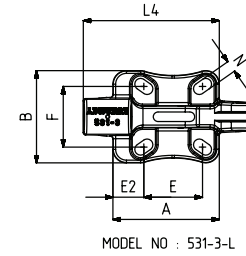
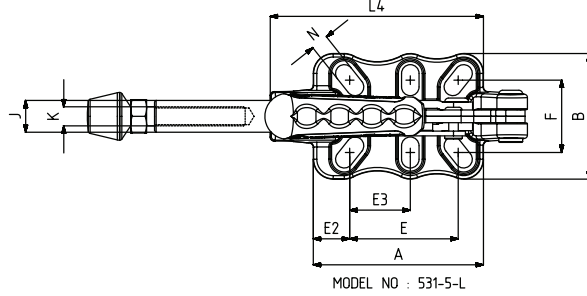
KİLİTLİ/LOCKED



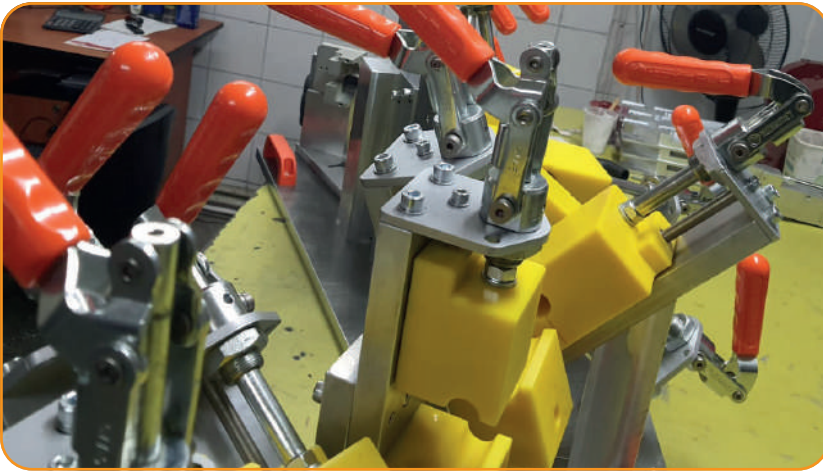
Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli
Body Mounting Base: Horizontal Base, Casting Body

Ürün özellikleri ;
Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde mukavemetli 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 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	F	G	H	H2	J	K	L	L2	L3 min.	L3 max.	L4	N
531 - 3 - L - Ø12	67	58	37	19,5	-	38	32	88	142	Ø12	M8	155	85	24	58	85,5	7 x 12
531 - 3 - L - Ø14	67	58	37	19,5	-	38	32	88	142	Ø14	M8	155	85	24	58	85,5	7 x 12
531 - 4 - L - Ø16	76	68	34,5	27	-	40	39	107	179	Ø16	M10	187	105	32	81	95	10 x 14
531 - 4 - L - Ø18	76	68	34,5	27	-	40	39	107	179	Ø18	M10	187	105	32	81	95	10 x 14
531 - 5 - L - Ø20	107	79	68	23	38	45,5	47	125	216	Ø20	M12	235	125	39	94	134	11 x 22



MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
			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	600
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 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 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.



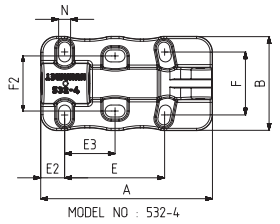
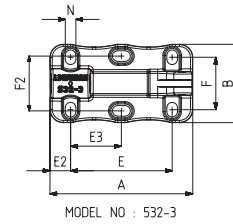
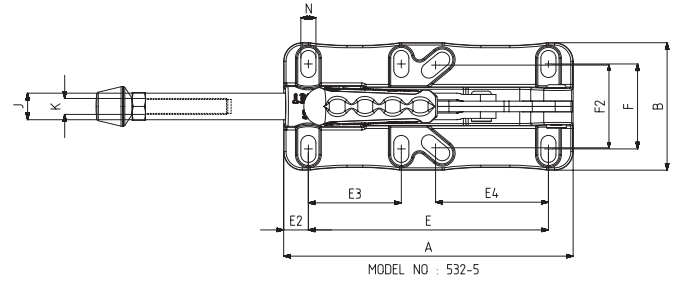
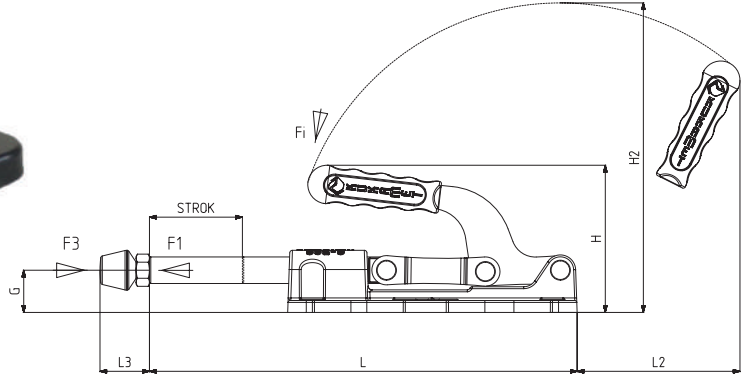
521
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531
Sayfa/Page: 75



536
Sayfa/Page: 82



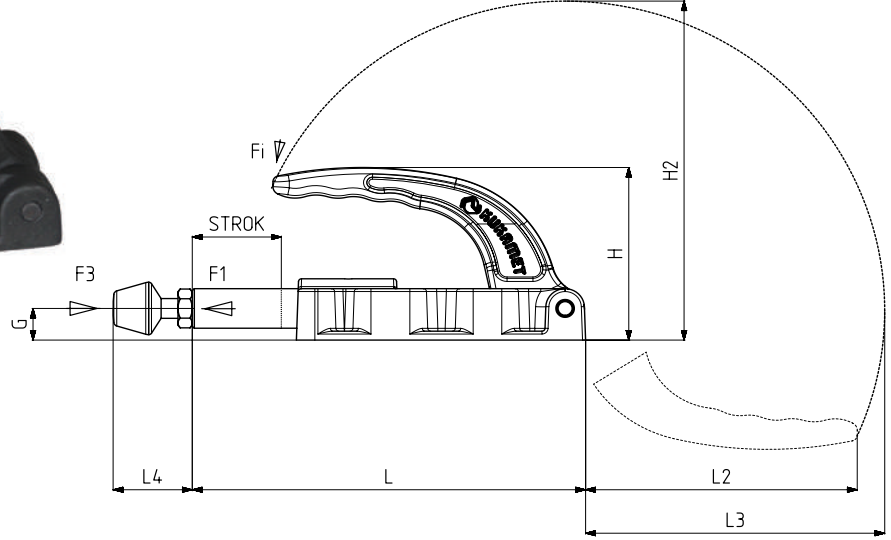
MODEL NO	A	B	E	E2	E3	E4	F	F2	G	H	H2	J	K	L	L2	L3 Min	L3 Max	N
532 - 3 (Ø 12)	107	59	76,5	15,5	38	-	39,5	41	17,5	73	127	Ø12	M8	156	81	24	58	8x11
532 - 3 (Ø 14)	107	59	76,5	15,5	38	-	39,5	41	17,5	73	127	Ø14	M8	156	81	24	58	8x11
532 - 4 (Ø 16)	130	71	75,5	18	38	-	47,5	41,5	20,5	86	159	Ø16	M10	188	94	32	81	9x15
532 - 4 (Ø 18)	130	71	75,5	18	38	-	47,5	41,5	20,5	86	159	Ø18	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	Ø20	M12	322	122	39	94	11x20

533

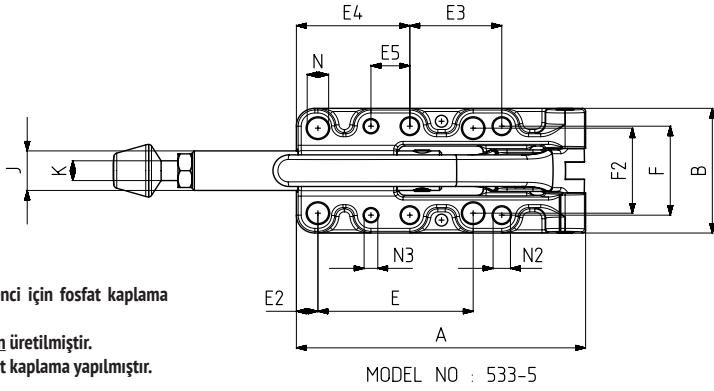


MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
533 - 4 (Ø 14)	7000	11000	16:1	M8 x 50	38	840
533 - 5 (Ø 20)	12000	29000	30:1	M10 x 70	50	1590

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 döküm malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

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

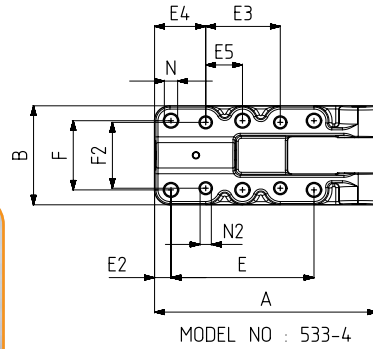
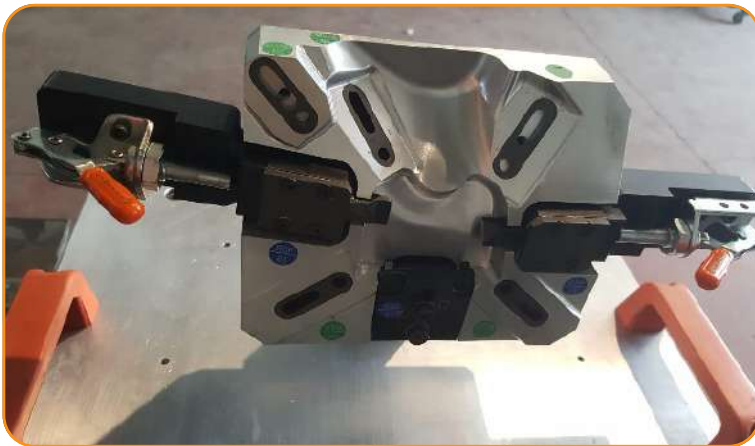
Mekanizma parçaları çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Product Features;

The products are strong and suited for heavy duty applications.

The body and arm are made of strong 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.



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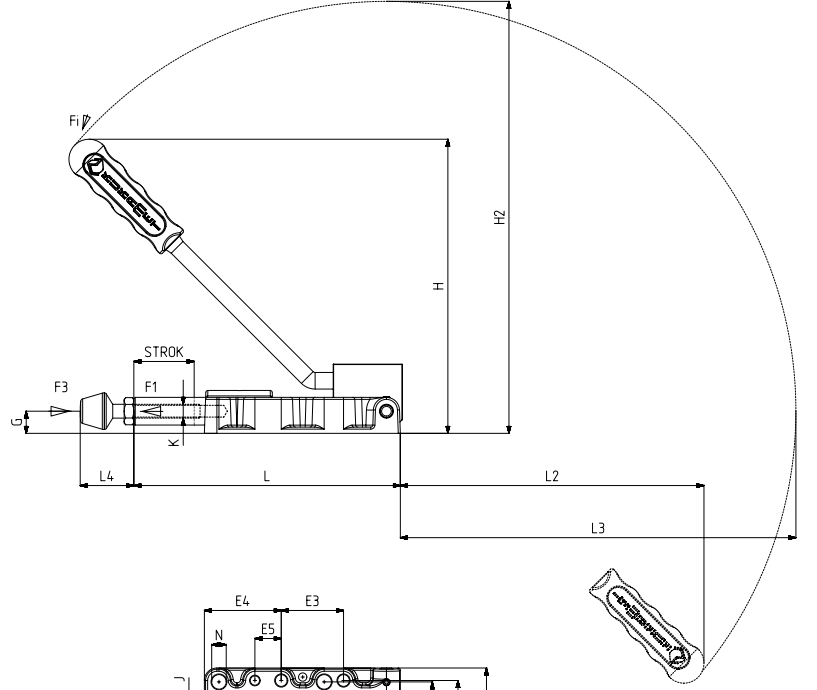
MODEL NO	A	B	E	E2	E3	E4	E5	F	F2	G	H	H2	J	K	L	L2	L3	L4 Min	L4 Max	N	N2	N3
533 - 4 (Ø 14)	109	50	70	8	36,5	25	18	35	33,5	12	73	133	Ø14	M8	148	98	112	23	58	Ø 6,5	Ø 5,5	
533 - 5 (Ø 20)	142	63	76	10,5	45	55,5	19	45	43	16	87	173	Ø20	M12	192,5	133	147	29	79	Ø 10,5	Ø 8,5	Ø 6,7

533-H



MODEL NO	F1 (N)	F3 (N)	Fi VERİM (YIELD) (F1:Fi)	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%)
533 - 4 - H - Ø14	7000	11000	16:1	M8 x 50	38	940
533 - 5 - H - Ø20	12000	29000	30:1	M10 x 70	50	1800

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 döküm malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.

Kol otomat malzemeden üretilmiştir.

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;

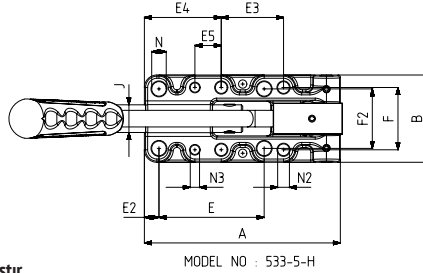
They are durable products suitable for heavy-duty applications.

The body is made of durable casting material and has a phosphate coating against to corrosion resistance.

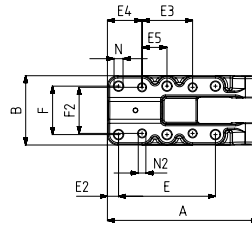
The arm is made of automatic material.

The shaft is made of hard chrome plated material for high wear resistance and corrosion resistance.

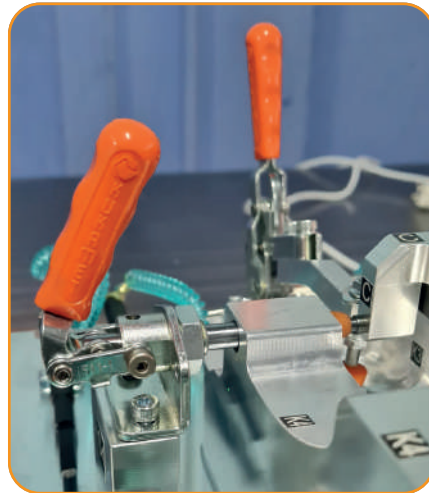
Mechanism parts are made of steel material and phosphate coated for corrosion resistance.



MODEL NO : 533-5-H



MODEL NO : 533-4-H



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 - H - Ø14	109	50	70	8	36,5	25	18	35	33,5	12	164	238,5	Ø14	M8	148	204	220	23	58	Ø 6,5	Ø 5,5	-
533 - 5 - H - Ø20	142	63	76	10,5	45	55,5	19	45	43	16	212,5	312	Ø20	M12	192,5	250	286	29	79	Ø 10,5	Ø 8,5	Ø 6,7

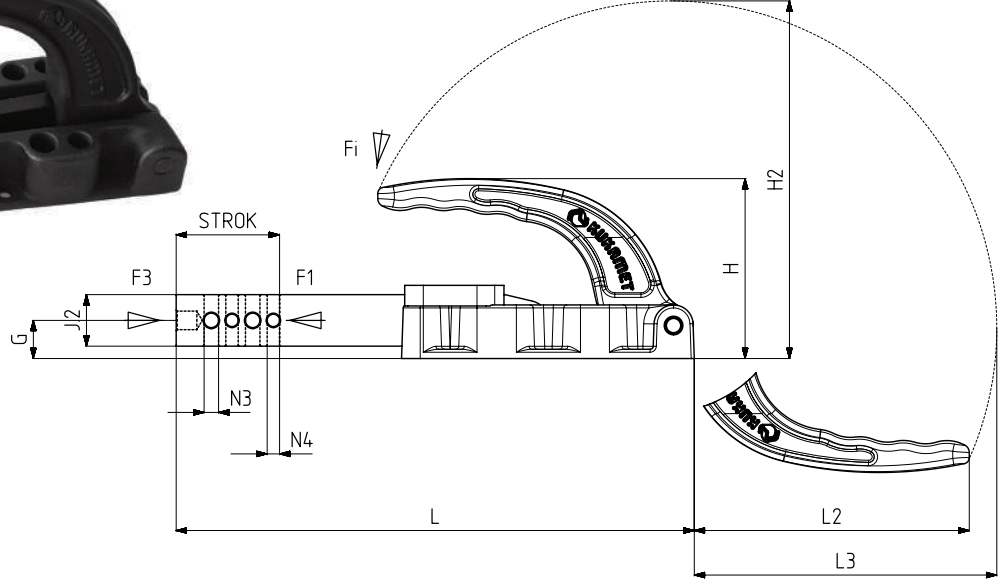
534



MODEL NO	F1 (N)	F3 (N)	Fi	STROK	AĞIRLIK (WEIGHT) (gr ± %2)
			VERİM (YIELD) (F1:Fi)		
534 - 4 (□16x16)	7000	11000	16:1	38	1040
534 - 5 (□20x25)	12000	29000	30:1	50	2115

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

Sertleştirilmiş Kapak
Hardened Cover



533

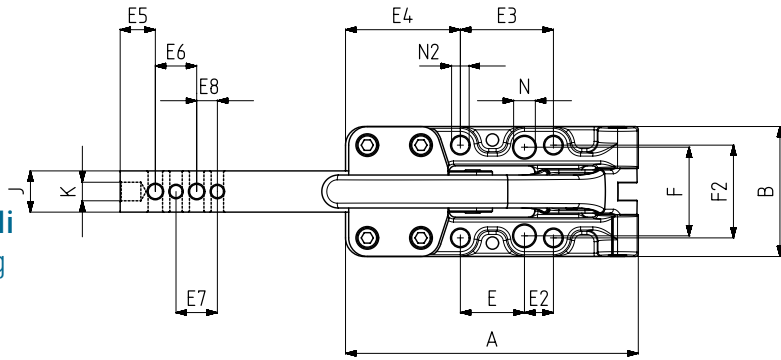
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Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli
Body Mounting Base: Horizontal, Casting

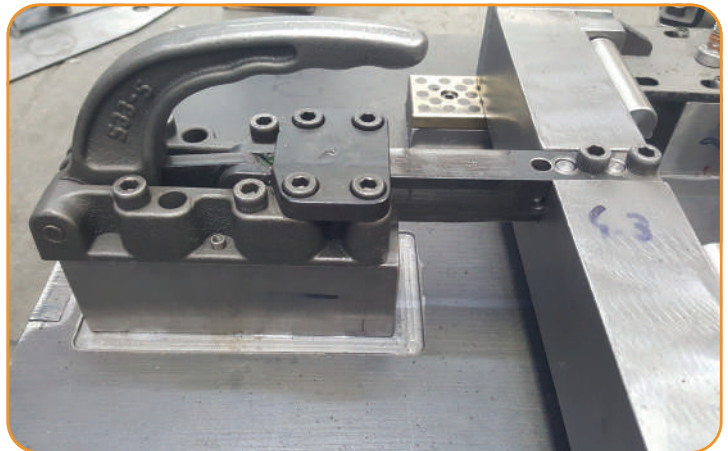


Ürün özellikleri ;

Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde ve kol mukavemetli döküm malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.
Mekanizma parçaları sertleştirilmiş 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 casting and phosphate coated for corrosion resistance
The mechanism parts are made of hardened steel and coated phosphate for corrosion resistance



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 - 4 (□16x16)	109	50	18,5	16,5	35	43	14,5	20	20	10	33,5	35	12,5	73	133	□ 16	16	7	148	98	112	Ø 5,5	Ø 6,5	Ø 6	Ø 4
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



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 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 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.

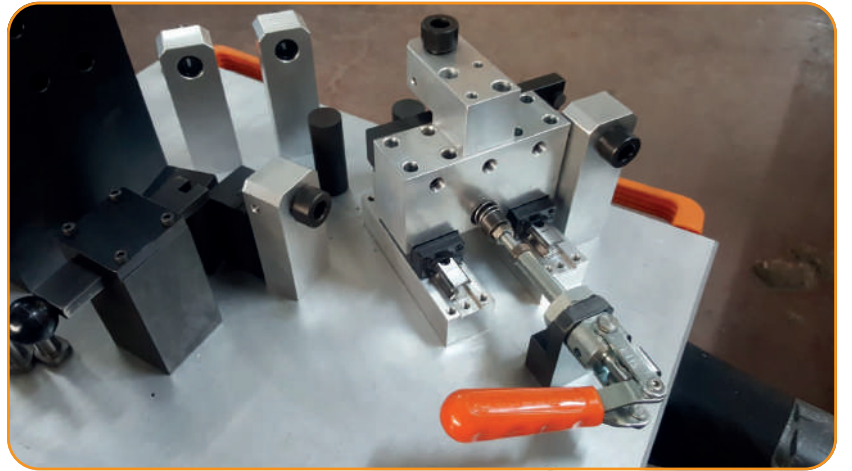
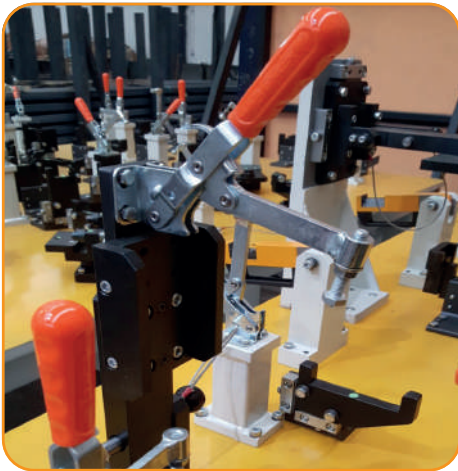


536

552

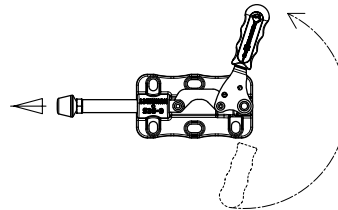
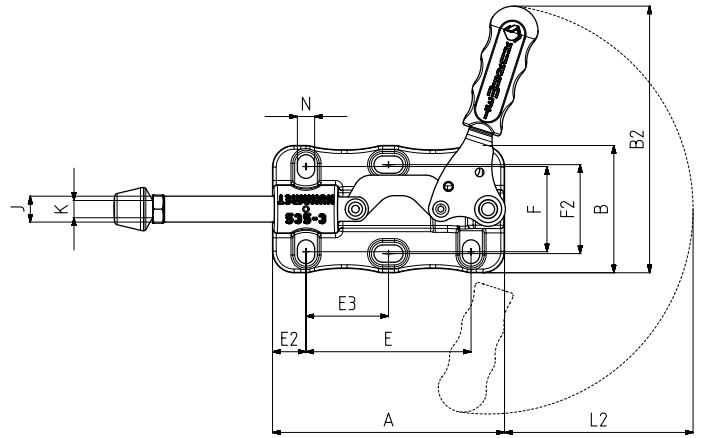
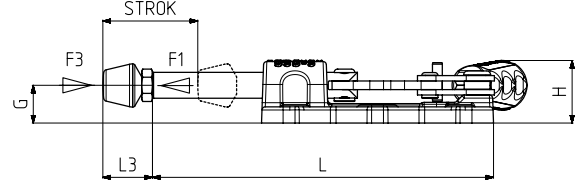
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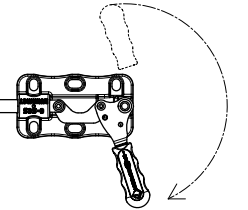


MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
535 - 3 (Ø 12) - R	1500	1700	16:1	M8X50	43	590
535 - 3 (Ø 12) - L	1500	1700	16:1	M8X50	43	590
535 - 4 (Ø 16) - R	4500	4700	23:1	M10X70	52	1000
535 - 4 (Ø 16) - L	4500	4700	23:1	M10X70	52	1000

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	Ø12	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	Ø12	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	Ø16	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	Ø16	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 ±%)
536 - 3 (Ø 12)	2500	3700	16:1	M8X50	38	600
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	2900

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 ;

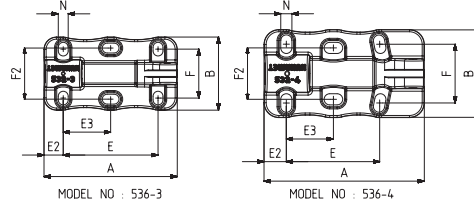
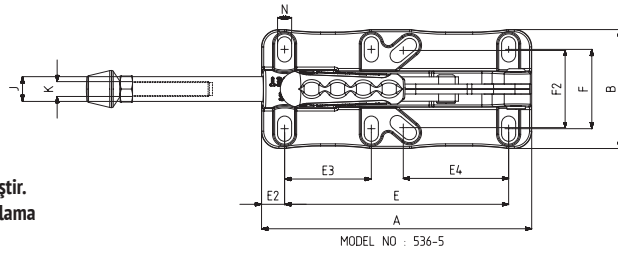
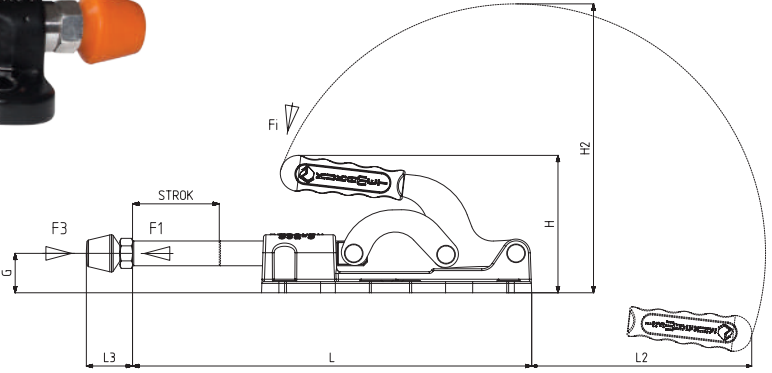
Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
Gövde mukavemetli döküm malzemeden üretilmiş ve siyah elektrostatik toz boya ile boyanmıştır.

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.

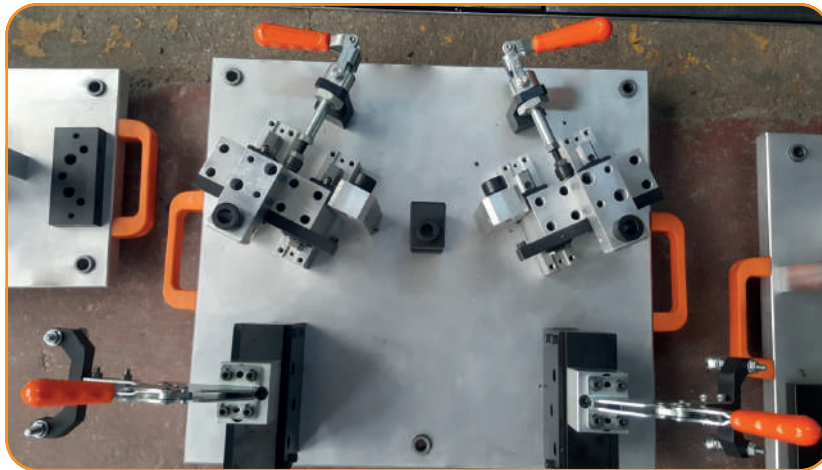
The body is made of strong casting and coated with black electrostatic powder paint. The rod is made of hard chrome plated steel for high wear and corrosion resistance and the mechanism parts are made of galvanized steel for corrosion resistance.



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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	Ø12	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	Ø14	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	Ø16	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	Ø18	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	Ø20	M12	322	169	39	94	11 x 20

537

new



MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
537-4-Ø14	8000	11000	23:1	M8 x 50	30	580

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

Ayak Tipi: Yatay Tabanlı - Ağır İş İtme Çekme - Ters Çalışan

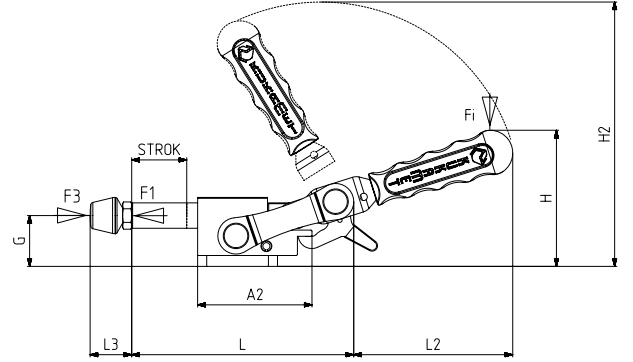
Body Mounting Base: Horizontal - Heavy Duty Straight Line
Push Pull - Reverse Operating



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Sayfa/Page: 68

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Sayfa/Page: 75

533-H
Sayfa/Page: 79

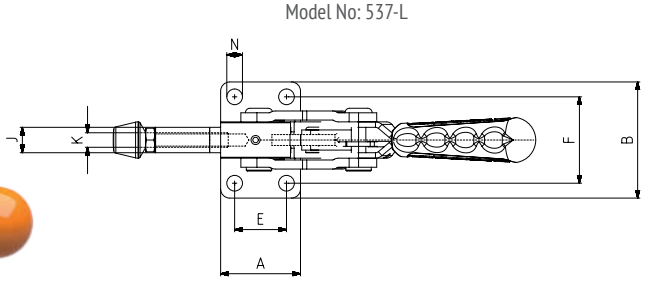


537-L

new



KİLİTLİ/LOCKED



Model No: 537-L

MODEL NO	A	A2	B	E	F	G	H	H2	J	K	L	L2	L3 min.	L3 max.	N
537-4-Ø14	44	63	64	28,5	47,5	28	75	145,5	Ø14	M8	122	87,5	23	50	Ø8,5

538

new



MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)			
538-4-Ø14	8000	11000	23:1	M8 x 50	30	470

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

Ayak Tipi: Dikey Tabanlı - Ağır İş İtme Çekme - Ters Çalışan

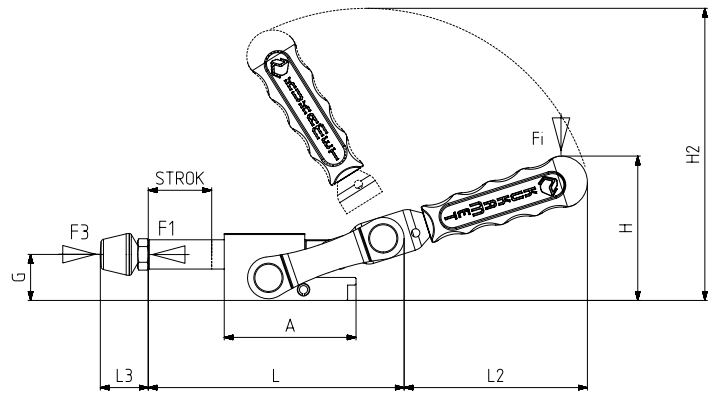
Body Mounting Base: Vertical - Heavy Duty Straight Line
Push Pull - Reverse Operating



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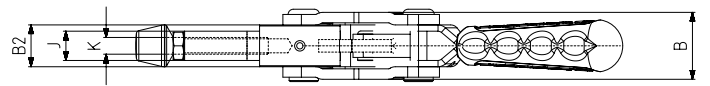


538-L

new



KİLİTLİ/LOCKED



MODEL NO	A	B	B2	G	H	H2	J	K	L	L2	L3 min.	L3 max.
538-4-Ø14	63	32	20	22	69	139,5	Ø14	M8	122	87,5	23	50

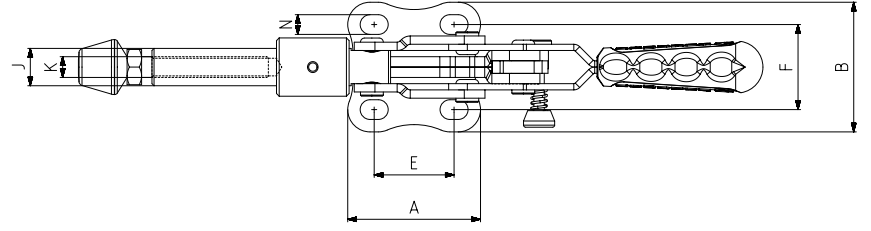
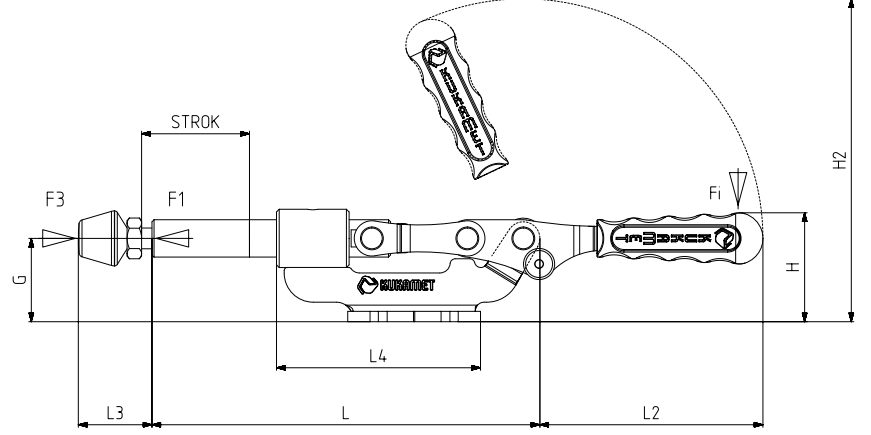
541-L



MODEL NO	F1 (N)	F3 (N)	Fi	BASKI VİDASI (SQUEEZE SCREW)	STROK	AĞIRLIK (WEIGHT) (gr ±½)
			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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521
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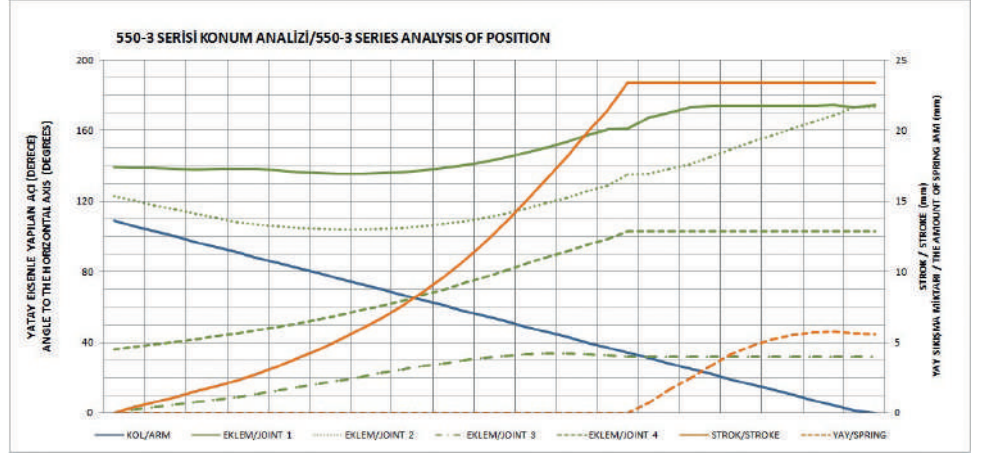


MODEL NO	A	B	E	F	G	H	H2	J	K	L	L2	L3 min.	L3 max.	L4	N
541 - 4 - L- Ø18	64	62	38,5	41	40	52,5	156	18	M10	186	107,5	32	81	98	9,5 x 13,5



MODEL NO	F1 (N)	F3 (N)	Fi	STROK	AĞIRLIK (WEIGHT) (gr ±%)
			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

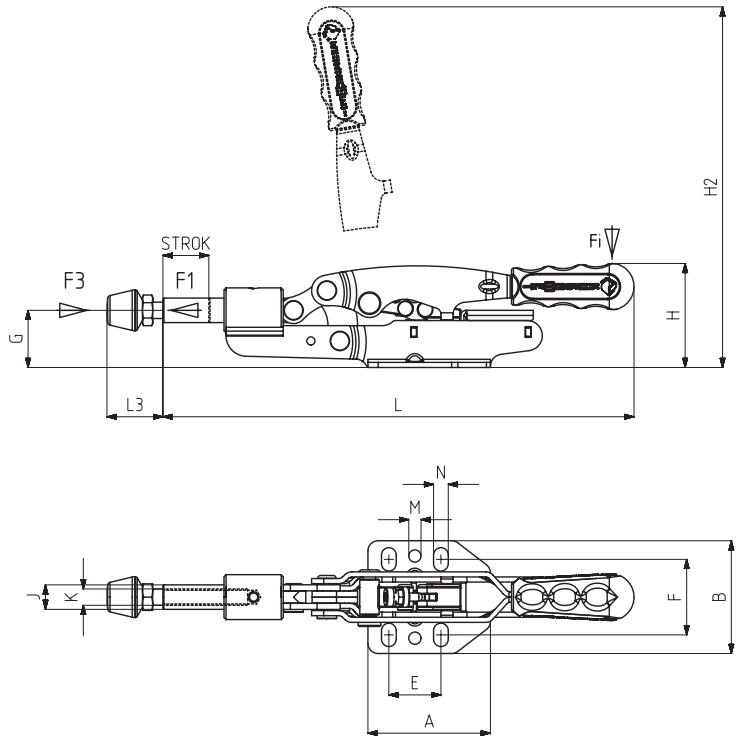
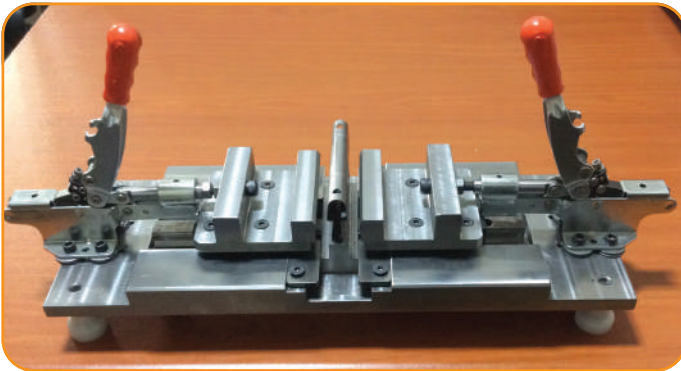
Body Mounting Base: Horizontal, Low Base



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552
Sayfa/Page: 86



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

552



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

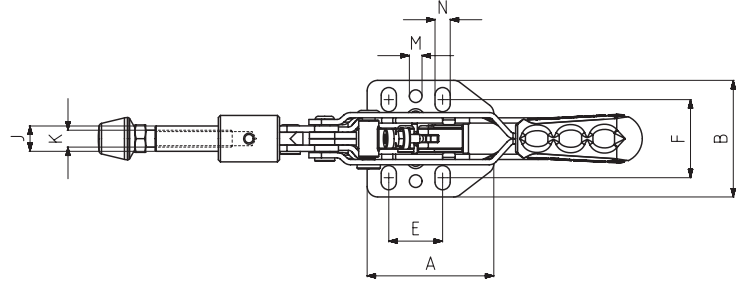
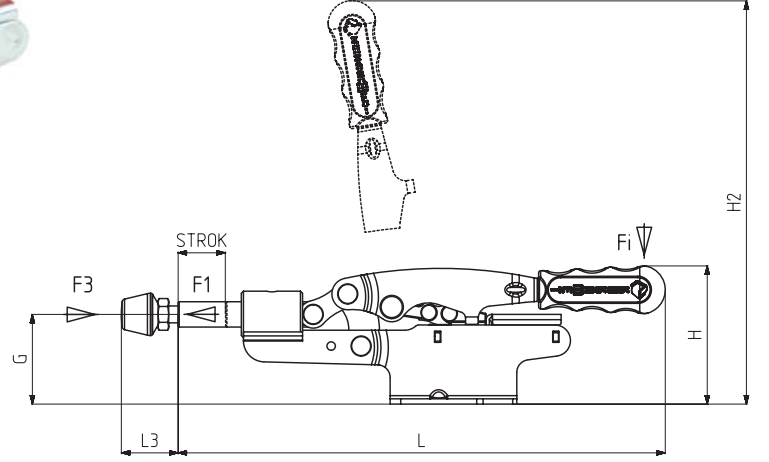
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY)
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



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.



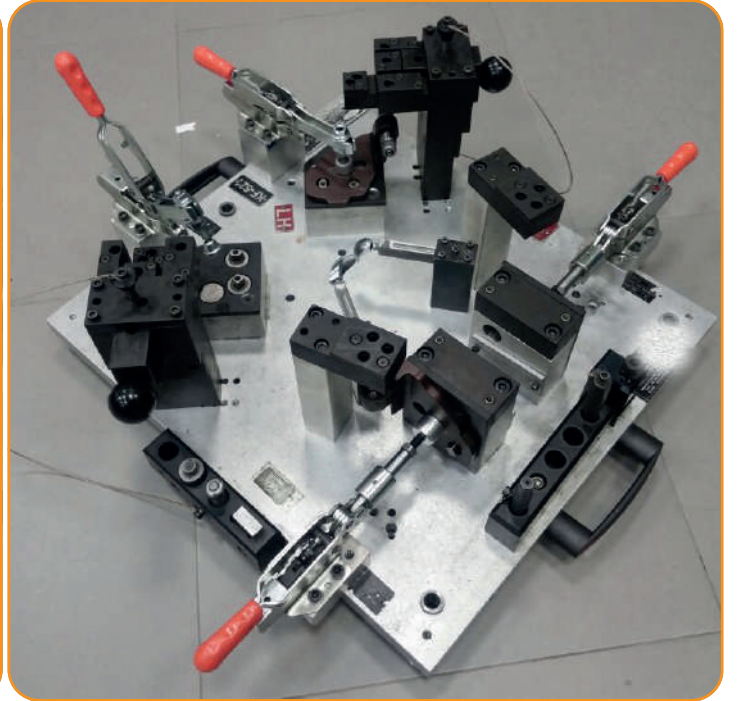
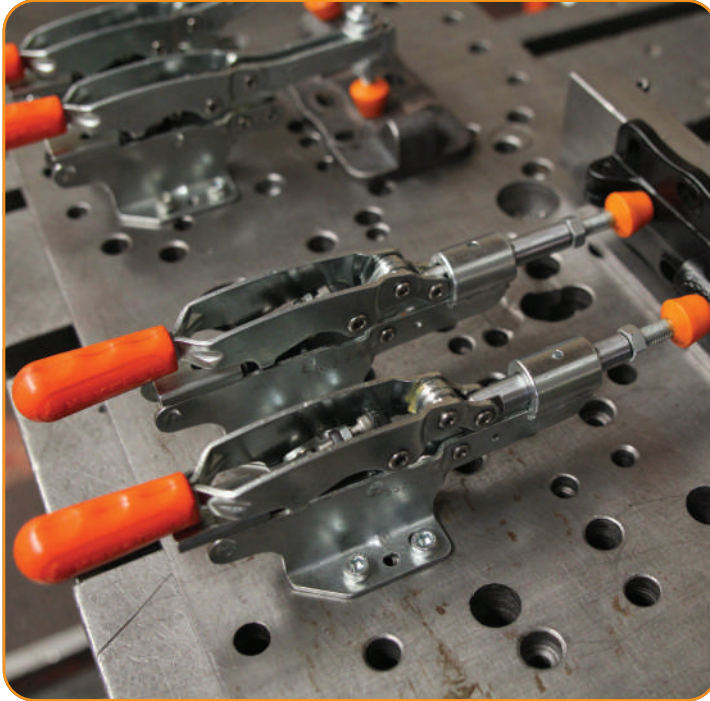
511
Sayfa/Page: 68



551
Sayfa/Page: 85



915
Sayfa/Page: 140



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

Paslanmaz Çelik Seri 'S'
Stainless Steel Series 'S'

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



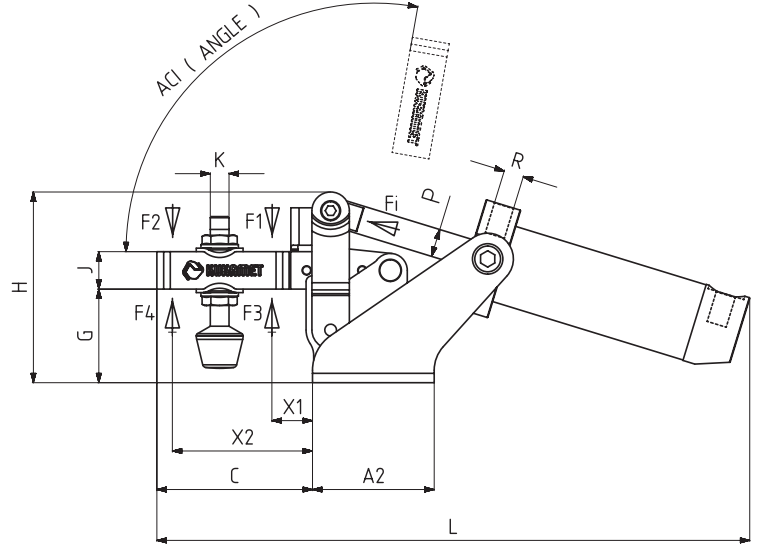
**PNÖMATİK
BAĞLANTI ELEMANLARI**
PNEUMATIC
TOGGLE CLAMPS



üretimin hızlı ve güçlü kahramanları...
fast and strong heroes of production...

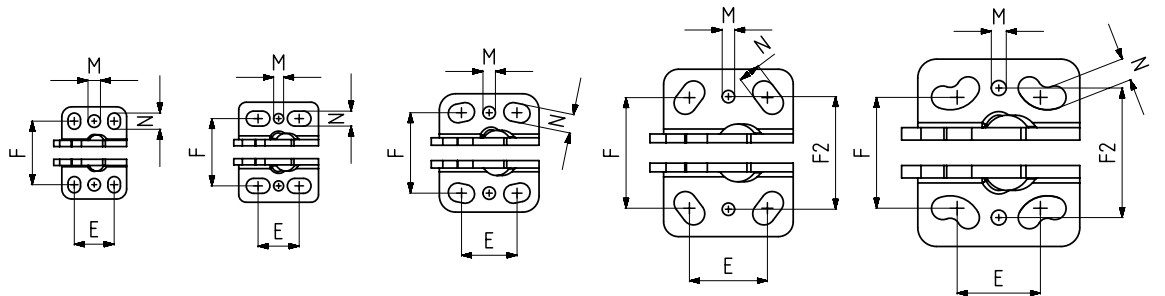
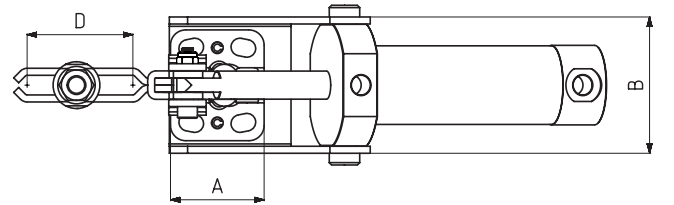
MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
611 - 1 - Q16	600	400	1000	680	120	0,09	95°	275	6
611 - 1 - Q20	750	500	1000	680	190	0,14	95°	360	6
611 - 2	1200	700	1400	925	300	0,25	95°	555	6
611 - 3	2000	1400	2500	1560	500	0,51	95°	860	6
611 - 4	3000	2000	3300	2200	750	1,04	95°	1690	6
611 - 5	4500	2500	5000	3000	1100	2	95°	3100	6

F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)
Vn , 6 BAR BAŞINÇTA 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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612

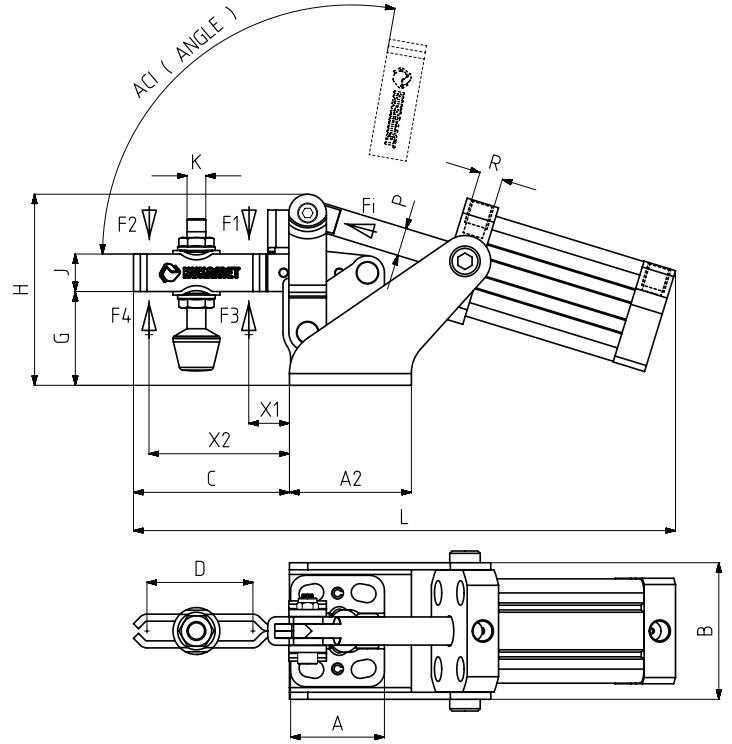
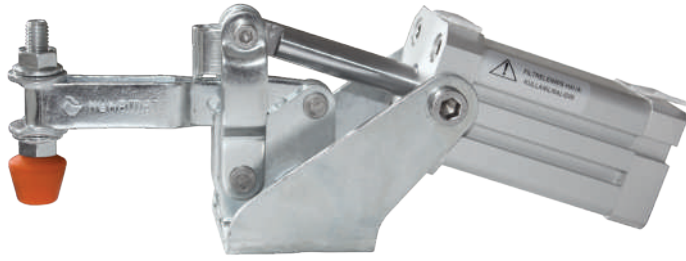
Sayfa/Page: 90

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)	Fİ (N)	Vn (dm ³)	ACİ (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) , 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)

612



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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611

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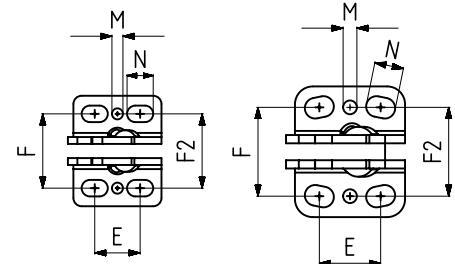
631

Sayfa/Page: 92



651-H

Sayfa/Page: 95



MODEL NO : 612-2

MODEL NO : 612-3



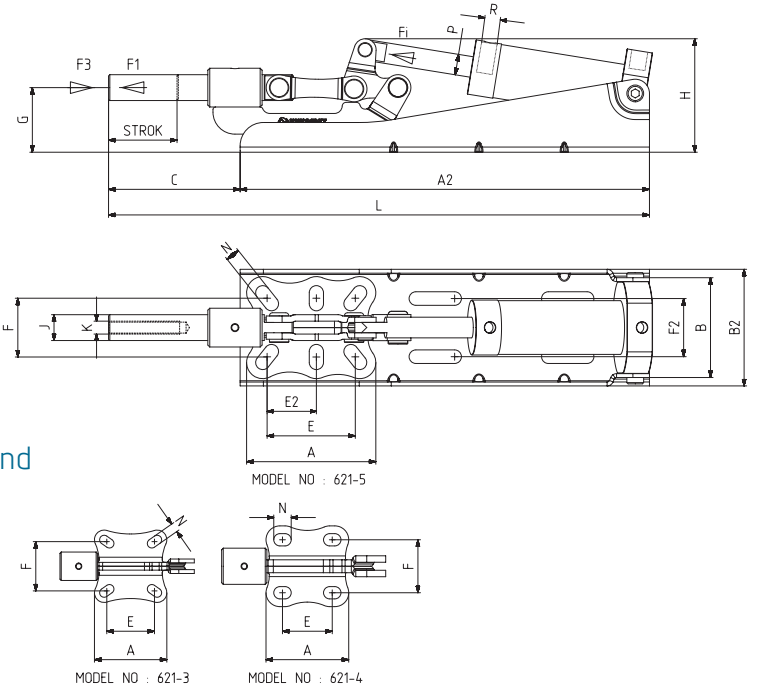
MODEL NO	A	A2	B	C	D	E	F	F2	G	H	J	K	L	M	N	X1	X2	P	R	PISTON Ø
612 - 2	32	42	51	60	42	16,5	27	27	29	61	13	M6	203	Ø4	6 x 9,5	18	48	Ø 10	G1/8	25
612 - 3	40	52	58	66,5	42	22,5	32,3	32,3	40	81,5	16	M 8	231	Ø5	7,5 x 10,5	25	52	Ø 12	G1/8	32

621



MODEL NO	F1 (N)	F3 (N)	Fİ (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	2268	6
621 - 4 (Ø 18)	4500	7200	750	1.04	33	2260	6
621 - 5 (Ø 20)	7500	15000	1100	2	42	3866	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)

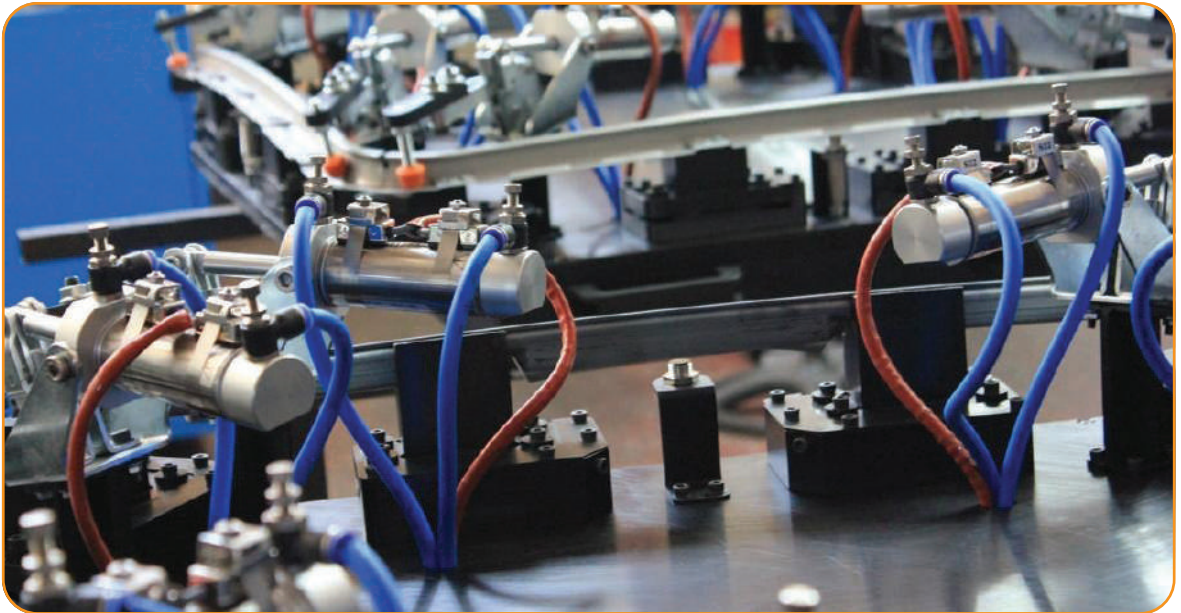


Ayak Tipi: Yatay Tabanlı, Kaynaklı, Arka Bağlantılı

Body Mounting Base: Horizontal With Welding, Tied Behind



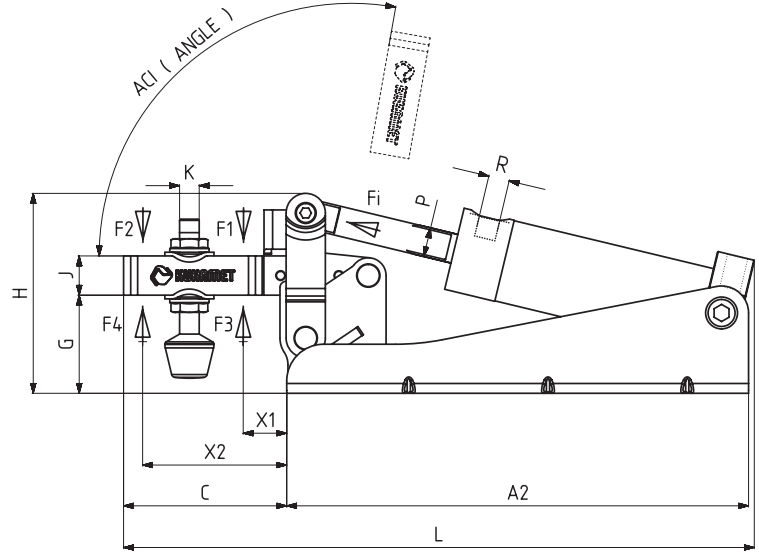
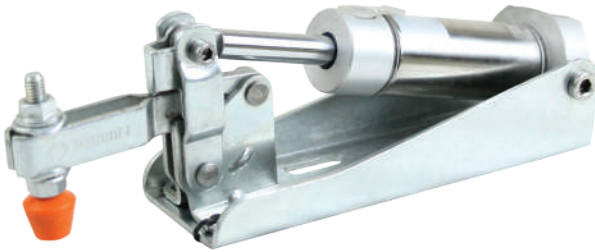
Pistonlar çift etkili, manyetik ve yastıklıdır.
Pneumatic cylinders are double acting, magnetic and cushioning



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	Ø12	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	Ø14	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	Ø16	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	Ø18	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	Ø20	M12	460	11 x 22	Ø 20	G1/8	50

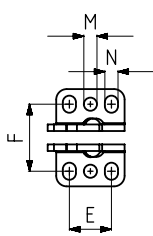
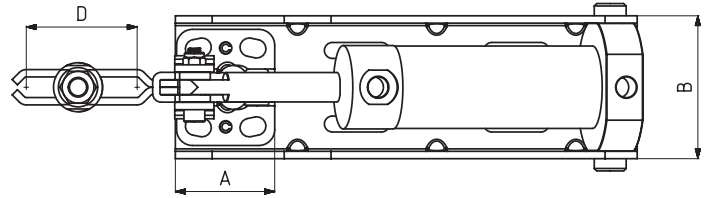
MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
631 - 1	750	500	1000	680	190	0,14	95°	475	6
631 - 2	1200	700	1400	925	300	0,25	95°	765	6
631 - 3	2000	1400	2500	1560	500	0,51	95°	1100	6
631 - 4	3000	2000	3300	2200	750	1,04	95°	2020	6
631 - 5	4500	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 dm ³ AT 6 BAR)									

631

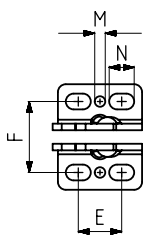


Ayak Tipi: Yatay Tabanlı, Arka Bağlantılı Body Mounting Base: Horizontal, Tied Behind

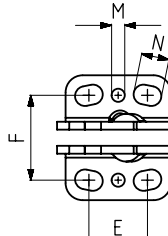
Pistonlar çift etkili, manyetik ve yastıklıdır.
Pneumatic cylinders are double acting, magnetic and cushioning.



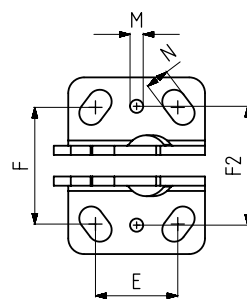
MODEL NO : 631-1



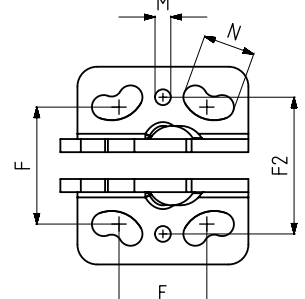
MODEL NO : 631-2



MODEL NO : 631-3



MODEL NO : 631-4



MODEL NO : 631-5



611
Sayfa/Page: 89

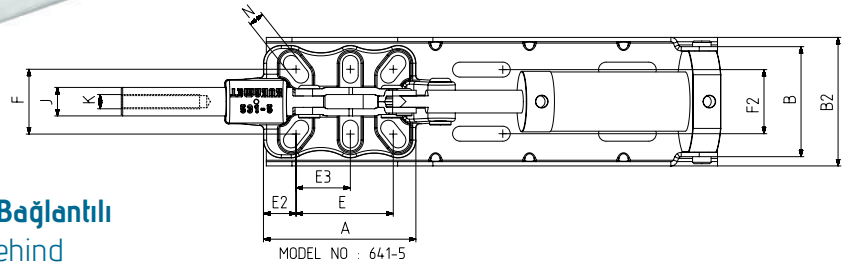
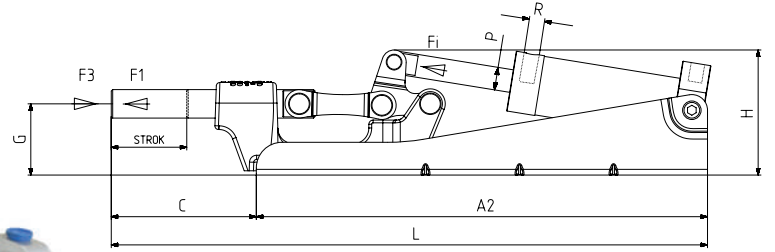


612
Sayfa/Page: 90

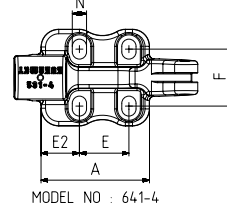
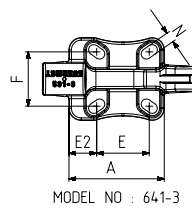
MODEL NO	A	A2	B	C	D	E	F	F2	G	H	J	K	L	M	N	X1	X2	P	R	PİSTON Ø
631 - 1	26	151,5	44	42	26	16	25,5	25,5	25	52	10	M5	194,5	Ø5	5 x 6,5	16	32	Ø 8	G1/8	20
631 - 2	32	171	51	60	42	16,5	27	27	29	61	13	M6	232	Ø4	6 x 9,5	18	48	Ø 10	G1/8	25
631 - 3	40	188	58	66,5	42	22,5	32,3	32,3	40	81	16	M 8	257	Ø5	7,5 x 10,5	25	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 ±%)	BAR
641 - 3 (Ø 12)	1500	3700	300	0.25	23	1375	6
641 - 3 (Ø 14)	2500	4000	500	0.51	23	1550	6
641 - 4 (Ø 16)	4500	8100	750	1.04	33	2588	6
641 - 4 (Ø 18)	4500	8800	750	1.04	33	2684	6
641 - 5 (Ø 20)	7500	18450	1100	2	42	4300	6

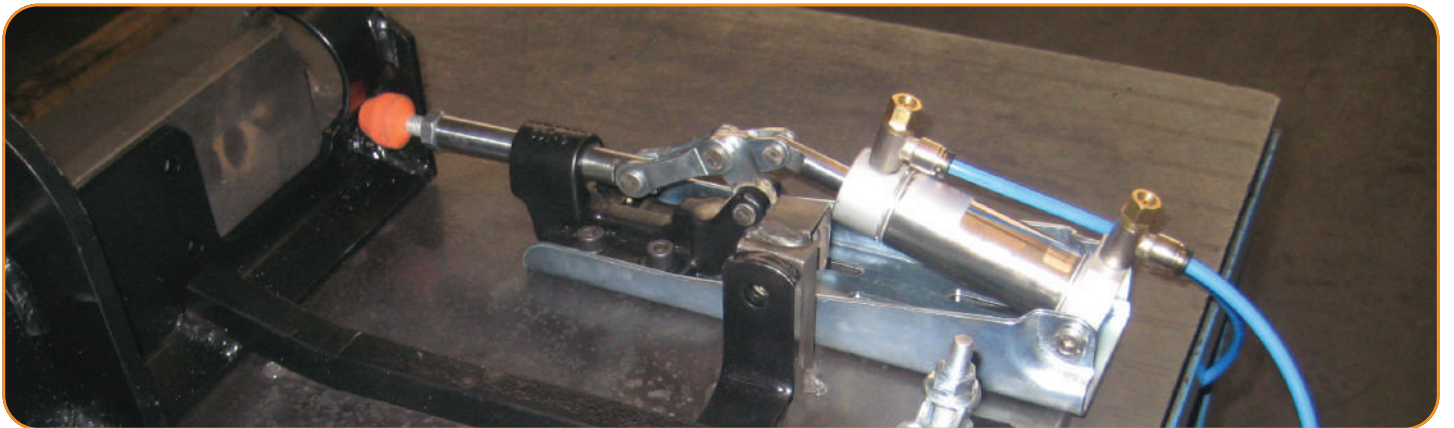
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn ,AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



Ayak Tipi: Yatay Tabanlı, Döküm Gövdeli, 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	Ø12	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	Ø14	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	Ø16	M10	375	10x14	Ø 16	G1/8	40
641 - 4 (Ø 18)	76	289	77	78	84	34,5	27	-	40	41	42	87	Ø18	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	Ø20	M12	460	11 x 22	Ø 20	G1/8	50

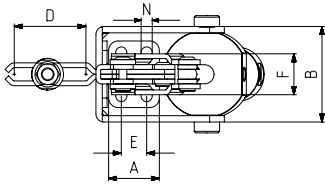
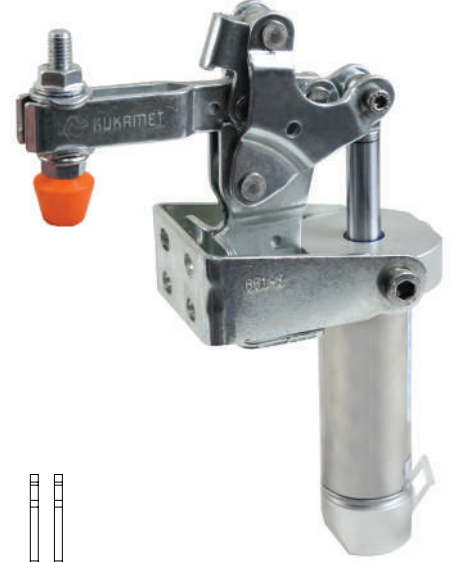
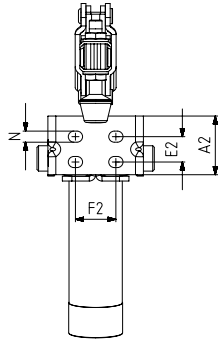
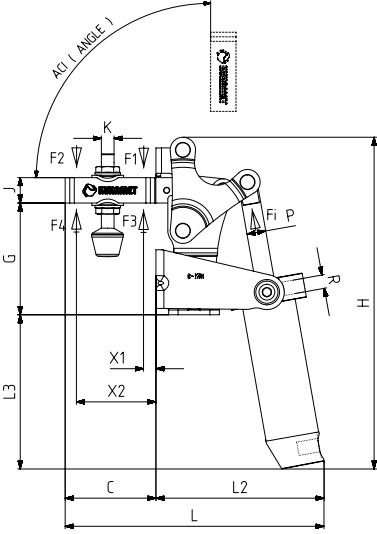
651



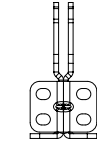
Ayak Tipi: Dik Tabanlı
Body Mounting Base: Vertical

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	1200	700	1400	925	300	0.25	90 °	570	6
651 - 3	2000	1400	2500	1560	500	0.51	90 °	910	6
651 - 4	3000	2000	3300	2200	750	1.04	90 °	2000	6
651 - 5	4500	2500	5000	3000	1100	2	90 °	3670	6

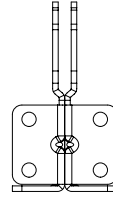
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm³ AT 6 BAR)



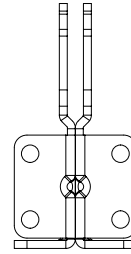
MODEL NO : 651-2



MODEL NO : 651-3



MODEL NO : 651-4



MODEL NO : 651-5



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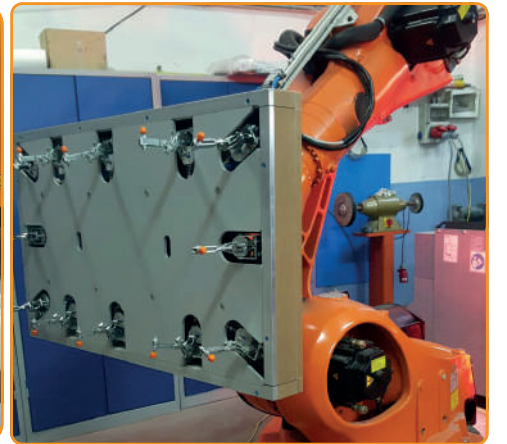
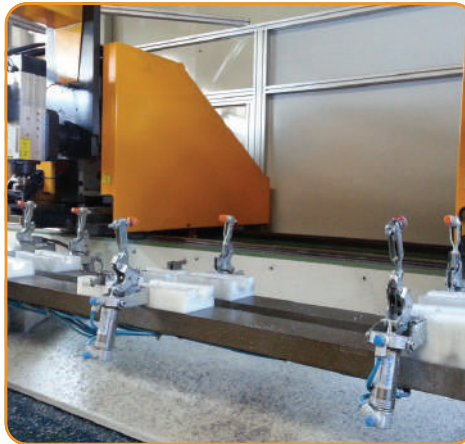
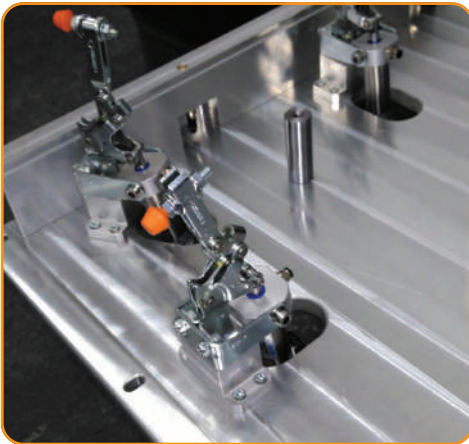
611

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651-H

Sayfa/Page: 95



Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning.

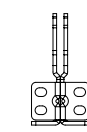
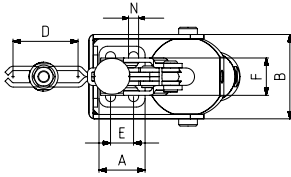
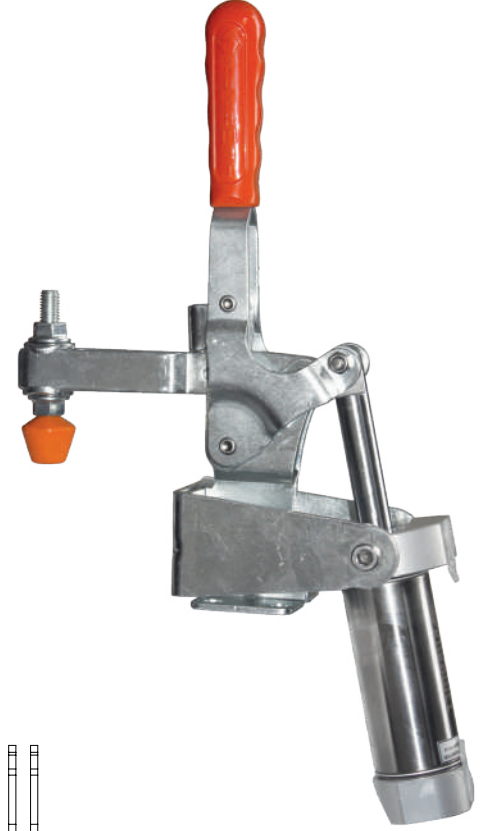
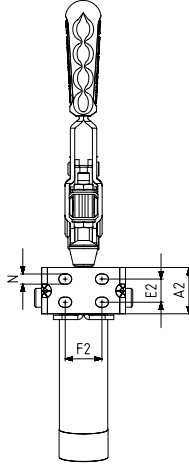
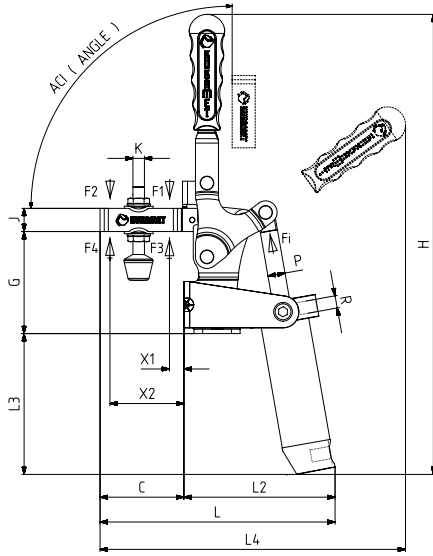
MODEL NO	A	A2	B	C	D	E	E2	F	F2	G	H	J	K	L	L2	L3	N	X1	X2	P	R	PİSTON Ø
651 - 2	26	26	51	54	42	12,5	12,5	27	27	65	180	13	M6	146	92	82	6x8	12	42	Ø 10	G1/8	25
651 - 3	32	32	60	57	42	16	16	25,5	25,5	70,5	210	16	M8	164	106	98	7x9	15	42	Ø 12	G1/8	32
651 - 4	50	50	79	89	67	32	32	45	45	100	255	20	M10	230	141	101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



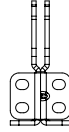
MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
651 - 2 - H	1200	700	1400	925	300	0,25	90 °	620	6
651 - 3 - H	2000	1400	2500	1560	500	0,51	90 °	1000	6
651 - 4 - H	3000	2000	3300	2200	750	1,04	90 °	2100	6
651 - 5 - H	4500	2500	5000	3000	1100	2	90 °	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 dm ³ AT 6 BAR)									

Ayak Tipi: Dik Tabanlı, Kollu

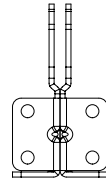
Body Mounting Base: Vertical and with handle



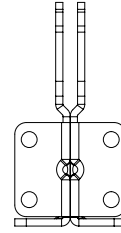
MODEL NO : 651-2-H



MODEL NO : 651-3-H



MODEL NO : 651-4-H



MODEL NO : 651-5-H



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651

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Pistonlar çift etkili, manyetik ve yastıklamalıdır

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

652



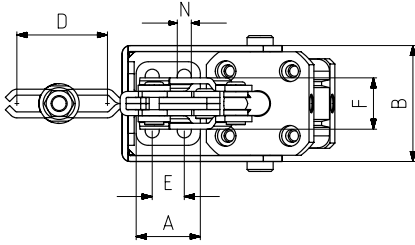
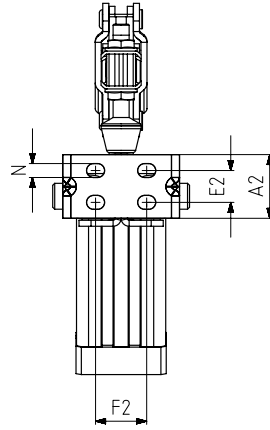
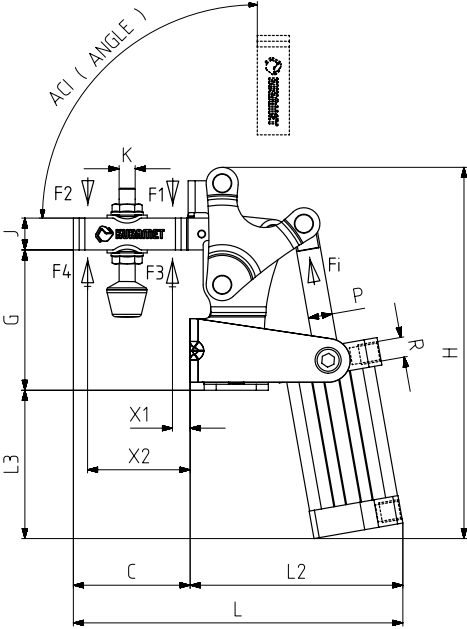
MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
652 - 2	1200	700	1400	925	300	0,25	90 °	670	6
652 - 3	2000	1400	2500	1560	500	0,51	90 °	1098	6
F1 - F2 : BASKI KUVVETİ (EXERTING FORCE) , F3 - F4 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , Fi : UYGULAMA KUVVETİ (APPLIED FORCE)									
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm ³ AT 6 BAR)									

Ayak Tipi: Dik Tabanlı

Body Mounting Base: Vertical

Sensör Kanallı - Kare Pistonlu

With Square Piston and Sensor Slot



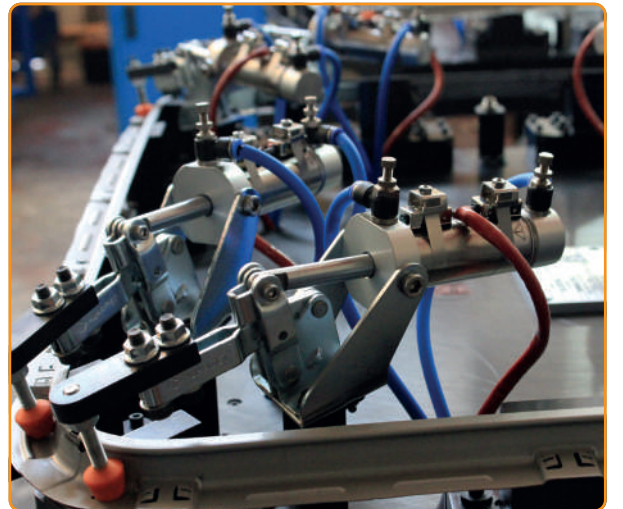
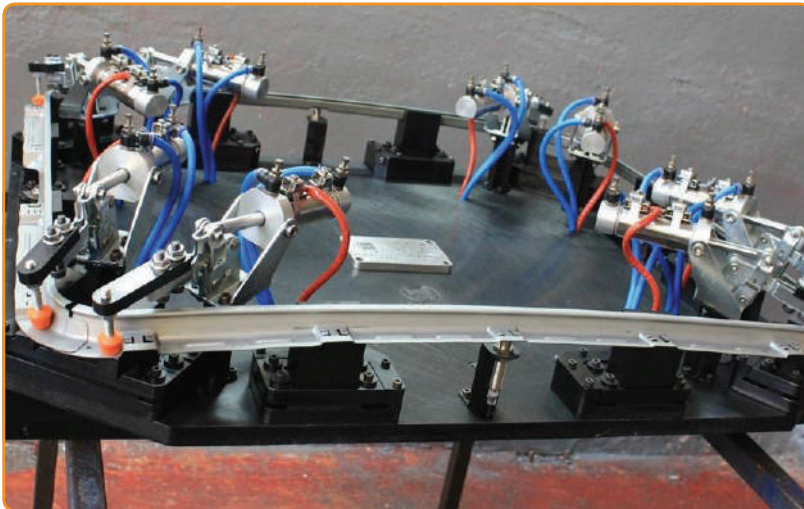
MODEL NO : 652-2

MODEL NO : 652-3

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651
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651-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	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



MODEL NO	F1 (N)	F3 (N)	F _i (N)	V _n (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
661 - 3 (Ø 12)	1500	2960	300	0.25	23	850	6
661 - 3 (Ø 14)	2500	3200	500	0.51	23	1030	6
661 - 4 (Ø 16)	4500	6650	750	1.04	33	1820	6
661 - 4 (Ø 18)	4500	7200	750	1.04	33	1840	6
661 - 5 (Ø 20)	7500	15000	1100	2	42	3300	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F_i : UYGULAMA KUVVETİ (APPLIED FORCE)
 V_n , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (V_n , 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

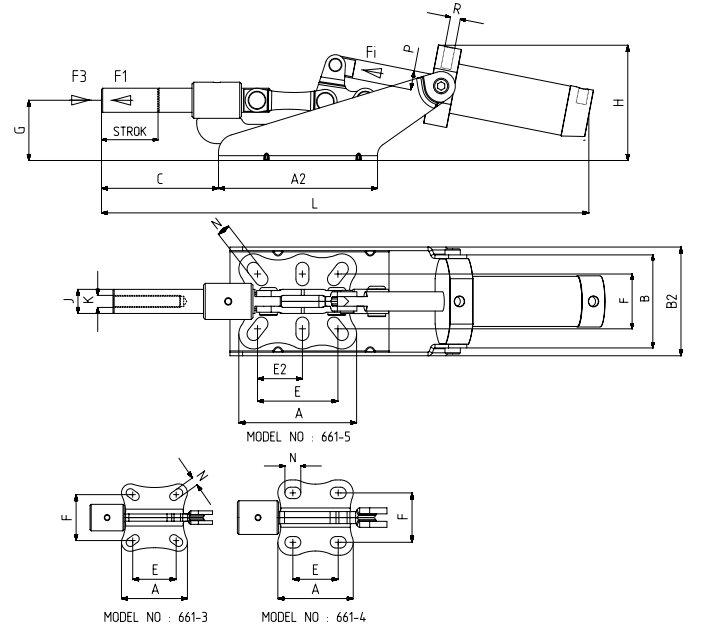


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Pistonlar çift etkili, manyetik ve yastıklıdır
 Pneumatic cylinders are double acting, magnetic and cushioning



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	Ø12	M8	292	7 x 12	Ø 10	G1/8	25
661 - 3 (Ø 14)	56	100	58	68	70	37	-	38	35	79	Ø14	M8	312	7 x 12	Ø 12	G1/8	32
661 - 4 (Ø 16)	64	115	77	78	84	38,5	-	41	43	100	Ø16	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	Ø18	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	Ø20	M12	456	11 x 22	Ø 20	G1/8	50



MODEL NO	F1 (N)	F3 (N)	F _i (N)	V _n (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
662 - 3 (Ø 12)	1500	2960	300	0.25	23	900	6
662 - 3 (Ø 14)	2500	3200	500	0.51	23	1150	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , F_i : UYGULAMA KUVVETİ (APPLIED FORCE)
 V_n , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (V_n , 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

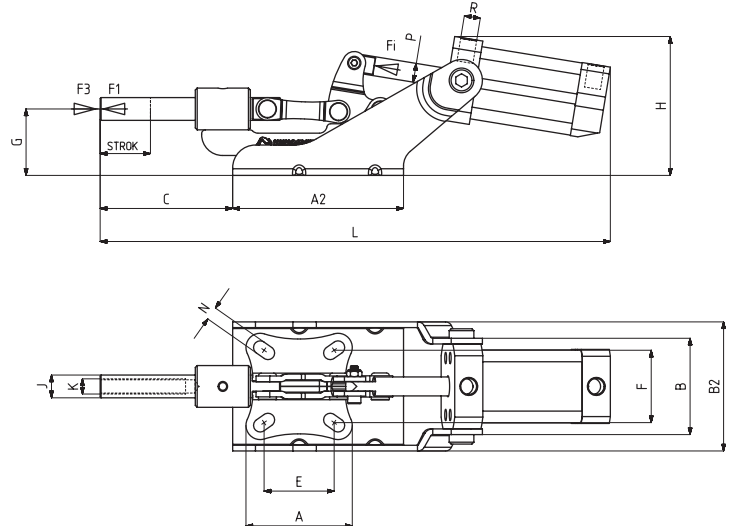


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Pistonlar çift etkili, manyetik ve yastıklıdır
 Pneumatic cylinders are double acting, magnetic and cushioning

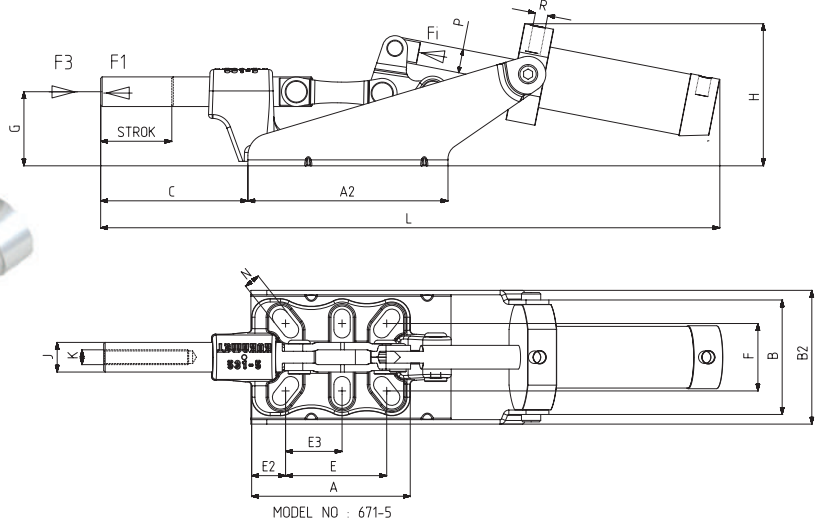


MODEL NO	A	A2	B	B2	C	E	F	G	H	J	K	L	N	P	R	PİSTON Ø
662 - 3 (Ø 12)	56	90	51	68	70	37	38	35	73	Ø12	M8	268	7 x 12	Ø 10	G1/8	25
662 - 3 (Ø 14)	56	100	58	68	70	37	38	35	80	Ø14	M8	288	7 x 12	Ø 12	G1/8	32

MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%)	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	2140	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), 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)

671



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



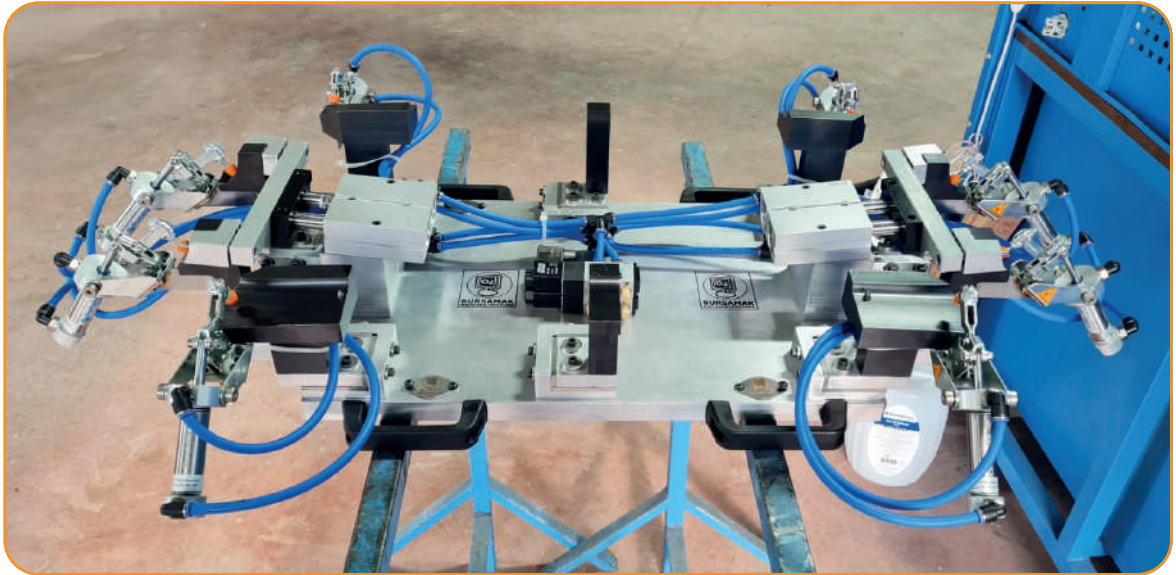
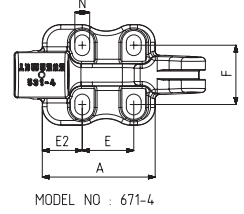
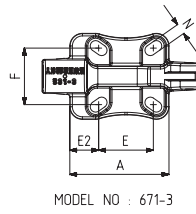
531
Sayfa/Page: 75



661
Sayfa/Page: 97



662
Sayfa/Page: 97



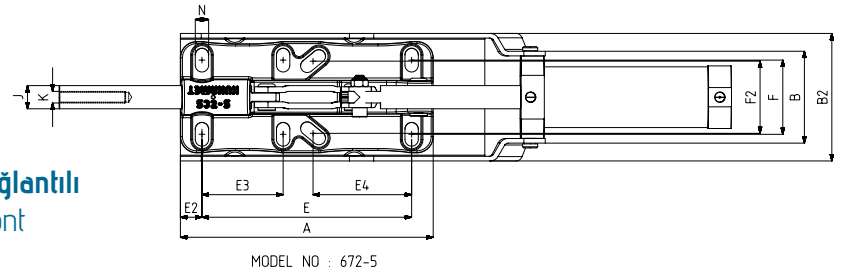
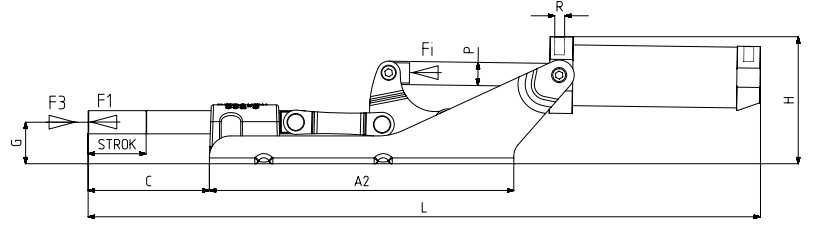
Pistonlar çift etkili, manyetik ve yastıklamalıdır.

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	PİSTON Ø
671-3 (Ø 12)	67	90	51	68	70	37	19,5	-	38	35	72	Ø12	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	Ø14	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	Ø16	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	Ø18	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	Ø20	M12	456	11 x 22	Ø 20	G1/8	50



MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
672 - 5 (Ø 20)	7500	18450	1100	2	95	5260	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 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	Ø20	M12	578	11,5x20,5	Ø 20	G1/8	50



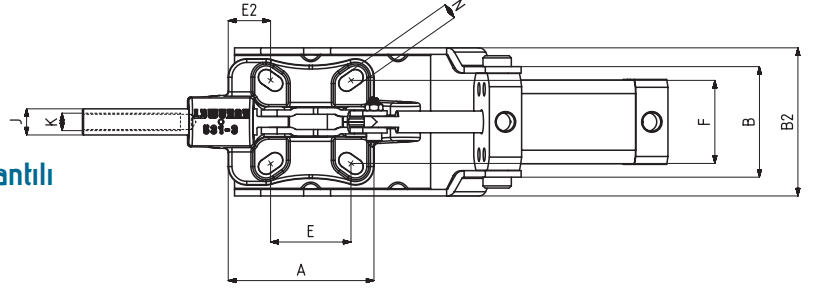
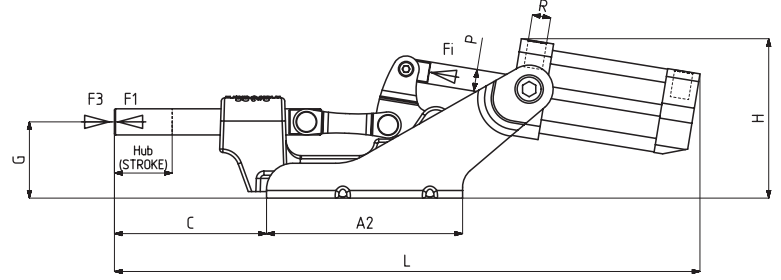
Pistonlar çift etkili, manyetik ve yastıklıdır
Pneumatic cylinders are double acting, magnetic and cushioning

673



MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%)	BAR
673 - 3 (Ø 12)	1500	3700	300	0,25	23	1100	6
673 - 3 (Ø 14)	2500	4000	500	0,51	23	1300	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



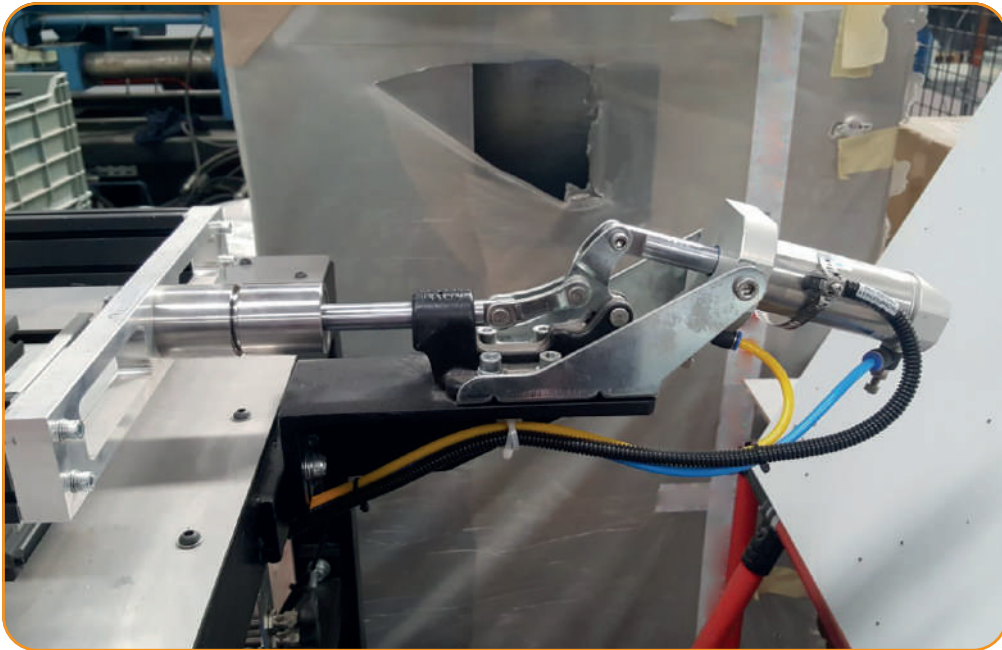
533
Sayfa/Page: 78



535-R-L
Sayfa/Page: 81



661
Sayfa/Page: 97



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	Ø12	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	Ø14	M8	288	7 x 12	Ø 12	G1/8	32

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 89, 90, 92, 94, 95 ve 96 numaralı sayfalarda mevcuttur.

Note : Technical details of pneumatic products are available at pages 89, 90, 92, 94, 95 and 96

611-D

MODEL NO	C1	C2	C3	AĞIRLIK (WEIGHT) (gr ±%2)
611 - 1 - D - Ø16	44	94	144	310
611 - 1 - D - Ø20	44	94	144	360
611 - 2 - D	62	112	162	560
611 - 3 - D	67	117	167	908
611 - 4 - D	100	150	200	1690
611 - 5 - D	130	180	230	3165



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

Body Mounting Base:
Horizontal, Tied Front

612-D

MODEL NO	C1	C2	C3	AĞIRLIK (WEIGHT) (gr ±%2)
612 - 2 - D	62	112	162	660
612 - 3 - D	67	117	167	972



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

Body Mounting Base:
Horizontal, Tied Front

631-D

MODEL NO	C1	C2	C3	AĞIRLIK (WEIGHT) (gr ±%2)
631 - 1 - D	44	94	144	475
631 - 2 - D	62	112	162	814
631 - 3 - D	67	117	167	1150
631 - 4 - D	100	150	200	2020
631 - 5 - D	130	180	230	3610



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

Body Mounting Base:
Horizontal, Tied Behind

651-D

MODEL NO	C1	C2	C3	AĞIRLIK (WEIGHT) (gr ±%2)
651 - 2 - D	62	112	162	570
651 - 3 - D	67	117	167	972
651 - 4 - D	100	150	200	2000
651 - 5 - D	130	180	230	3670



Ayak Tipi: Dik Tabanlı

Body Mounting Base: Vertical

651-H-D

MODEL NO	C1	C2	C3	AĞIRLIK (WEIGHT) (gr ±%2)
651 - 2 - H - D	62	112	162	620
651 - 3 - H - D	67	117	167	1000
651 - 4 - H - D	100	150	200	2100
651 - 5 - H - D	130	180	230	3900



Ayak Tipi: Dik Tabanlı, Kollu

Body Mounting Base:
Vertical and with handle

652-D

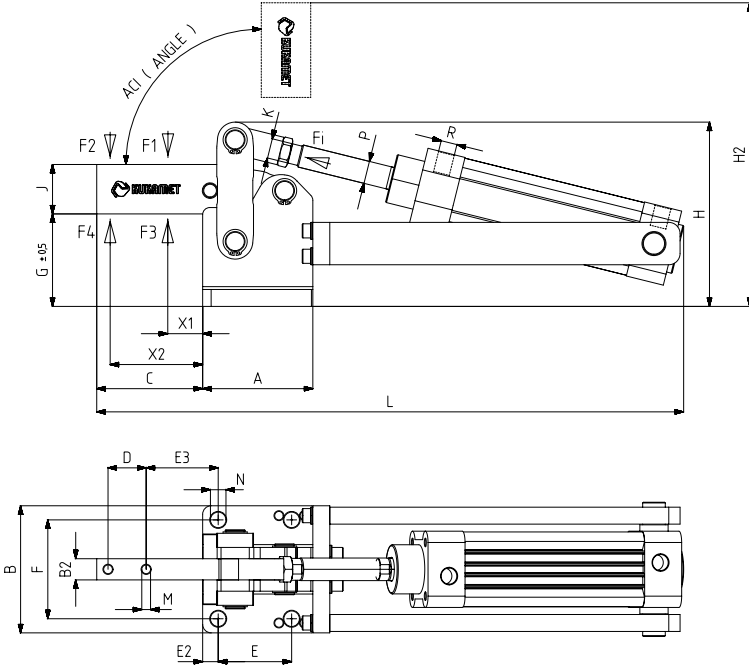
MODEL NO	C1	C2	C3	AĞIRLIK (WEIGHT) (gr ±%2)
652 - 2 - D	62	112	162	696
652 - 3 - D	67	117	167	1040



Ayak Tipi: Dik Tabanlı

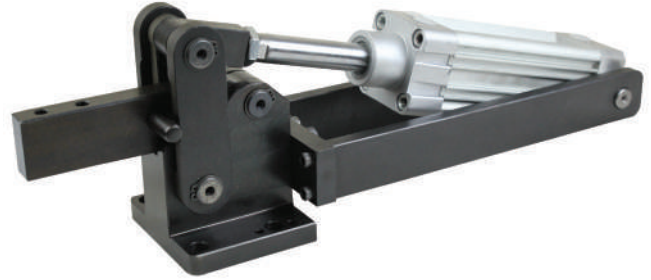
Body Mounting Base: Vertical

681



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	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°	20148	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 Pistonlu Body Mounting Base: Horizontal Piston

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



681-M
Sayfa/Page: 102



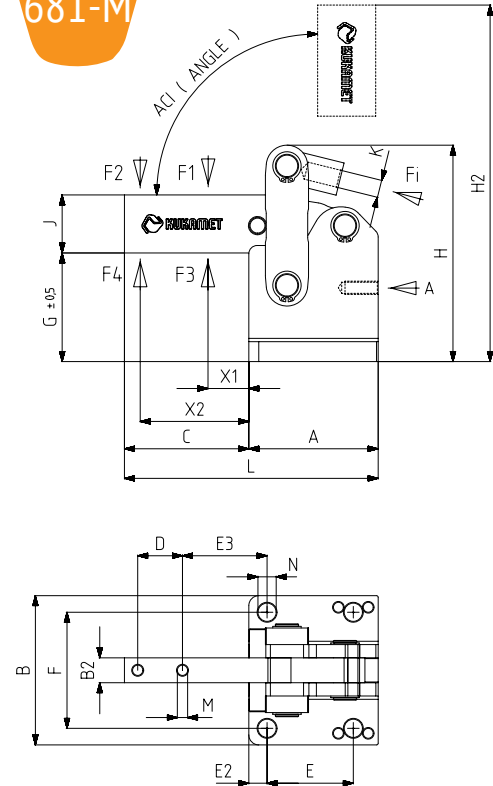
682
Sayfa/Page: 103



6031
Sayfa/Page: 133

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

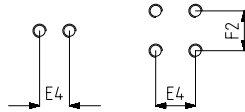
681-M



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	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°	4980	6
681-8-M	6500	4000	30000	20000	1850	5,13	90°	12596	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)

VIEW A



Ayak Tipi: Yatay Tabanlı Body Mounting Base: Horizontal

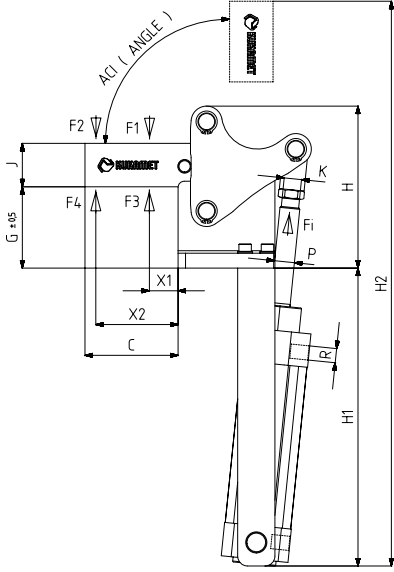


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Sayfa/Page: 51



681
Sayfa/Page: 102

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 (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
682 - 4	2500	1800	9000	6000	750	1.28	90°	5600	6
682 - 6	4000	2400	18000	12000	1150	2.5	90°	9900	6
682 - 8	6500	4000	30000	20000	1850	5.13	90°	21000	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 dm ³ AT 6 BAR)									

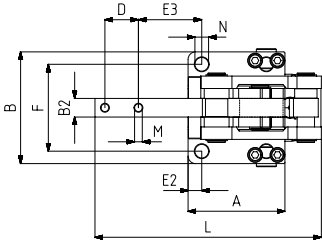
682


Ayak Tipi: Dikey Pistonlu

Body Mounting Base: Vertical Piston

Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning.



682-M

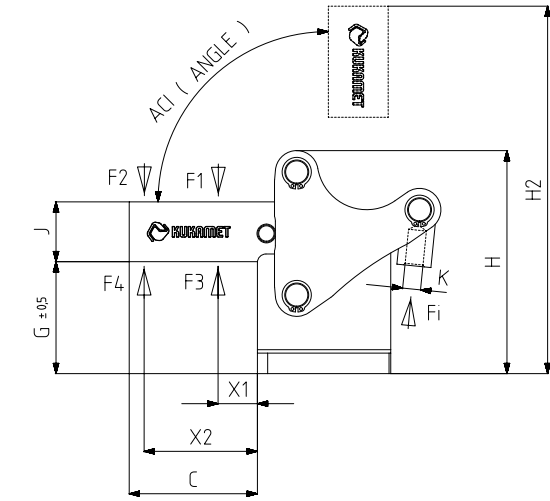
Sayfa/Page: 103



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Sayfa/Page: 133

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 (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%)	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°	5784	6
682-8-M	6500	4000	30000	20000	1850	5.13	90°	14396	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 dm ³ AT 6 BAR)									

682-M


Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal



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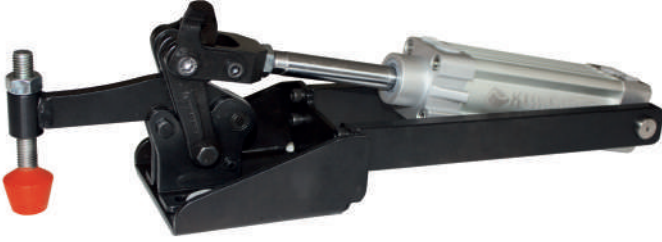


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MODEL NO	A	B	B2	C	D	E2	E3	F	G	H	H2	J	K	L	M	N	X1	X2	P	R	PİSTON Ø	PİSTON STROK
682-4-M	77	90	15	75	27	10	47	70	65,5	131	216	35	M12X1,25	182	6,2	11	18	64	Ø 16	G1/4	40	80
682-6-M	93	105	20	85	26	11	54	83	71	158	249	40	M16X1,50	219	8,2	12,5	18	69	Ø 20	G1/4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

683



Ayak Tipi: Yatay Pistonlu - Modüler

Body Mounting Base: Horizontal Piston - Modular



683-H

Sayfa/Page: 105

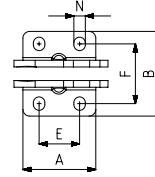
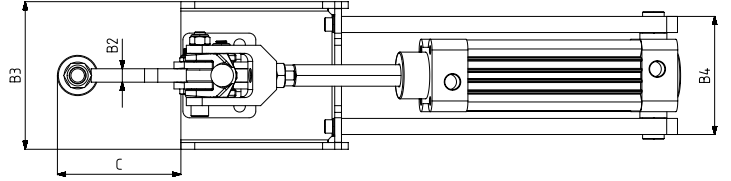
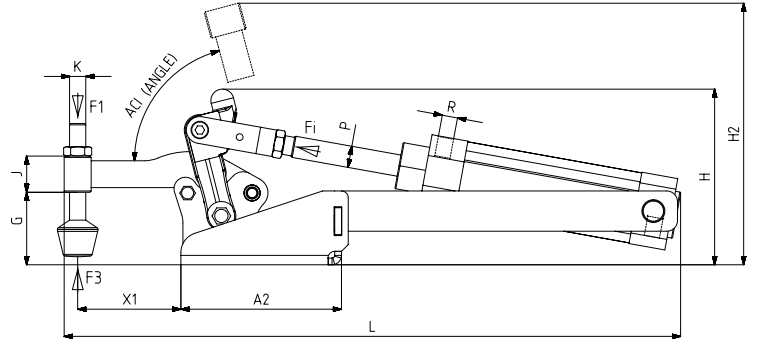


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MODEL NO	F1 (N)	F3 (N)	Fi (N)	Vn (dm ³)	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)	BAR
683 - 4	1600	5600	750	1,28	70°	4800	6
683 - 6	2000	11000	1150	2,5	70°	8000	6

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)



Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning.

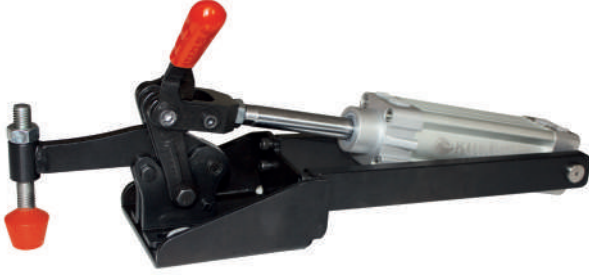
MODEL NO	A	A2	B	B2	B3	B4	C	E	F	G	H	H2	J	K	L	N	X1	P	R	PİSTON Ø	PİSTON STROK
683 - 4	54	119	63	10	100	88	91,5	30	44,5	54	131	195	27	M12	457	8,5 x 10	76,5	Ø 16	G1/4	40	80
683 - 6	70	151	74	12	112	100	112	45	52	73	164	245	32	M12	549	10,5 x 11,5	97	Ø 20	G1/4	50	100

683-H

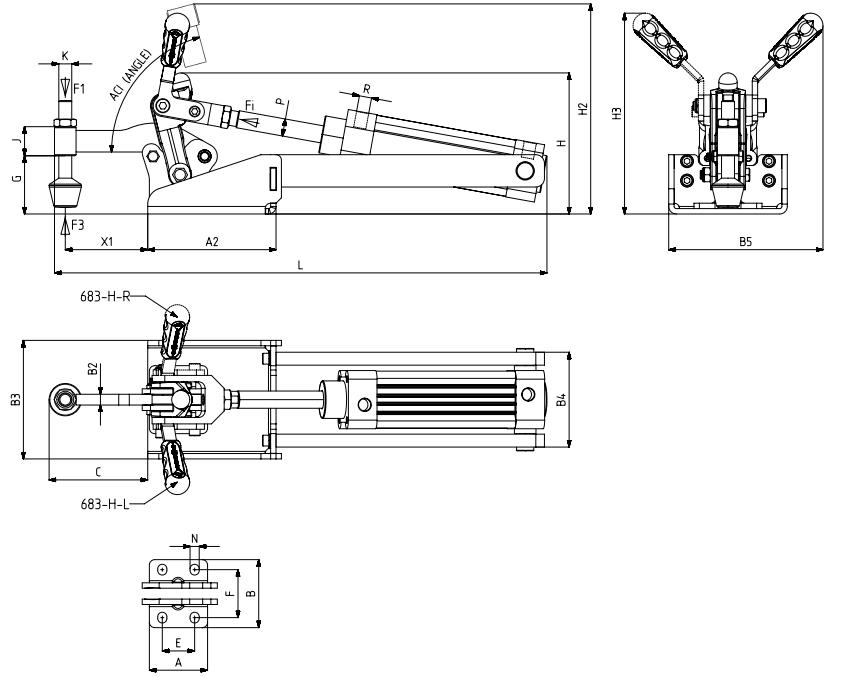


MODEL NO (KOLLU) / WITH HANDLE	F1 (N)	F3 (N)	Fİ (N)	Vn (dm ³)	AÇI (ANGLE) (± 5°)	AĞIRLIK (WEIGHT) (gr ±2)	BAR
683 - 4-H-L / ..H-R	1600	5600	750	1,28	70°	4980	6
683 - 6-H-L / ..H-R	2000	11000	1150	2,5	70°	8130	6

F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) , 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 Pistonlu - Modüler - Kollu
Body Mounting Base: Horizontal Piston -
Modular with Handle



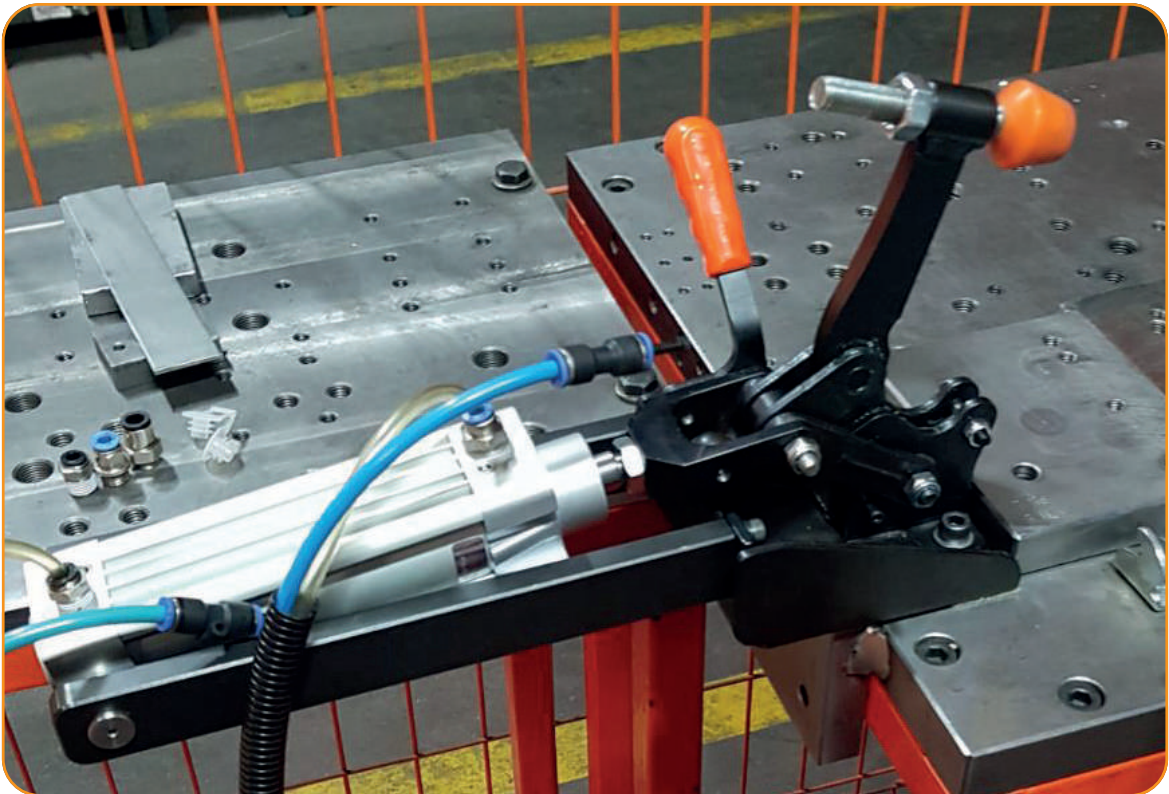
683

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6011

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Pistonlar çift etkili, manyetik ve yastıklıdır.

Pneumatic cylinders are double acting, magnetic and cushioning.

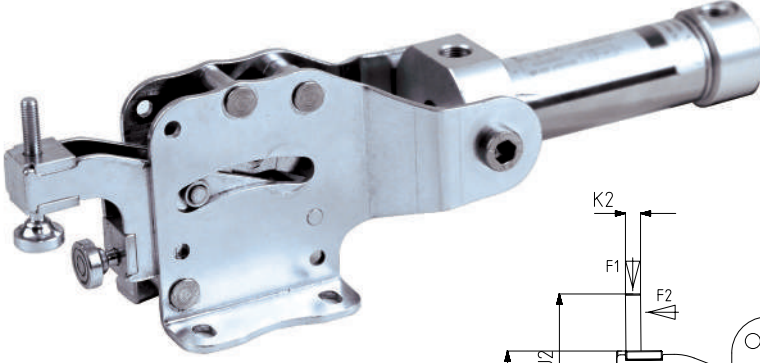
MODEL NO (KOLLU) / WITH HANDLE	A	A2	B	B2	B3	B4	B5	C	E	F	G	H	H2	H3	J	K	L	N	X1	P	R	PİSTON Ø	PİSTON STROK
683 - 4-H-L / ..H-R	54	119	63	10	100	88	138	91,5	30	44,5	54	131	195	186	27	M12	457	8,5 x 10	76,5	Ø 16	G1/4	40	80
683 - 6-H-L / ..H-R	70	151	74	12	112	100	188,5	112	45	52	73	164	245	256	32	M12	549	10,5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

691



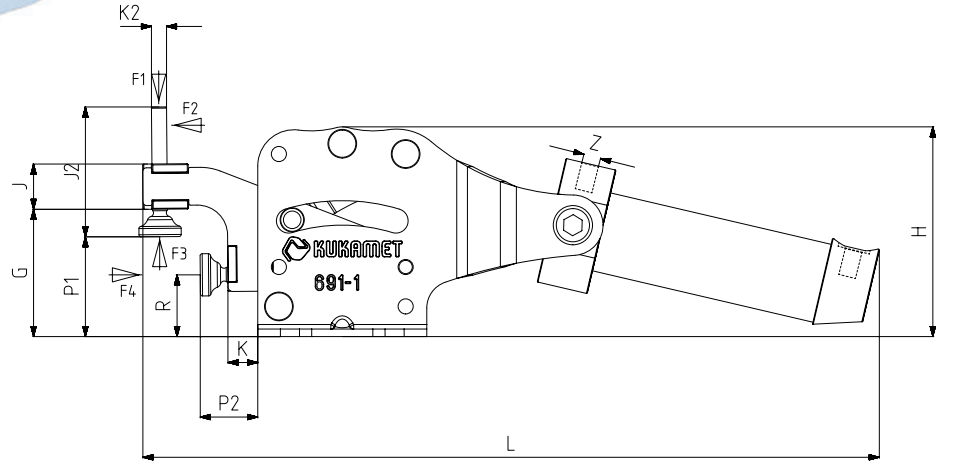
MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fİ (N)	Vn (dm ³)	AĞIRLIK (WEIGHT) (gr ± %2)	BAR
691 - 1	1000	1000	1000	1000	300	0,25	650	6
691 - 2	2000	2000	2000	2000	500	0,51	1150	6
691 - 3	3000	3000	3000	3000	750	1,04	2400	6

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



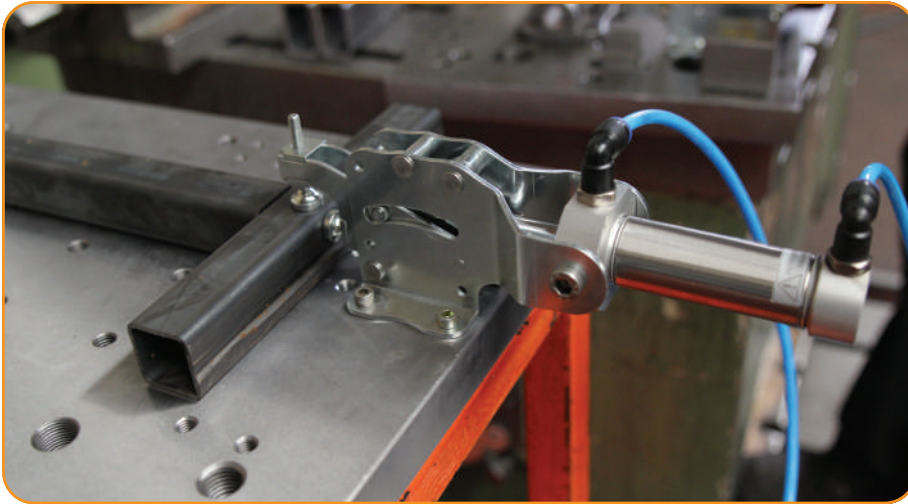
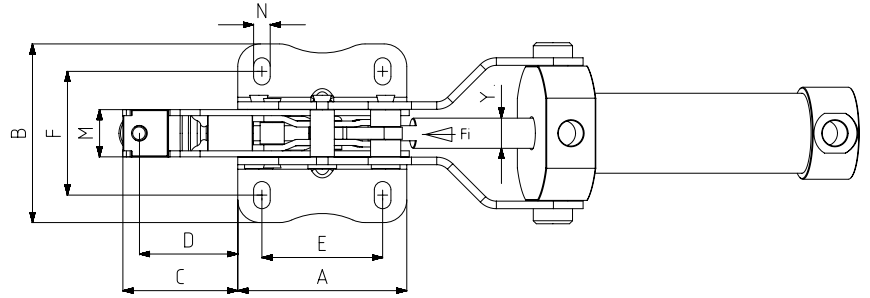
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Sayfa/Page: 51



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Sayfa/Page: 89

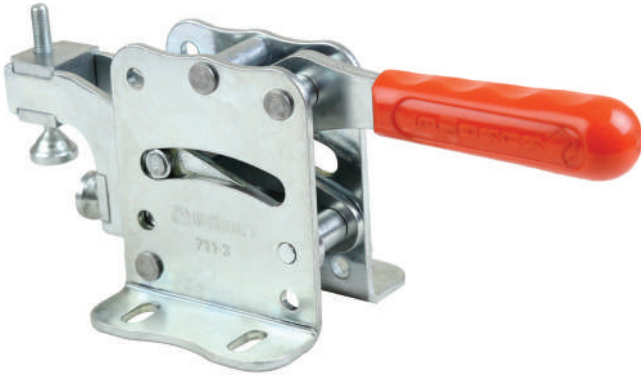


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Sayfa/Page: 107

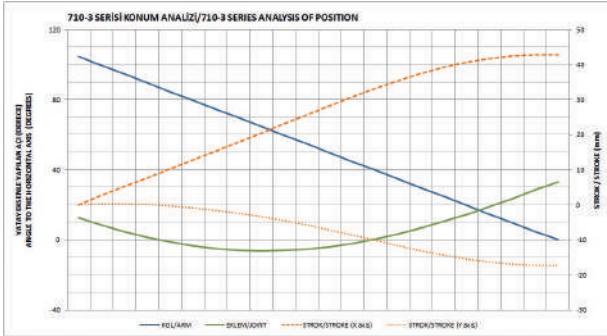


MODEL NO	A	B	C	D	E	F	G	H	J	J2	K	K2	L	M	N	P1 min.	P1 max.	P2 min.	P2 max.	R	Y	Z	PİSTON Ø
691 - 1	56	59,5	38	32,5	40	41	42	70	15	43	10	M5	244	16	5,5 x 9	15	33	19	37	20,5	10	G 1/8	25
691 - 2	75	79,5	48	41	50	56	52	88	20	53,5	12	M6	291	20	6,5 x 13	24	41	22	39	24,5	12	G 1/8	32
691 - 3	90	101,5	58	50	50	71	62	105	25	64,5	15	M8	356,5	30	8,5 x 18,5	23	49	28	54	29	16	G 1/8	40

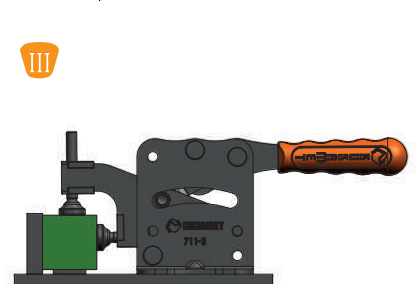
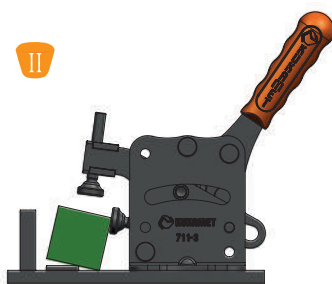
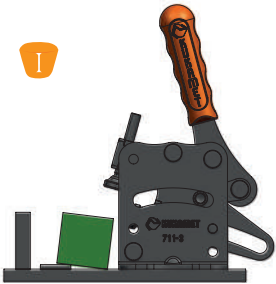
711



Ayak Tipi: Yatay Tabanlı
Body Mounting Base: Horizontal

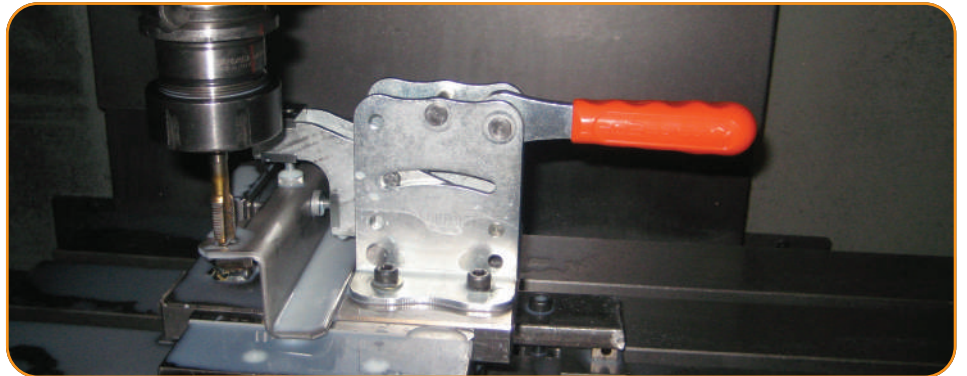
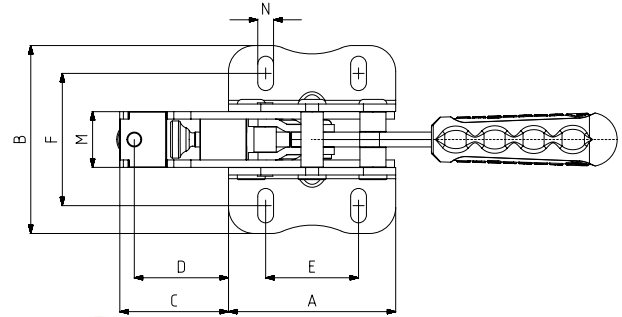
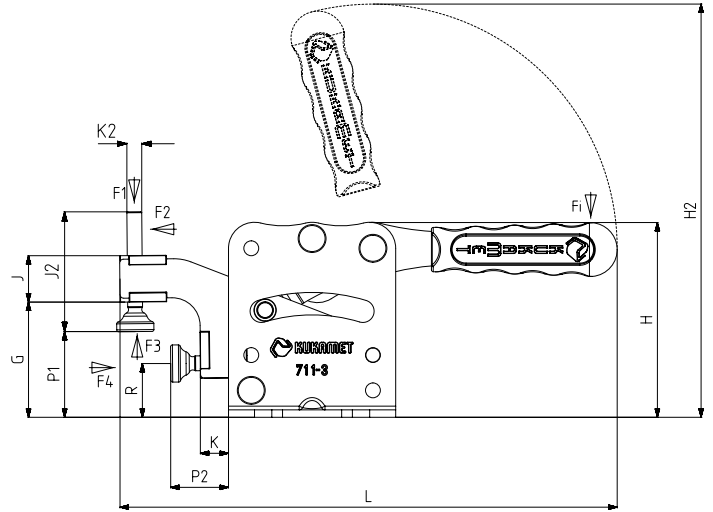


Sıkma Pozisyonları
Clamping Positions



MODEL NO	F1 (N)	F2 (N)	F3 (N)	F4 (N)	Fi		AĞIRLIK (WEIGHT) (gr ±%)
					VERİM (YIELD) (F1:Fi)	VERİM (YIELD) (F2:Fi)	
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)



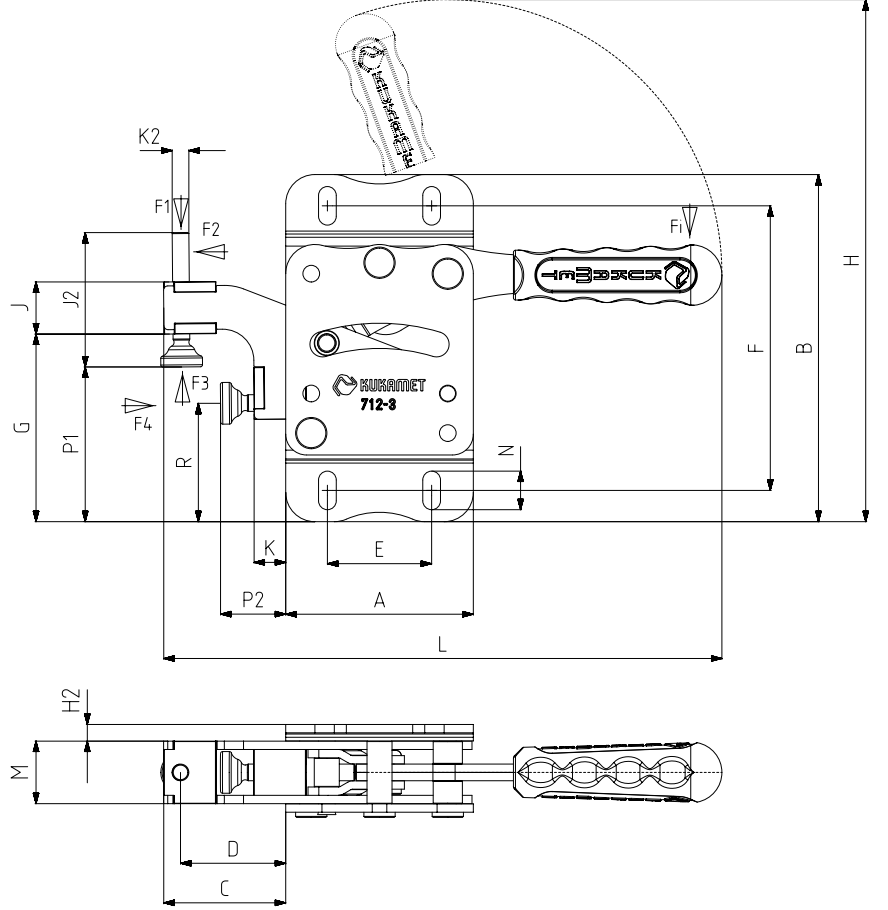
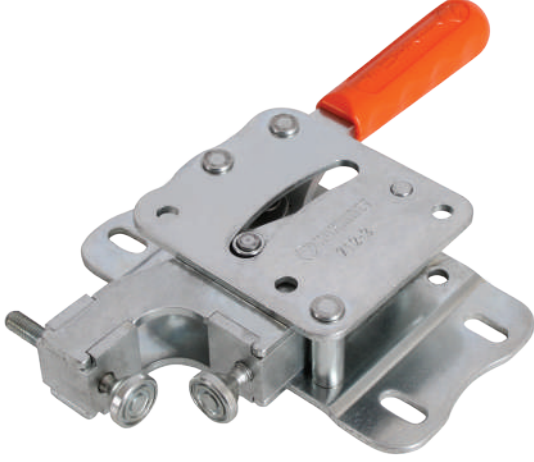
MODEL NO	A	B	C	D	E	F	G	H	H2	J	J2	K	K2	L	M	N	P1 min.	P1 max.	P2 min.	P2 max.	R
711-1	56	59,5	38	32,5	40	41	42	70	148	15	43	10	M5	173	16	5,5 x 9	15	33	19	37	20,5
711-2	75	79,5	48	41	50	56	52	88	186	20	53,5	12	M6	223	20	6,5 x 13	24	41	22	39	24,5
711-3	90	101,5	58	50	50	71	62	105	222	25	64,5	15	M8	268	30	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	400
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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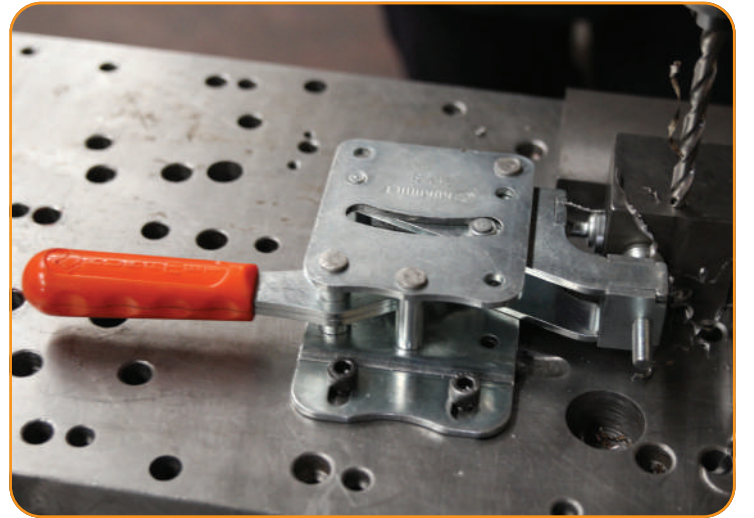
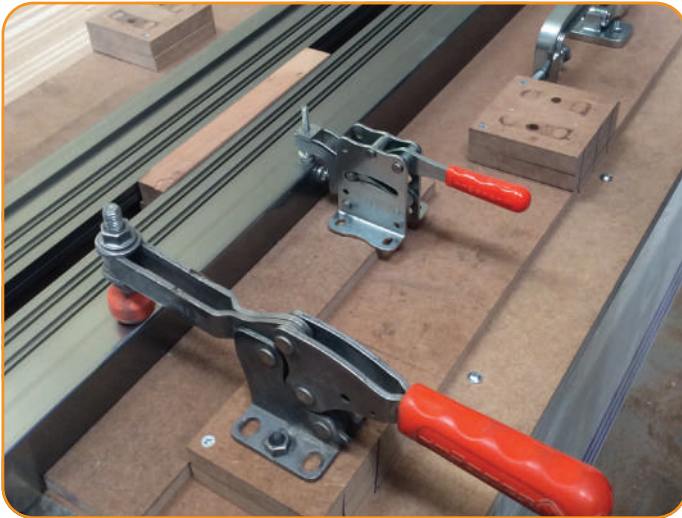
691

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Sayfa/Page: 107

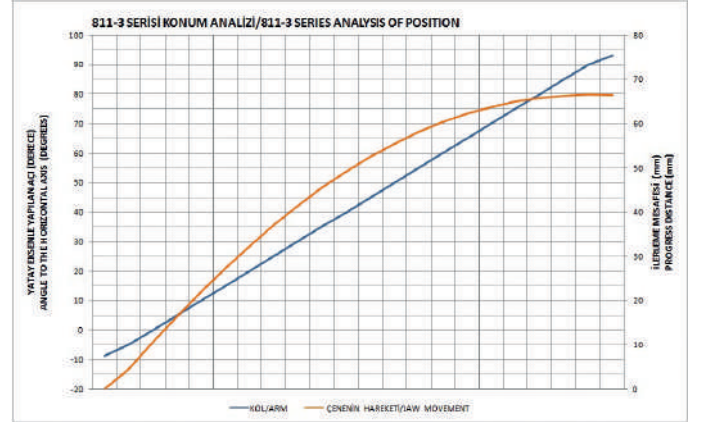


MODEL NO	A	B	C	D	E	F	G	H	H2	J	J2	K	K2	L	M	N	P1 min.	P1 max.	P2 min.	P2 max.	R
712 - 1	56	106,5	38	32,5	40	88	58,5	164,5	8	15	43	10	M5	173	16	5,5 x 9	31,5	49,5	19	37	37
712 - 2	75	136,5	48	41	50	113	75	209	9	20	53,5	12	M6	223	20	6,5 x 13	47	64	22	39	47,5
712 - 3	90	166,5	58	50	50	136,5	90	250	10	25	64,5	15	M8	268	30	8,5 x 18,5	51	77	28	54	57



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

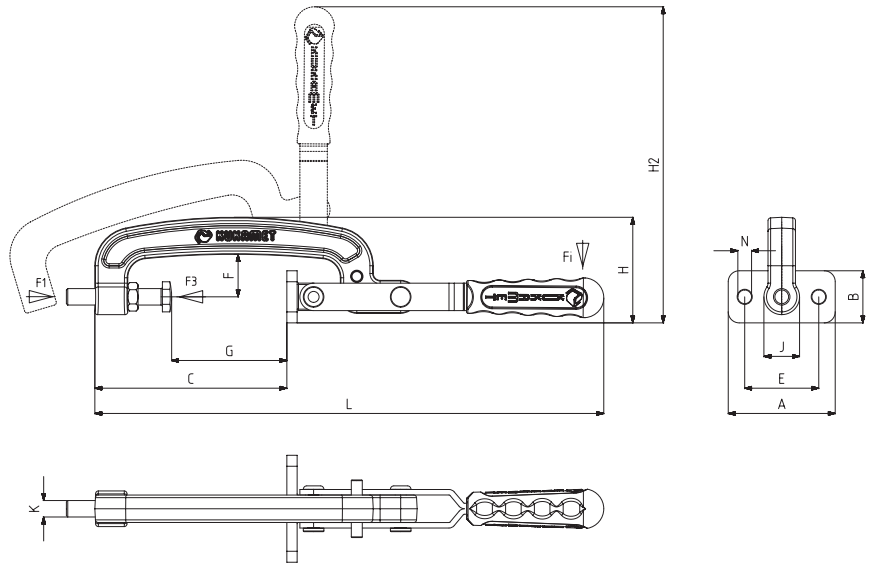
F1 : BASKI KUVVETİ (EXERTING FORCE) , F3 : TUTMA KAPASİTESİ (HOLDING CAPACITY) ,
Fi : UYGULAMA KUVVETİ (APPLIED FORCE)



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.



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841

Sayfa/Page: 111

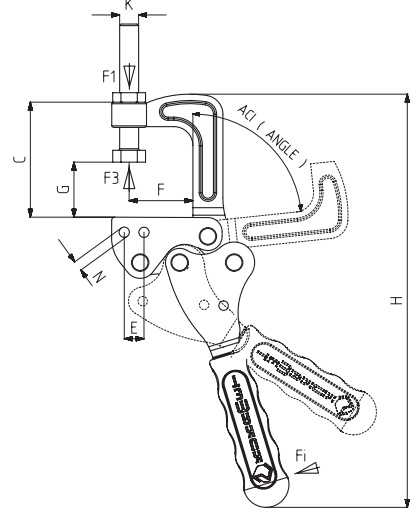
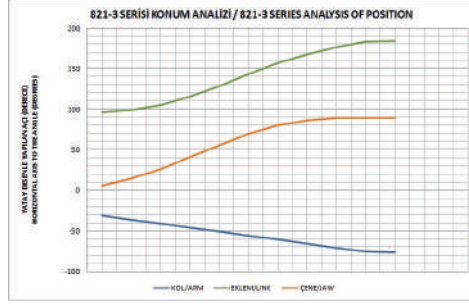


MODEL NO	A	B	C	E	F	G Min.	G Max.	H	H2	J	K	L	N
811-1	58	38	77	40	24	23	50	60	204	16	M8	282	Ø 8
811-2	68	38	110	45	28	46	80	69	217	20	M10	330	Ø 8
811-3	78	38	140	54	31	53	100	77	230	26	M12	372	Ø 10


821


MODEL NO	F1 (N)	F3 (N)	Fi	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
821-2	3500	4000	9:1	85°	800

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



841-D



844

Sayfa/Page: 112

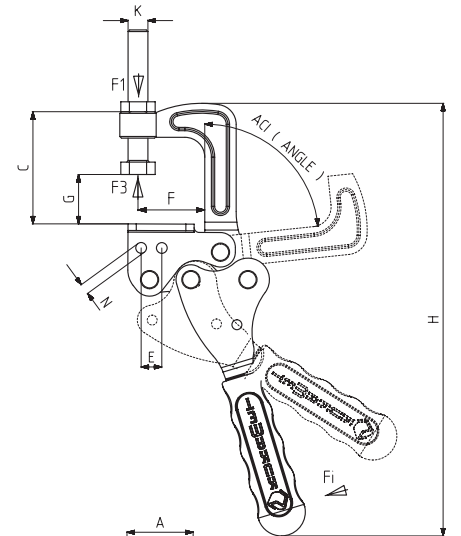
Sayfa/Page: 113

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	AÇI (ANGLE) (± 5 °)	AĞIRLIK (WEIGHT) (gr ±%2)
			VERİM (YIELD) (F1:Fi)		
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



831



843

Sayfa/Page: 111

Sayfa/Page: 113

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


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

F1 : BASKI KUVVETİ (EXERTING FORCE)



Ayak Tipi: Yatay Tabanlı

Body Mounting Base: Horizontal

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

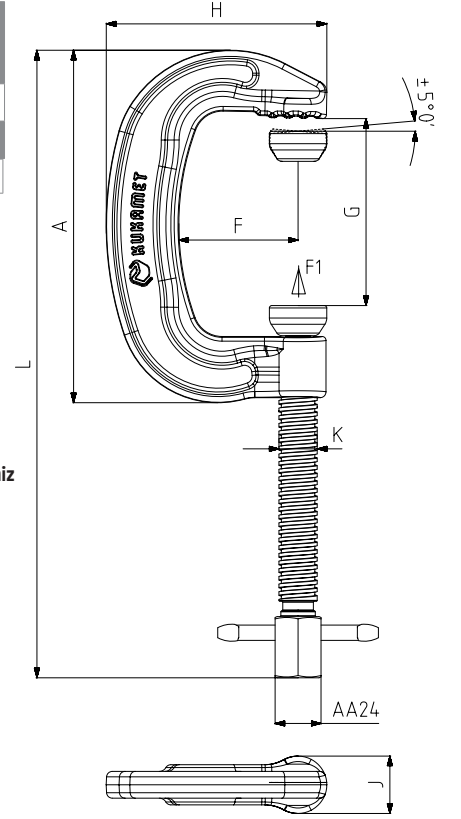
Product Features;
 The products are strong and suited for heavy duty applications.
 The clamping jaw is made of hot forged steel.
 The remaining parts are made of galvanized steel for corrosion resistance.



541-L
Sayfa/Page: 84



822
Sayfa/Page: 110



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

841


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.

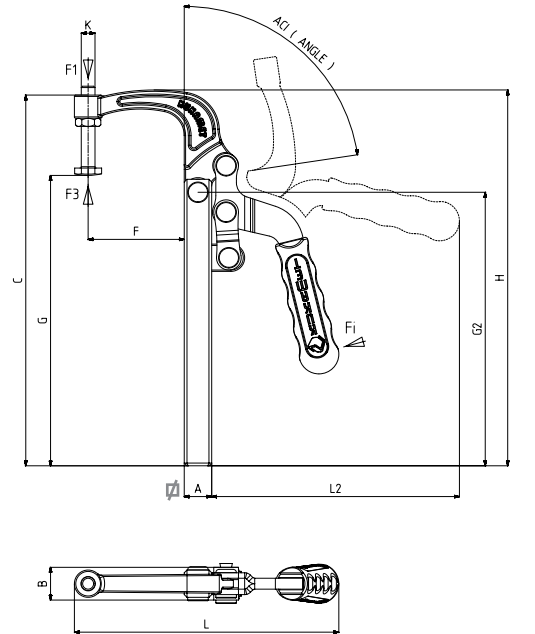
Product Features;
 The products are strong and suited for heavy duty applications.
 The clamping jaw is made of hot forged steel.
 The remaining parts are made of galvanized steel for corrosion resistance.



841-D
Sayfa/Page: 112



846
Sayfa/Page: 114



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

841-D

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.



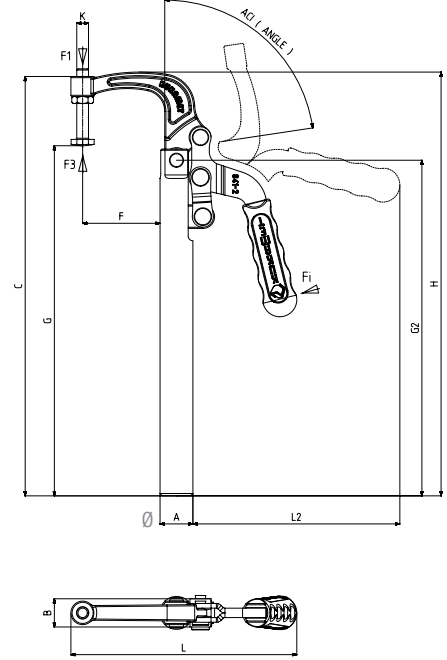
831

Sayfa/Page: 111



841

Sayfa/Page: 111



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

Ayak Tipi: Yatay Tabanlı
 Body Mounting Base: Horizontal

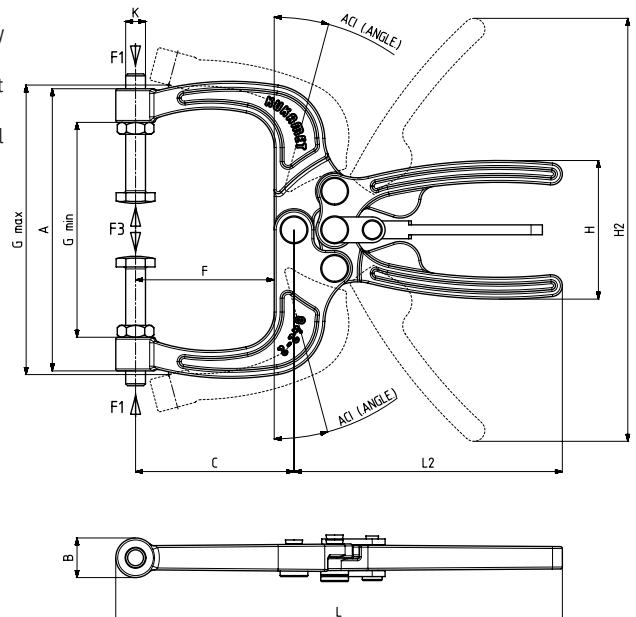
Ürün özellikleri;
 Ağır iş uygulamalarında kullanıma uygun mukavemetli ürünlerdir.
 Clamp çenesi ve kolu sıcak dövme çelikten yapılmıştır.
 Diğer parçaları çelik malzemeden üretilmiş ve korozyon direnci için galvaniz kaplama yapılmıştır.

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

Sayfa/Page: 111



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



MODEL NO	BASKI KUVVETİ F (N)	STROK	AĞIRLIK (WEIGHT) (gr ± %2)
843-1	6000	37	650
843-3	10000	65	3200
843-5	13000	82	5986

Manuel Ağır İş

Manuel Heavy Duty

Ayak Tipi: Yuvarlak Gövde

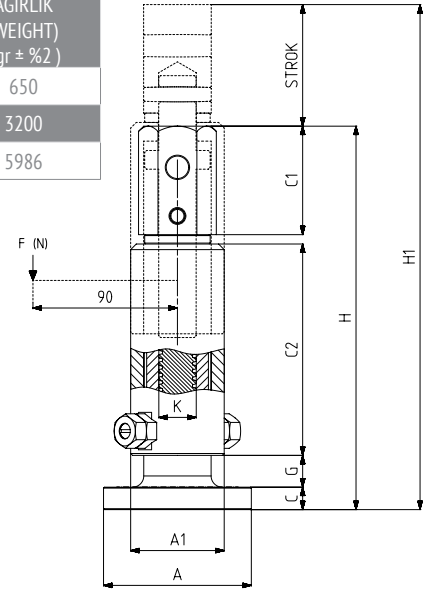
Body Mounting Base: Round Body

Ürün özellikleri;

Yüksek ön baskı kuvveti gerektiren yerlerde sabitleme için kullanılan ürünlerdir. Gövde yapısı yüksek kaliteli malzemeden üretilmiş olup trapez profilli güç vidası kullanılarak daha akıcı ve hızlı hareket etme imkânı elde edilirken, uzun ömürlü yüksek mukavemetli sabitleme elemanıdır. Ürün baş kısmı altıgen olarak üretilip daha yüksek sıkıştırma için havali tabancalar, büyük anahtar veya alternatif uzun kollu tork anahtarları ile belirlenen bölgelerde azami sıkıştırma kuvvetleri elde edilmektedir. Üst hareketli gövde üzerine müşteri isteğine göre kaynatılan baskı çenesi/çeneleri ile istenildiği takdirde birden fazla bölgeye baskı yapılabilir. Talep edildiğinde ürün tersine de çalıştırılarak sıkışan parçaları çıkarılabilir niteliğinde de sahiptir.

Product Features;

These are the products which are used for fixing in places that require high pre-pressure force. The body structure is made of high quality material so it is a long-lasting, high-strength fastening element, while it is possible to move more fluently and quickly because of using the trapezoidal profile power screw. The product head is produced as hexagonal so maximum compression forces are obtained in the areas determined by air guns, large wrenches or alternative long-armed torque wrenches for higher compression. If desired, multiple zones can be pressed with the pressure jaw(s) welded on the upper movable body according to the customer's request. If it is requested, the product can also be operated in reverse to remove the jammed parts.



831

Sayfa/Page: 111

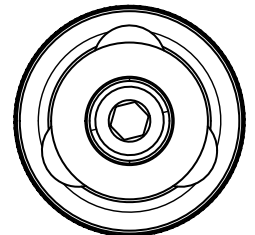
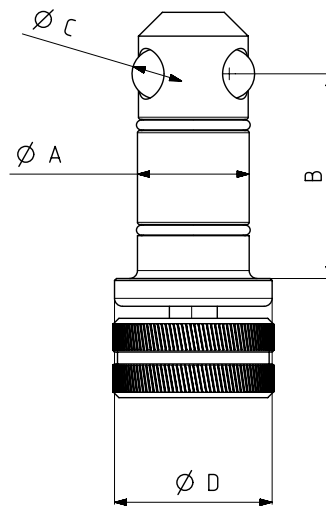
MODEL NO	A	A1	B	C	C1	C2	E	F	G min.	G max.	H	H1	K	N
843-1	Ø50	Ø30	21,6	7	35	69	39	39	9	46	123	160	TR12	Ø6,5
843-3	Ø79	Ø55	36	12	58	113	65	65	17	82	205	270	TR20	Ø10,5
843-5	Ø98	Ø70	41	15	58	144	83	83	18	100	240	322	TR28	Ø12,5



Delikli Kaynak Masaları İçin Kolay Bağlama Aparatı

Easy Mounting Bracket For Perforated Welding Tables

MODEL NO	KESME KUVVETİ (NEWTON)	GERİLME KUVVETİ (NEWTON)	SIKMA TORKU (NEWTON METRE)	AĞIRLIK (WEIGHT) (gr ± %2)
844-1	50000	10000	10	100
844-2	130000	15000	15	325
844-3	200000	25000	25	535



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6031 Sayfa/Page: 133

MODEL NO	A	B	C	D
844-1	Ø16	24,5	6,75	22,5
844-2	Ø22	37	9,9	31,5
844-3	Ø28	51,5	12,7	40

845



new

Delikli Kaynak Masaları İçin Kolay Bağlama Aparatı
Easy Mounting Bracket For Perforated Welding Tables



843

Sayfa/Page: 113



844

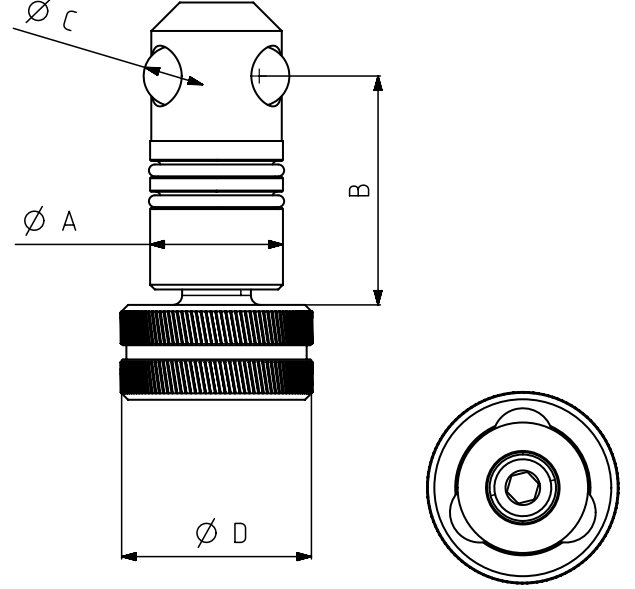
Sayfa/Page: 113



846

Sayfa/Page: 114

MODEL NO	KEŞME KUVVETİ (NEWTON)	GERİLME KUVVETİ (NEWTON)	SIKMA TORKU (NEWTON METRE)	AĞIRLIK (WEIGHT) (gr ± %2)
845-1	50000	10000	10	100
845-2	100000	15000	15	260
845-3	200000	25000	25	425



MODEL NO	A	B	C	D
845-1	Ø16	25-27	6,75	22,5
845-2	Ø22	34-37	9,9	35
845-3	Ø28	42-47	12,7	40

846



new

Delikli Kaynak Masaları İçin Clamp Bağlama Aparatı
Clamp Mounting Bracket For Perforated Welding Tables



843

Sayfa/Page: 113



844

Sayfa/Page: 113



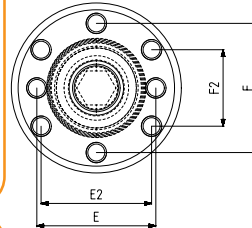
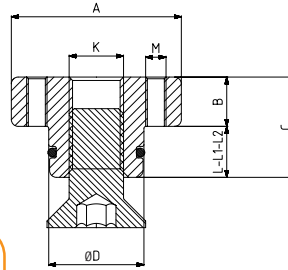
845

Sayfa/Page: 114

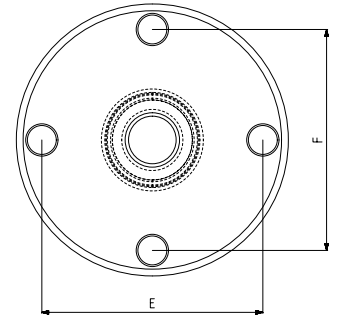


6031

Sayfa/Page: 133



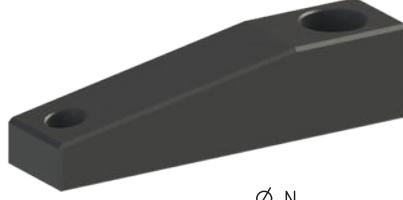
846-1 / 846-2 / 846-3



846-4 / 846-5

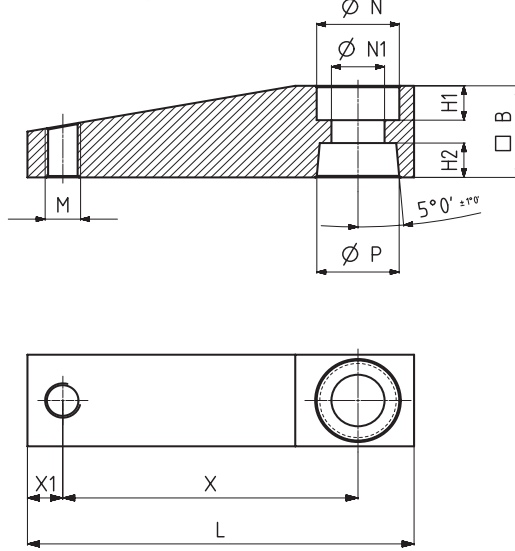
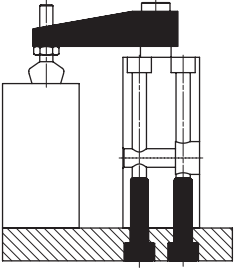
KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	C	D	E	E2	F	F2	K	L	L1	L2	M
846-1	111-211-511-531-3	225	Ø50	14,5	29,5	Ø16	35	32,5	38	22,5	M10	15	30	45	M6
846-2	111-211-511-531-3	245	Ø50	14,5	29,5	Ø22	35	32,5	38	22,5	M12	15	30	45	M6
846-3	111-211-511-531-3	280	Ø50	14,5	29,5	Ø28	35	32,5	38	22,5	M16	15	30	45	M6
846-4	843-3	565	Ø80	14,5	29,5	Ø28	65		65		M16	15	30	45	M10
846-5	843-5	885	Ø100	14,5	29,5	Ø28	80		80		M16	15	30	45	M12

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	214
6010-1-50	6012-6013-6014-6016-50	25	9	10	105	M12	18,5	10,5	20	80	10	371



6010-2



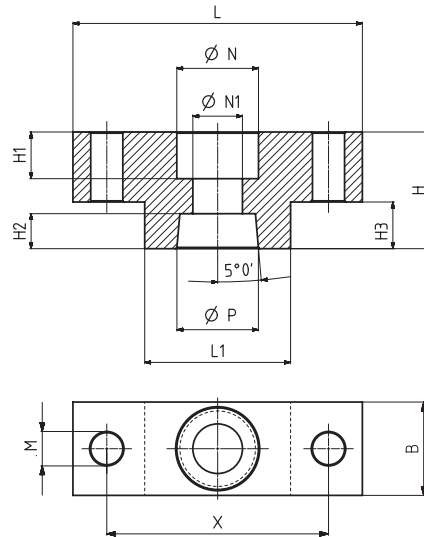
Sıkma Kolu Adaptörü Squeezing Arm Adapter

NOT:

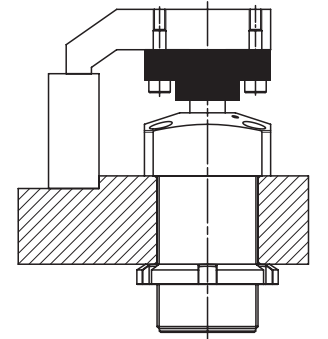
- Çelik malzemeden üretilmiş ve korozyon direnci için fosfat kaplama yapılmıştır.
- Özel yapıdaki sıkma kollarının montajı için kullanılır.

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	148
6010-2-50	6012-6013-6014-6016-50	25	30	14	10	12	65	30	9	18,5	10,5	20	48	225

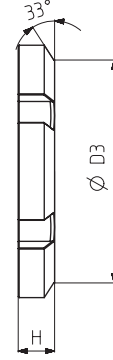
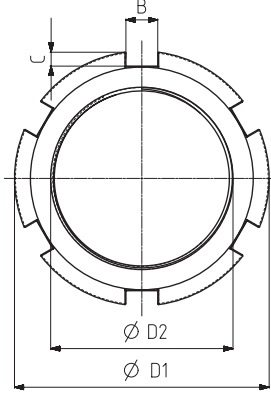
1-) Tek bir sıkıştırma kolu ve piston mili arasında bağlantı elemanı olarak montaj.

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

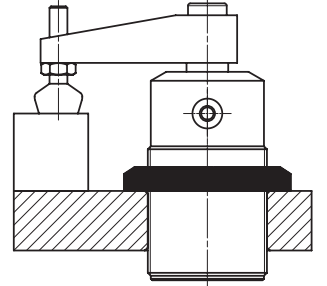
6010-3



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



Montaj seçenekleri
Mounting options.

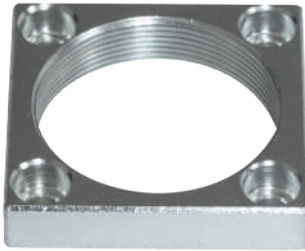


- 1-) Gövdeyi fiştür üzerine sabitlemek için yukarıdan bağlantı somunu ile montaj.
- 2-) Sıkmak için kullanılacak anahtar DIN 1810 A

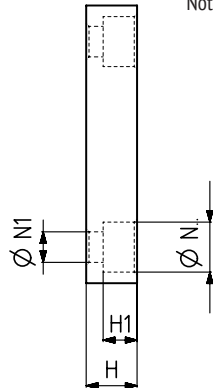
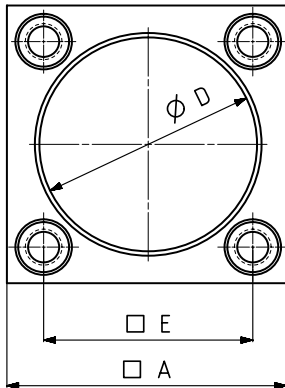
- 1-) Mounting with connection nut from above locking swing clamp on fixture.
- 2-) The key, will be used for squeeze DIN 1810 A

KOD	MODEL NO	B	C	ØD1	ØD2	ØD3	H	AĞIRLIK (WEIGHT) (gr ±%)
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	90
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	142

6010-4



Bağlantı Flanşı
Connection Flange



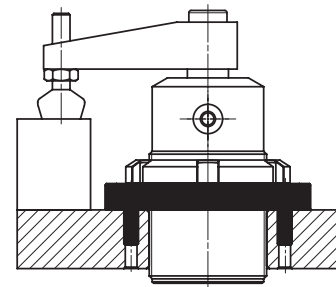
- NOT:**
- Çelik malzemeden üretilmiştir ve korozyon direnci için galvaniz (Cr3) kaplama yapılmıştır.
Avantajları :
- Fiştür üzerine dış açılmasına gerek kalmadan montaj imkanı sağlar.

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.

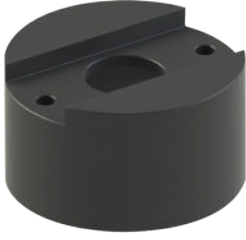


KOD	MODEL NO	A	E	ØD	H	H1	ØN	ØN1	AĞIRLIK (WEIGHT) (gr ±%)
6010-4-25	6013-6014-6015-25	50	37	M 40 x 1,5	10	6	9	5,5	83
6010-4-32	6013-6014-6015-32	60	45	M 50 x 1,5	12	7	11	6,5	124
6010-4-40	6013-6014-6015-40	70	50	M 55 x 1,5	12	7	11	6,5	209
6010-4-50	6013-6014-6015-50	80	58	M 65 x 1,5	15	9	13	8,5	320

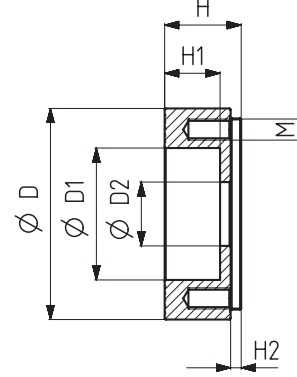
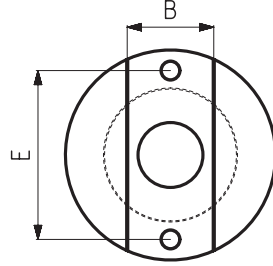
- 1-) Döner tip pnömatik bağlantı elemanını flanş içine vidalayarak montaj.
- 2-) Gövdeyi fiştür üzerine kilitlemek için bağlantı somunu ile montaj.
- 3-) Flanş üzerindeki bağlantı delikleri kullanılarak montaj.

- 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.

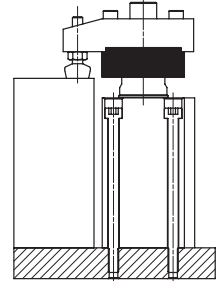
6010-5



Koruma Adaptörü
Protection Adapter (For Piston Rod)



Montaj seçenekleri
Mounting options.



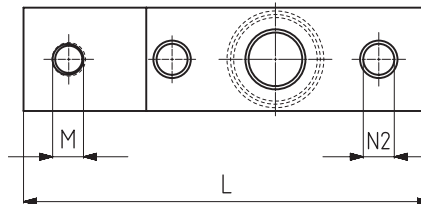
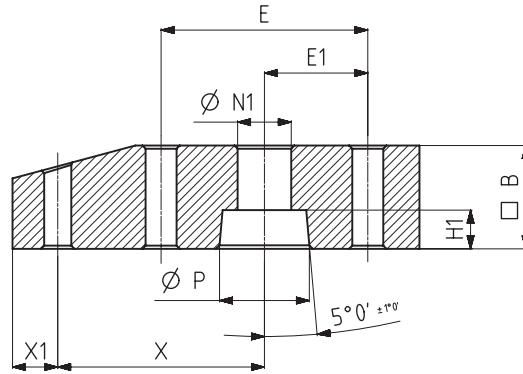
1-) Sadece 6011 numaralı ürünlerde kullanılmaya uygundur.
1-) Can be used for only 6011 series products.

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	64
6010-5-50	6011-50	25,8	46,5	60	39	20,1	33	24	5	M6	150

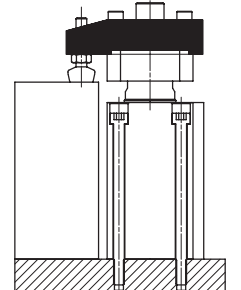
6010-6



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	255
6010-6-50	6011-50	25	46,5	23,25	10	105	M10	12,5	6,5	20	65	10	420

6010-7



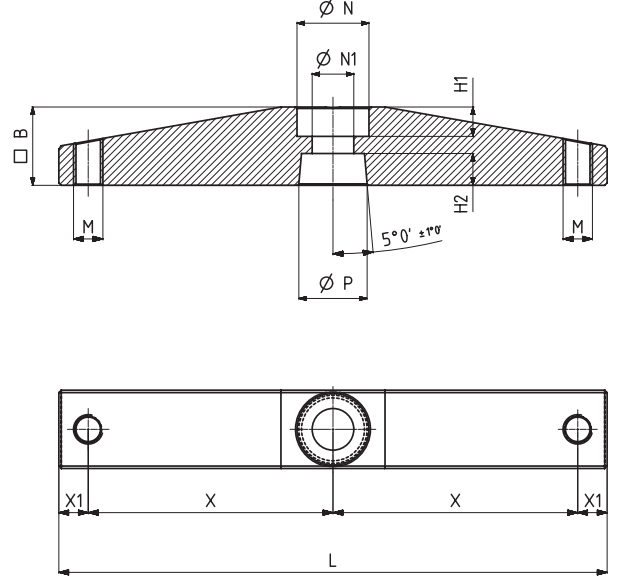
Sıkma Kolu Squeezing Arm

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

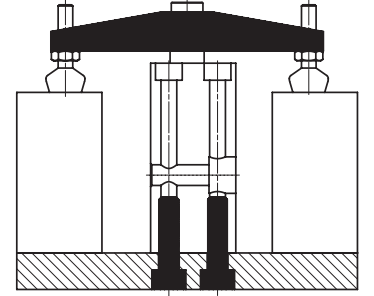
Aksesuarlar : (fiyata dahil değildir)
1-) Baskı ucu (911,912,913,914,915,916)

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	ØN	ØN1	ØP	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	157
6010-7-32	6012-6013-6014-6016-32	20	7	9	140	M8	14,7	8,5	16	60	10	331
6010-7-40	6012-6013-6014-6016-40	20	7	9	160	M8	14,7	8,5	16	70	10	395
6010-7-50	6012-6013-6014-6016-50	25	9	10	180	M12	18,5	10,5	20	80	10	645

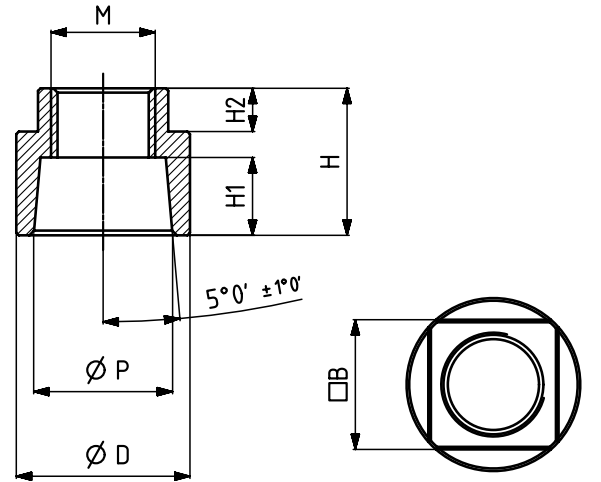
6010-8



Sıkma Kolu Adaptörü Squeezing Arm Adapter

NOT:
- Çelik malzemeden üretilmiştir 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	ØP	AĞIRLIK (WEIGHT) (gr ± %2)
6010 - 8 - 25	6012-6013-6014-6016 - 25	13	18	15	6,5	5	M10	14	15
6010 - 8 - 32-40	6012-6013-6014-6016 - 32 - 40	15	20	17	9	5	M12	16	20
6010 - 8 - 50	6012-6013-6014-6016 - 50	18	25	25	10	6	M12	20	55

6017-06



new



Pnömatik Sıkma Mekanizması Pneumatic Squeezing Mechanism

NOT:

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

Aksesuarlar : (fiyata dahil değildir)

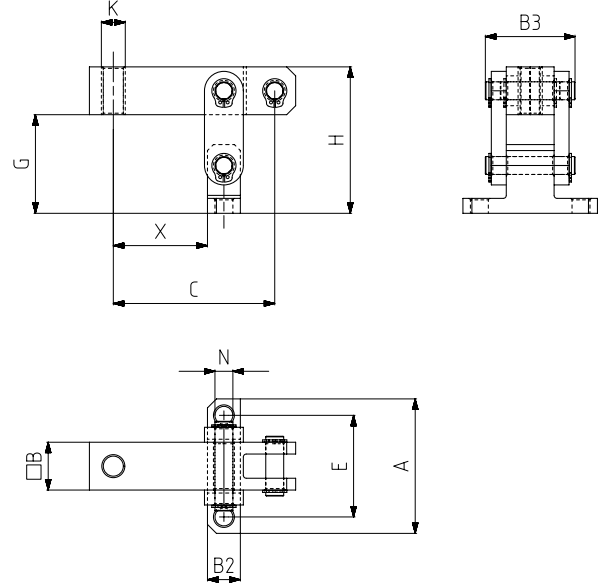
1-) Baskı ucu (911, 912, 913, 914, 915, 916)

NOTE:

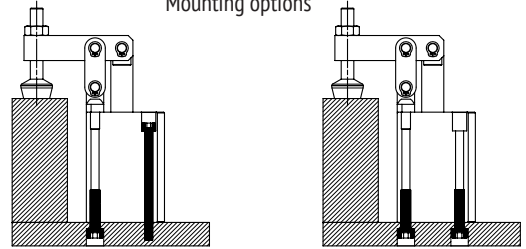
- Made of steel and phosphate coated for corrosion resistance.

Accessories : (not included in the price)

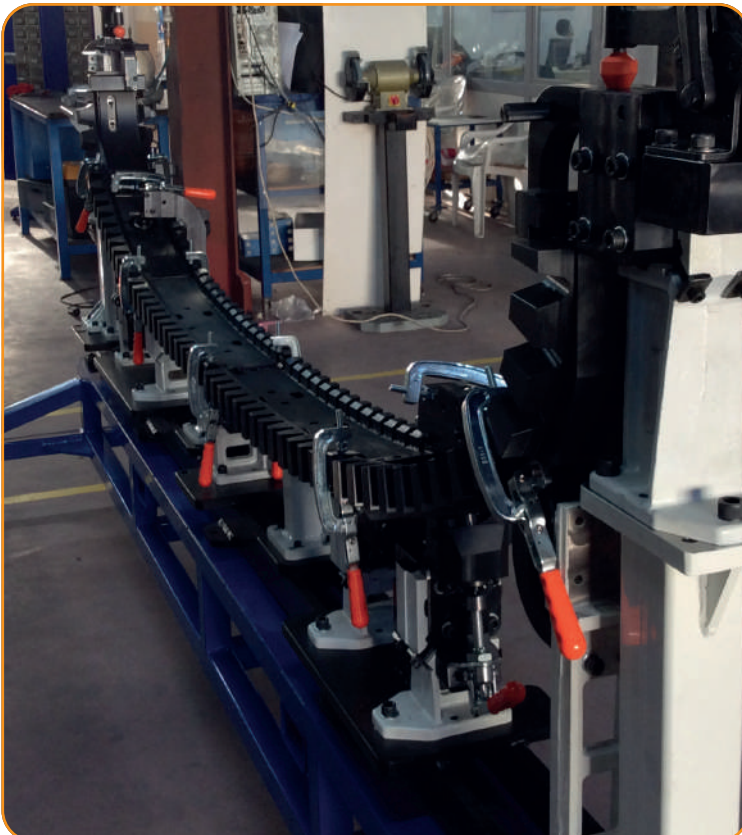
1-) Squeeze part(911,912,913,914,915,916)



Montaj seçenekleri Mounting options



KOD	MODEL NO	A	B	B2	B3	C	E	G	H	K	N	X	AĞIRLIK (WEIGHT) (gr ± %2)
6017 - 25 - 06	6017-25 / P6017-25	40	14	11	23,5	47	28,5	22	37	M6	6x6,5	27	130
6017 - 32 - 06	6017-32 / P6017-32	45	16	12	30	47	34	30,5	46,5	M8	Ø6	24	200
6017 - 40 - 06	6017-40 / P6017-40	55	16	15	30	52	40	31	47	M8	Ø8	24,5	210
6017 - 50 - 06	6017-50 / P6017-50	64	20	15	32	60	50	36	56	M10	Ø8	28,5	345



6011


MODEL NO	F1 (N)	Vn (dm ³)	STROK	AĞIRLIK (WEIGHT) (gr ±%)	BAR
6011 - 25R-90°/45°	200	0,1	28	360	6
6011 - 25L-90°/45°	200	0,1	28	360	6
6011 - 32R-90°/45°	300	0,23	26	600	6
6011 - 32L-90°/45°	300	0,23	26	600	6
6011 - 40R-90°/45°	600	0,4	26	780	6
6011 - 40L-90°/45°	600	0,4	26	780	6
6011 - 50R-90°/45°	900	0,96	38	1430	6
6011 - 50L-90°/45°	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 dm ³ AT 6 BAR)					

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

DÖNER TİP PNÖMATİK BAĞLANTI ELEMANI - KARE GÖVDE

- Silindir çift etkili ve manyetiktir.
- 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

Sayfa/Page: 121



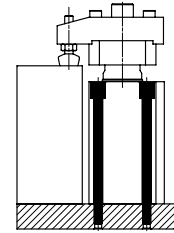
6017

Sayfa/Page: 126



6031

Sayfa/Page: 133



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	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	170	0,15	28	400	6
6012 - 25L-90°/45°	170	0,15	28	400	6
6012 - 32R-90°/45°	270	0,28	30	670	6
6012 - 32L-90°/45°	270	0,28	30	670	6
6012 - 40R-90°/45°	450	0,47	30	950	6
6012 - 40L-90°/45°	450	0,47	30	950	6
6012 - 50R-90°/45°	700	0,88	36	1600	6
6012 - 50L-90°/45°	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 dm ³ 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 eloksall kaplama yapılmıştır.
- Piston mili 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)

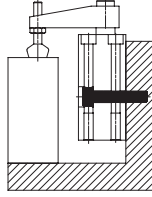
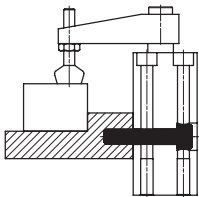
PNEUMATIC SWING CLAMP - BLOCK BODY



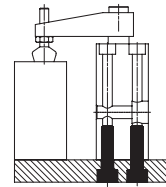
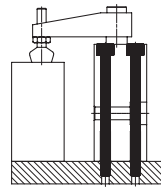
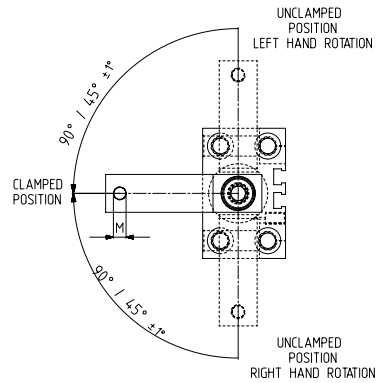
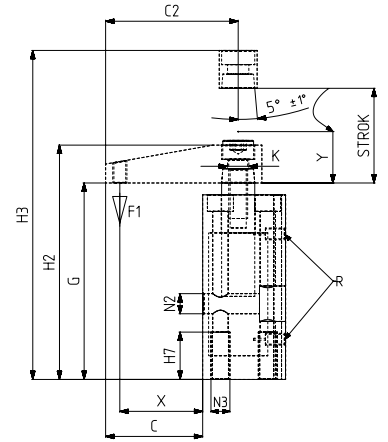
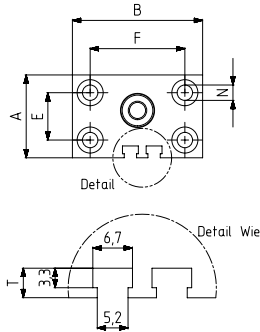
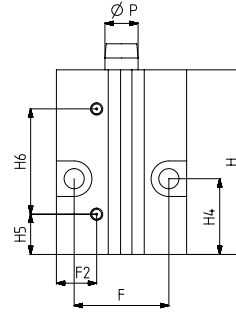
- Cylinder is double acting and magnetic.
 - The body is made of strength aluminum. Anodised for Corrosion resistance.
 - The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.
 - There are slots on the body, according to T type sensors, for monitoring 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 yüzeyindeki delikler kullanılarak montaj.
1- Mounting through to holes on the front and rear surface of body.



- 2-Gövde üst yüzeyindeki deliklerden imbus cıvata (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 yüzeyindeki, 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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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 yapabilir.
 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-90°/45°	170	0,14	28	300	6
6013 - 25L-90°/45°	170	0,14	28	300	6
6013 - 32R-90°/45°	270	0,28	30	480	6
6013 - 32L-90°/45°	270	0,28	30	480	6
6013 - 40R-90°/45°	450	0,47	30	560	6
6013 - 40L-90°/45°	450	0,47	30	560	6
6013 - 50R-90°/45°	700	0,88	36	1000	6
6013 - 50L-90°/45°	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 dm ³ 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 eloksallı kaplama yapılmıştır.
- Piston mili yüksek aşınma ve korozyon direnci için sert krom kaplama yapılmış ve parlatılmıştır.

Aksesuarlar : (fiyatı 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

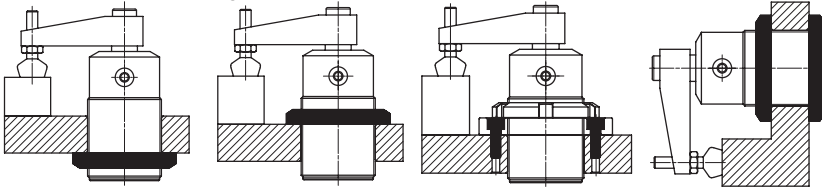
- Cylinder is double actin.
- The body is made of strength aluminum. Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.

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)

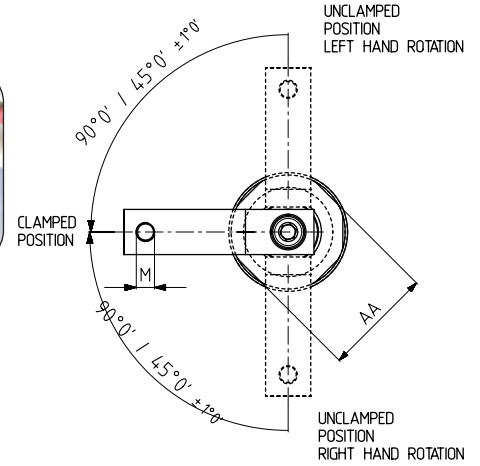
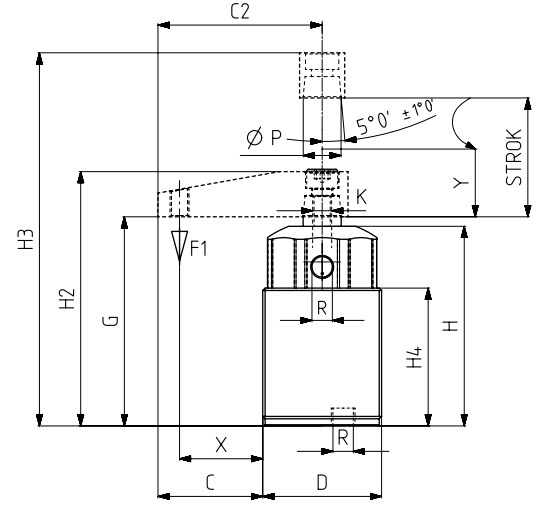


Montaj seçenekleri Mounting options



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-90°/45°	36	36	56	M 40 x 1,5	78	74	94	122	50	M8	M6	14	M5	30	12	25
6013 - 25L-90°/45°	36	36	56	M 40 x 1,5	78	74	94	122	50	M8	M6	14	M5	30	12	25
6013 - 32R-90°/45°	46	45	70	M 50 x 1,5	89	84	109	139	58	M8	M8	16	G1/8	35	12	32
6013 - 32L-90°/45°	46	45	70	M 50 x 1,5	89	84	109	139	58	M8	M8	16	G1/8	35	12	32
6013 - 40R-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	170	0,15	28	400	6
6014 - 25L-90°/45°	170	0,15	28	400	6
6014 - 32R-90°/45°	270	0,28	30	710	6
6014 - 32L-90°/45°	270	0,28	30	710	6
6014 - 40R-90°/45°	450	0,47	30	800	6
6014 - 40L-90°/45°	450	0,47	30	800	6
6014 - 50R-90°/45°	700	0,88	36	1160	6
6014 - 50L-90°/45°	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 eloksallı 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)



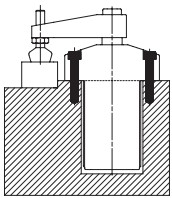
PNEUMATIC SWING CLAMP - FLANGE MOUNTING BODY

- Cylinder is double 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.

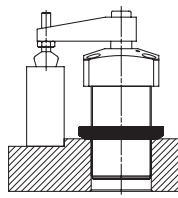
Accessories : (not included in the price)

- 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)

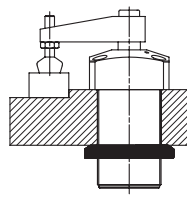
Montaj seçenekleri Mounting options



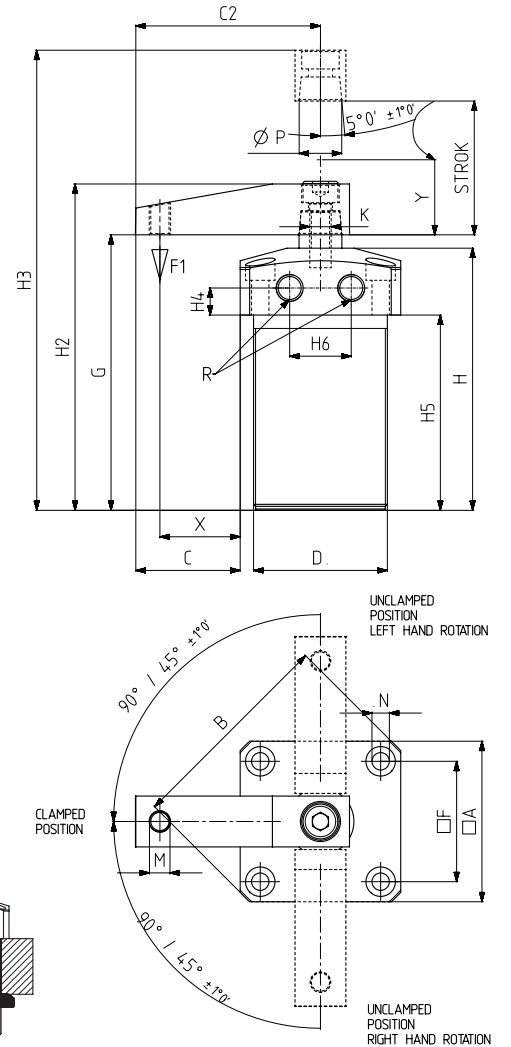
1-Flanş sayesinde imbus civata (DIN 912) ile yukarıdan montaj.
 1- Mounting from above with imbus bolt through the flange



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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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 yapılabilir.
 Note: Swing clamps can squeezing only during the "Y" stroke.

6015


MODEL NO	F1 (N)	Vn (dm ³)	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	1700	6
F1 : BASKI KUVVETİ (EXERTING FORCE)					
Vn , 6 BAR BASINÇTA ÇİFT HAREKET İÇİN HAVA TÜKETİM MİKTARIDIR (Vn , AIR CONSUMPTION PER DOUBLE STROKE IN dm ³ 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)

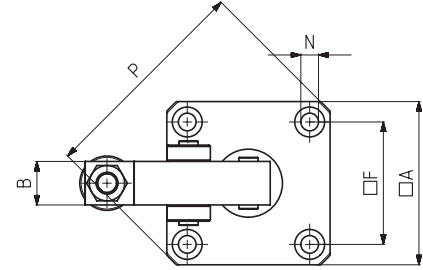
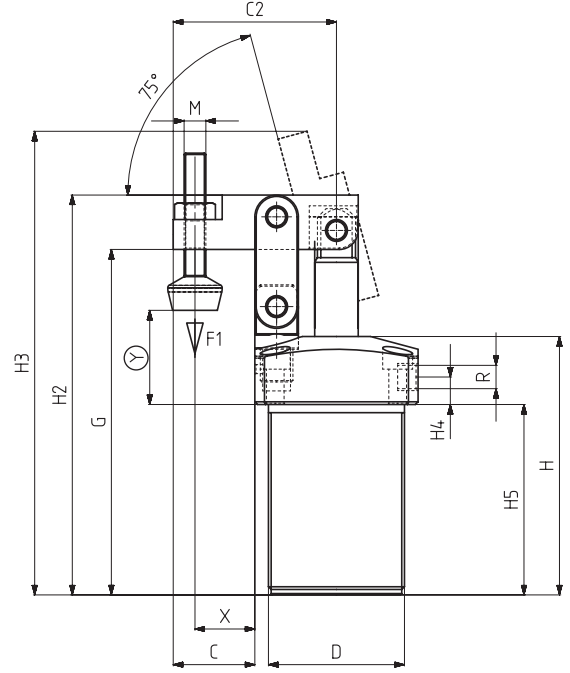
- 1-) Bağlantı somunu (6010-3)
- 2-) Bağlantı flanşı (6010-4)
- 3-) Baskı ucu (911,912,913,914,915,916)

PNEUMATIC TOGGLE CLAMP - LINK-FLANGE MOUNTING BODY

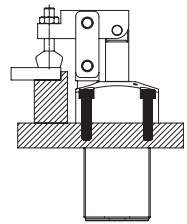
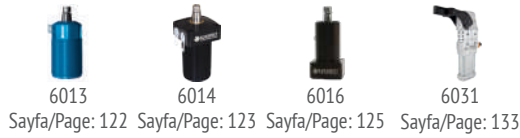
- Cylinder is double acting.
- The body is made of strength aluminum.
- Anodised for Corrosion resistance.
- The piston rod is hard chrome plated and shapely polished for to high wear resistance and corrosion resistance.
- Parts of the mechanism are made of steel and phosphate coated for corrosion resistance.

Accessories : (not included in the price)

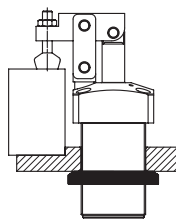
- 1-) Connection nut (6010-3)
- 2-) Connection flange (6010-4)
- 3-) Squeeze part (911,912,913,914,915,916)



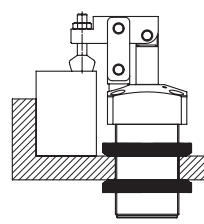
Montaj seçenekleri Mounting options



1-Flanş sayesinde imbus cıvata (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 ±%2)	BAR
6016 - 25R-90°/45°	170	0,15	28	430	6
6016 - 25L-90°/45°	170	0,15	28	430	6
6016 - 32R-90°/45°	270	0,28	30	750	6
6016 - 32L-90°/45°	270	0,28	30	750	6
6016 - 40R-90°/45°	450	0,47	30	840	6
6016 - 40L-90°/45°	450	0,47	30	840	6
6016 - 50R-90°/45°	700	0,88	36	1270	6
6016 - 50L-90°/45°	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 eloksallı 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)

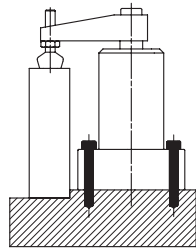


Montaj seçenekleri

Mounting options

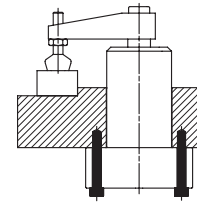
1-Flanş sayesinde imbus cıvata (DIN 912) ile yukarıdan montaj.

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)



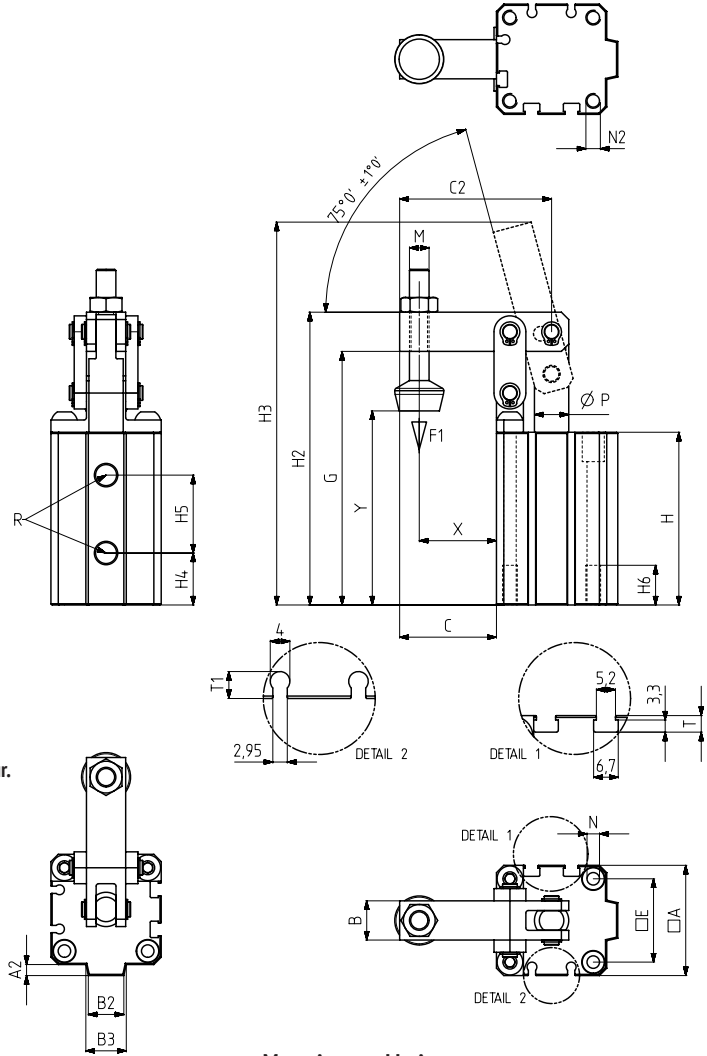
MODEL NO	A	B	C	C2	ØD	F	G	H	H2	H3	H4	H5	H6	K	M	ØN	P	R	X	Y	PİSTON Ø
6016 - 25R-90°/45°	50	66	31	56	40	37	92	87	108	136	16	62	45	M8	M6	5,5	14	M5	25	12	25
6016 - 25L-90°/45°	50	66	31	56	40	37	92	87	108	136	16	62	45	M8	M6	5,5	14	M5	25	12	25
6016 - 32R-90°/45°	60	80	40	70	50	45	105	100	125	155	21	68	53	M8	M8	6,5	16	G1/8	30	10	32
6016 - 32L-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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-90°/45°	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 (dm ³)	BASKI VİDASI (SQUEEZE SCREW)	AĞIRLIK (WEIGHT) (gr ± %2)	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 dm ³ AT 6 BAR)					



PNÖMATİK BAĞLANTI ELEMANI - LİNK KARE GÖVDE

- Silindir çift etkili ve manyettiktir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksal 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

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6012

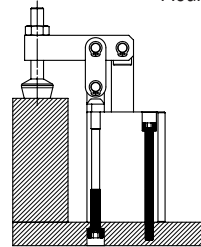
Sayfa/Page: 121



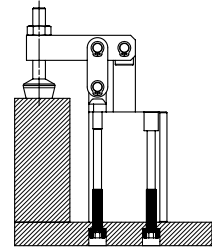
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Montaj seçenekleri Mounting options



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, klavuz 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	32,5	55	34	96	66,5	112	145	21,2	33,2	17	M8	Ø5,1	M6	14	G 1/8	4,5	5,5	24,5	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	G 1/8	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	G 1/8	6	6,5	28	63	98	50

P6017

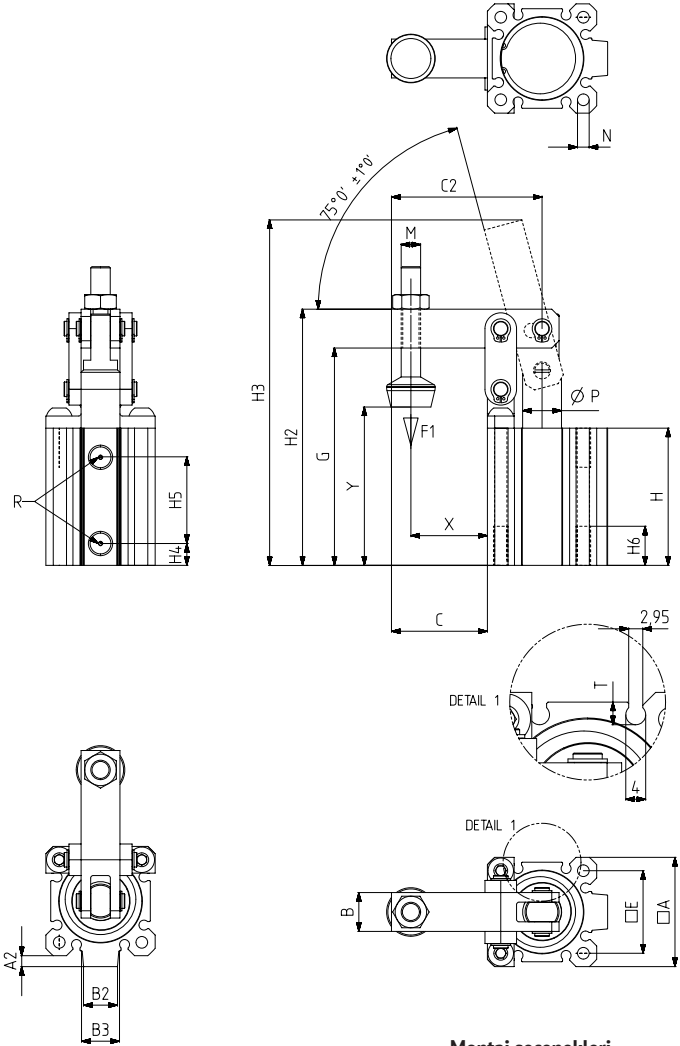


new



MODEL NO	F1 (N)	Vn (dm ³)	BASKI VİDASI (SQUEEZE SCREW)	AĞIRLIK (WEIGHT) (gr ±%)	BAR
P6017 - 25	100	0,13	M6 x 40	350	6
P6017 - 32	300	0,19	M8 x 50	512	6
P6017 - 40	500	0,38	M8 x 50	580	6
P6017 - 50	700	0,79	M10 x 70	990	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 manyetiktir.
- Gövde mukavemetli alüminyumdan üretilmiştir. Korozyon direnci için eloksal 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 "C" tip sensörlere uygun kanallar mevcuttur.

Aksesuarlar : (fiyata dahil değildir)

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

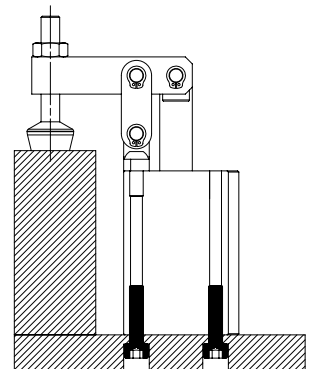
PNEUMATIC TOGGLE CLAMP - LINK SQUARE BODY

- 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 C type sensors, for monitoring the position of piston.

Accessories : (not included in the price)

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

Montaj seçenekleri Mounting options



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



6011

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6012

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6017

Sayfa/Page: 126



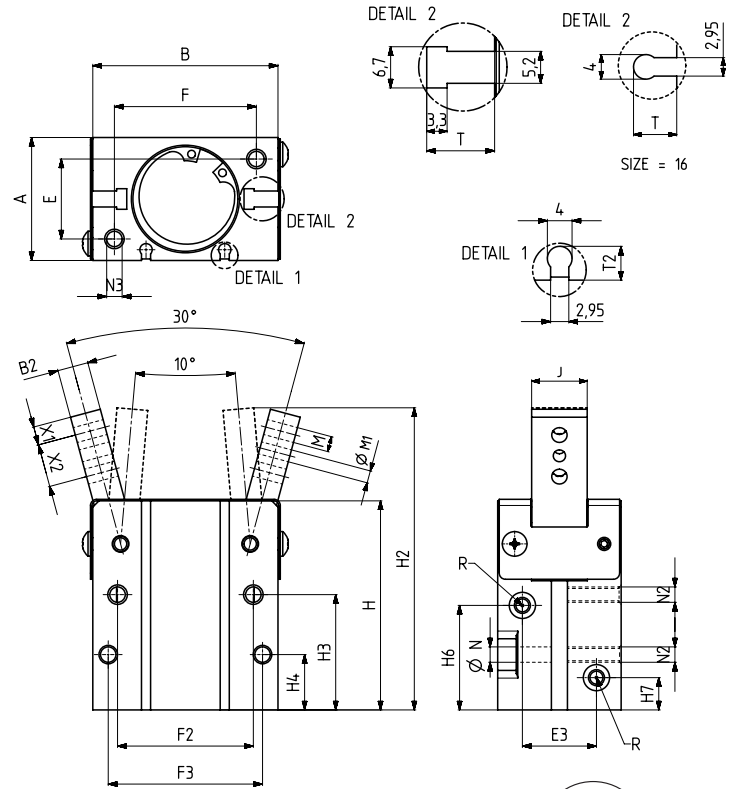
6031

Sayfa/Page: 133

MODEL NO	A	A2	B	B2	B3	C	C2	E	G	H	H2	H3	H4	H5	H6	M	N	P	R	T	X	Y Min	Y Max	PİSTON Ø
P6017 - 25	40		14	10	10,5	34	54	28	78,5	56,5	93,5	123	8	37,5	17	M6	M6	12	M5	4,6	27	52,5	68,5	25
P6017 - 32	45	4,5	16	14	15	32,5	55	34	87	56,5	103	136	9	35,5	17	M8	M6	14	G 1/8	4,6	24,5	51	73	32
P6017 - 40	52	5	16	15	16	34	60	40	99	68	115	144	11	42	17	M8	M8	14	G 1/8	4,25	26	65	86	40
P6017 - 50	64	7	20	19	20,5	38	70	50	114	78	134	164	11,5	50	17	M10	M8	20	G 1/8	5,7	28	62	97	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 ±%2)
			kapalı (closed)	açık (open)			kapalı (closed)	açık (open)				
6021 – 16	16	4	9 x P	12 x P	4	F = M / L x 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 (Ncm)												
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 manyettiktir.
- 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

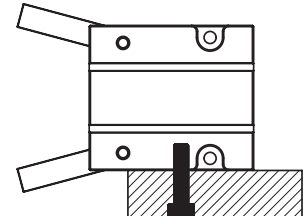
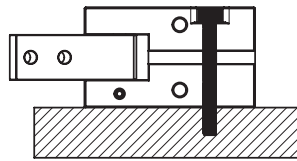
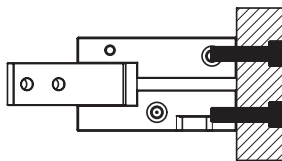
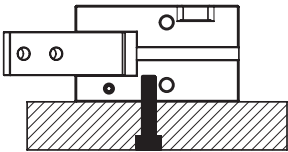
- Cylinder is double acting and magnetic.
- The body is made of strength aluminum.
- The gripper jaws made of steel and hardened.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.

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.



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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

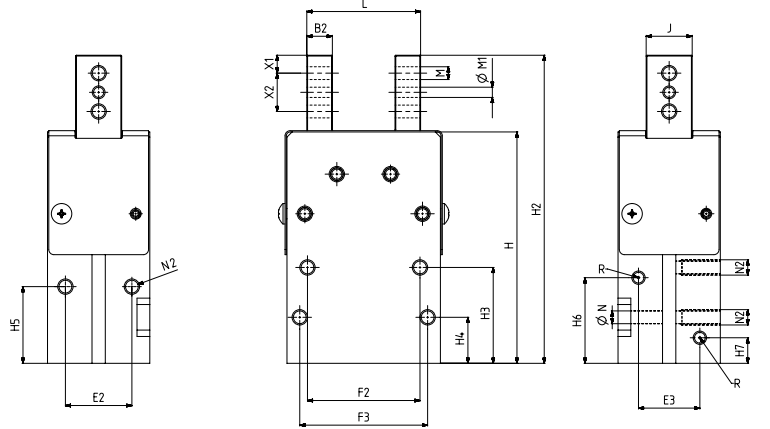
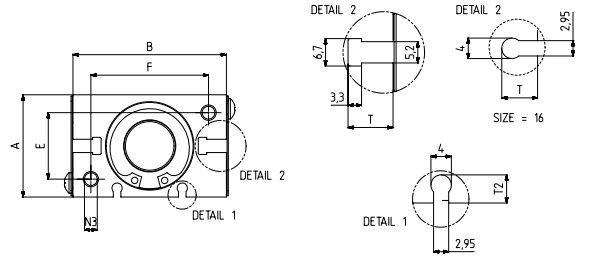
L : Tutma Uzaklığı / Length of Gripping (cm) M : Teorik Moment / Theorem Moment (N.cm)
 F : Sıkma Kuvveti / Holding Force (N) P : Uygulama Basıncı / Operation Pressure (bar)
 Sıkma Kuvvetleri : P = 5 bar basınç ile L = 3 cm tutma uzaklığı durumunda geçerlidir / Clamping forces are valid in case of P = 5 bar pressure with gripping length L = 3 cm

PNÖMATİK TUTUCU - DİKEY PARALEL HAREKET

- Silindir çift etkili ve 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.
- 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

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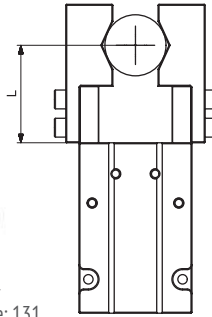
6023

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6024

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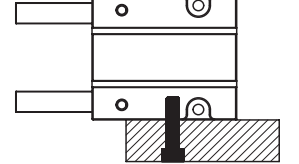
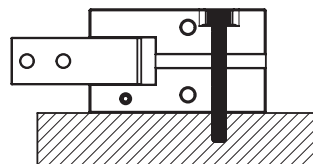
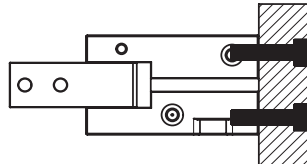
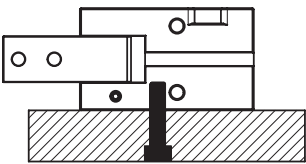


Montaj seçenekleri

* 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 uzunluğunda 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 manyettiktir.
- Gövde mukavemetli alüminyumdan üretilmiştir.
- Tutucu çeneler çelikten üretilmiş ve sertleştirilmiştir.
- Piston konumunu izlemek için, gövde üzerinde "T" tip ve "C" tip sensörlere uygun kanalları mevcuttur.

PNEUMATIC GRIPPER - 180° ANGLED MOTION

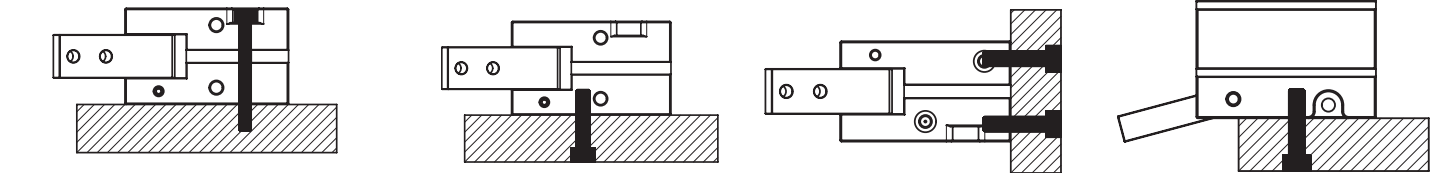
- Cylinder is double acting and magnetic.
- The body is made of strength aluminum.
- The gripper jaws made of steel and hardened.
- There are slots on the body, according to T type and C type sensors, for monitoring the position of piston.

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.



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 ±%)
				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

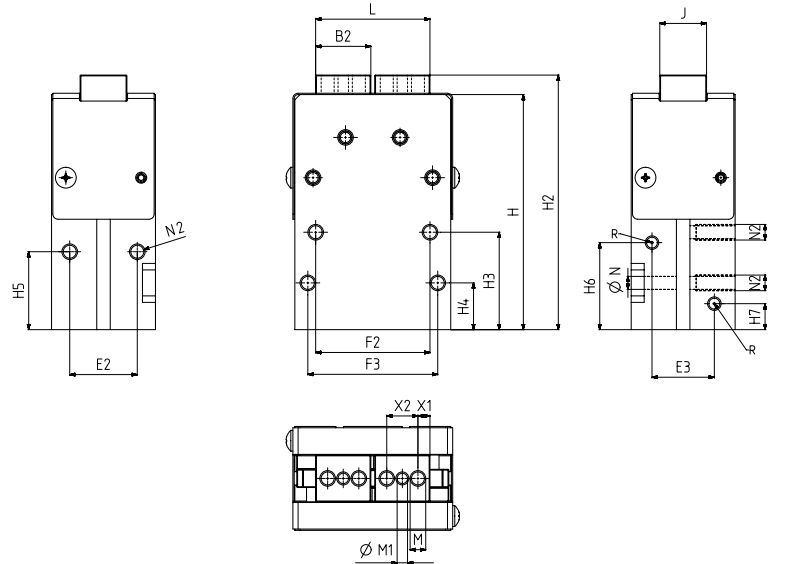
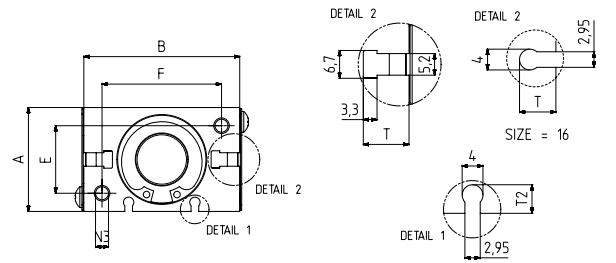
L : Tutma Uzaklığı / Length of Gripping (cm) M : Teorik Moment / Theorem Moment (N.cm)
 F : Sıkma Kuvveti / Holding Force (N) P : Uygulama Basıncı / Operation Pressure (bar)
 Sıkma Kuvvetleri : P= 5 bar basınç ile L= 3 cm tutma uzaklığı durumunda geçerlidir / Clamping forces are valid in case of P= 5 bar pressure with gripping length L= 3 cm

PNÖMATİK TUTUCU - YATAY PARALEL HAREKET

- Silindir çift etkili ve manyettiktir.
- 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 sağlanır.

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.

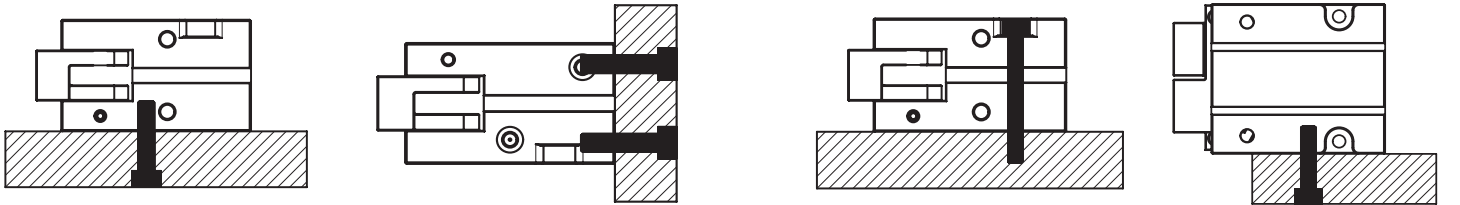


Montaj seçenekleri

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

Mounting options

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

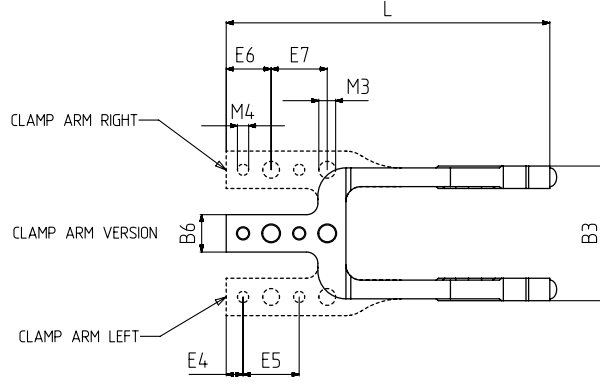
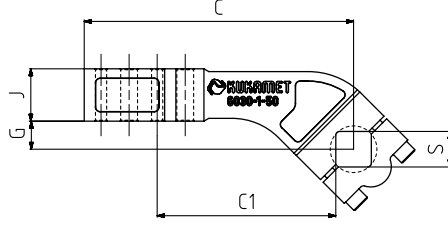


MODEL NO	A	B	B2	E	E2	E3	F	F2	F3	H	H2	H3	H4	H5	H6	H7	J	L Min	L Max	M	M1 (H7)	N	N2	N3	R	T	T2	X1	X2
6024 - 16	22	34	12	14	14	10,5	26	24	28	61	65	25,5	13	19	24	7	11	25	33	M3	2	3,3	M4	M4	M5	6,8	4	3	6
6024 - 20	26	45	16	16	16	15	35	30	36	73,5	78,5	28	14,5	22	27,5	8	12	32	44	M4	2,5	4,2	M5	M5	M5	10	4,2	4	8
6024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



Power Clamp Çene Power Clamp Jaw



ORDERING EXAMPLE :

6030-1-40 (CLAMP ARM CENTER)
6030-1-40-R (CLAMP ARM RIGHT)
6030-1-40-L (CLAMP ARM LEFT)
6030-1-50 (CLAMP ARM CENTER)
6030-1-50-R (CLAMP ARM RIGHT)
6030-1-50-L (CLAMP ARM LEFT)
6030-1-63 (CLAMP ARM CENTER)
6030-1-63-R (CLAMP ARM RIGHT)
6030-1-63-L (CLAMP ARM LEFT)

CLAMP ARM VERSION
CLAMP ARM LEFT

MODEL NO	AĞIRLIK (WEIGHT) (gr ± %2)
6030-1 - 40	570
6030-1 - 40-R	580
6030-1 - 40-L	580
6030-1 - 50	982
6030-1 - 50-R	1036
6030-1 - 50-L	1036
6030-1 - 63	1228
6030-1 - 63-R	1286
6030-1 - 63-L	1286



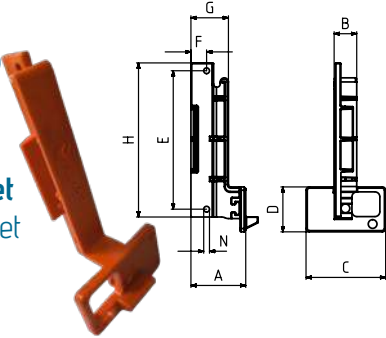
MODEL NO	B3	B6	C	C1	E4	E5	E6	E7	G	J	L	M3	M4	S
6030-1 - 40	63	18	117,5	82	7,5	20	17,5	20	15	22	138,5	7	6	16
6030-1 - 40-R	63	18	117,5	82	7,5	20	17,5	20	15	22	138,5	7	6	16
6030-1 - 40-L	63	18	117,5	82	7,5	20	17,5	20	15	22	138,5	7	6	16
6030-1 - 50	76	20	144	95,5	9	30	24	30	14	30	173	9	6	19
6030-1 - 50-R	76	20	144	95,5	9	30	24	30	14	30	173	9	6	19
6030-1 - 50-L	76	20	144	95,5	9	30	24	30	14	30	173	9	6	19
6030-1 - 63	86	20	144	94	9	30	24	30	14	30	177,5	9	6	22
6030-1 - 63-R	86	20	144	94	9	30	24	30	14	30	177,5	9	6	22
6030-1 - 63-L	86	20	144	94	9	30	24	30	14	30	177,5	9	6	22

6030-2

new



Braket
Bracket



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	C	D	E	F	G	H	N
150 - 810	6031-40	12	26	13	49,5	26,5	80	9,5	15,5	94	Ø3,5
150 - 719	6031-50-63	18	38	13,5	48	27	92	9,5	22,5	101	Ø3,5

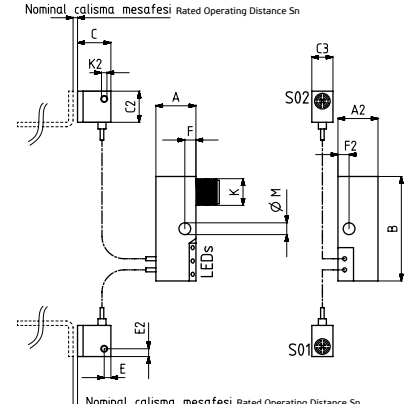
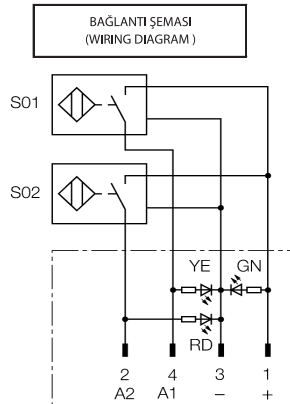
150-690



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 INDICATION)	ANAHTARLAMA DURUMU (SWITCHING STATE)	AĞIRLIK (WEIGHT) (gr ± %2)
TURCK NI2-Q9,5- AP6-0,1-FS4,4X3/ S304	150 - 690	2mm	≤ 2 %	-25...+70 °C	10...30VDC	≤ 150 mA	YEŞİL	SARI / KIRMIZI	32



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	F2	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	5	M12x1	M3	5,3

6031



new

PATENT NO: 2021/017142



IP 5X DUST PROTECTION
(IP 5X TOZ KARŞI KORUMA TESTİ)
TS 3033 EN 60529



Power clamp otomasyonlu veya otomasyonsuz fişstürlerde qerdirme, kenetleme, merkezlleme, delme, kaynaklama veya perçinleme gibi işlemler için kullanılan pnömatik bir üründür. Yıllardır farklı aşamalarda kullanılan bu ürünün odak noktası işlem sırasında sabitlenmek istenen parçayı tutma kabiliyeti ve otomasyona uygun olmasıdır.

KULLANIM ALANLARI:

- Otomotiv İmalatı
- Gıda Makinaları
- Tarım Makinaları
- Değirmen Makinaları
- Beyaz Eşya İmalatı başta olmak üzere her türlü kaynak, montaj ve boya hatlarında kullanılabilir.

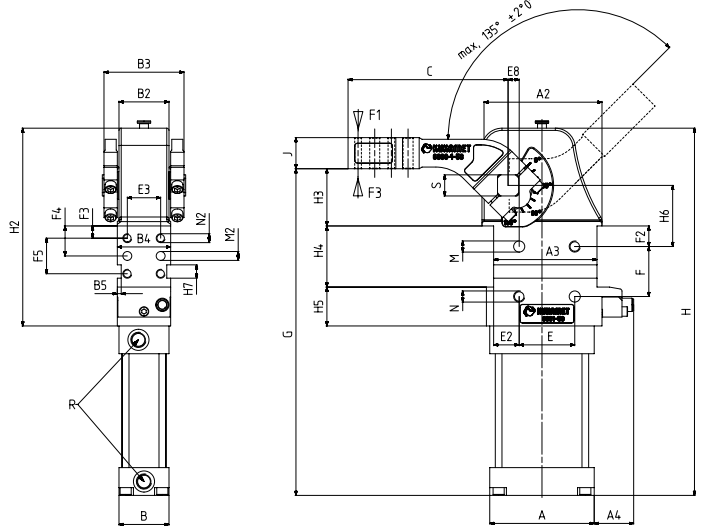
ÖZELLİKLERİ:

- Standart 80°C kadar ısıya dayanıklıdır. (Keçeler ve Oringler değışirse +200°C kadar ısıya dayanıklıdır.)
- 0-135° aç aralığı
- Boşluksuz çene baskısı
- Toz sızdırmazlık test sertifikası (IP5)
- Çürük tutmayan alüminyum gövde
- Sensör
- Hızlı ve kolay demonte ile bakım kolaylığı
- Sert eloksall kaplamalı oval silindir
- Çatıaklamalı üst kapak sayesinde mil doğrusalılığı
- Kapaktaki tapanın sökölmesi ve çene aç ayarının tek allen ile yapılması
- İşlenmiş yüzey sayesinde 4 yönden bağlantı kolaylığı
- Ayar civatasının özel tasarımı
- Çene boşluğu = 0,5mm'dir.

AYAR CIVATASININ ÖZELLİKLERİ:

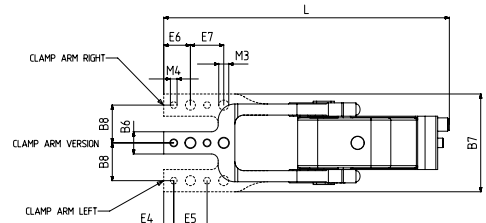
- Uç kısmındaki diş sayesinde mil ile bağlantısı güçlendirilmiştir
- Dişin başlangıcında bulunan kanala o-ring takılarak hava kaçadığı engellenmiştir.
- Piston mili ve ayar civatasının birbiri içinde dönmemesi için de pim kullanılarak bağlantı yapılmıştır. Bunun için ayar civatasına pim deliğı açılmıştır.

MODEL NO	SIKMA KUVVETİ (CLAMPING MOMENT) (at 5 bar) (Nm) F1	TUTMA KUVVETİ (HOLDING MOMENT) (Nm) F3	AĞIRLIK (WEIGHT) (gr ± %2)
6031 - 40	120	380	2300
6031 - 50	160	800	4210
6031 - 63	380	1500	5400



ORDERING EXAMPLE :

- 6031-40 (CLAMP ARM CENTER)
- 6031-40-R (CLAMP ARM RIGHT)
- 6031-40-L (CLAMP ARM LEFT)
- 6031-50 (CLAMP ARM CENTER)
- 6031-50-R (CLAMP ARM RIGHT)
- 6031-50-L (CLAMP ARM LEFT)
- 6031-63 (CLAMP ARM CENTER)
- 6031-63-R (CLAMP ARM RIGHT)
- 6031-63-L (CLAMP ARM LEFT)



Power clamp is a pneumatic product used for operations such as tensioning, clamping, centering, drilling, welding or riveting in fixtures with or without automation. The focus of this product, which has been used in different stages for years, is its ability to hold the part to be fixed during the process and its suitability for automation.

Specialized Applications / USAGE AREAS:

- Automotive Manufacturing
- Food Machinery
- Agricultural Machinery
- Milling Machines
- It can be used in all kinds of welding, assembling and painting lines, especially in White Goods Manufacturing

TECHNICAL FEATURES:

- Standard heat resistant up to 80°C heat resistant up to +200°C If the wiper rod seal and o-rings are changed
- 0-135° angle range
- Gapless jaw pressure
- Dust tightness test certificate (IP5)
- Slaq-free aluminum body
- Sensor
- Ease of maintenance with quick and easy disassembly
- Oval cylinder with hard anodized finishing
- Shaft straightness due to bearing top cover
- Removing the cap on the cover and adjusting the jaw angle with a single allen
- Thanks to the machined surface, ease of connection from 4 directions
- Special designed adjusting bolt
- Jaw gap is ± 0.5 mm.

FEATURES OF ADJUSTMENT BOLT:

- Thanks to the thread on the end, its connection with the shaft is strengthened
- Air leakage is prevented by attaching an o-ring to the channel at the beginning of the tooth.
- The connection is made using a pin, not to allow rotating of the piston rod and the adjustment bolt inside of each other for this purpose, a pin hole is drilled in the adjustment bolt.

MODEL NO	A	A2	A3	A4	B	B2	B3	B4	B5	B6	B7	B8	C	E	E2	E3	E4	E5	E6	E7	E8
6031 - 40	65	84,5	60	38	40	37	61	50	3,5	18	64	23	117,5	35,5	12	35	7,5	20	17,5	20	12
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
6031 - 63	112	111,5	93	32,5	52	52	86	54	3,5	20	94	37	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 - 40	25	13,5	7,5	20	25	236,5	260,5	134	40	40	30	38,5	8	22	214	Ø6	M6	Ø6	M6	7	6	G1/8	16
6031 - 50	45	18,5	11	27	32	293	330,5	178	50,5	55	35	55	12	30	257	Ø10	M10	Ø8	M8	9	6	G1/4	19
6031 - 63	45	18,5	11	27	32	302	345,5	184	50,5	55	35	55	12	30	266	Ø10	M10	Ø8	M8	9	6	G1/4	22



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MODEL NO	SIKMA KUVVETİ (CLAMPING MOMENT) (at 5 bar) (Nm) F1	TUTMA KUVVETİ (HOLDING MOMENT) (Nm) F3	AĞIRLIK (WEIGHT) (gr ± %2)
6031 - 40 - H	120	380	2600
6031 - 50 - H	160	800	4415
6031 - 63 - H	380	1500	5700



Power Clamp Kollu
Power Clamp Handle

IP 5X DUST PROTECTION
(IP 5X TOZA KARŞI KORUMA TESTİ)
TS 3033 EN 60529



Power clamp otomasyonlu veya otomasyonsuz fişturelerde gerdirme, kenetleme, merkezleme, delme, kaynaklama veya perçinleme gibi işlemler için kullanılan pnömatik bir üründür. Yıllardır farklı aşamalarda kullanılan bu ürünün odak noktası işlem sırasında sabitlenmek istenen parçayı tutma kabiliyeti ve otomasyona uygun olmasıdır.

KULLANIM ALANLARI:

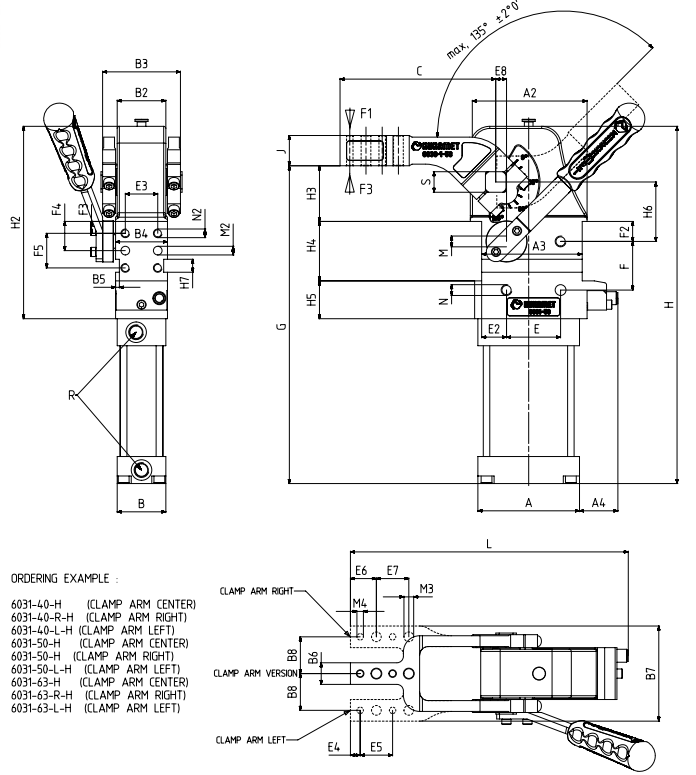
- Otomotiv İmalatı
- Gıda Makinaları
- Tarım Makinaları
- Değirmen Makinaları
- Beyaz Eşya İmalatı başta olmak üzere her türlü kaynak, montaj ve boyalı hatlarında kullanılabilir.

ÖZELLİKLERİ:

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- 0-135° açı aralığı
- Boşluksuz çene baskısı
- Toz sızdırmazlık test sertifikası (IP5)
- Cüruf tutmayan alüminyum gövde
- Sensör
- Hızlı ve kolay demonte ile bakım kolaylığı
- Sert eloksall kaplamalı oval silindir
- Yataklamalı üst kapak sayesinde mil doğruluğu
- Kapaktaki tapanın sökölmesi ve çene açısı ayarının tek allen ile yapılması
- İşlenmiş yüzey sayesinde 4 yönden bağlantı kolaylığı
- Ayar civatasının özel tasarımı
- Çene boşluğu ± 0,5mm'dir.

AYAR CIVATASININ ÖZELLİKLERİ:

- Uç kısmındaki diş sayesinde mil ile bağlantısı güçlendirilmiştir.
- Dişin başlangıcında bulunan kanala o-ring takılarak hava kaçağı engellenmiştir.
- Piston mili ve ayar civatasının birbiri içinde dönmemesi için de pim kullanılarak bağlantı yapılmıştır. Bunun için ayar civatasına pim deliği açılmıştır.



ORDERING EXAMPLE :

- 6031-40-H (CLAMP ARM CENTER)
- 6031-40-R-H (CLAMP ARM RIGHT)
- 6031-40-L-H (CLAMP ARM LEFT)
- 6031-50-H (CLAMP ARM CENTER)
- 6031-50-H (CLAMP ARM RIGHT)
- 6031-50-L-H (CLAMP ARM LEFT)
- 6031-63-H (CLAMP ARM CENTER)
- 6031-63-R-H (CLAMP ARM RIGHT)
- 6031-63-L-H (CLAMP ARM LEFT)

Power clamp is a pneumatic product used for operations such as tensioning, clamping, centering, drilling, welding or riveting in fixtures with or without automation. The focus of this product, which has been used in different stages for years, is its ability to hold the part to be fixed during the process and its suitability for automation.

Specialized Applications / USAGE AREAS:

- Automotive Manufacturing
- Food Machinery
- Agricultural Machinery
- Milling Machines
- It can be used in all kinds of welding, assembling and painting lines, especially in White Goods Manufacturing.

TECHNICAL FEATURES:

- Standard heat resistant up to 80°C heat resistant up to +200°C If the wiper rod seal and o-rings are changed
- 0-135° angle range
- Gapless jaw pressure
- Dust tightness test certificate (IP5)
- Slag-free aluminum body
- Sensor
- Ease of maintenance with quick and easy disassembly
- Oval cylinder with hard anodized finishing
- Shaft straightness due to bearing top cover
- Removing the cap on the cover and adjusting the jaw angle with a single allen
- Thanks to the machined surface, ease of connection from 4 directions
- Special designed adjusting bolt
- Jaw gap is ± 0.5 mm.

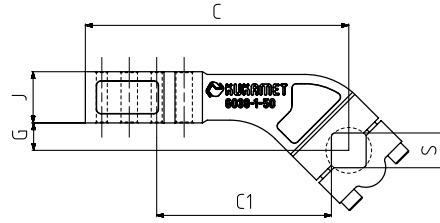
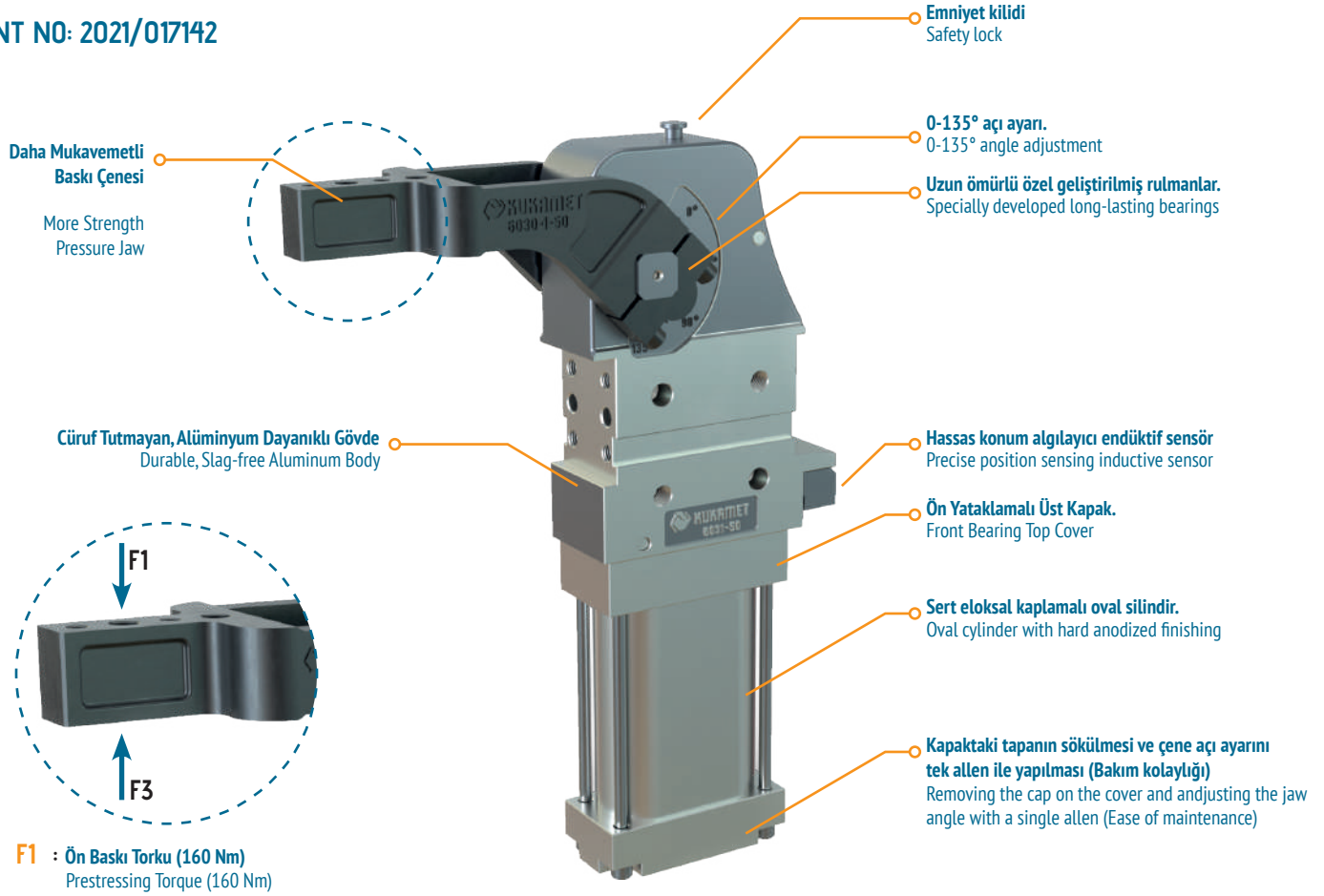
FEATURES OF ADJUSTMENT BOLT:

- Thanks to the thread on the end, its connection with the shaft is strengthened
- Air leakage is prevented by attaching an o-ring to the channel at the beginning of the tooth.
- The connection is made using a pin, not to allow rotating of the piston rod and the adjustment bolt inside of each other. For this purpose, a pin hole is drilled in the adjustment bolt.

MODEL NO	A	A2	A3	A4	B	B2	B3	B4	B5	B6	B7	B8	C	E	E2	E3	E4	E5	E6	E7	E8
6031 - 40 - H	65	84,5	60	38	40	37	61	50	3,5	18	64	23	117,5	35,5	12	35	7,5	20	17,5	20	12
6031 - 50 - H	94	108	93	35,5	45	45	72	48	3,5	20	88	34	144	50	23	30	9	30	24	30	10
6031 - 63 - H	112	111,5	93	32,5	52	52	86	54	3,5	20	94	37	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 - 40 - H	25	13,5	7,5	20	25	236,5	260,5	134	40	40	30	38,5	8	22	214	Ø6	M6	Ø6	M6	7	6	G1/8	16
6031 - 50 - H	45	18,5	11	27	32	293	330,5	178	50,5	55	35	55	12	30	257	Ø10	M10	Ø8	M8	9	6	G1/4	19
6031 - 63 - H	45	18,5	11	27	32	302	345,5	184	50,5	55	35	55	12	30	266	Ø10	M10	Ø8	M8	9	6	G1/4	22

PATENT NO: 2021/017142



Power Clamp Çene
Power Clamp Jaw



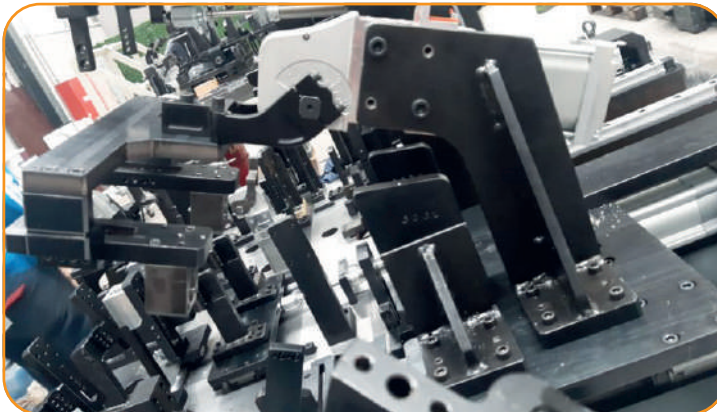
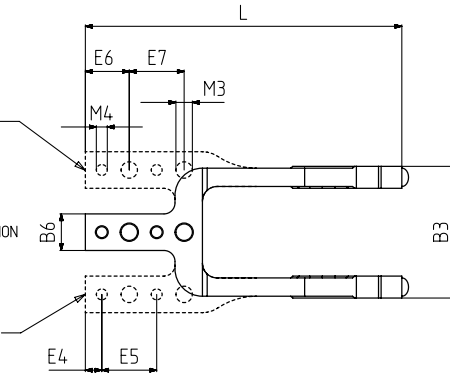
- Daha mukavemetli baskı çenesi
- More strength pressure jaw

ORDERING EXAMPLE :

6030-1-40 (CLAMP ARM CENTER)
6030-1-40-R (CLAMP ARM RIGHT)
6030-1-40-L (CLAMP ARM LEFT)
6030-1-50 (CLAMP ARM CENTER)
6030-1-50-R (CLAMP ARM RIGHT)
6030-1-50-L (CLAMP ARM LEFT)
6030-1-63 (CLAMP ARM CENTER)
6030-1-63-R (CLAMP ARM RIGHT)
6030-1-63-L (CLAMP ARM LEFT)

CLAMP ARM VERSION

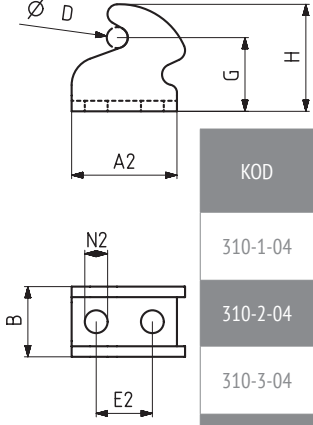
CLAMP ARM LEFT



310-04



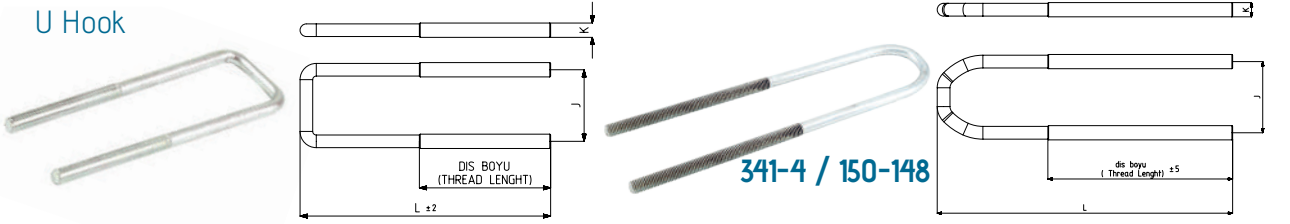
Gerdirmeye Parçası
Stretching Parts



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

310-K

U Kanca
U Hook

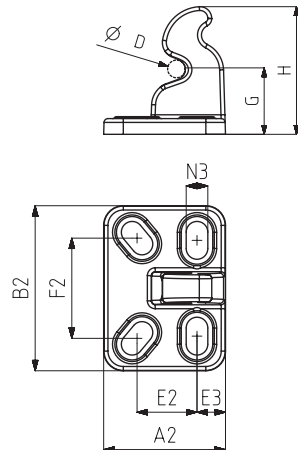


KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ± %2)	J	K	L	DİŞ BOYU (Thread length)
150 - 63	311-312-321-331-332-351 - 1 311-312-331-332-351 - 2	S 150 - 63	B 150 - 63	14	23	M4	90	45
150 - 758	311-312-321-331-332-351 - 1 311-312-331-332-351 - 2	S150 - 758	B 150 - 758	10	23	M4	55	28
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	40	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	138	43	M8	195	65
150 - 35	311-312-331-332-351 - 4	S 150 - 35	B 150 - 35	186	43	M8	295	85
150-539	311-312-331-332-351 - 4	-	-	158	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 - 200	311-312-331-332-351 - 5	-	B 150 - 200	259	45	M10	258	130
150 - 141	311-312-331-332-351 - 5	-	B 150 - 141	200	45	M10	180	110
150 - 516	311-312-331-332-351 - 5	-	B 150 - 516	240	45	M10	230	130
150 - 285	341 - 5	-	-	230	54	M12	146	65

340-03

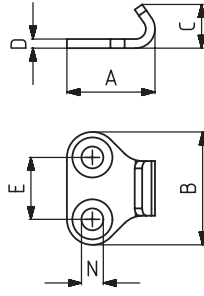


Gerdirmeye Parçası
Stretching Parts



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ± %2)	A2	B2	D	G	H	E2	F2	N3
340-3-03	341-3	220	49,5	67	Ø 8	27	52,5	24,5	41	8,5 x 14,5
340-4-03	341-4	401	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

361-03

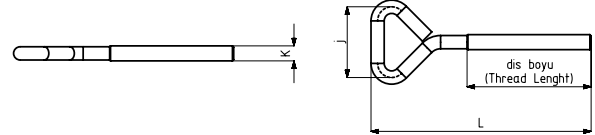


Gerdirme Parçası
Stretcher Parts

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-K

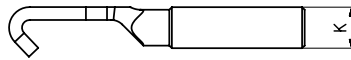
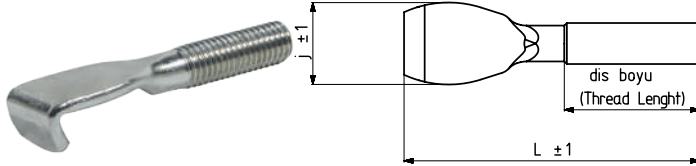
Kanca
Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	DİŞ BOYU (Thread length)
150 - 697	361 - 1	S 150-697	12	20	M5	54	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	98,5	40

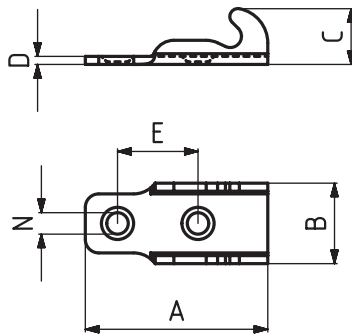
362-K

Kanca
Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	J	K	L	DİŞ BOYU (Thread Length)
150 - 270	362-1	S 150-270	11	10,5	M6	57	25
150 - 270-1	362-1		17	10,5	M6	92	50
150 - 498	362-2	S 150-498	20	14	M8	57,5	25

363-03



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

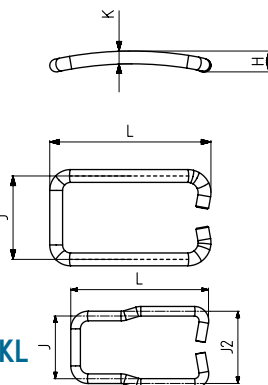
363-K

Kanca
Hook



150-269

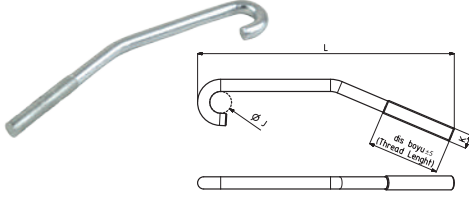
150-846-KL



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ±%2)	H	J	J2	K	L
150 - 269	363-2	S 150-269	12	6,5	26		Ø4	50
150 - 846-KL	363-2-KL	-	6	4,5	19,5	22,5	Ø3	43

410-K

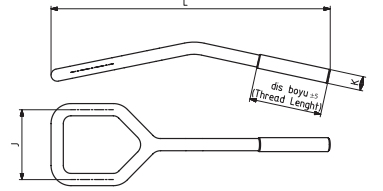
C Kanca
C Hook



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	J	K	L	DİŞ BOYU (Thread length)
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-K

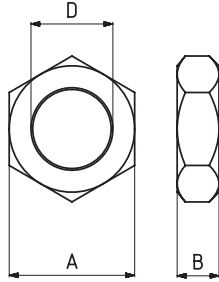
C Kanca
C Hook



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

510-S

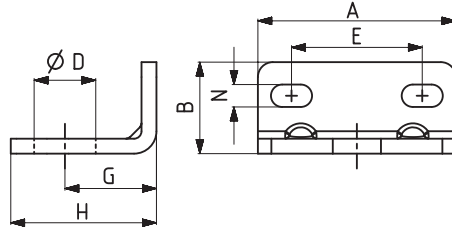
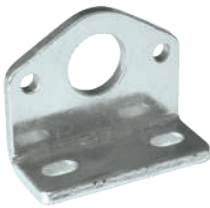
Somun
Nut



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	D
150 - 327	511 - 0	S 150 -	B 150 -	10	17	6	M10 x 1
150 - 103	511-512-513 - 1	S 150 -	B 150 -	12	19	7	M12 x 1,5
150 - 74	511-512-513 - 2	S 150 -	B 150 -	19	24	8	M16 x 1,5
150 - 21	511-512-513 - 3	-	B 150 -	30	30	9	M20 x 1,5
150 - 50	511-512-513 - 5 - 6	-	B 150 -	55	36	10	M24 x 1,5
150 - 151	511-512-513 - 7	-	B 150 -	82	41	12	M27 x 1,5

510-01

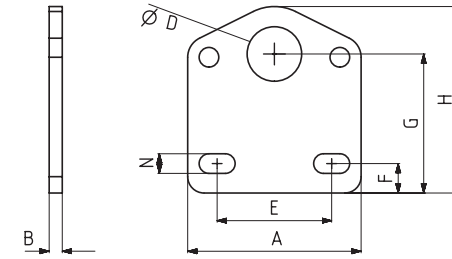
Yatay Taban
Horizontal Base



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	Ø D	E	G	H	N
510 - 1 - 01	511 - 1	S 510 -	-	36	44	20	12,5	26,5	19,5	30,5	5,5 x 10,5
510 - 2 - 01	511 - 2	S 510 -	B 510 -	72	53	24,5	16,5	35	24,5	39	6 x 11
510 - 3 - 01	511 - 3	-	B 510 -	122	60	30	20,5	38	30,5	48	6,5 x 11
510 - 5 - 01	511 - 5 / 511 - 6	-	B 510 -	250	78	36	24,5	49,5	38	61	8,5 x 16
510 - 7 - 01	511 - 7	-	B 510 -	245	78	36	27,5	49,5	38	61	8,5 x 16

510-02

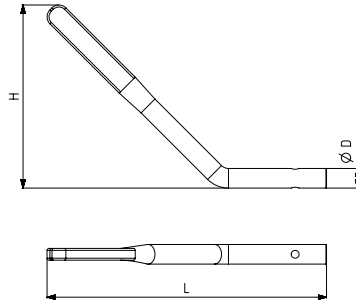
Dik Taban
Vertical Base



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%)	A	B	Ø D	E	F	G	H	N
510 - 1 - 02	512 - 1	S 510 -	B 510 -	40	44	3	12,5	26,5	8,5	35	46	5,5 x 10,5
510 - 2 - 02	512 - 2	S 510 -	B 510 -	74	53	4	16,5	35	9	42,5	57	6 x 11
510 - 3 - 02	512 - 3	-	B 510 -	125	60	5	20,5	38	12,5	52	69	6,5 x 11
510 - 5 - 02	512 - 5 / 512 - 6	-	B 510 -	250	78	6	24,5	49,5	15	64,5	87,5	8,5 x 16
510 - 7 - 02	512 - 7	-	B 510 -	245	78	6	27,5	49,5	15	64,5	87,5	8,5 x 16

533-K

Kol
Handle



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	Ø D	H	L
150 - 756	533-4-H-Ø14	105	10	93,5	142,5
150 - 757	533-4-H-Ø14	135	10	130	178
150 - 754	533-5-H	235	12	138	196
150 - 755	533-5-H	280	12	173	232

911

Silikon Uç
Silicon Squeeze Part

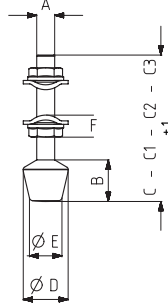


911



BG 911
SİYAH
GALVANİZ
(BLACK
GALVANIZED)

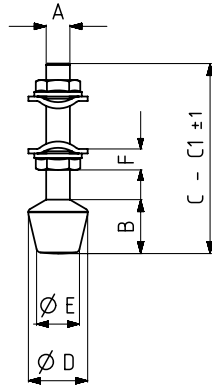
B 911
SİYAH
(BLACK)



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	SİYAH GALVANİZ (BLACK GALVANIZED)	AĞIRLIK (WEIGHT) (gr ±%2)	A CIVATA 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 -	-	40	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 -	-	44	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 - 737	911 - 4 - C2	-	B 911 -	-	82	M 10 x 40	23,5			56,5		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 -	-	175	M 12 x 110	27,25		130			30	21	15

BG911-NR

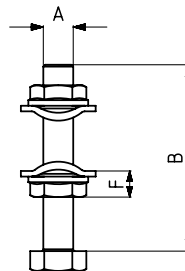
Doğal Kauçuk Uç
Natural Rubber Squeeze Part



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A CIVATA 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	94	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

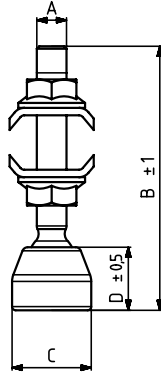
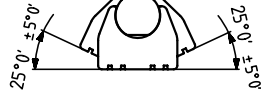
Metal Cıvata Uç
Metal Screw Part



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A CIVATA 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

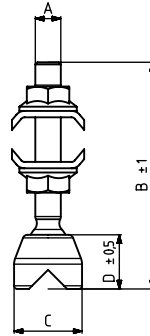
Metal Mafsal Uç
Swivel Metal Squeeze Part
PATENT NO: 20100115



KOD	MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	C	D
150-158	912 - 2	25°	37	M6	53,5	Ø15	10
150-161	912 - 3	25°	70	M8	63,5	Ø20	12,5
150-164	912 - 4	25°	149	M10	90	Ø26	16,5
150-167	912 - 5	25°	224	M12	103	Ø30	20,5

913

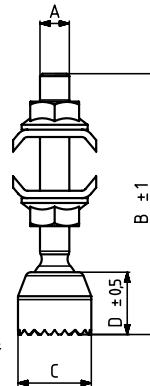
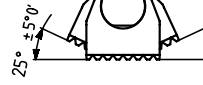
Metal V Mafsal Uç
V Grooved Swivel Metal Squeeze Part
PATENT NO: 20100115



KOD	MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	C	D
150-159	913 - 2	25°	32	M6	53,5	Ø15	13
150-162	913 - 3	25°	66	M8	63,5	Ø20	16,5
150-165	913 - 4	25°	142	M10	90	Ø26	20
150-168	913 - 5	25°	212	M12	103	Ø30	22,5

914

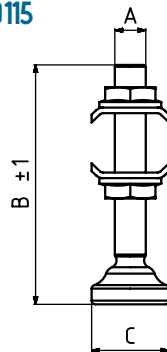
Metal Tırtır Mafsal Uç
Knurled Swivel Metal Squeeze Part
PATENT NO: 20100115



KOD	MODEL NO	AÇI (ANGLE)	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	C	D
150-157	914 - 2	25°	33	M6	53,5	Ø15	10
150-160	914 - 3	25°	69	M8	63,5	Ø20	12,5
150-163	914 - 4	25°	148	M10	90	Ø26	16,5
150-166	914 - 5	25°	222	M12	103	Ø30	20,5

915

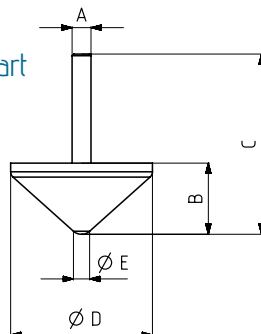
Metal Sabit Uç PATENT NO: 20100115
Fixed Metal Squeeze Part



KOD	MODEL NO	AĞIRLIK (WEIGHT)(gr ± %2)	A	B	C
150-206	915 - 1	18	M5	43	Ø14
150-193	915 - 2	30	M6	53,5	Ø16
150-194	915 - 3	53	M8	64,5	Ø20
150-195	915 - 4	105	M10	86	Ø25
150-196	915 - 5	182	M12	98	Ø30

150-623
-NBR

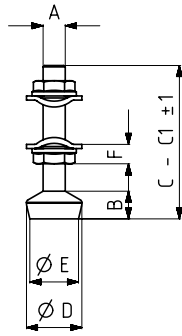
NBR Baskı Ucu
NBR Squeeze Part



KOD	MODEL NO	PASLANMAZ (STAINLESS)	AĞIRLIK (WEIGHT) (gr ± %2)	A CIVATA DIN 933 (SCREW DIN 933)	B	C	D	E
150 - 623 -NBR	510-520-530-550-620-640-660-670-3	S150 - 623-NBR	130	M8 x 50	30	76	60	6,5

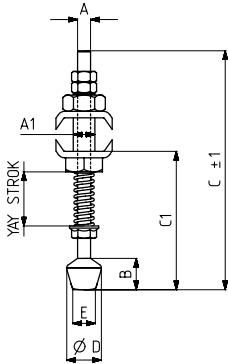
916

Silikon Uç
Silicon Squeeze Part



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ±%2)	A CIVATA 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

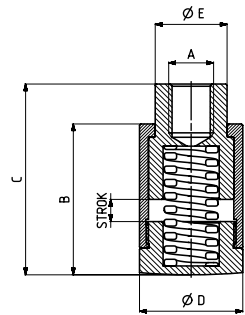


Yaylı Silikon Uç
Silicon Squeeze Part
With Spring

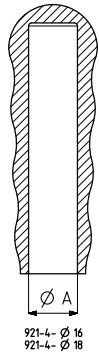
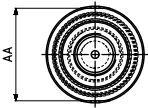
KOD	MODEL NO	SİYAH (BLACK)	YAY STROK	AĞIRLIK (WEIGHT) (gr ±%2)	A CIVATA DIN 933 (SCREW DIN 933)	A1	B	C	C1	D	E
150 - 545	917 - 3	B 917 -	8	37	M 5 x 60	M8	10,5	68,5	35,5	12,5	9
150 - 246	917 - 4	B 917 -	14	82	M 6 x 120	M10	14,5	130,5	55 - 93,5	16	10,5
150 - 283	917 - 5	B 917 -	19	140	M 8 x 130	M12	18	143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

918

Yaylı Metal Uç
Metal Squeeze
Part With Spring

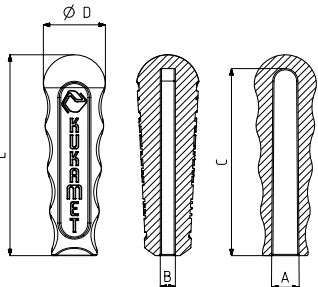


MODEL NO	F1 (N)	STROK	AĞIRLIK (WEIGHT) (gr ±%2)	A	AA	B	C MİN.	C MAX.	ØD	ØE
918 - 3	200	5	96	M8	22	34	38	43	23	16
918 - 4	250	5	92	M10	22	34	38	43	23	16
918 - 5	300	5	90	M12	22	34	38	43	23	16



921

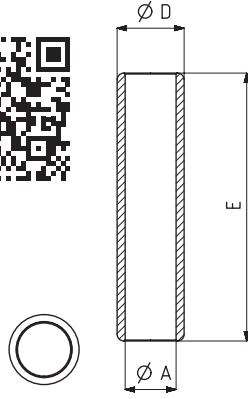
Poliüretan Sap
Polyurethane Handle
Cadmium Yok
No Cadmium



MODEL NO	SİYAH (BLACK)	YEŞİL (GREEN)	MAVİ (BLUE)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C	D	E
921 - 0	B 921 -	Y 921 -	M 921 -	2	6,5	3	26,5	10,5	29
921 - 1	B 921 -	Y 921 -	M 921 -	9	11	4	54	17,5	58
921 - 2	B 921 -	Y 921 -	M 921 -	15	11	5	54	23	60
921 - 3	B 921 -	Y 921 -	M 921 -	27	11	6	74	25	80
921 - 4	B 921 -	Y 921 -	M 921 -	48	18	6	94	29	100
921 - 4	B 921 -	Y 921 -	M 921 -	49	18	8	94	29	100
921 - 4	B 921 -	Y 921 -	M 921 -	40	18	10	94	29	100
921 - 4 - Ø16	B 921 -	Y 921 -	M 921 -	36	Ø16		90	29	94
921 - 4 - Ø18	B 921 -	Y 921 -	M 921 -	30	Ø18		90	29	94

921-M

Metal Sap
Metal Handle



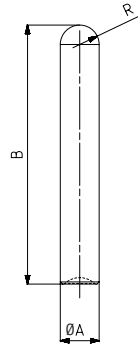
KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ±%2)	A	D	E
921-1-2-M	110-210-310-330-410-510-710-810 - 1 - 2	44	12	16	60
921-1-2-M-C1	222-232-820 - 2	76	12	16	110
921-3-M	110-210-310-330-410-510-710-810 - 3	56	12	18	80
921-3-M-C1	110-210-310-330-410-510-710-810 - 3	91	12	18	130
921-4-M	110-210-310-330-410-4 / 110-210-310-5	168	19	25	100
921-4-M-C1	110-210-310-330-410-4 / 110-210-310-5	241	19	25	150

921-S

Dolu Çelik Sap
Solid Steel Handle



new

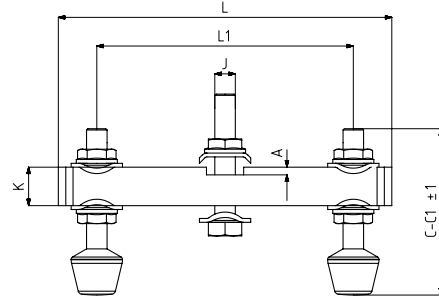


KOD	MODEL NO	POLİÜRETAN SAP (POLYURETHANE HANDLE)	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	R
921-3-S	221-221-C-222-222-C- 222-S-A-232-241-242-3	921 - 4 - Ø16	180	Ø16	120	9
921-4-S	221-221-L-221-OCL-221-C- 222-222-L-222-OCL-222-C- 222-S-A-224-224-OCL- 224-S-A-232-241-242-4-6	921 - 4 - Ø18	230	Ø18	120	8

931



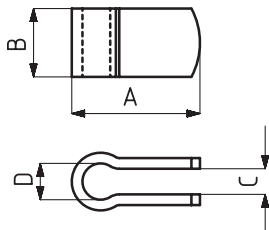
Çapraz Baskı Grubu
Squeeze Part With Double Point



MODEL NO	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ± %2)	A	C	C1	L	L1	J CIVATA DIN 933 (SCREW DIN 933)	K
931 - 1	B 931 -	60	2,5	43,5	68,5	90	30 - 70	M5 x 30	10
931 - 2	B 931 -	142	2,5	50,5	110,5	110	30 - 80	M6 x 40	16
931 - 3	B 931 -	289	3	63,5	83,5	130	40 - 100	M8 x 45	20
931 - 4	B 931 -	464	4	87	125	160	50 - 120	M10 x 60	20
931 - 5	B 931 -	774	5	100	130	180	60 - 140	M12 x 70	25

941-G

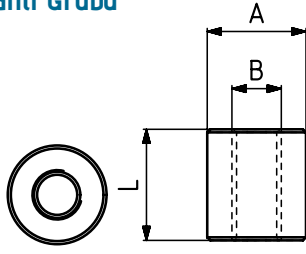
Lama U Bağlantı Grubu
Bolt Retainers



MODEL NO	SİYAH (BLACK)	SİLİKON UÇ (SQUEEZE PART)	AĞIRLIK (WEIGHT) (gr ±%2)	A	B	C	D
941 - 1 - G	B 941 -	911 - 1	8	25	10	5	Ø 6,5
941 - 2 - G	B 941 -	911 - 2	10	25	13	5	Ø 6,5
941 - 2 - C1 - G	B 941 -	911 - 2	16	35	13	6,5	Ø 6,5
941 - 3 - G	B 941 -	911 - 3	20	30	16	6	Ø 8,5
941 - 4 - G	B 941 -	911 - 4	35	37	20	8	Ø 10,5
941 - 5 - G	B 941 -	911 - 5	61	40	25	10	Ø 12,5

951-G

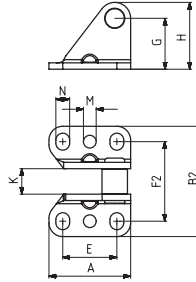
Lama Uç Bağlantı Grubu
Sleeve



MODEL NO	SİYAH (BLACK)	SİLİKON UÇ (SQUEEZE PART)	AĞIRLIK (WEIGHT) (gr ± %2)	A	B	L
951 - 1 - G	B 951 -	911 - 1	7	Ø 10	M5	12
951 - 2 - G	B 951 -	911 - 2	10	Ø 12	M6	15
951 - 3 - G	B 951 -	911 - 3	22	Ø 16	M8	18
951 - 4 - G	B 951 -	911 - 4	32	Ø 18	M10	22
951 - 5 - G	B 951 -	911 - 5	44	Ø 20	M12	27
951 - 6 - G	B 951 -	911 - 5	95	Ø 25	M12	32

961

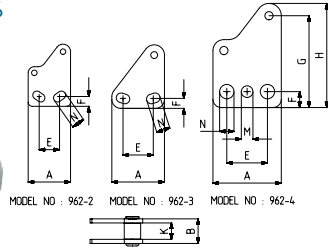
Gerdirme Parçası
Stretcher Parts



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ± %2)	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 -	201	50	30	40	49	16	8,5	10,5 x 15	60,5	84

962

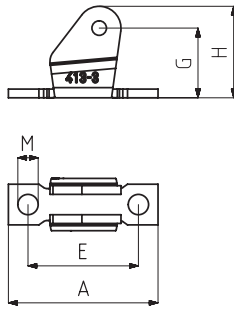
Gerdirme Parçası
Stretcher Parts



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ± %2)	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 -	260	50	24	30	11,5	67	76	16	8,5	Ø10,5

963

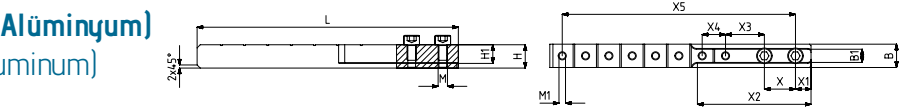
Gerdirme Parçası
Stretcher Parts



KOD	MODEL NO	PASLANMAZ (STAINLESS)	SİYAH (BLACK)	AĞIRLIK (WEIGHT) (gr ± %2)	A	E	M	G	H
963-3	413-3	S 963 -	B 963 -	46	51,5	38	7	24	31,5

964

Uzatma Çenesi (Malzeme: 7075 Alüminyum)
Extension Jaw (Material: 7075 Aluminum)



KOD	MODEL NO	AĞIRLIK (WEIGHT) (gr ± %2)	B	B1	H	H1	L	M	M1	X	X1	X2	X3	X4	X5
964-1	111-112-113-211-212-213-1	35	12	5	15	9	94	M4	M5	15	5	34,5	20	12	83
964-2	111-112-113-211-212-213-2	62	15	6,5	15	12	135	M5	M5	20	10	52	25	15	120
964-3	111-112-113-211-212-213-3	83	15	8,5	15	12	168	M5	M5	20	10	73	25	15	150

Siyah Seri 'B'
Black Series 'B'

Optik Ölçüm Teknolojileri için
Bağlantı Elemanları

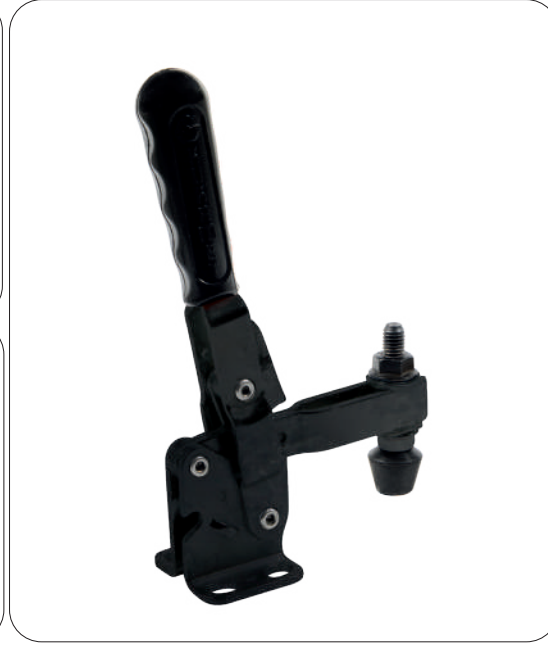
Toggle Clamps For Optical Measurement
Technology

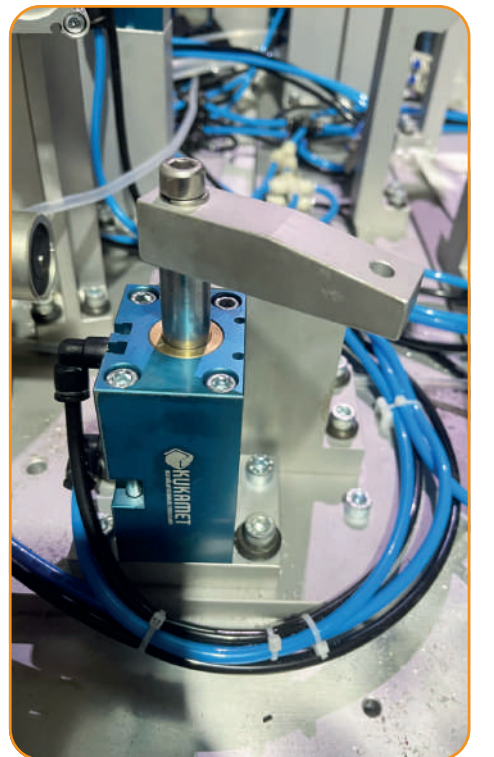
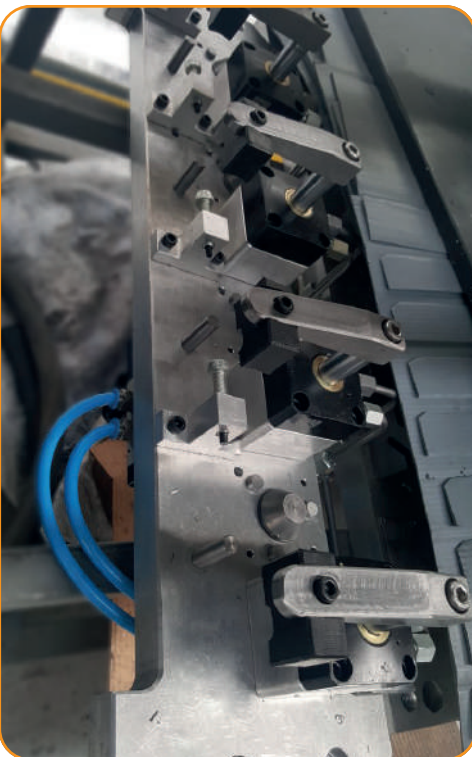
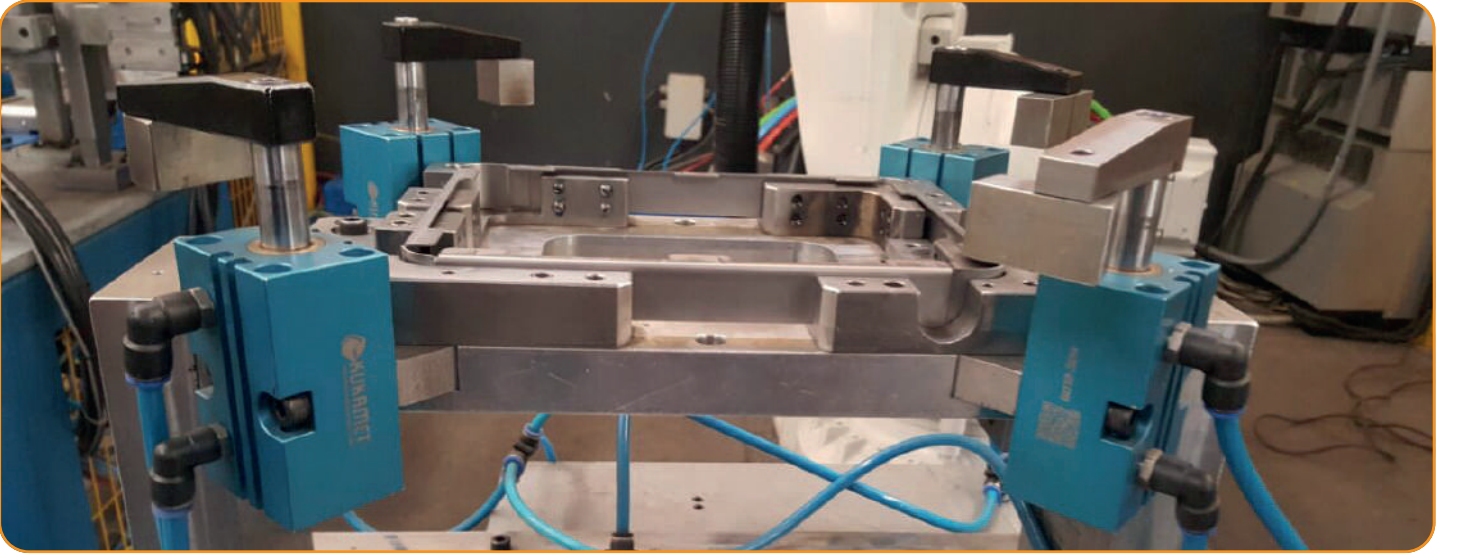
Ürün özellikleri;

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.





HIZLI BAĞLANTI ELEMANLARI / TOGGLE CLAMPS

Ürün Kataloğu / Product Catalogue

www.kukamet.com.tr



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