## A KALIP

**AKSIT** CABLE LUG - CONNECTORS MOULD / MACHINES



#### **FULLY AUTOMATIC MECHANIC SOLUTIONS**

http://www.makecablelug.com

### 1947 (R&D Workshop)

#### A KALIP Tasarım ve Üretim Merkezi (Design and Production Workshop)

1947'den bugûne Türk İmalatçıları için Ar-Ge yapan, Endüstriyel Ürün, Metod, Tasarım, Prototip, Makina ve Kalıp Üretim Merkezidir. From 1947'to Present Mould maker, Fully Automatic of Mechanic Solutions.





infoma-klo.com

#### Teknik Çözümlerde Tecrübeli Çözüm Ortağı

производитель пресс-форм:

кабельный наконечник пресс-форм, полностью автоматизированный



#### Ülkemize ve Üretime Değer Katacak Teknoloji Üretiyoruz

- Prograsive Kesme Form Kalıpları
- Prograsive Swama Kalıpları
- Derin Çekme Kalıpları
- Tam Otomatik Transfer Kalıpları

k - Elektronik Sektörü Itomasyos Hatlan ib uclan, soket/pabuç/sd.

hatlarını geliştirmek isteyen eticiler için **kalıp, üretim ve m**e















Manufacturer/Exporter

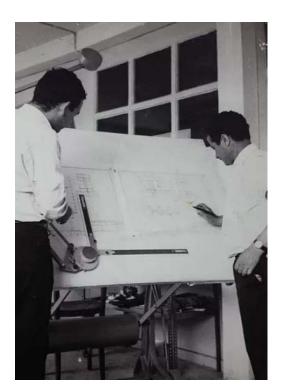


# AKSIT CABLE LUG – CONNECTORS MOULD / MACHINES











#### **ABOUT US**

OUR COMPANY, WHICH IS A FAMILY BUSINESS, HAS BEEN SERVING AS A MOLD AND PARTS SUPPLIER TO THE DEVELOPMENT OF THE MAIN INDUSTRY SINCE 1947.

IN THE PAST YEARS, WE HAVE SUPPLIED DIRECT PRODUCTS AND MOLDS TO MANY COMPANIES SUCH AS FORD-BEKO-ECA-COLLECTION-NETAS-SUCCESS-ENKA-RFT IN THE AUTOMOTIVE, WHITE GOODS, FURNITURE AND ELECTRIC ELECTRONIC SATELLITE SECTORS.

IT WORKED IN PARALLEL WITH MANY MAIN INDUSTRIES FOR R&D CENTERS AND PRODUCT DEVELOPMENT STUDIES. DURING THE DATA FORMATION PHASE, WE CONTRIBUTED TO THE EASE OF PRODUCTION AND BECAME A PARTNER IN PRODUCT DEVELOPMENT STUDES.

WITH OUR INCREASING WORK INTENSITY WITH FURNITURE AND ACCESSORIES IN RECENT YEARS, WE STARTED TO WORK ON THE PRODUCTION OF MACHINE TOOL MOLDS AND PARTS IN THE NON-FURNITURE SECTOR WITH THE A KALIP BRAND IN ISTANBUL, AS IN THE PAST.

IF YOU WANT TO PRODUCE SETTOPBOXES (RECIVER BOXES), WHICH WE PRODUCED FROM THE FIRST PAINTED SHEET IN 2000 FOR THE ELECTRIC AND ELECTRONIC SECTOR, IN FULLY AUTOMATIC MOLD LINES, WE PUT THE MOLDS AND LINE SETUP AT YOUR SERVICE IN A VERY SHORT TIME WITH THE FIRST PRODUCT COMMISSIONING PROCEDURE IN ACCORDANCE WITH 16949.

LIKE WISE, WE ARE READY TO WORK AND COOPERATE ON YOUR PROBLEMS FOR MOLD AND AUXILIARY WORKSTATIONS (AUTOMATION) AT THE SAME PRICE AS CHINA AND IN TURK QUALITY BY FOCUSING ON CABLE END SOCKETS AND CABLE LUGS, WHICH ARE SUPPLIED FROM CHINA AND CAN BE CARRIED OUT WITH SHORT-TERM PRODUCTION AND EXTERNAL SUPPLY.

WITH THE MODULAR CORE STRUCTURE THAT WE HAVE ADDED BY DEVELOPING AND MINIMIZING THE NUMBER OF PERSONNEL AND RAW MATERIAL CONSUMPTION, WITH THE FULLY AUTOMATIC CABLE LUG MOLD THAT MINIMIZES THE SETUP TIMES SUCH AS MOLD SETTING, MODEL CHANGE BY HALF, AND ALLOWS YOU TO GET MORE THAN 30,000 FINISHED CABLE LUGS IN ONE SHIFT WITHOUT MANNING. YOU CAN WATCH RELATED PRODUCTION COMPARISONS ON OUR PAGES AND YOUTUBE LINKS.

OUR GOAL IS TO WIN OUR CUSTOMERS IN THE GLOBAL MARKET, TO COMPLY WITH THE QUALITY PROCEDURES IN ACCORDANCE WITH ISO9001-16949 GUIDELINES IN ALL PARTS AND CONSTRUCTION MACHINES WE MANUFACTURE, AND TO ACHIEVE 100% CUSTOMER SATISFACTION IN ALL OUR PARTS.



# AKSIT CABLE LUG – CONNECTORS MOULD / MACHINES









#### **PURCHASING PROCESS MAP**

 FOR DETAILED TECHNICAL INFORMATION, CONTACT INFO@A-KLP.COM BY E-MAIL OR BY SENDING A 24/7 MESSAGE TO +90 551 551 2508 USING APPLICATIONS (WhatsApp – WeChat - Telegram)

Detaylı teknik bilgi almak için e posta ile INFO@A-KLP.COM veya 7/24 mesaj göndererek +90 551 551 2508 numaralı telefon ile uygulamalar (WhatsApp ) kullanarak irtibat kurun.

SHARE THE TECHNICAL DRAWINGS AND / OR DIMENSION TABLES OF THE PRODUCTS TO BE PRODUCED ON THE MOLD OR MACHINE YOU WILL
ORDER.

Sipariş vereceğiniz kalıp veya makinede üretilecek ürünlere ait teknik resim ve/veya ölçü tablolarını paylaşın.

OUR OFFER WILL BE SENT TO YOU AS A PROFORMA INVOICE.

Teklifimiz Proforma fatura olarak size gönderilecektir.

APPROVE AND SIGN THE PROFORMA INVOICE SENT TO YOU AND SEND US ITS IMAGE.

Onaylayarak size gönderilen proforma faturayı imzalayıp görüntüsünü bize gönderin.

• SEND THE ADVANCE PAYMENT DETAILED ON THE INVOICE VIA THE BANK CHANNEL AND INFORM US BY SHARING THE RECEIPT VIA E-MAIL. WHEN THE ADVANCE PAYMENT REACHES OUR ACCOUNT, YOUR ORDER WILL BE PROCESSED.

Faturada detaylı verilen avans ödemesini banka kanalı ile gönderin ve dekontu e posta ile paylaşarak bizi bilgilendirin. Avans ödemesi hesabımıza ulaştıgında siparişiniz işleme alınır.

THE TEST PRODUCTION OF YOUR READY PRODUCT IS DONE IN OUR WORKSHOP. YOU CAN WATCH THIS LIVE IN OUR WORKSHOP. THE SAMPLES
OBTAINED FROM THE TEST PRODUCTION ARE SENT TO YOU AND YOUR EVALUATION / APPROVAL IS AWAITED.

Hazır hale gelen ürününüze ait test üretimi atölyemizde yapılır. Bunu atölyemizde canlı izleyebilirsiniz. Test üretiminden elde edilen numuneler tarafınıza gönderilir ve değerlendirmeniz/onayınız beklenir.

• WITH YOUR APPROVAL, THE PRODUCTS ARE MADE READY FOR SHIPMENT AND DELIVERY IS MADE FOR THE REALIZATION OF THE BALANCE PAYMENT Onayınız ile ürünler sevke hazır hale getirilir ve Bakiye ödemenin gerçekleşmesi ile ilgili teslimat yapılır.



AKSIT

CABLE LUG – CONNECTORS

MOULD / MACHINES



0850 532 531 1

#### PROGRESSIVE MOULDS FOR CABLE CONNECTORS - FROM 1947 TO PRESENT MOULD MAKER







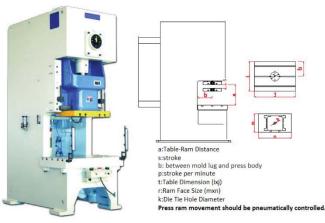
**Fully Automatic Transfer Mould System** 

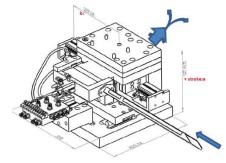
FULLY AUTOMATIC CABLE LUG MOLDS WITH CENTRAL CONTROL

(SINGLE MOLD STATION IS FOR SINGLE TYPE CABLE LUGS)



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Dimensions to be considered in press selection:

- a: mold closed height is up to + stroke. s: Stroke is the standard size which is generally found by rounding up 3 times the pipe diameter used in the cable lug. b: between mold lug and press body

t: Table dimensions j: at least 100 mm larger than the mold bottom plate, i: at least 50 mm larger on the mold

10   16   25   35   sqmm   s														
a:Table-Ram Distance 250+25 250+25 250+35 250+35 250+40 250+50 250+60 250+60 250+70 250+80 250+90 250+100 250+120 5:stroke 25 30 35 35 40 50 60 60 70 80 90 100 120 b:between moul lug and press 200 200 200 200 220 220 220 250 250 260 260 260 270 body p:stroke per minute 40-60 40-60 40-60 40-60 40-60 40-60 40-60 40-60 30-60 30-60 30-50														
s:stroke     25     30     35     35     40     50     60     60     70     80     90     100     120       b:between moul lug and press body     200     200     200     220     220     220     250     250     260     260     260     270       p:stroke per minute     40-60     40-60     40-60     40-60     40-60     40-60     40-60     40-60     40-60     40-60     40-60     30-60     30-50	T: Tonnage	20	20	30	30	40	40	50	50	50	60	60	70	70
b:between moul lug and press 200 200 200 200 220 220 250 250 260 260 260 270 body p:stroke per minute 40-60 40-60 40-60 40-60 40-60 40-60 40-60 40-60 30-60 30-60 30-50	a:Table-Ram Distance	250+25	250+25	250+35	250+35	250+40	250+50	250+60	250+60	250+70	250+80	250+90	250+100	250+120
body   C   C   C   C   C   C   C   C   C	s:stroke	25	30	35	35	40	50	60	60	70	80	90	100	120
		200	200	200	200	220	220	220	250	250	260	260	260	270
t:Table Dimension(min) 400x400 400x400 400x400 500x400 500x400 600x450 600x450 600x450 700x500 700x500 800x600 800x600	p:stroke per minute	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60	30-60	30-60	30-50
	t:Table Dimension(min)	400x400	400x400	400x400	500x400	500x400	600x450	600x450	600x450	700x500	700x500	700x500	800x600	800x600

#### THE SMALLEST ORDER ACCEPTANCE IS 5 MOLDS.

	Calculated prod	uction rate	e. When wo	orking with 1	00% efficiency		In one shift
	Production time of	In a	in a		ten hours in	in twenty	with 80%
sqmm	1 cable lug	second	minute	in an hour	one shift	four hours	efficiency
6	1	1,00	60	3600	36000	86400	28800
10	1	1,00	60	3600	36000	86400	28800
16	1	1,00	60	3600	36000	86400	28800
25	1	1,00	60	3600	36000	86400	28800
35	1,5	0,67	40	1600	16000	38400	12800
50	1,5	0,67	40	1600	16000	38400	12800
70	2	0,50	30	900	9000	21600	7200
95	2	0,50	30	900	9000	21600	7200
120	2	0,50	30	900	9000	21600	7200
150	2	0,50	30	900	9000	21600	7200
185	2,5	0,40	24	576	5760	13824	4608
240	2,5	0,40	24	576	5760	13824	4608
300	2,5	0,40	24	576	5760	13824	4608
400	3	0,33	20	400	4000	9600	3200
500	3	0,33	20	400	4000	9600	3200
625	3	0,33	20	400	4000	9600	3200
800	4	0,25	15	225	2250	5400	1800
1000	4	0,25	15	225	2250	5400	1800



#### PART SIZES MACHINED IN MOLDS:

PIPE OUTER DIAMETER: 6<D<45 PIPE WALL THICKNESS: 0,5<T<5 PART LENGTH: 28<L<350

LOADED BOILERS WEIGHT: 15-50 Kg ENERGY REQUIREMENT: 0,5/1 Kw - 10 Bar

#### **OUTPUTS FROM THIS MACHINE:**

TWO PIECES OF CABLE LUGS ARE OBTAINED AT EACH STEP.

VIBRO TRANSFER, PRESSING FLATING, TEXT MARKING, CUT OFF TOTAL TIME: Min. 1 / Max. 4 sec.

CUT-OFF CHIP WASTE PERCENTAGE: %2

THE NEED OF PERSONNEL WORKING AT THE MACHINE: NO, JUST ONE PERS. TO FILL A BOILER AND EMPTY BASKET

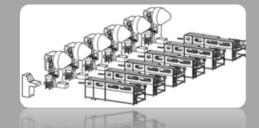
PRODUCTION REPORTS WORKING TIME AND QUANTITIES CAN BE TRACKED ONLINE REMOTE: YES

MOTIONS ARE PROVIDED IN LINEAR BALL BEARINGS AND PNEUMATIC PISTONS.

SYSTEM PURCHASE OPTION: MOLDS AND CUTTING MACHINES USED IN THE PRODUCTION OF CABLE LUGS CAN BE MANAGED FROM A SINGLE CENTER.



A KALIP info@a-klp.com



# Mold and Press production comparison: Kalıp ve Presli üretim karşılaştırması: As a result

#### Classic press production Production with semi-automatic hydraulic rotary table

#### China Origin Fully automatic mold criticism

#### A-klp.com

#### Fully automatic cable lug molds

-Eccentric press + End crushing mold + One staff -Eccentric press + Punching and marking die + one staff

-Special production hydraulic machine (3 Hydraulic heads)

-3 molds for each model

-End crushing station + Screw hole drilling station + Brand and model name writing form mold

The workmanship and technical life of the Chinese mold, which was previously supplied by a customer, is far from CE expectations.

It is clear that the female sockets given in the picture below are very thin sections that are very close to the edge and will break in a few thousand presses.

Quality and mold life may not meet expectations.

You get our molds and machines at a higher price than the Chinese manufacturer. However, molds and machines in CE standards are guaranteed for 2 years, excluding usage errors. When the defective part is sent, it is replaced with the new part in return for its price.

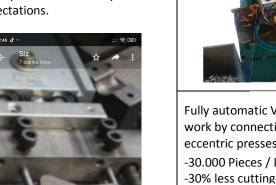
A parts list and user maintenance manual are given with our machines and molds.



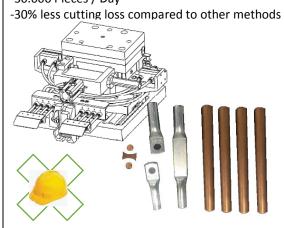
Fully automatic Vibro Transfer Molds that you can work by connecting to your existing mechanical eccentric presses:

-30.000 Pieces / Day











operation, that is, a single piece of cable

lug is taken from the semi-finished pipe,

the cutting scrap is large as in the

-Hydraulic press works slowly.

picture. Production capacity is low,

Production is slow at this rate. With a

5.000-6.000 pieces / day production is

-Capacity is low as one piece is produced in each operation. (1.000-5000 pieces of production are made with 2 presses and 2 personnel per day.)

- End cut depends on the leaning distance. It can be even more than desired. The cutting scrap is big as pictured.



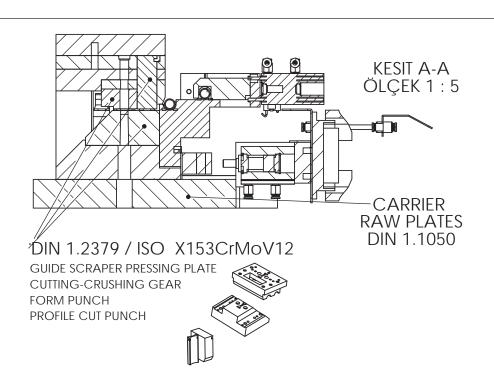


cutting scrap is high.

staff member



Machinery and molds are suitable for E4.0. With the central control panel you can follow your mobile phone or from any computer. You can contact the current MRP with your business and get the past report. The raw material loaded, the number of cable lugs and the total scrap account map on the production area can be updated at any time.



#### STANDARD MOLD ELEMENTS

STANDARD MOLD ELEMENTS ARE USED:



-Countersunk Head Form D HSS Stapler: Material - 1.3343 Fully Ground Heat Treated (62-64 HRC ± 2) Head Hardness: (52 ± 3) Surface ≥ 950 HV 0.3

It is for durable workpieces in all kinds of drilling / cutting dies.

In addition, completely or partially TIN / TIC Coating

(Providing Resistance Against Heat and Friction in Outer Layer, Resolves Problems Such as

Coiling and Cold Welding, Coating Thickness is 2-4 Micro. Preferred in Cases of Thin Sheet Thickness).

ASP (Powder Metal) and Sintered Carbide Punches for Harder Workpieces Can Be Prefer

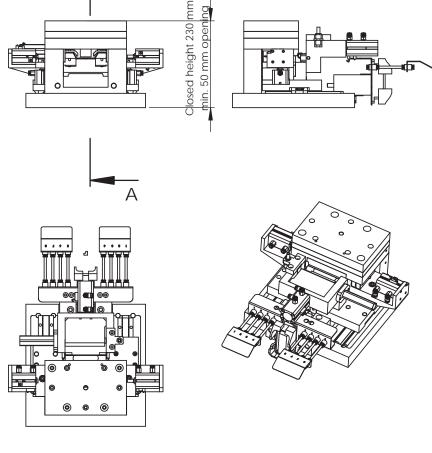
and Abrasive Workpieces.

Material: 1.3343

Hardness: Body 60/62 HRC / Head 45 + 5 HRC

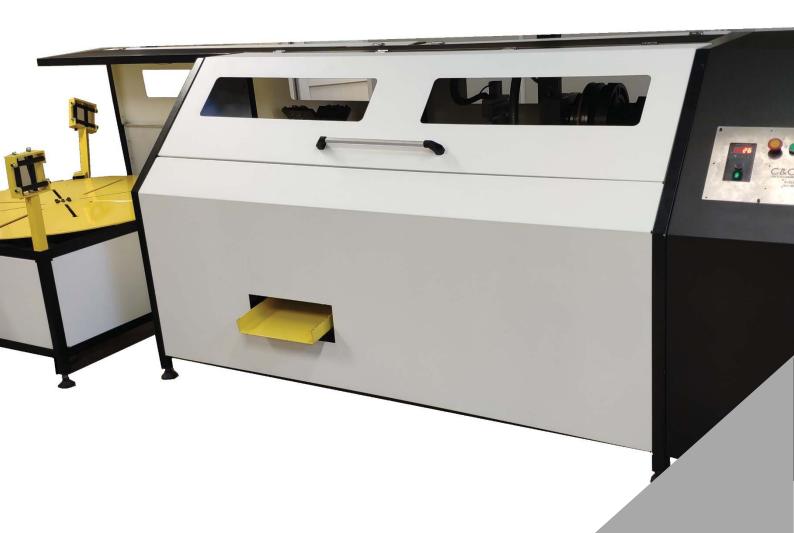
Surface: Hardened, Ground -SPECIAL - BORDIGNON - PSE -GUIDE BUSH WITH BALL CAGE

-LIENER MOTION CONNECTION ELEMENTS



· Metal) and Sintered Carbide Punches for Harder Workpieces Can Be Preferre	d For Ve	ery Hard							
e Workpieces.	MALZEME		AGIRLIK	A KLP	847				
343 ody 60/62 HRC / Head 45 + 5 HRC	KLASOR		'		From EPT to Trapert Those ling or Comprehe Colors or Shedra or Cofeliera				
dened, Ground	ÇİZEN			Parça Adı:					
ORDIGNON - PSE WITH BALL CAGE	TARİH	10 Şubat 2021 Çar	CL Mould						
ION CONNECTION ELEMENTS	MÜLKİYET \	ve g <mark>izlili</mark> k Resimdeki tüm bilgii	A			REV			
		ı ve YAZILI İZNİ OLMA I KOPYALAMA, ÇOĞ							
AKSİ BELİRTİLMEDİĞİ SÜRECE: BOYUTLAR mm DİR. TOLERANSLAR: RESİM ÜZERİNDE VERİLİR. VERİLN	iediği duri	umda orta toler	RANS SKALASI KULLANILIR.	ÖLÇEK:	1:X	Sayfa sayisi 1'	/ 1		

3 2 1



# TECHNICAL EVALUATION



2021



6-16 ₫

PACKAGED IN COIL TUBULAR MATERIAL UNWINDING TYPE

**CUTTING MACHINE FOR THIN-WALLED COPPER & ALUMINIUM PIPES - WITHOUT SAW** 

(6-16 mm  $\Phi$  TUBE / 28-350 mm LENGTH / 0.5-3 mm WALL THICKNESS)



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ALKOP SANAYI SITESI A2 BLOK NO:6 ESENYURT/ISTANBUL-TR +90 551 551 2508 /+90 850 532 531 1

#### **MACHINE DIMENSIONS:**

WIDTH: 1.250 mm

LENGTH:4.000 mm

HEİGHT: 1.250 mm

WEIGHT: 500 Kg

#### **WORKED PART SIZES:**

PIPE INNER DIAMETER: 5<d<15

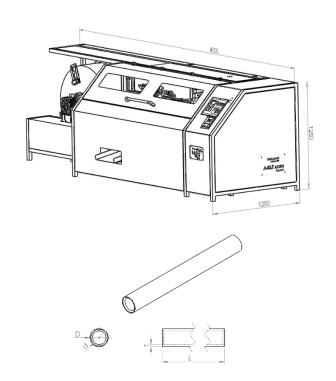
PIPE OUTER DIAMETER: 6<D<16

PIPE WALL THICKNESS: 0,5<T<3

PART LENGTH: 28<L<350

LOADED COIL MAX. WEIGHT: 100 Kg

ENERGY REQUIREMENT: 5Kw - 10 Bar



#### **OUTPUTS FROM THIS MACHINE:**

CUTTING, STRAIGHTENING, LENGTH SLIDING, DOUBLE SIDED COUNTERSINKING TIME: Min. 1 / Max. 3sec.

CUT-OFF CHIP WASTE PERCENTAGE: % 0

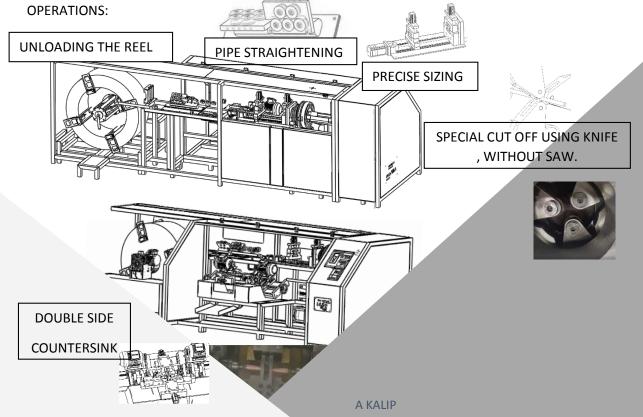
THE NEED OF PERSONNEL WORKING AT THE MACHINE: NO

SIZE CHANGES MADE WITH DIGITAL PANEL VEHICLE: YES

PRODUCTION REPORTS WORKING TIME AND QUANTITIES CAN BE TRACKED ONLINE REMOTE: YES

MOTIONS ARE PROVIDED IN LINEAR BALL BEARINGS, SERVO MOTORS, ELECTRIC MOTORS AND PNEUMATIC PISTONS.

IN DIAMETER CHANGES, PULLEYS AND BORDER DRILLS ARE MANUALLY CHANGED.





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# TECHNICAL EVALUATION

2021



**16-45** Ф

4 Mt. BAR PIPE MATERIAL PACKAGING TYPE

**CUTTING MACHINE FOR THIN-WALLED COPPER & ALUMINIUM PIPES - WITHOUT SAW** 

(16-45 mm  $\Phi$  TUBE / 28-350 mm LENGTH / 0.5-5 mm WALL THICKNESS)



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ALKOP SANAYI SITESI A2 BLOK NO:6 ESENYURT/ISTANBUL-TR +90 551 551 2508 /+90 850 532 531 1

#### **MACHINE DIMENSIONS:**

WIDTH: 1.250 mm

LENGTH:7.500 mm

HEİGHT: 1.250 mm

WEIGHT: 800 Kg

#### **WORKED PART SIZES:**

PIPE INNER DIAMETER: 15<d<44

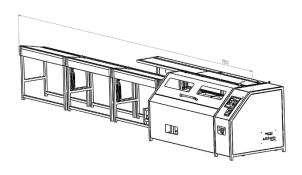
PIPE OUTER DIAMETER: 16<D<45

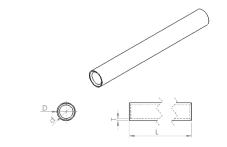
PIPE WALL THICKNESS: 0,5<T<5

PART LENGTH: 28<L<350

LOADED COIL MAX. WEIGHT: 150 Kg

ENERGY REQUIREMENT: 5Kw - 10 Bar





#### **OUTPUTS FROM THIS MACHINE:**

CUTTING, STRAIGHTENING, LENGTH SLIDING, DOUBLE SIDED COUNTERSINKING TIME: Min. 3 / Max. 5 sec.

CUT-OFF CHIP WASTE PERCENTAGE: % 0

MATERIAL LENGTH AT THE END OF ONE LENGTH OF BAR: 20 cm

THE NEED OF PERSONNEL WORKING AT THE MACHINE: NO

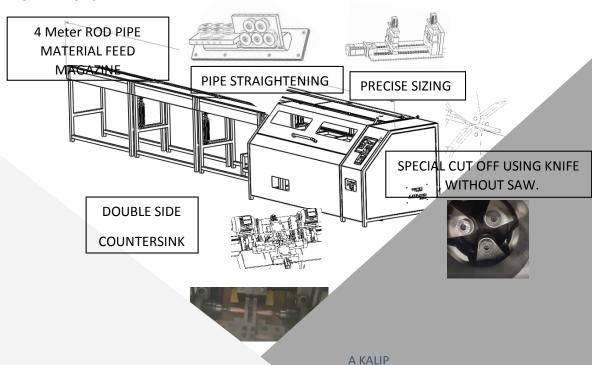
SIZE CHANGES MADE WITH DIGITAL PANEL VEHICLE: YES

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#### **OPERATIONS:**



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#### What will be your gain when you choose our products unlike other manufacturers?

Diğer üreticilerden farklı olarak ürünlerimizi tercih ettiğinizde kazancınız ne olacak?

	In manual and semi-automatic systems in other	C&CSM -Cutting and countersinking machine						
	manufacturers;	For tubing packed in 6-16 mm Reels						
	Diğer üreticilerde manuel ve yarı otomatik sistemlerde ;	For pipe packed as a bar of 16-45mm length of 4 meters						
	For cutting with a manual saw and countersinking, a machining machine such as a classic lathe-automat-drill should be used.	-Since orbital cutting is made with rotating blades, there is no chip formation for cutting, cutting is <u>done</u> <u>without waste.</u>						
<b>sinking:</b> kında:	Two personnel work on these two machines and 1,000-3,000 cable lugs can prepare semi-finished products per day.	-For our fully automatic molds that produce two cable lugs from one pipe, the two ends of the pipe are countersinked at the same time.						
<b>ounter</b> na hak	Sawdust up to the thickness of the saw blade (3-4 mm) is scrap.	Production time for a cable lug is 1.5 seconds total for cutting and countersinking. In this case, between 10.000 and 20.000 cable lug semi-finished products are prepared daily.						
oe end co	Manuel testere ile kesim ve uçları havşalanmak için klasık torna- otomat- matkap gibi bir talaşlı imalat makinası kullanılmalıdır.	Machinery and molds are suitable for E4.0. With the central control panel you can follow your mobile phone or from any computer. You can contact the current MRP with your business and get the past report. The raw material loaded, the number of cable lugs and the total scrap account map on the						
and pip	Bu iki makinada iki personel çalışır ve günde 1.000-3.000 adet kablo pabucu yarı mamulu hazırlayabilir.	production area can be updated at any time.  -Dönen bıçaklarla orbital kesim yapıldığından kesme için bir talaş oluşmaz firesiz kesim yapılır.  -Bir borudan iki adet kablo pabucu üreten tam otomatik kalıplarımız için, borunun iki ucuna havşa						
About pipe cutting and pipe end countersinking: Boru kesme ve boru ucu havşa açma hakkında:	Testere kalınlıgı kadar (3-4 mm) kesme talaşı hurdadır.	açılması aynı anda yapılır. Bir kablo pabucu için üretim süresi kesme ve havşa açma için toplam 1,5 saniyedir. Bu durumda Günlük 10.000 ile 20.000 arasında kablo pabucu yarı mamulu hazırlanır. 6-16 mm Orbital Kesim - Çift Taraflı Havşa Açma						
About p		Makine ve kalıplar E4.0'a uygundur. Merkezi kontrol paneli ile cep telefonunuzu veya herhangi bir bilgisayardan takip edebilirsiniz. İşletmeniz ile mevcut MRP ile iletişime geçebilir ve geçmiş raporu alabilirsiniz. Yüklenen hammadde, kablo pabucu sayısı ve üretim alanındaki toplam hurda hesap haritası her an güncellenebilir.						
As a result	2 personnel 2 machines, machining waste up to saw thickness, 1.000 - 3.000 - max. 5.000 pieces / day 2 personel 2 makina , testere kalınlıgı kadar talaşlı imalat firesi , 1.000 - 3.000 adet/gün	Without personnel, without waste, 10.000- 20.000 pieces / day Personelsiz , firesiz , 10.000- 20.000 adet/gün						



## A KALIP

## CABLE LUG – CONNECTORS MOULD / MACHINES





ANA SAYFA

VIDEOLAR

OYNATMA LİSTELERİ

KANALLAR

TARTIŞMA

HAKKINDA



Fully automatic moulds / machines of Cable connector & lug (...

6.243 görüntüleme • 2 yıl önce

#Cable #Lug #MakeCableLug #CableLug #CableLugsMachine

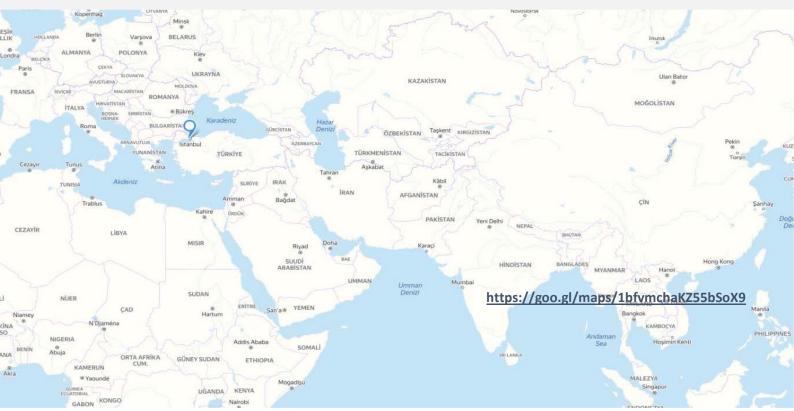
Üretici ve İhracatçı; Otomatik Kablo Pabuçları Makineleri - Bakır Elektrik Presli Terminal Kalıpları - Kablo Pabuçları Makinası -SKP Sıkmalı Kablo Pabucu

https://goo.gl/maps/FQeYiXcPZtMWyb8N9

http://www.A-KLP.com

https://youtube.com/c/ACABLELUG





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