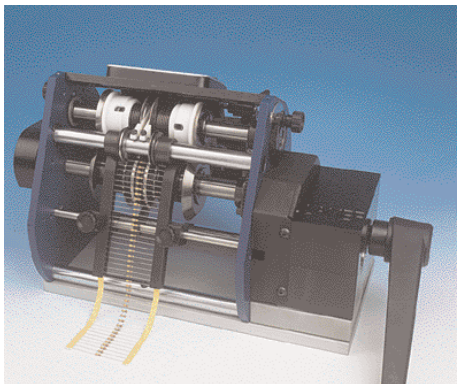
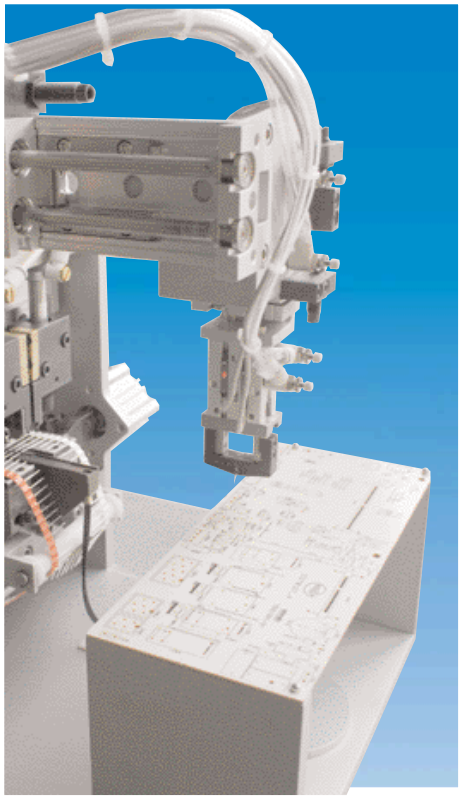
OLAMEF

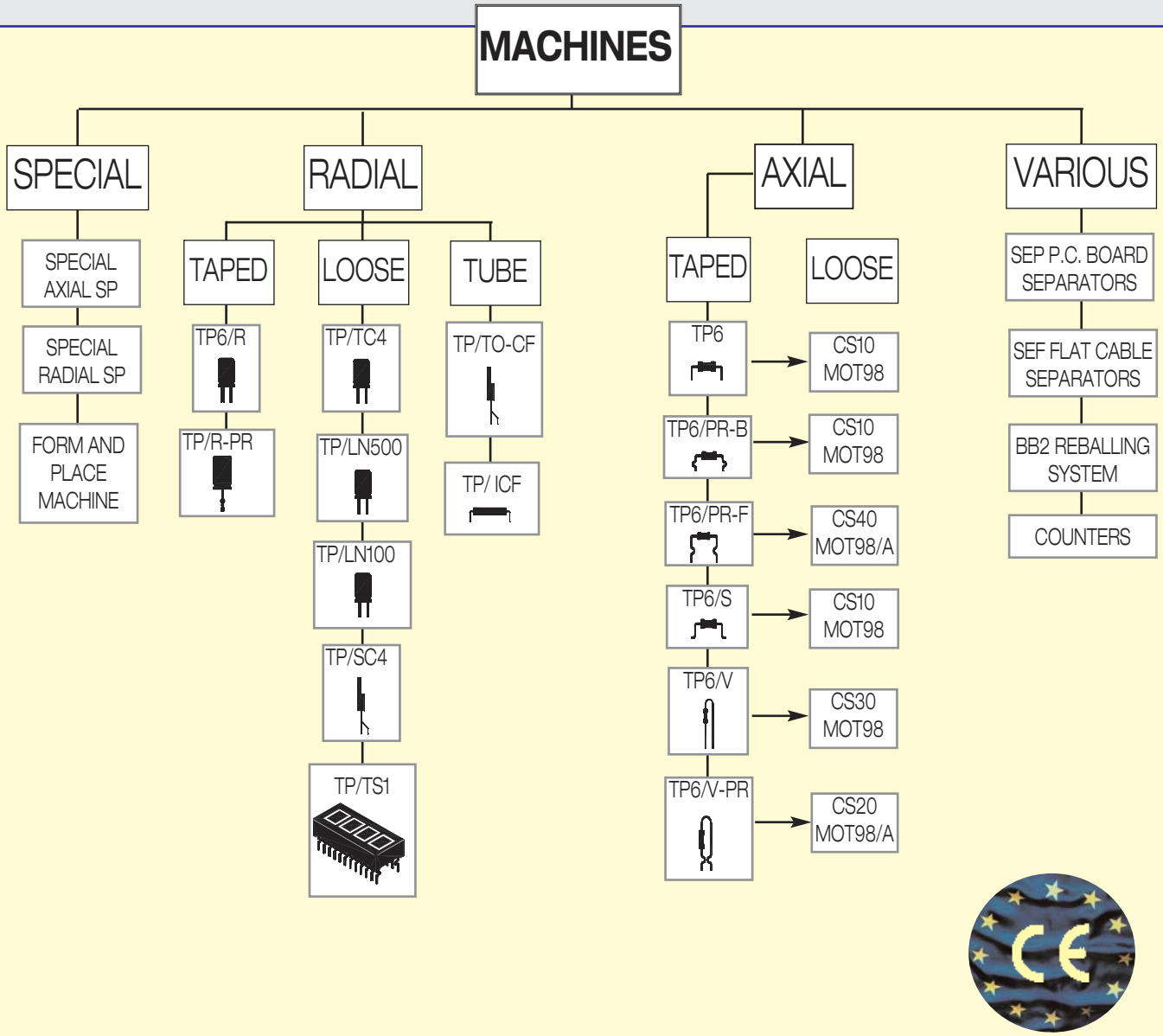
GENERAL CATALOGUE





OLAMEF is one of the world's leading manufacturers of equipment for the electronic industry. Our company, located in the heart of the Italian industrial region, has been producing high quality lead forming equipment at economic values for over 25 years. Although many have tried to duplicate Olamef's Circle of Quality, the reliability, repeatability and continuos performance of this equipment are unmatched anywhere. These factors are substantiated as some of this equipment, used under demanding conditions, is still in use over 10 years. The modular system of this equipment allows the user to begin with elementary units and continue to graduate to more sophisticated operations by just adding additional components to the existing equipment. Yet the inherent quality is never sacrificed for the sake of enhanced production. OLAMEF has an international network of distributors, all well trained in the uses and nuances of the OLAMEF lead forming machines. A highly skilled, factory based and trained technical support group is available to respond to any of your requirements, including special dies and modifications, often necessary in this ever changing technology. We at Olamef look forward to be of service to you.

La OLAMEF produce macchine per la lavorazione di componenti elettronici da oltre 25 anni.
La OLAMEF offre una linea completa di macchine, semplici ed affidabili che soddisfa le esigenze degli utilizzatori, siano essi grandi o piccole industrie. Le nostre attrezzature sono conosciute per la loro affidabilità, la capacità di lavorare ininterrottamente per lunghissimi periodi e l'estrema facilità di regolazione. Molte delle nostre macchine lavorano da oltre dieci anni continuando sempre a garantire i massimi livelli operativi.
Le macchine OLAMEF possono essere inizialmente solo manuali e in seguito essere attrezzate con gruppo di motorizzazione e sistemi automatici di alimentazione.Tutte le opzioni ed attrezzature aggiuntive aumentano le qualità delle macchine rendendole più versatili. La OLAMEF é nota per la capacità ed esperienza sia della propria rete di vendita internazionale che dei propri ingegneri nel progettare e risolvere particolari esigenze legate alla produzione di attrezzature speciali, adattabili a linee preesistenti e nuove. La OLAMEF é in grado di risolvere i problemi legati a necessità specifiche di lavorazioni di componenti elettronici.



axial and radial taped component feeders

SP LINE MACHINES

alimentatori per componenti assiali e radiali nastrati

The pages from 3 to 9 describe a few special feeders designed and manufactured to customer's specifications.

Le pagine dalla 3 alla 9 descrivono alcuni modelli di alimentatori speciali realizzati su specifiche dei clienti.

built and designed to customer's needs
integrate to customer's specific instrumentation
operate components without nicking or cracking leads
reduce labor costs and down time

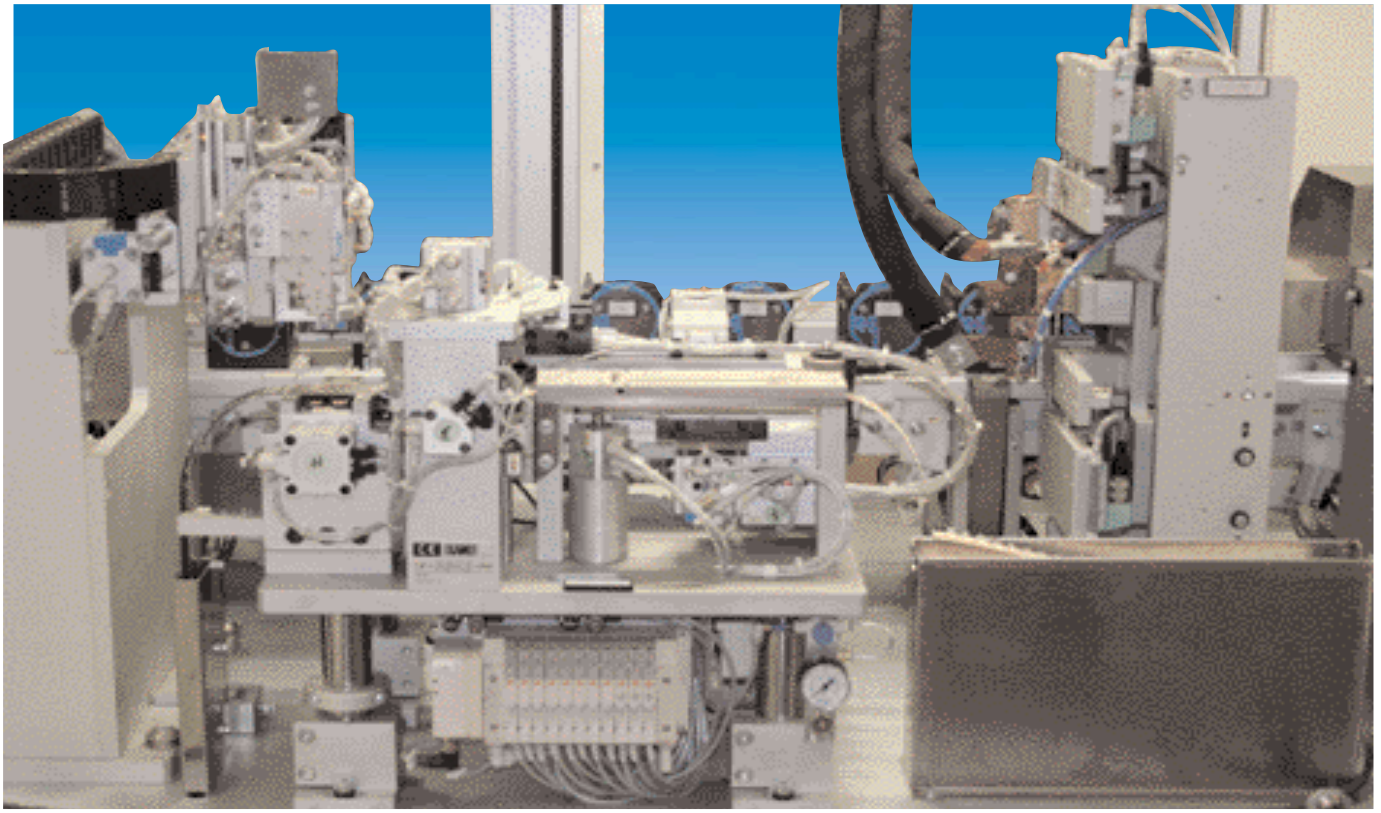
costruiti e progettati a seconda delle necessità del cliente
per integrazione a sistemi specifici del cliente
lavora i componenti senza danneggiare i reofori
riduce costi mano d'opera e perdite di tempo

Weight, dimension and volume of feeders vary on each individual unit and depend greatly on the customer's requirements.

Pesi, dimensioni e volumi degli alimentatori variano secondo l'operazione finale richiesta e gli ingombri vengono definiti con il cliente in fase di progetto.

Olamef's knowledge and experience manufacturing forming machines are applied when designing this new line of equipment which helps to eliminate manually forming and inserting through hole components. The SP machines cut, bend and form components placing them in a position where they can be picked up by an automatic system to complete an assembly cycle.

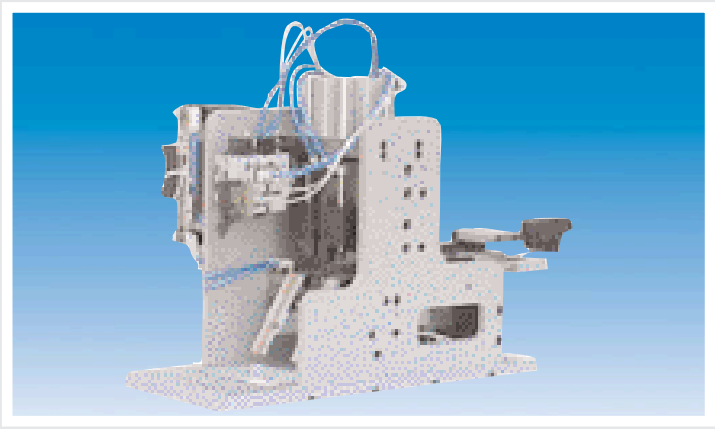
Sfruttando la grande esperienza acquisita nella produzione di macchine preformatici, la Olamef progetta queste nuove attrezzature per eliminare l'operazione manuale di preformatura ed inserimento dei componenti tradizionali, a completamento delle schede o altri particolari montati in automatico.
Le macchine tagliano piegano e formano i componenti posizionandoli in modo da poter essere prelevati da un sistema automatico.

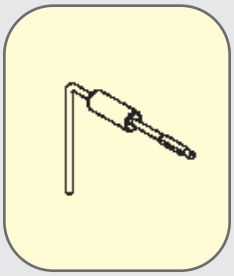


pneumatic step by step feeder to cut & swage axial taped components

SP 22.05

alimentatore pneumatico passo passo taglio piega schiacciatura diodi nastrati

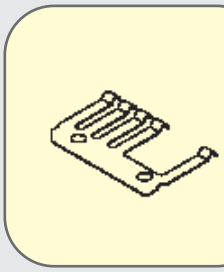


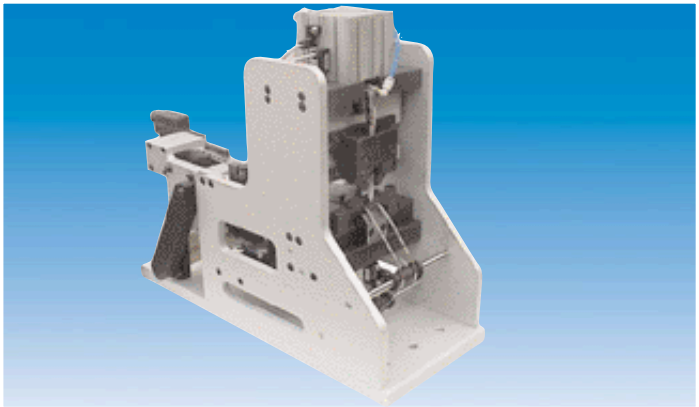


step by step pneumatic feeder for cutting metal taped terminals

SP 22.06

alimentatore pneumatico passo passo taglio terminali nastrati metallici

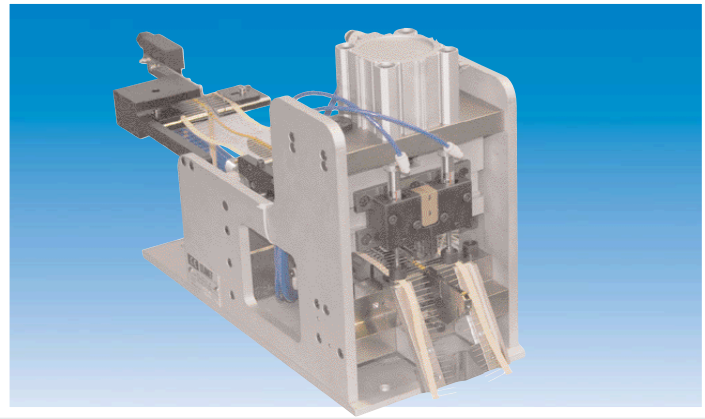


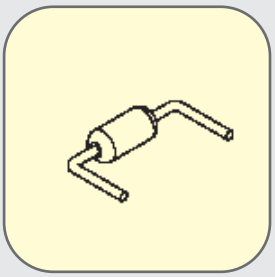


pneumatic step by step feeder for cutting & bending taped axial components

SP 22.08

alimentatore pneumatico per resistenze assiali

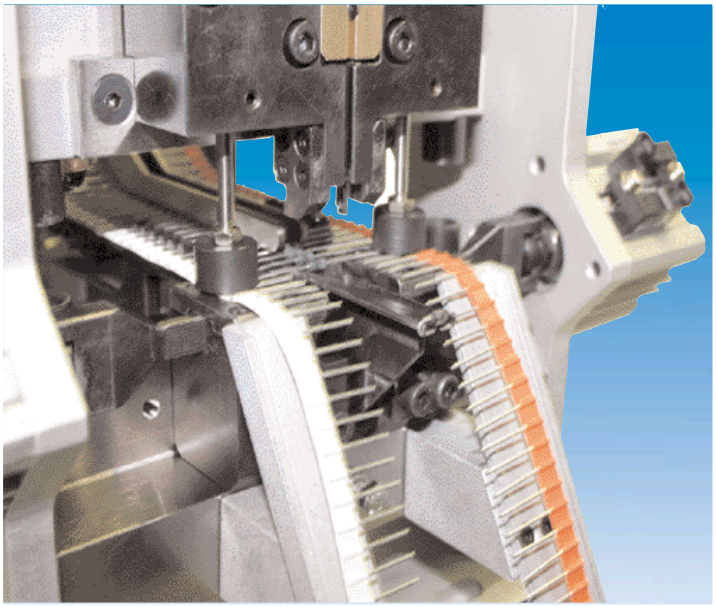




automatic cutting, bending and forming machine for taped axial components

TP7

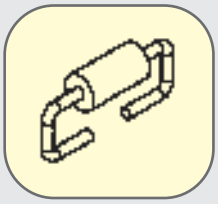
macchina automatica taglia piega forma componenti assiali nastrati



electrical power = 220 v or 110 v - 50hz – 50va

alimentazione = 220 v o 110 v- 50hz – 50va

length = 62 cm
width = 30 cm
height = 82 cm
dimensions = 62x62x82 cm
volume = 0,31m3
machine weight = 52 kg
gross weight = 53 kg
crated weight = 68 kg

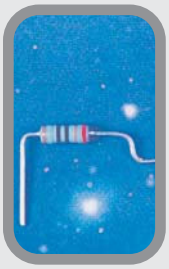


lungh. = 62 cm
largh. = 30 cm
alt. = 82 cm
imballo = 62x62x82 cm
volume = 0,31m3
peso macchina = 52 kg
peso lordo = 53 kg
cassa legno = 68 kg

speed = 1.200 parts/hour
produzione = 1.200 pezzi/ora

Special automatic machine designed to cut, bend and form axial taped components to customer's specifications. The mechanical design of the SP line machine has been used for the TP7 machine with the addition of a PLC which controls the operation of the pneumatic cylinders. The tape feeds horizontally and the components are processed one by one with the leads held and secured on both sides of the body before the cut and during the forming operations to avoid any possible damage to the components.

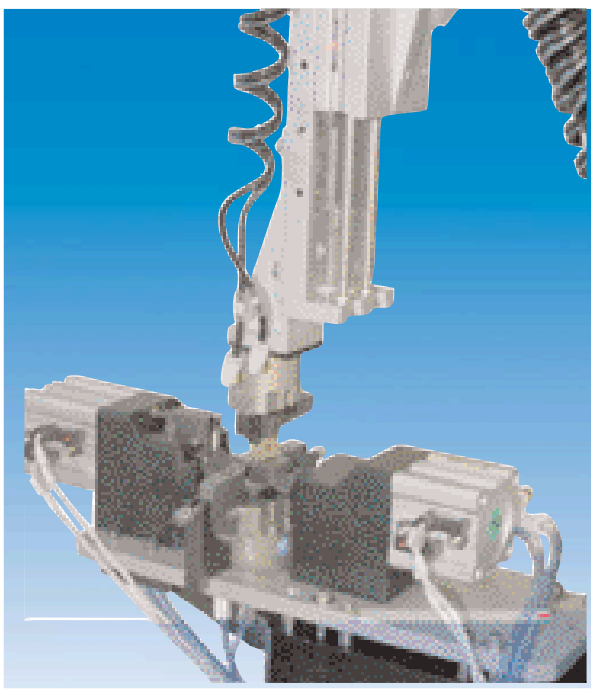
E' una macchina automatica speciale progettata per il taglio, la piega e la preformatura di componenti assiali nastrati su specifiche del cliente. Utilizza la meccanica dell'ormai collaudata linea SP e viene fornita completamente automatica con un PLC che comanda i cilindri pneumatici. L'avanzamento del nastro avviene su asse orizzontale ed i componenti vengono lavorati singolarmente con operazione verticale dall'alto verso il basso. I reofori del componente vengono bloccati a destra e a sinistra del corpo prima del taglio e durante le operazioni di preformatura in modo da evitare ogni possibilità di danneggiare i componenti.

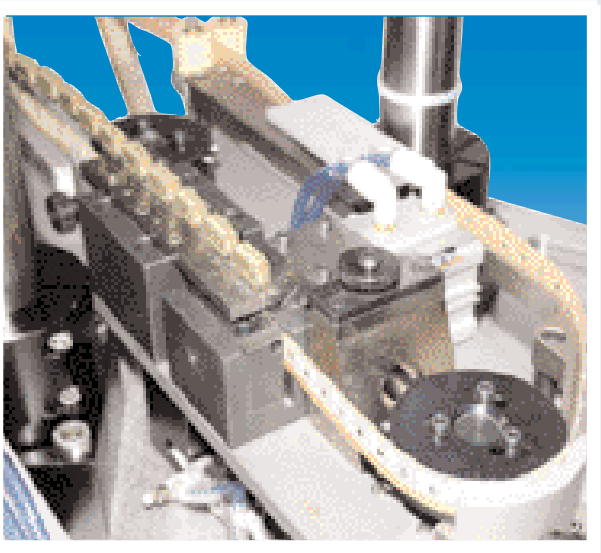


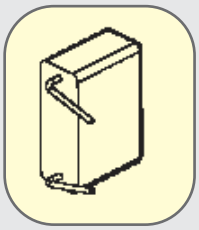
automatic step by step machine for cutting, forming and positioning taped radial filters

SP 34.01

macchina automatica taglio preformatura e posizionamento filtri nastrati







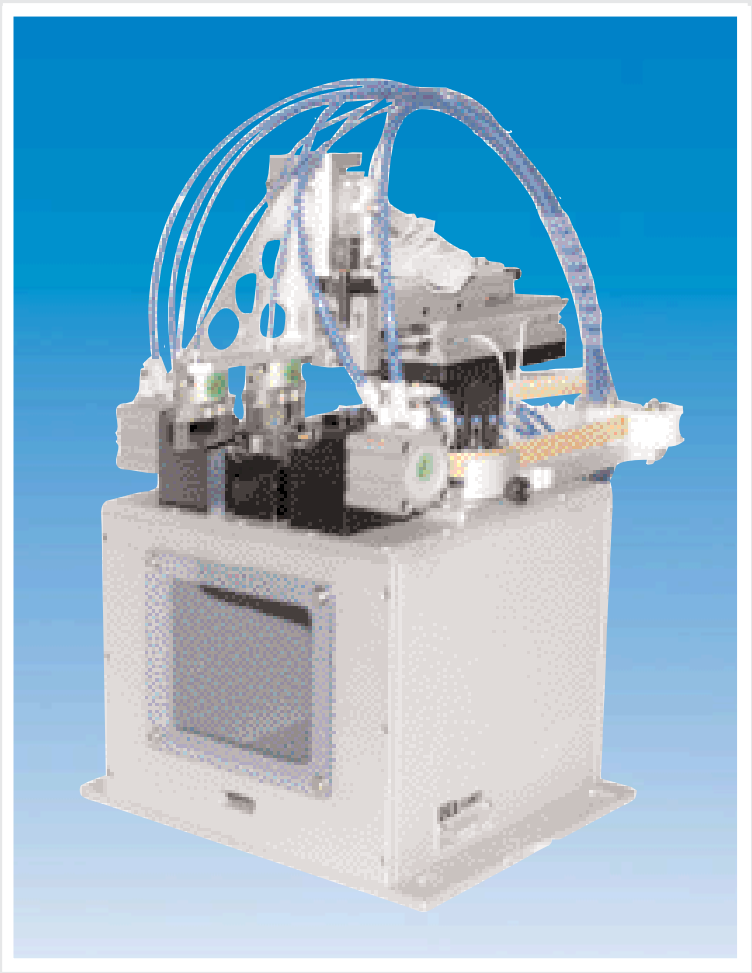
SP34.01 automatic step by step machine for cutting, forming and positioning taped radial filters.
This is an example of an automatic hand "manipulator" that Olamef designed and manufactured to pick up radial components from tape, to operate lead bending or forming at intermediate sites and to position the finished part where the customer needs it.

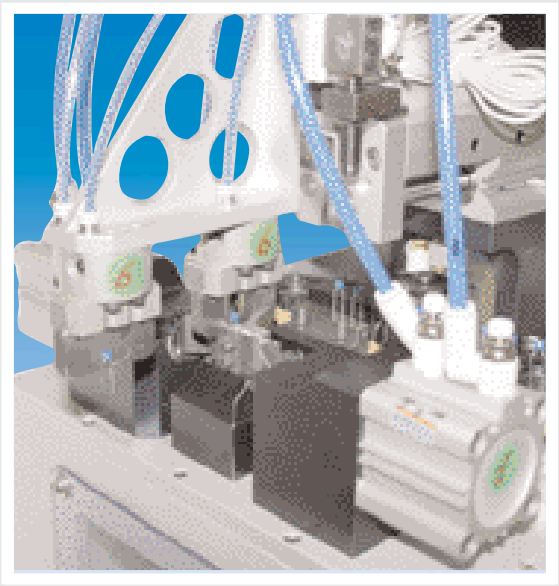
La SP34.01 è macchina automatica per il taglio, la preformatura e il posizionamento filtri.
E' un esempio di manipolatore che la Olamef realizza per prelevare i componenti radiali dal nastro, effettuare lavorazioni ai reofori in una o più postazioni intermedie e per posizionare il componente dove necessita il cliente.

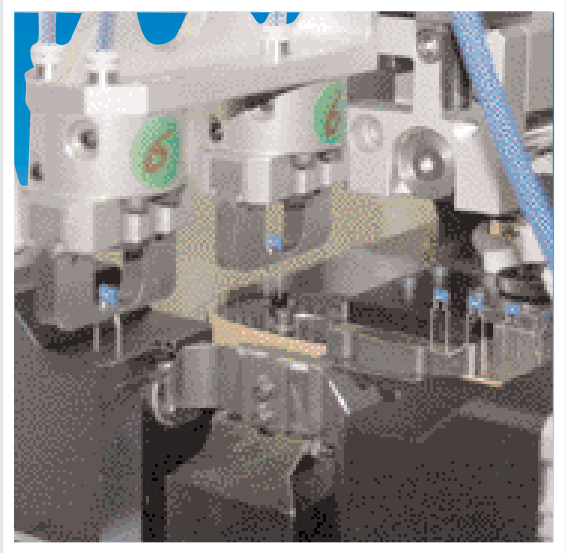
pneumatic machine for adjustable cut and form for taped capacitors

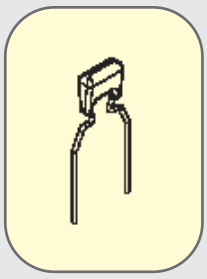
SP 27.02

macchina pneumatica taglio registrabile e preformatura condensatori nastrati









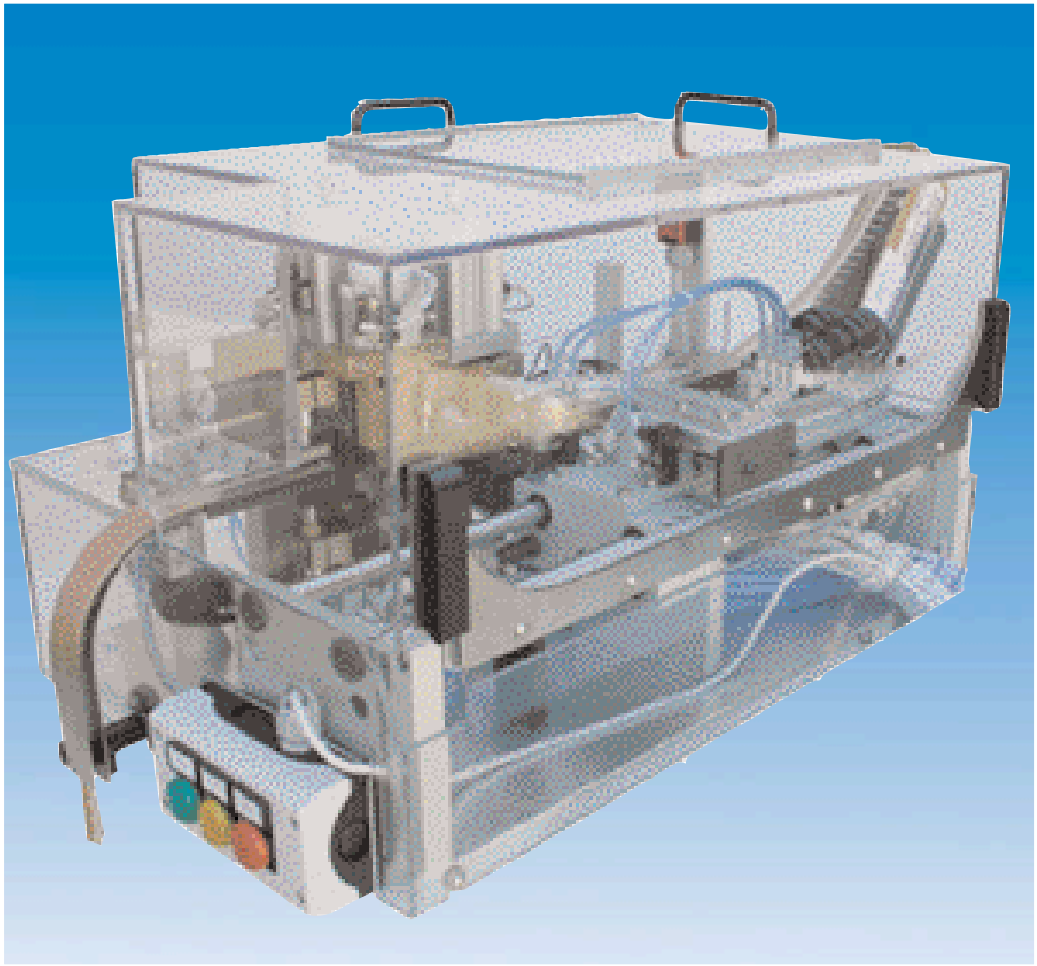
SP27.02 is a pneumatic machine for adjustable cut and form to p=8 mm for taped capacitors at p=12,7 mm.
To increase production, two grippers are utilized by this model to move components between the two operation strokes at the same time, thus reducing time.

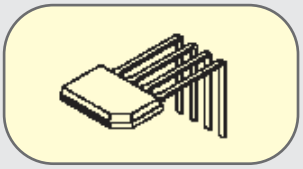
La SP 27.02 è una macchina pneumatica taglio registrabile e la preformatura a p=8 di condensatori nastrati a p=12,7.
Per aumentare la produzione questo modello utilizza due pinze che contemporaneamente spostano i componenti fra le due fasi di lavoro, quindi diminuendo il tempo ciclo.

automatic, pneumatic cutting and forming machine for taped Hall transistors

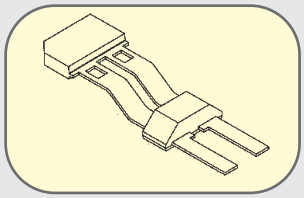
SP 26

macchina automatica, pneumatica avanzamento nastro, centratura, taglio e forma per transistors Hall nastrati





SP26.05
Automatic, pneumatic cutting & 90° bending machine for taped radial Hall transistors.
Macchina automatica, pneumatica per il taglio e la piega a 90° dei Transistor Hall



SP26.06
Automatic, pneumatic cutting & bending machine for taped radial Hall transistors.
Macchina automatica, pneumatica per il taglio e la piega dei transistor

SP26 is an automatic, pneumatic cutting and forming machine for taped hall transistors.
This machine was designed to operate Hall Transistors which are very delicate and weak and need perfect positioning on the forming die.
The model SP26 is equipped with a pneumatic centring gripper that locks the body of the component. After cutting the component from the tape the gripper moves it to the subsequent step (i.e. 90° bending, SMD form or other forms) and finally places it into a bin or into a set point where a mechanical hand (robot) can pick it up.

La SP26 è macchina automatica, pneumatica avanzamento nastro, centratura, taglio e forma per transistors Hall nastrati.
Questa macchina è stata studiata per la lavorazione dei transistor Hall, i quali sono molto delicati e necessitano di molta precisione nel posizionamento sulla matrice di preformatura. Il modello SP26 infatti utilizza una pinza pneumatica di centraggio e blocca il corpo del componente. Dopo il taglio dal nastro lo sposta alla fase successiva (piega a 90°, forma a SMD o preformature varie) ed infine lo deposita in un cassettino oppure in un punto fisso per il prelievo da parte di una mano meccanica (robot).

pneumatic machine for cutting and forming taped thermistors to customer's specifications

SP 27.01

macchina pneumatica taglio preformatura a disegno termistori nastrati

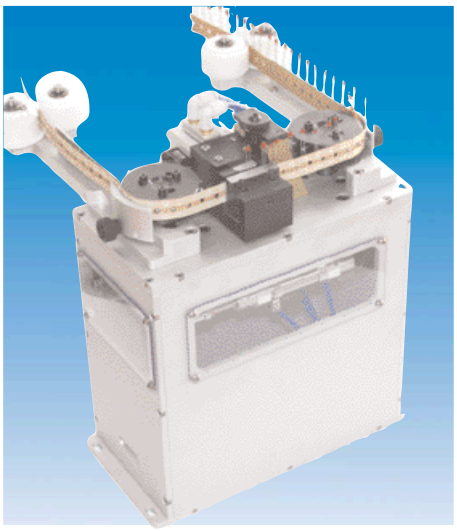
SP27.01 pneumatic machine for cutting and forming taped thermistors to customer's specifications

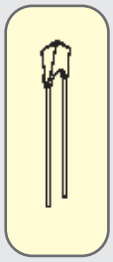
macchina pneumatica taglio preformatura a disegno termistori nastrati

pneumatic step by step feeder for cut taped radial components (fit robot systems)

SP21

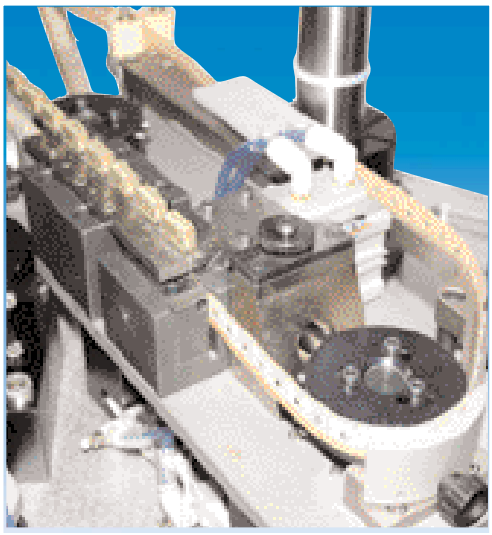
alimentatore pneumatico passo passo per taglio componenti radiali nastrati

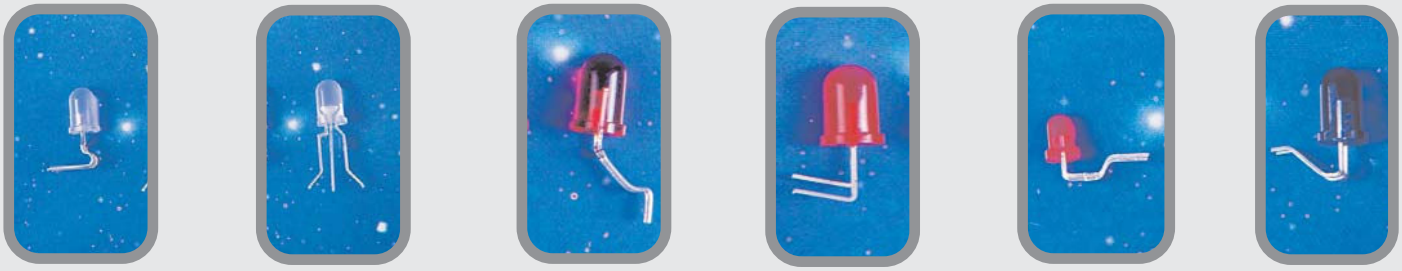




SP21 pneumatic step by step feeder to cut taped radial components (to fit robot systems)

alimentatore pneumatico passo passo per taglio componenti radiali nastrati

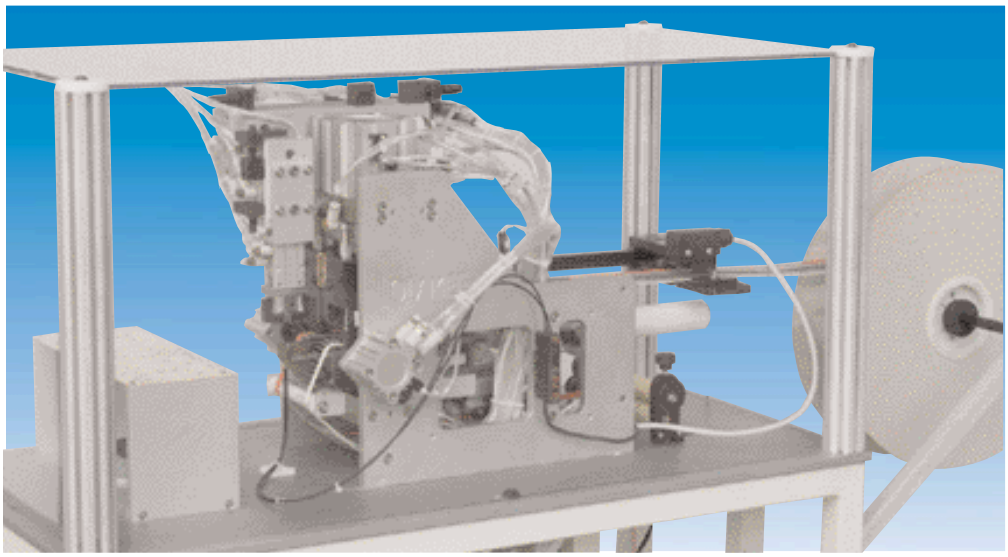


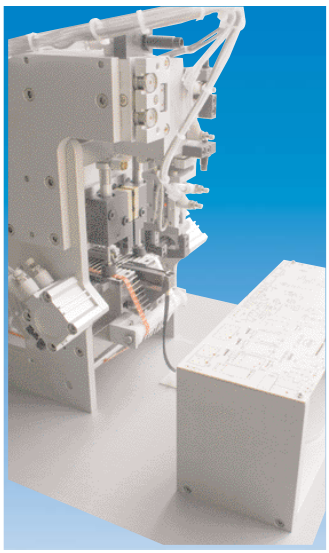


automatic placement machine for traditional components

SP 2006

inseritrice automatica per componenti tradizionali

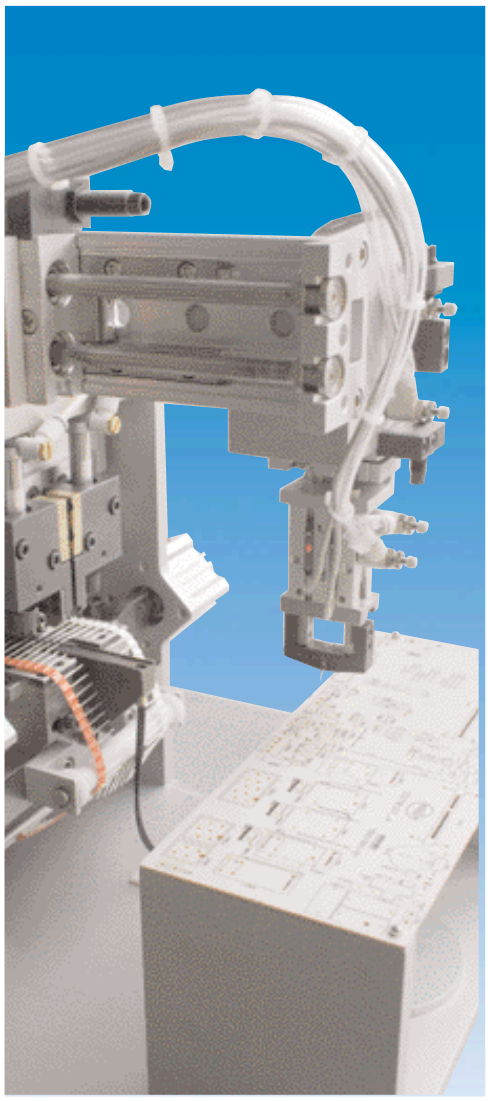




new

Thanks to the experience matured with the manufacturing of hundreds special feeders for axial and radial components (SP21, SP22, SP26, SP27) Olamef designed this bench placement machine for through hole components.
It is an automatic machine designed for cutting, bending and eventually forming taped axial components that will subsequently be inserted into a circuit Board by the same machine,s manipulator. The machine can be supplied in different versions:
It can operate as a selfstanding station with manual load and unload of the P.C.Boards; it can be located in line. In this case the components are inserted into the P. C. Board which is directly positioned on a conveyor belt or on a load/unload system and this will make the operation fully automatic.
It can be realised on customer's request and beside axial and radial parts it can be designed to place also TO-220 transistors, ICs, connectors and other components in tube.

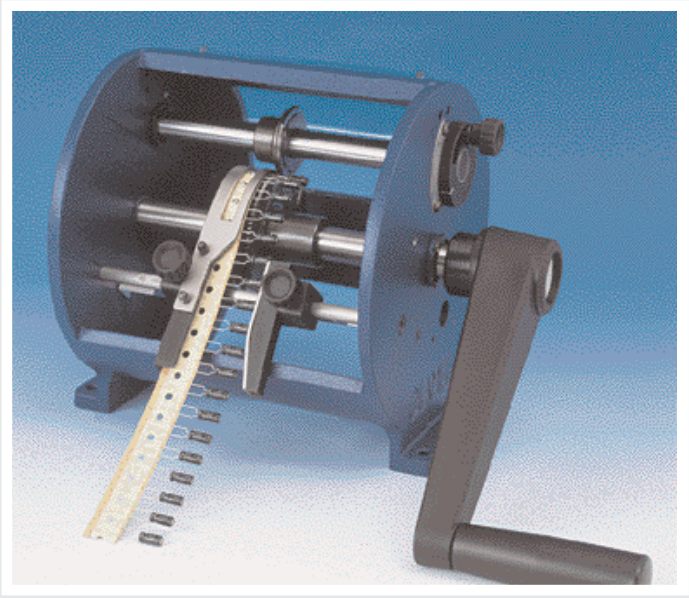
Grazie all'esperienza maturata nella realizzazione di centinaia di alimentatori speciali sia per componenti assiali che radiali (SP21, SP22, SP26, SP27) la Olamef ha realizzato questa inseritrice da banco per componenti tradizionali.
Può essere fornita come stazione individuale applicabile anche direttamente sul nastro della linea SMD, oppure può essere realizzato un banco di inserimento con più moduli, ognuno dei quali realizza una forma specifica su componenti assiali o radiali e li inserisce automaticamente sulle schede alimentate da un nastro trasportatore.
Entrambe i sistemi sono realizzati secondo le richieste del cliente e possono inserire, oltre ai componenti assiali e radiali, anche transistors (TO-220), integrati, connettori ed altri componenti da stecca.



cutting machine for taped radial components

TP6/R

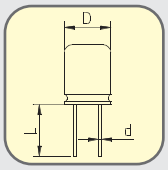
macchina taglia componenti radiali nastrati

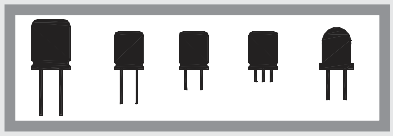


LENGTH = 23 cm
WIDTH = 18 cm
HEIGHT = 21 cm
PACKING = 39x25x26 cm
VOLUME: 0,025 m³
MACHINE WEIGHT = 4 kg
GROSS WEIGHT = 5 kg

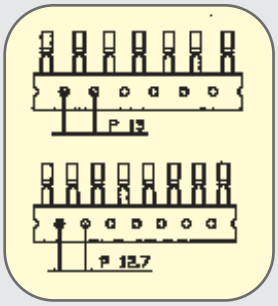
LUNG. = 23 cm
LARGH. = 18 cm
ALT. = 21 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 4 kg
PESO LORDO = 5 kg

	MM		IN	
	min	max	min	max
L	2	10	.078	.393
d	0,4	1	.015	.039
D	1	14	0.39	.55





LEAD DIA. = 0,4 - 1 mm
(.015-.039")
PRODUCTION = 20.000 p/h
DIAM. REOFORO = 0,4 - 1 mm
PRODUZIONE = 20.000 p/h



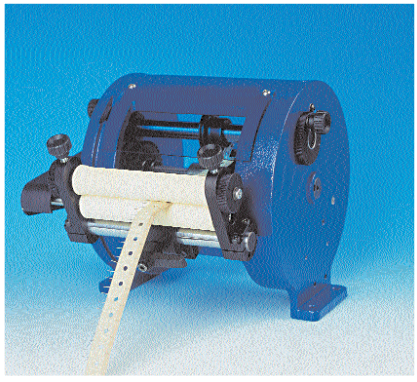
30.OL21 P.12,7 mm (0,5")
30.OL22 P.15 mm (.59")

Ease of set up and use - Facilità di uso e regolazione
No maintenance needed - Non richiede manutenzione

optional accessories — accessori opzionali

400200 BR6
Reel Holder
Braccio porta bobina

7915030/31 MOT98
MOTOR
MOTORE



21.0011 TNS
Waste tape ejector
Espulsore nastro di scarto

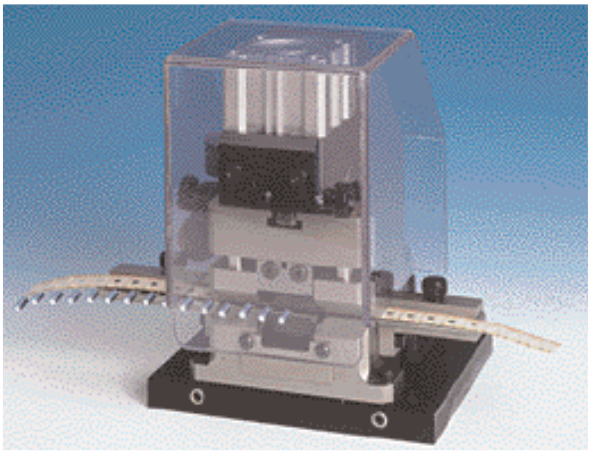
The machine Model TP6/R is designed for cutting radial components on tape. It can be supplied in two versions for two types of tape: i.e. with hole pitch = 12,7 or 15mm (.5 or .59").

Il modello TP6/R viene utilizzato per tagliare i componenti radiali nastrati.La macchina può essere fornita in due versioni per lavorare due tipi più comuni di nastratura, cioé con fori a passo 12,7 o 15 mm.

pneumatic cutting forming machine for taped radial components

TP R-PR

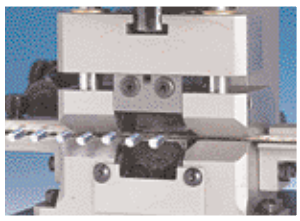
macchina pneumatica taglia forma componenti radiali nastrati



TP/R-PR cod. 90.0000
Manual version - Versione manuale

LUNG. = 24 cm
LARGH. = 22 cm
ALT. = 24 cm
IMBALLO = 41x53x32 cm
VOLUME = 0,069 m³
PESO MACCHINA = 10 kg
PESO LORDO = 12 kg

LENGTH = 24 cm
WIDTH = 22 cm
HEIGHT = 24 cm
PACKING = 41x53x32 cm
VOLUME = 0,069 m³
MACHINE WEIGHT = 10 kg
GROSS WEIGHT = 12 kg



SMS preforming assembly (see next page) for the TP/R-PR machine. SMS is not included in the machine price and needs to be ordered separately.

SMS gruppo di preformatura (vedi pag.successiva) che deve essere sempre ordinato con la macchina TP/R-PR non incluso nel costo della macchina

The model TP/R-PR is a pneumatic machine with foot pedal control designed for cutting and forming taped radial components. The tape is manually fed into the die and position is easily adjusted. The die assembly "SMS" is equipped with a wire holder to keep the leads firm in position during the machine operation avoiding any stress or damage to the part. Changing the "SMS" is very quick and easy.

Il modello TP/R-PR è una macchina pneumatica con comando a pedale per il taglio e la preformatura di componenti radiali nastrati. Il nastro è alimentato manualmente all'interno della matrice e la sua posizione è impostata facilmente. Il gruppo di preformatura "SMS" è sempre fornito con premi-filo per mantenere i reofori nella corretta posizione durante la lavorazione della macchina in modo da evitare stress o danni al componente. La sostituzione dell'"SMS", per variare la forma, richiede pochi minuti.

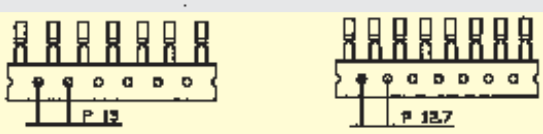
optional accessories

accessori opzionali

AS1
COMPLETE WITH PLATE, DRIVING WHEELS AND SUPPORT FOR TAPE AND REEL.
(Cod. 95.OL11 = 110V - 95.OL12 = 220V)

COMPLETO DI PIASTRA, ANELLI DI TRASCINAMENTO E SUPPORTO PER NASTRO IN BOBINA

TP/R-PR with SMS and AS1 automatic feeding system
TP/R-PR con SMS e AS1 sistema automatico di alimentazione



PRODUCTION ON TP/R-PR = 7000 p/h
ELECT.SUPPLY = 220 or 110V - 50 Hz - 100 VA
LENGTH = 50 cm
WIDTH = 60 cm
HEIGHT = 18 cm
PACKING = 60x60x30 cm
VOLUME = 0,108 m³
NET WEIGHT = 15 kg
GROSS WEIGHT = 18 kg

PRODUZIONE SU TP/R-PR = 7.000 p/h
ALIMENTAZIONE = 220V - 50 Hz -100VA
LUNG. = 50 cm
LARGH. = 60 cm
ALT. = 18 cm
IMBALLO = 60x60x30 cm
VOLUME = 0,108 m³
PESO NETTO = 15 kg
PESO LORDO = 18 kg

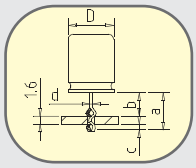
The AS1 is a feeding system designed for the TP/R-PR machine. It allows to reach higher production. It can be supplied to adapt to the two most common component tape hole pitches: 12,7 mm(.5") code 95.OL11 for 110 v and 95.OL12 for 220 v or 15 mm (.59") code 95.OL13 for 110 v and 95.OL14 for 220 v.

l'AS1 è un sistema automatico adattabile solo alla TP/R-PR. Questa attrezzatura consente alla macchina di effettuare una maggiore produzione. Può essere fornito in due versioni per lavorare i due più comuni passi di nastratura e cioè: 12,7 mm cod. 95.OL12 oppure 15 mm cod. 95.OL14.

standard SMS die assemblies for TP/R-PR machine

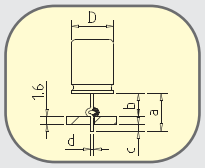
SMS gruppi standard di preformatura per macchina TP/R-PR

SMS/1 STAND OFF- LOCK IN
SMS/1 DOPPIA ANSA
(Cod. 93.0001)



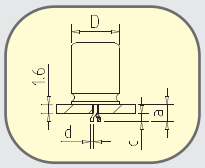
	MM			IN		
	min	max	fix	min	max	fix
a	6	13		.236	.511	
b	3	10		.118	.393	
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	10		.039	.393	

SMS/2 STAND OFF
SMS/2 ANSA IN APPOGGIO
(Cod. 93.0002)



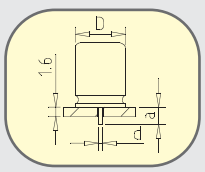
	MM			IN		
	min	max	fix	min	max	fix
a	6	13		.236	.511	
b	3	10		.118	.393	
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	10		.039	.393	

SMS/3 BODY LOCKED ON P.C.BOARD
SMS/3 ANSA A BLOCCAGGIO CON CORPO A BATTUTA
(Cod. 93.0003)



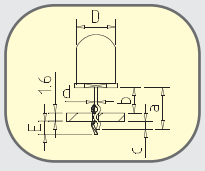
	MM			IN		
	min	max	fix	min	max	fix
a			3			.118
c			1,4			.055
d*	0,4	0,8		.015	.031	
D	1	10		.039	.393	

SMS/4 STRAIGHT CUT
SMS/4 SOLO TAGLIO
(Cod. 93.0004)



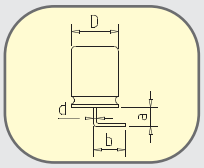
	MM			IN		
	min	max	fix	min	max	fix
a	3	10		.118	.393	
d	0,4	0,8		.015	.031	
D	1	10		.039	.393	

SMS/5 POLARITY
SMS/5 POLARITA'
(Cod. 93.0005)



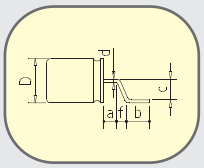
	MM			IN		
	min	max	fix	min	max	fix
a	6	13		.236	.511	
b	3	10		.118	.393	
c			1,4			.055
d*	0,4	0,8		.015	.031	
D	1	10		.039	.393	
E*			2,2			.086

SMS/6 90° BENDING
SMS/6 PIEGA A 90°
(Cod. 93.0006)



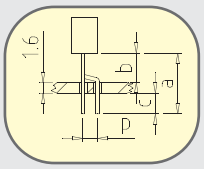
	MM			IN		
	min	max	fix	min	max	fix
a	3	8		.118	.314	
b*			6			.236
d*	0,4	0,8		.015	.031	
D*	1	6		.039	.236	

SMS/7 SURFACE MOUNTING
SMS/7 MONTAGGIO IN SUPERFICIE
(Cod. 93.0007)



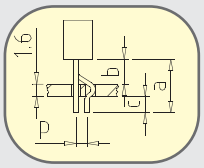
	MM			IN		
	min	max	fix	min	max	fix
a	2,5	8		.098	.314	
b*			2			.078
c*			2,5			.098
d*	0,4	0,8		.015	.031	
D*	1	10		.039	.393	
f*			1			.039

SMS/8 TO92 CENTER LEAD SPREAD P.1,27 AND CUT
SMS/8 TO92 REOFORO CENTRALE SPOSTATO P.1,27
(Cod. 93.0008)



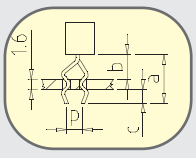
	MM			IN		
	min	max	fix	min	max	fix
a	6	9		.236	.354	
b	3	6		.118	.236	
c			1,4			.055
p*			1,27			.05

SMS/10 T092 CENTER LEAD SPREAD AND LOCK
SMS/10 TO92 REOFORO CENTRALE SPOSTATO CON ANSA A BLOCCAGGIO
(Cod. 93.0010)



	MM			IN		
	min	max	fix	min	max	fix
a	6	9		.236	.354	
b	3	6		.118	.236	
c			1,4			.055
p*			1,27			.05

SMS/11 TO92 CENTER LEAD SPREAD 3 LEAD LOCK
SMS/11 TO92 REOFORO CENTRALE SPOSTATO E DOPPIA ANSA SU TRE REOFORI
(Cod. 93.0011)

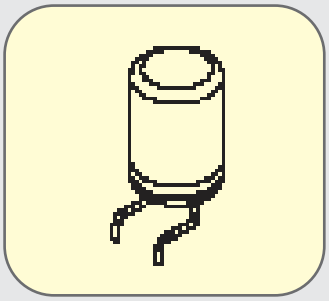
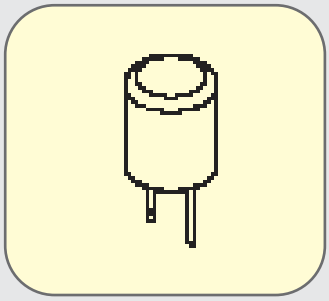
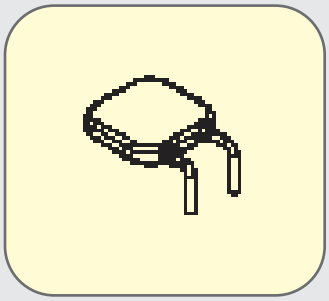
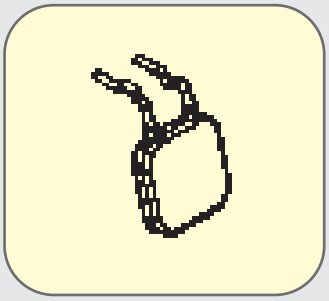
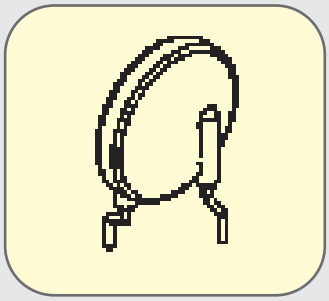
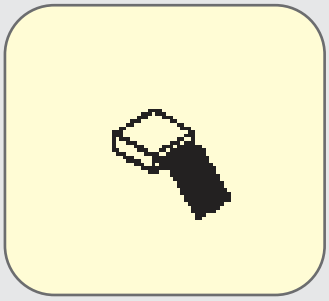
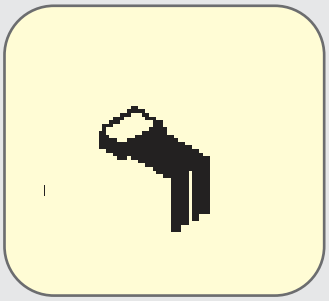
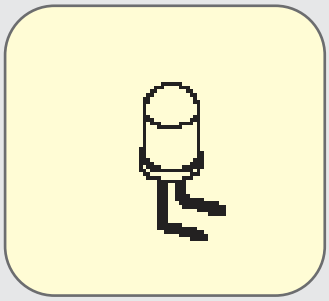
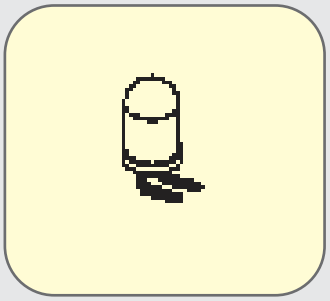
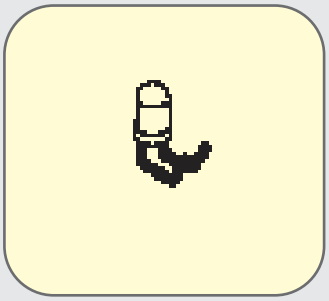
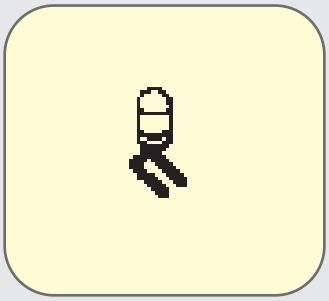
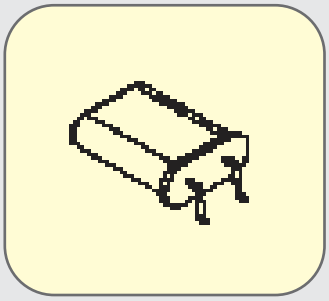
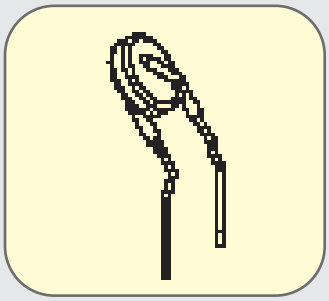
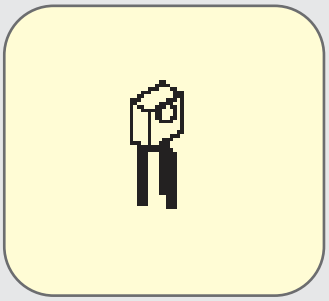
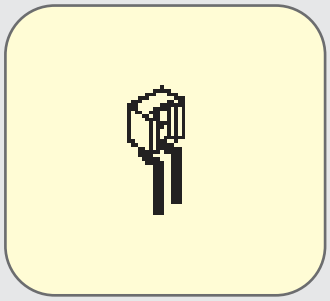


	MM			IN		
	min	max	fix	min	max	fix
a	6	9		.236	.354	
b	3	6		.118	.236	
c			1,4			.055
p*			1,27			.05

***= quote to be specified upon order**
***= quota da comunicare all'ordine**

Forms realised with special SMS

Forme realizzate con SMS speciali

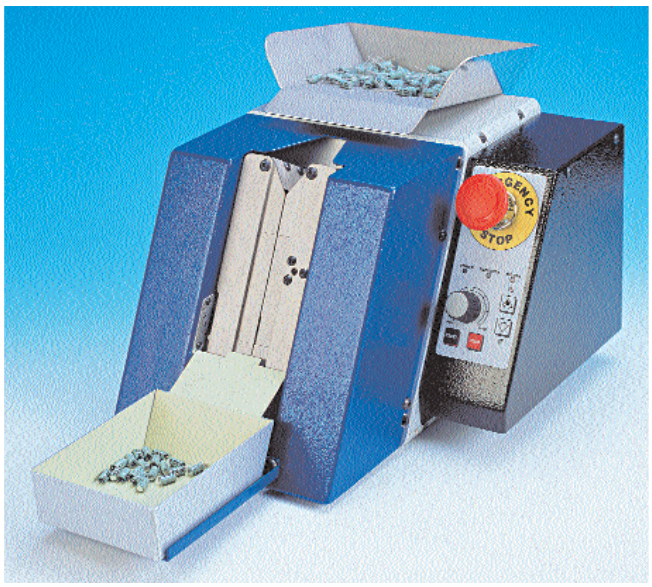
We are always designing more and more new forms in order to satisfy the always increasing customer request for special applications.

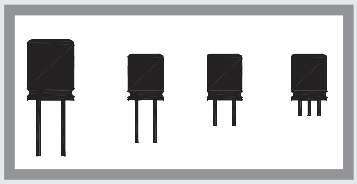
Progettiamo sempre molte nuove forme per soddisfare la crescente esigenza di applicazioni speciali.

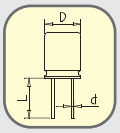
cutting machine for loose radial components

TP TC4

macchina taglia componenti radiali sfusi







	MM		IN	
	min	max	min	max
L	3	12	.118	.472
d	0,4	0,8	.015	.031
D	1	15	0.39	.590

TP/TC4
110v 74.OL21 – 220v 74.OL22

THE LENGTH OF THE LEADS IN ORIGIN SHALL BE MINIMUM L + 6 mm (.236")

LA LUNGHEZZA DEI REOFORI IN ORIGINE DEVE ESSERE MINIMO L + 6 mm

LEAD DIA. = 0,4 - 0,8 mm (.015-.031")
PRODUCTION = LOOSE 3.000 p/h
TAPED 15.000 p/h
DIAM. REOFORO = 0,4 - 0,8 mm
PRODUZIONE = SFUSO 3.000 p/h
NASTRATO 15.000 p/h

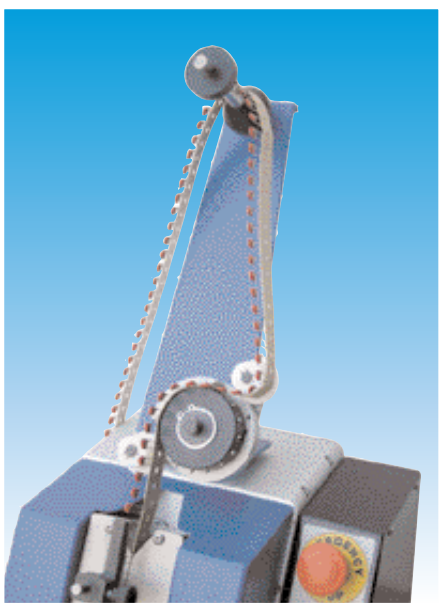
ELECT.SUPPLY = 220 or 110V - 50 Hz - 50 VA
WIDTH= 27 cm
DEPTH = 47 cm
HEIGHT = 27 cm
PACKING = 40x30x24 cm
VOLUME = 0,028 m³
MACHINE WEIGHT = 12 kg
GROSS WEIGHT = 19 kg

ALIMENTAZIONE = 220V - 50 Hz - 50VA
LARGH.= 27 cm
PROFONDITA' = 47 cm
ALT. = 27 cm
IMBALLO = 40x30x24 cm
VOLUME = 0,028 m³
PESO MACCHINA = 12 kg
PESO LORDO = 19 kg

The TP/TC4 machine is designed to cut loose radial components. The speed and cutting height are adjustable. The machine stops when the front cover is removed from the machine.

La macchina TP/TC4 è utilizzata per il taglio di componenti radiali sfusi. Velocità ed altezza di taglio regolabili. L'alimentazione s'interrompe quando lo sportello frontale viene rimosso dalla macchina.

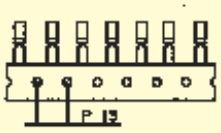
optional accessories — accessori opzionali

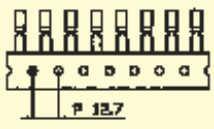


BR3 78.0001 (p.12,7mm/.5")
BR3 78.0002 (p.15mm/.59")
reel holder
braccio porta bobina

This accessory can be attached to the TP/TC4 machine to allow the quick cut of radial components in tape and reel. It is available in two versions: for tape with 12,7 or 15 mm Pitch.

L'accessorio BR3 può essere applicato alla macchina TP/TC4 quando sia necessario lavorare componenti radiali nastrati.
Può essere fornito in due versioni: per il nastro a passo 12,7 oppure 15 mm.

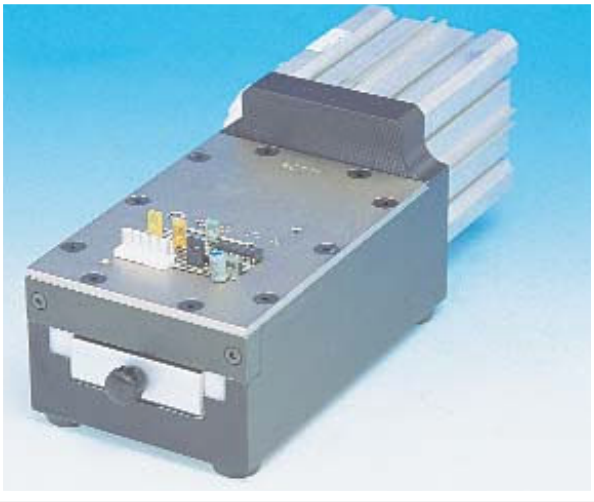


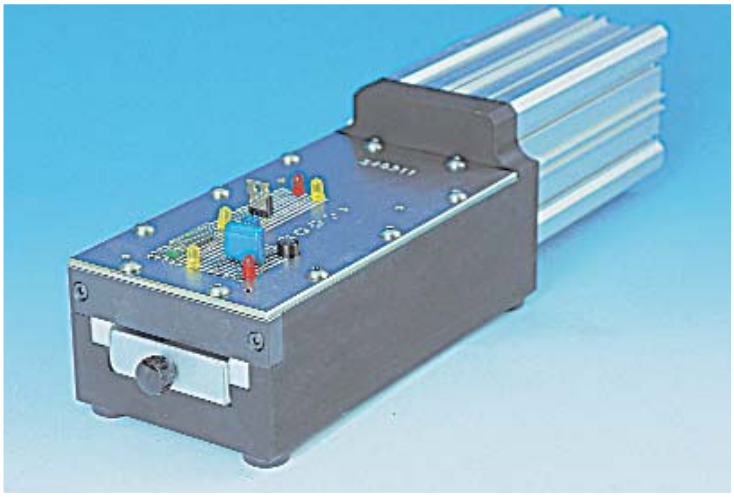


pneumatic cutting machine for loose radial components

TP/LN 500

macchina pneumatica taglia componenti radiali sfusi





TP/LN-500/1 34.0001
Cutting area 53x43mm (2.09x1.7") with Standard Stationary plate 340111 to be separately ordered
Area di lavoro 53x43mm con Piastra Fissa Standard 340111 da essere ordinata separatamente

TP/LN-500/2 34.0002
Cutting area 53x93mm (2.09x3.66") with Standard Stationary plate 340211 to be separately ordered
Area di lavoro 53x93mm con Piastra Fissa Standard 340211 da essere ordinata separatamente

Very special version can be designed and manufactured on customer's demand.
Versioni molto speciali possono essere progettate e prodotte su richiesta del cliente

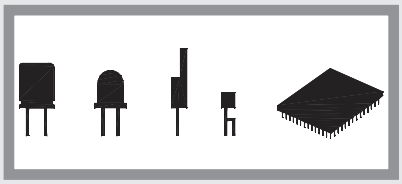
DIAM. REOFORO = 0,3 - 1,3 mm
PRODUZIONE = 3.000 p/h
LEAD DIA. = 0,3 - 1,3 mm (.011-.051")
PRODUCTION = 3.000 p/h

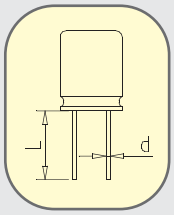
LENGTH = 25 cm
WIDTH = 10 cm
HEIGHT = 10 cm
PACKING = 39x25x26 cm
VOLUME = 0,025 m³
MACHINE WEIGHT = 5 kg
GROSS WEIGHT = 6 kg

LUNG. = 25 cm
LARGH. = 10 cm
ALT. = 10 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 5 kg
PESO LORDO = 6 kg

The pneumatic machine TP/LN-500/1 and /2 cuts the leads of any kind of radial components regardless of the diameter, material, pitch and form because it uses a cobalt "guillotine" blade. The upper plate which determines the cutting height (standard 3,2mm .125") has always to be ordered separately by the machine because most of the times they have to be designed in special way to be adapted to the component requested height, forms and pitches.Additional plates to increase height can be supplied upon request

La macchina pneumatica TP/LN-500/1 e /2 può tagliare componenti radiali sfusi di qualsiasi tipo, materiale, passo, forma e diametro dato che utilizza una lama al cobalto tipo "ghigliottina".
La piastra superiore che determina l'altezza di taglio (standard 3,2mm) deve sempre essere ordinata separatamente dalla macchina poiché nella maggioranza dei casi deve essere progettata in modo speciale per adattarsi alle altezze, forme e passi richiesti.
Piastrine addizionali per aumentare l'altezza possono essere fornite a richiesta



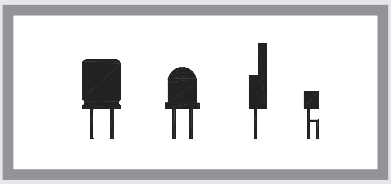


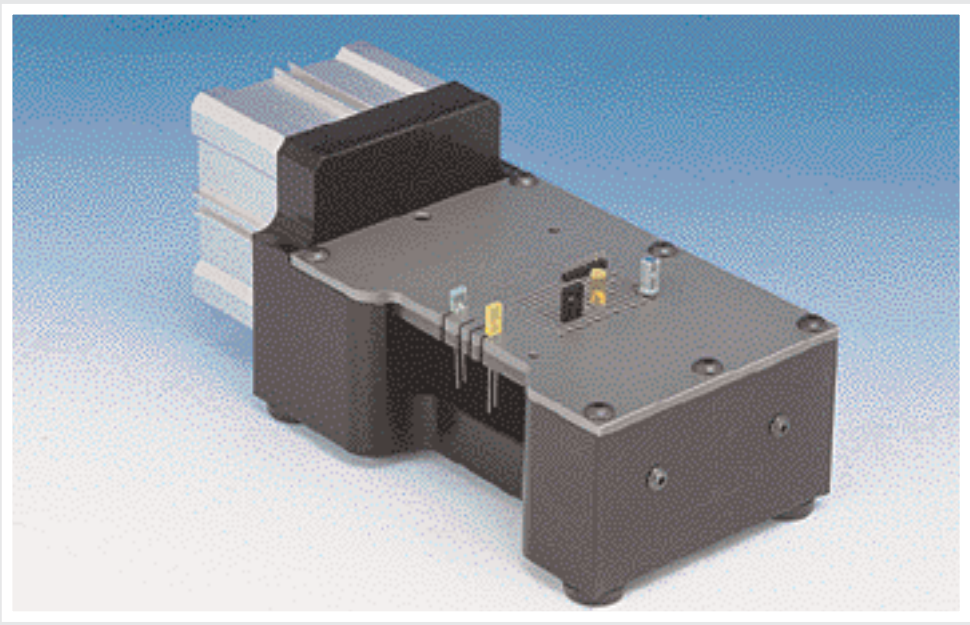
	MM			IN		
	min	max	fix	min	max	fix
L			3,2			.125
d	0,3	1.3		.011	.051	

pneumatic cutting machine for loose radial components

TP/LN 100

macchina pneumatica taglia componenti radiali sfusi





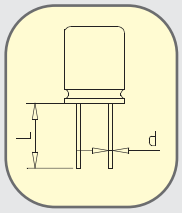
LENGTH = 21 cm
WIDTH = 10 cm
HEIGHT = 10 cm
PACKING = 39x25x26 cm
VOLUME = 0,025 m³
MACHINE WEIGHT = 3 kg
GROSS WEIGHT = 5 kg

LUNG. = 21 cm
LARGH. = 10 cm
ALT. = 10 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 3 kg
PESO LORDO = 5 kg

TP/LN-100 - Cod. 36.0001
cutting area 45x54 mm (1.77 x2.12")
area di lavoro 45x54 mm

LEAD DIA. = 0,3 - 1 mm (.011-.039")
PRODUCTION = 3.000 p/h
DIAM. REOFORO = 0,3 - 1 mm
PRODUZIONE = 3.000 p/h

	MM			IN		
	min	max	fix	min	max	fix
L			3,2			.125
d	0,3	1		.011	.039	



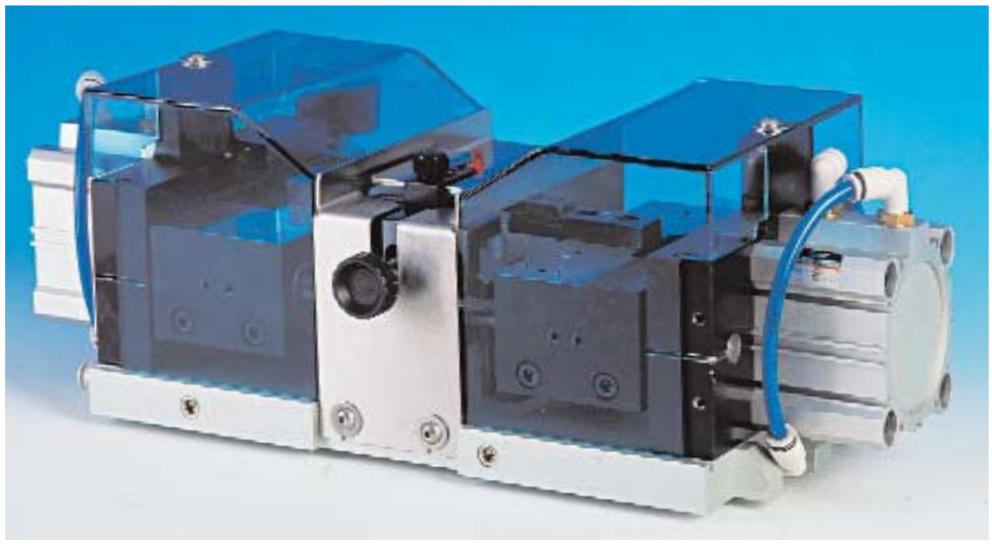
The pneumatic machine TP/LN-100 is used for cutting the leads of loose radial components. It was designed to adapt to a very wide range of radial parts.
The upper stationary plate determines the cutting height; the standard is = 3,2 mm (.125 in). Additional plates to increase this height can be supplied upon request, starting from 0,5 mm (.019 inc.).
The pneumatic foot pedal controls the stroke of the lower plate, which performs a quick cut of the leads, without any stress to the components.
The plates have a standard grid patern, to accomodate most types of components. Plates with special grid patern can be provided upon request.
Lateral cuts at most common pitches allow to easily handle warped leads.

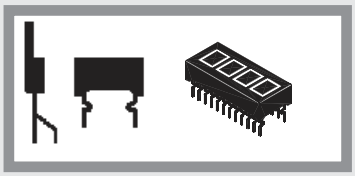
La macchina pneumatica TP/LN-100 é utilizzata per tagliare i reofori dei componenti radiali sfusi. Essa é stata concepita per adattarsi ad una grandissima varietà di componenti radiali, di qualsiasi passo e forma.
La piastra superiore determina l'altezza del taglio, standard a 3,2mm. Piastrine addizionali a partire da 0,5mm possono essere fornite, a richiesta del cliente, per variare tale quota.
Il pedale pneumatico comanda la corsa della piastra inferiore, che effettua rapidamente il taglio dei reofori, senza alcuno stress per i componenti.
Le piastre sono predisposte con foratura standard. Piastre speciali per componenti, passi o diametri particolari possono essere fornite a richiesta.
Tagli laterali ai passi più consueti consentono di trattare con estrema facilità anche reofori deformati.

pneumatic
cutting
forming machine
for loose radial
components

TP/TS1
TP/SC4

macchina
pneumatica
taglia forma
componenti
radiali sfusi



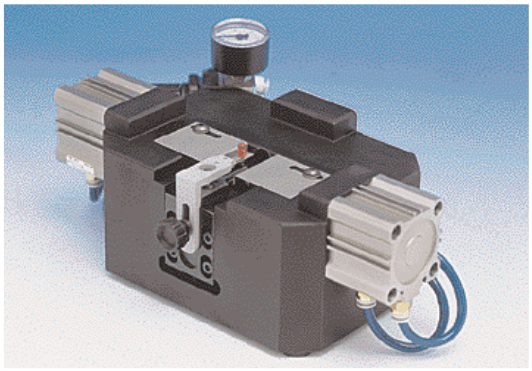


LENGTH = 39 cm
WIDTH = 23 cm
HEIGHT = 14 cm
PACKING = 45x40x27 cm
VOLUME: 0,0486 m³
MACHINE WEIGHT = 13 kg
GROSS WEIGHT = 14 kg

LUNG. = 39 cm
LARGH. = 23 cm
ALT. = 14 cm
IMBALLO = 45x40x27 cm
VOLUME = 0,0486 m³
PESO MACCHINA = 13 kg
PESO LORDO = 14 kg

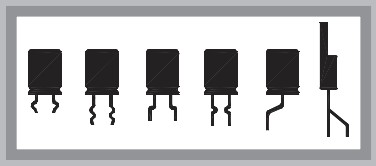
TP/TS1 18.0000
Standard without forming die
Standard senza matrici

LEAD DIA. = 0,3-1,2 mm.(.011-.047)
PRODUCTION = 2.000 p/h
DIAM. REOFORO = 0,3-1,2mm.
PRODUZIONE = 2.000 p/h



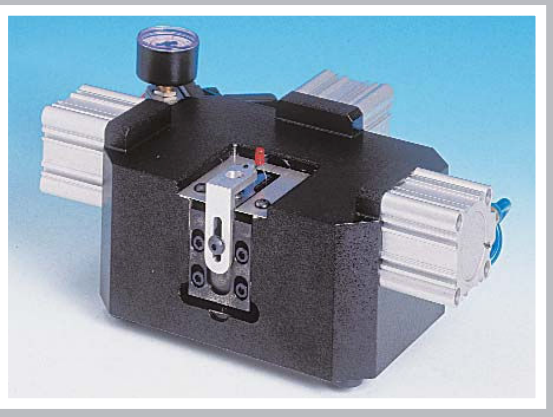
TP/SC4 16.0000
Standard 2 cylinders
without forming die

Standard 2 cilindri
senza matrici

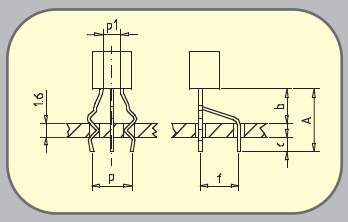


LEAD DIA. = 0,3 - 0,8mm (.011-.031")
PRODUCTION = 2.000 p/h
DIAM. REOFORO = 0,3 - 0,8 mm
PRODUZIONE = 2.000 p/h

LENGTH = 27 cm
WIDTH = 24 cm
HEIGHT = 11 cm
PACKING = 39x25x27 cm
VOLUME = 0,034 m³
MACHINE WEIGHT = 8 kg
GROSS WEIGHT = 10 kg



LUNG. = 27 cm
LARGH. = 24 cm
ALT. = 11 cm
IMBALLO = 39x25x27 cm
VOLUME = 0,034 m³
PESO MACCHINA = 8 kg
PESO LORDO = 10 kg



*= quote to be specified upon order
*= quota da comunicare all'ordine

163000
CENTER LEAD SPREAD - DOUBLE KINK ON OUTER LEADS
ONLY SUPPLIED WITH TP/SC4 COD. 16.0100
REOFORO CENTRALE SPOSTATO - DOPPIA ANSA SU REOFORI ESTERNI DIVARICATI
SOLO FORNITO CON TP/SC4 COD. 16.0100

	MM			IN		
	min	max	fix	min	max	fix
A*			6,1			.24
b*			3			.122
c*			1,5			.059
f*			2.54			.1
p*			5,08			.2
p1*			2,54			.1

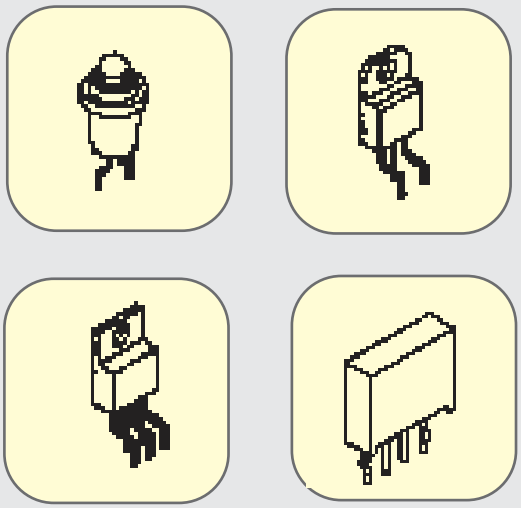
TP/SC4 16.0100
3 cylinders without forming die
3 cilindri senza matrici

forms realised with special die assemblies

forme realizzate con matrici speciali

The pneumatic machines TP/TS1 and TP/SC4 are very flexible equipment designed for cutting and forming loose radial components. A large number of dies are designed and manufactured to realise the mainly requested standard forms and special ones. They can be adapted to both machine apart one (163000) which needs the activation of a third cylinder that can only be with TP/SC4. It is possible to equip both machines, on request, with two wire holders in order to lock the leads between the body and the operation area

Le macchine pneumatiche TP/TS1 e TP/SC4 sono attrezzature estremamente versatili adatte al taglio e la formatura di componenti radiali sfusi. Un grande numero di matrici sono state progettate per realizzare forme standard maggiormente richieste e soprattutto forme speciali. Esse possono adattarsi ad entrambe le macchine ad esclusione di una (163000) che richiede l'attivazione di un terzo cilindro solo applicabile al modello TP/SC4. su entrambe le macchine è possibile utilizzare, a richiesta, due premifili per bloccare i reofori tra il corpo e la zona di preformatura.



Sturdy reliable and long lasting equipment
Attrezzatura forte e fatta per durare nel tempo

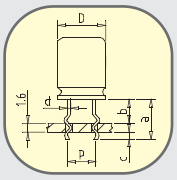
Ease of set up and use
facilità di regolazione ed uso

No maintenance needed
non richiede manutenzione

die assemblies for TP/SC4 and TP/TS1 machines

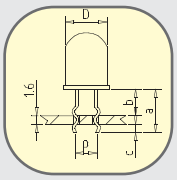
gruppi matrici per le macchine TP/SC4 e TP/TS1

160600/180600
STAND OFF-LOCK IN/DOUBLE KINK
DOPPIA ANSA/BLOCCAGGIO SU SCHEDASTAND
P:=2,54 - 5,08 - 7,62 - 10,16 mm (.1 -.2 - .3 - .4")



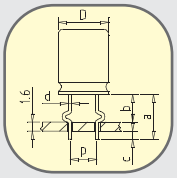
	MM			IN		
	min	max	fix	min	max	fix
a	5	15		.196	.590	
b	2	12		.078	.472	
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	15		.039	.590	

160700/180700
STAND OFF-LOCK IN LED/DOUBLE KINK
DOPPIA ANSA LED/BLOCCAGGIO SU SCHEDA
P.2,54 mm (.1")



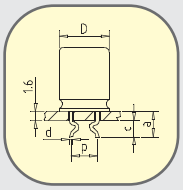
	MM			IN		
	min	max	fix	min	max	fix
a	5	15		.196	.590	
b	2	12		.078	.472	
c			1,4			.055
D	2	5		.078	.196	

160800/180800
STAND OFF-KINK OUTWARD
ANSA ESTERNA IN APPOGGIO SU SCHEDA
P:=2 - 2,54 - 5,08 - 7,62 - 10,16 mm (.78 - .1 -.2 - .3 - .4")



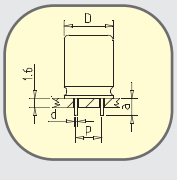
	MM			IN		
	min	max	fix	min	max	fix
a	6	16		.236	.629	
b	3	13		.118	.511	
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	15		.039	.590	

160900/180900
BODY LOCKED ON P.C.BOARD
CORPO A BATTUTA/BLOCCAGGIO SU SCHEDA
P:=2,54 - 5,08 - 7,62 - 10,16 mm (.1 -.2 - .3 - .4")



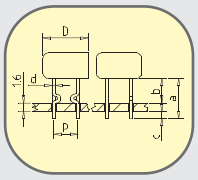
	MM			IN		
	min	max	fix	min	max	fix
a			3			.118
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	15		.039	.590	

161000/181000
STRAIGHT CUT
SOLO TAGLIO
P:=2,54 - 5,08 - 7,62 - 10,16 mm (.1 -.2 - .3 - .4")



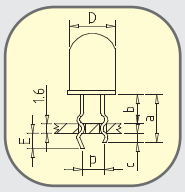
	MM			IN		
	min	max	fix	min	max	fix
a	3	13		.118	.511	
d	0,4	0,8		.015	.031	
D	1	15		.039	.590	

161100/181100
DIODE BRIDGE 4 LEADS
PONTE DIODO A 4 REOFORI
P.5,08 mm (.2")



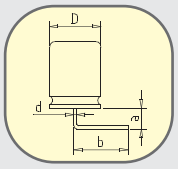
	MM			IN		
	min	max	fix	min	max	fix
a	6	14		.236	.551	
b	4	12		.157	.472	
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	15		.039	.590	

161200/181200
POLARITY
POLARITA'
P.2,54 mm (.1")



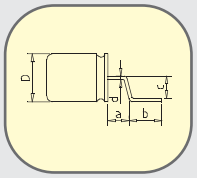
	MM			IN		
	min	max	fix	min	max	fix
a	5	15		.196	.590	
b	2	12		.078	.472	
c			1,4			.055
D	2	5		.078	.196	
E			2,4			.094

161300/181300
90° BENDING
PIEGA A 90°



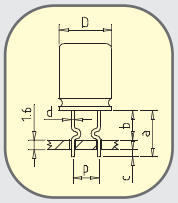
	MM			IN		
	min	max	fix	min	max	fix
a	3	8		.118	.314	
b*			6			.236
d*	0,4	0,8		.015	.031	
D*	1	15		.039	.590	

161400/181400
SURFACE MOUNTING
MONTAGGIO IN SUPERFICIE



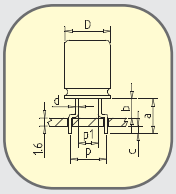
	MM			IN		
	min	max	fix	min	max	fix
a	2,5	8		.098	.314	
b*			2			.078
c*			2,5			.098
d*	0,4	0,8		.015	.031	
D*	1	15		.039	.590	

161500/181500
STAND OFF/KINK INWARD
APPOGGIO ANSA INTERNA
P:=2 - 2,54 - 5,08 - 7,62 - 10,16 mm (.78 - .1 -.2 - .3 - .4)



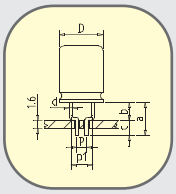
	MM			IN		
	min	max	fix	min	max	fix
a	6	16		.236	.629	
b	3	13		.118	.511	
c			1,4			.055
d	0,4	0,8		.015	.031	
D	1	15		.039	.590	

161700/181700
TO SPREAD OUT AND CUT
CAMBIO PASSO IN AUMENTO



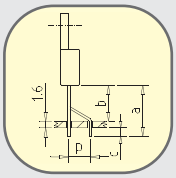
	MM			IN		
	min	max	fix	min	max	fix
a	5	8		.196	.314	
b	2	5		.078	.196	
c			1,4			.055
d*	0,4	0,8		.015	.031	
D	1	15		.039	.590	
p1*			2,54			.1
p*			5,08			.2

161800/181800
TO REDUCE PITCH AND CUT
CAMBIO PASSO IN DIMINUZIONE



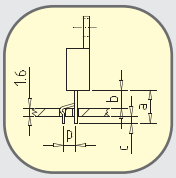
	MM			IN		
	min	max	fix	min	max	fix
a	5	8		.196	.314	
b	2	5		.078	.196	
c			1,4			.055
d*	0,4	0,8		.015	.031	
D	1	15		.039	.590	
p1*			5,08			.2
p*			2,54			.1

162100/182100
TO-220 CENTRAL LEAD SPREAD AND CUT
TO-220 REOFORO CENTRALE SPOSTATO



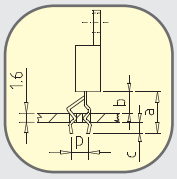
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			2,54			.1

162200/182200
TO-220 CENTER LEAD SPREAD AND LOCK
TO-220 REOFORO CENTRALE SPOSTATO E ANSA BLOCCAGGIO



	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			2,54			.1

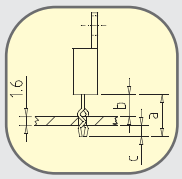
162300/182300
TO-220 CENTER LEAD SPREAD/3 LEAD LOCK
TO-220 REOFORO CENTRALE SPOSTATO/DOPPIA ANSA SU TRE REOFORI



	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			2,54			.1

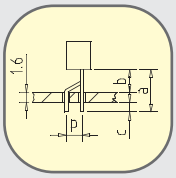
***quote to be specified upon order**
***quota da comunicare all'ordine**

162400/182400
TO-220 DOUBLE KINK ON THREE LEAD - IN LINE
TO-220 DOPPIA ANSA SU TRE REOFORI IN LINEA



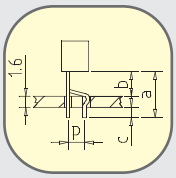
	MM			IN		
	min	max	fix	min	max	fix
a	6	11		.236	.433	
b	3	8		.118	.314	
c			1,4			.055

162500/182500
TO-92 CENTER LEAD SPREAD
TO-92 REOFORO CENTRALE SPOSTATO



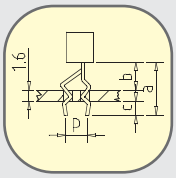
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			1,27			.05

162600/182600
TO-92 CENTER LEAD SPREAD AND LOCK
TO-92 REOFORO CENTRALE SPOSTATO/ ANSA BLOCCAGGIO



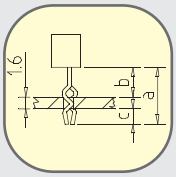
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			1,27			.05

162700/182700
TO-92 CENTER LEAD SPREAD/THREE LEAD LOCK
TO-92 REOFORO CENTRALE SPOSTATO/DOPPIA ANSA SU TRE REOFORI



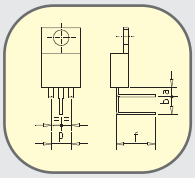
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			1,27			.05

162800/182800
TO-92 STAND OFF-LOCK IN/THREE LEAD IN LINE
TO-92 DOPPIA ANSA SU TRE REOFORI/IN LINEA



	MM			IN		
	min	max	fix	min	max	fix
a	6	11		.236	.433	
b	3	8		.118	.314	
c			1,4			.055

163100/183100
TO-220 90° BENDING CENTER LEAD OFF SET
TO-220 PIEGA 90° REOFORO CENTRALE SPOSTATO



	MM			IN		
	min	max	fix	min	max	fix
a	3	5		.118	.196	
b*			5			.196
f*			6			.216
p			5,08			.2

cutting forming machine for transistors in tube

TP TO-CF

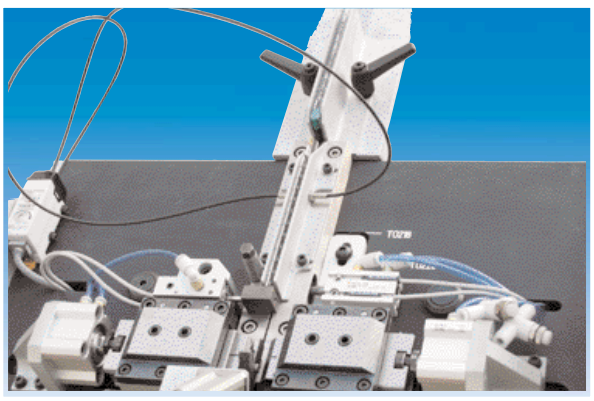
macchina taglia forma transistors da stecca

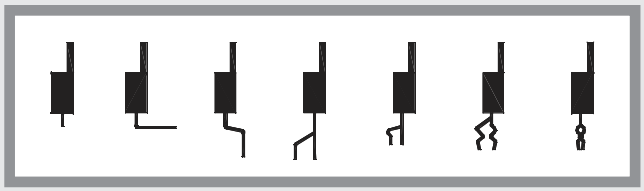
TP/TO-CF 13.OL01 = 110v
TP/TO-CF 13.OL02 = 220v
Without dies - senza matrici

ELECTRICAL POWER = 220V -110V - 50HZ 50VA
LENGTH = 55 CM
WIDTH = 40 CM
HEIGHT = 65 CM
DIMENSIONS = 70X50X80
VOLUME = .28M³
MACHINE WEIGHT = 40 KG
GROSS WEIGHT = 44 KG
CRATED WEIGHT = 55 KG

ALIMENTAZIONE = 220V - 50HZ - 50 VA
LUNGH. = 55 CM
LARGH. = 40 CM
ALT. = 65 CM
IMBALLO = 70X50X80
VOLUME = .28M³
PESO MACCHINA = 40 KG
PESO LORDO = 44 KG
CASSA DI LEGNO = 55 KG

Speed = 3000 p/h
Produzione 3000 p/h





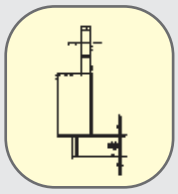
TP/TO-CF is an automatic machine designed to cut and form transistors in tube (TO-220, TO-218, TO-126). All strokes are controlled by a PLC. The complete operation is fully automatic and each form needs a dedicated die.
Two wire holders lock the leads before the cutting forming operations.
Special forms to customers specifications are available upon request.

La TP/TO-CF è una macchina automatica utilizzata per eseguire il taglio e la forma di transistors in stecca (TO-220, TO-218, TO-126). Le lavorazioni vengono impostate e controllate tramite un PLC. L,operazione è completamente automatica e ciascuna forma richiede matrici dedicate. Due premi filo bloccano i reofori prima della fase di taglio e preformatura. Forme speciali possono essere realizzate su richiesta e specifiche del cliente.

standard die assemblies for TP/TO-CF machine

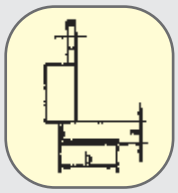
gruppi matrici standard per la macchina TP/TO-CF

131000
STRAIGHT CUT
SOLO TAGLIO



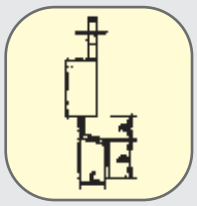
	MM			IN		
	min	max	fix	min	max	fix
a	3	13		.118	.511	

131300
90° BENDING
PIEGA A 90°



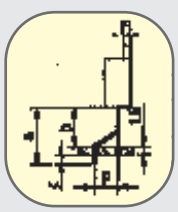
	MM			IN		
	min	max	fix	min	max	fix
a	3	8		.118	.314	
b*			6			.236

131400
SURFACE MOUNTING
MONTAGGIO IN SUPERFICIE



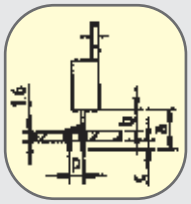
	MM			IN		
	min	max	fix	min	max	fix
a	2,5	8		.098	.314	
b*			2			.078
c*			2,5			.098

132100
CENTRAL LEAD SPREAD AND CUT
REOFORO CEONTRALE SPOSTATO E TAGLIO



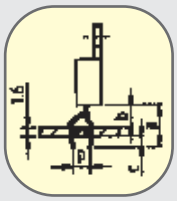
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			2,54			.1

132200
CENTER LEAD SPREAD AND LOCK
REOFORO CENTRALE SPOSTATO
E ANSA A BLOCCAGGIO



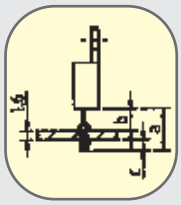
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			2,54			.1

132300
CENTER LEAD SPREAD/3 LEAD LOCK
REOFORO CENTRALE SPOSTATO
DOPPIA ANSA SU TRE REOFORI



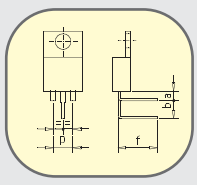
	MM			IN		
	min	max	fix	min	max	fix
a	7	13		.275	.511	
b	4	10		.157	.393	
c			1,4			.055
p*			2,54			.1

132400
DOUBLE KINK ON THREE LEAD – IN LINE
DOPPIA ANSA SU TRE REOFORI IN LINEA



	MM			IN		
	min	max	fix	min	max	fix
a	6	11		.236	.433	
b	3	8		.118	.314	
c			1,4			.055

133100
90° BENDING CENTER LEAD OFF SET
PIEGA 90° REOFORO CENTRALE SPOSTATO



	MM			IN		
	min	max	fix	min	max	fix
a	3	5		.118	.196	
b*			5			.196
f*			6			.216
p			5,08			.2

***quote to be specified upon order**
***quota da comunicare all'ordine**

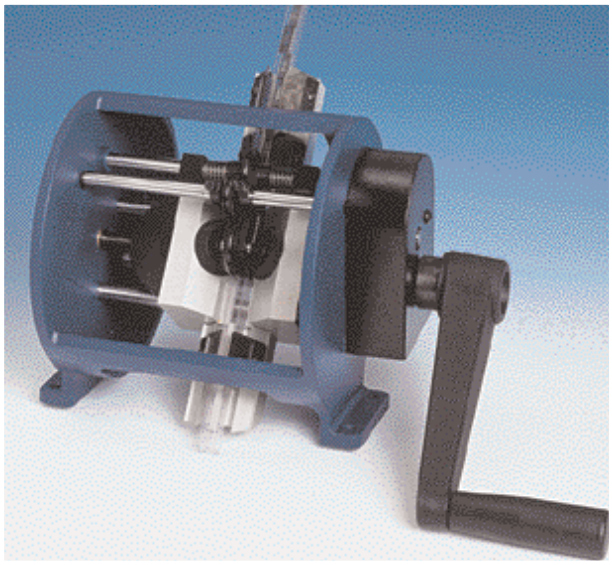
forms realised with special die assemblies for TP/TO-CF machine

forme realizzate con matrici speciali per la macchina TP/TO-CF

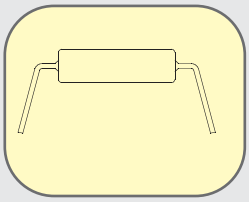
forming machine for IC's components in tube

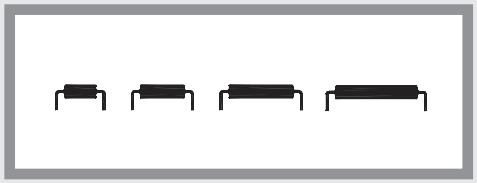
TP IC-F

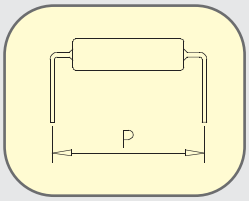
macchina forma reofori integrati da stecca



TP/IC-F 77.OL01
manual dip lead forming machine
macchina manuale forma reofori integrati







LENGTH = 28
WIDTH = 18
HEIGHT = 22
PACKING = 39x25x26
VOLUME = 0,025 m³
MACHINE WEIGHT = 7 kg
GROSS WEIGHT = 9 kg
PRODUCTION = 1 tube/6 seconds

standard pitches / passi standard =
7,62 mm – 15,24 mm (.3"- 6")
available upon request/ disponibili a richiesta =
10,16 mm – 19,05 mm – 22,86 mm (.4"-.75"-.9")

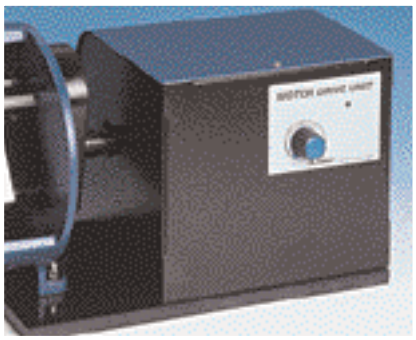
LUNG. = 28 cm
LARGH. = 18 cm
ALT. = 22 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 7 kg
PESO LORDO = 9 kg
PRODUZIONE = 1 stecca/6 secondi

The model TP/IC-F is designed for straightening the leads of IC components to facilitate their insertion onto the P. C. Board. The machine is supplied with the necessary tube holders to accommodate standard components having .3 and .6" Pitch.

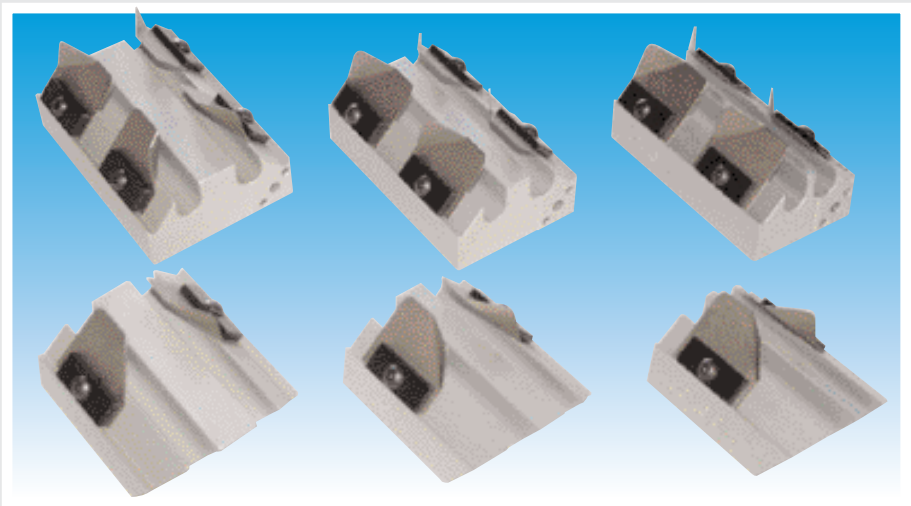
Il modello TP/IC-F serve per raddrizzare, portare a passo I reofori dei componenti integrati per sveltire il loro assemblaggio sulle schede elettroniche. Con la macchina vengono forniti i porta stecche necessari per lavorare componenti con passo standard .3 e .6".

optional accessories

accessori opzionali



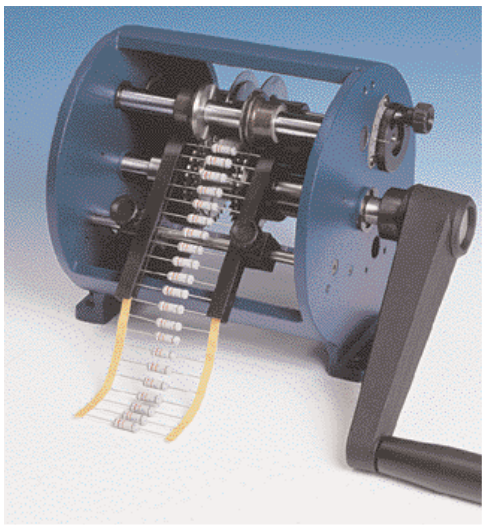
motor MOT-ICF
64.OL01 - 110 v
64.OL02 -220 v



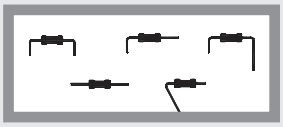
cutting and bending machine for axial components

TP6

macchina taglia piega componenti assiali



LEAD DIA. = 0,4-1,4 mm (.015-.055")
PRODUCTION = TAPED 50000 p/h
LOOSE 5000 p/h
DIAM. REOFORO = 0,4 - 1,4 mm
PRODUZIONE = NASTRATO 50.000 p/h
SFUSO 5.000 p/h



LENGTH = 23 cm
WIDTH = 18 cm
HEIGHT = 21 cm
PACKING = 39x25x26 cm
VOLUME = 0,025 m³
MACHINE WEIGHT = 5 kg
GROSS WEIGHT = 6 kg

LUNG. = 23 cm
LARGH. = 18 cm
ALT. = 21 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 5 kg
PESO LORDO = 6 kg

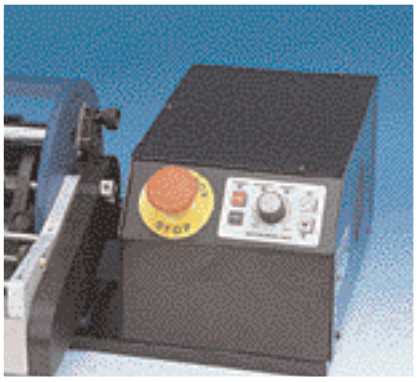
20.OL01 TP6

sturdy, reliable and long lasting equipment. Can be motorized. Easy to set up and use no maintenance required

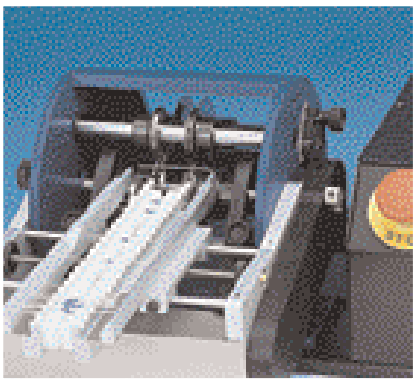
qualità ed affidabilità per durare nel tempo. Possibilità di essere motorizzata. Facilità di uso e regolazione.Non richiede manutenzione

optional accessories — accessori opzionali

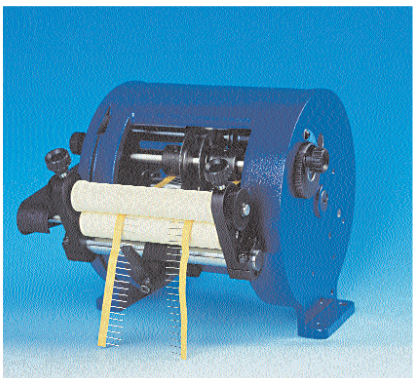
400200 BR6 reel holder
braccio porta bobina



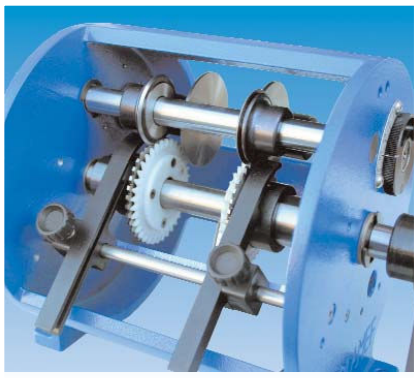
7915030/31 MOT98
motor – motore



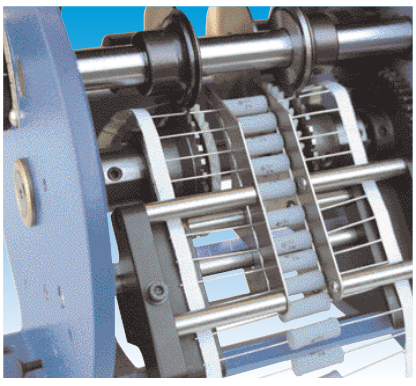
51.0100 CS10
feeder for loose components
caricatore per componenti sfusi



21.0011 TNS
waste tape ejector
espulsore nastro di scarto

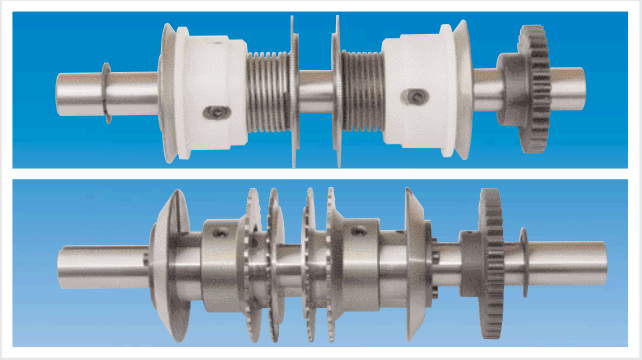


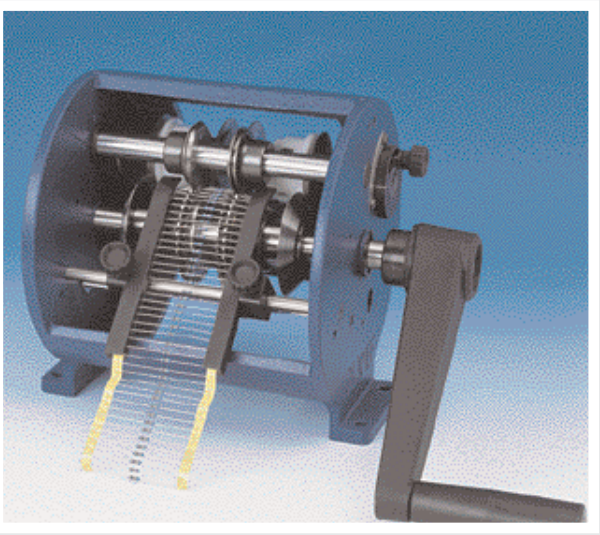
TP6 with delrin toothed discs 20.OL11 standard 20.OL12 reinforced to prevent marking the leads . TP6 con tamburi dentati in delrin 20.OL11 standard 20.OL12 rinforzata per non segnare i reofori



200240
complete body guide
guida del corpo completa

TP6/97 version



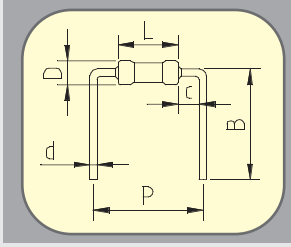


This system automatically adjusts the bending wheels, reducing the set-up time and making it easier.
This system is available with the following versions of the TP6 machine: TP6/1/97 – TP6/4/97 and TP6/6/97.
Warning= the maximum pitch possible with the /97 system is 40 mm and the maximum "B" is 10 mm.

Sistema di posizionamento automatico dei coltelli di piega applicabile ad alcune versioni della macchina TP6 che diventano TP6/1/97 – TP6/4/97 – TP6/6/97.

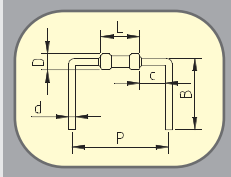
Attenzione= in questo caso il passo massimo diventa 40 mm e la quota "B" massima è di 10 mm.

TP6/1
STANDARD VERSION- VERSIONE STANDARD
(Cod.20.OL01 - 20.0L01/97)



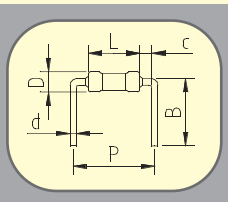
	MM		IN	
	min	max	min	max
P	6,5	60	.255	2.362
B	4	13	.157	.511
c	1,2		.047	
L		50		1.968
d	0,4	1,3	.015	.051
D	0,4	16	.015	.629

TP6/4
EXTRA REINFORCED BENDING
PIEGA EXTRA RINFORZATA
(Cod.20.OL04 - 20.0L04/97)



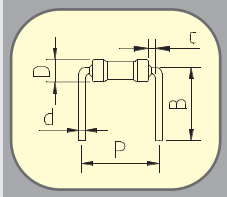
	MM		IN	
	min	max	min	max
P	10,16	60	.4	2.362
B	5	13	.196	.511
c	2,4		.094	
L		50		1.968
d	0,6	1,4	.023	.055
D	0,6	16	.023	.629

TP6/6
REDUCED BENDING - VARIABLE PITCH
PIEGA RIDOTTA - PASSO VARIABILE
(Cod.20.OL06 - 20.0L06/97)



	MM		IN	
	min	max	min	max
P	5,08	60	.2	2.362
B	4	13	.157	.511
c	0,8		.031	
L		50		1.968
d	0,4	0,8	.015	.031
D	0,4	10	.015	.039

TP6/7 -TP6/9 -TP6/10
REDUCED BENDING FIX PITCH
PIEGA RIDOTTA PASSO FISSO
(Cod.20.OL07-Cod.20.OL09-Cod.20.OL10)



	MM		IN	
	min	max	min	max
B	4	10	.157	.393
c	0,5		.019	
d	0,4	0,6	.015	.023
D	0,4	4	.015	.157

code 20.0L07	**P**	5,08 .2
code 20.0L09	**P**	7,62 .3
code 20.0L10	**P**	10,16 .4

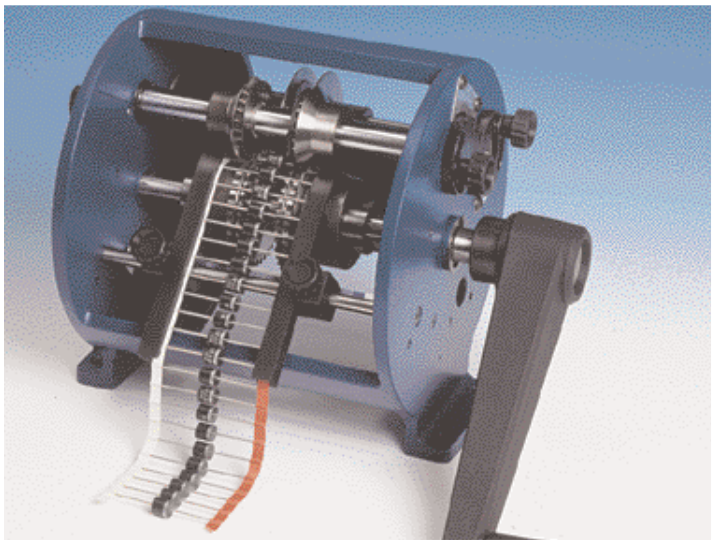
The model TP6 is designed for cutting and bending taped axial components with lead diameter from 0,4 to 1,4mm (.015 to .055"). The high quality and reliability of this machine ensure the best operation for a very long time. No maintenance is required.

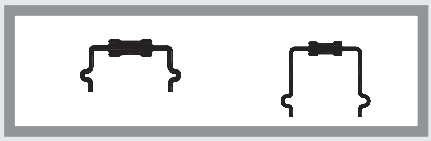
Il modello TP6 è utilizzato per il taglio e la piegatura di componenti assiali nastrati aventi diametro del reoforo da 0,4 a 1,4mm. La qualità ed affidabilità di questa macchina consente di operare per anni senza rischi di usura delle parti meccaniche e con pochi interventi di manutenzione per lo più consigliata per la pulizia dei dischi dentati.

cutting bending forming machine for axial components

TP6 PR-B

macchina taglia piega forma componenti assiali





LENGTH = 23 cm
WIDTH = 18 cm
HEIGHT = 21 cm
PACKING = 39x25x26 cm
VOLUME = 0,025 m³
MACHINE WEIGHT = 6 kg
GROSS WEIGHT = 8 kg

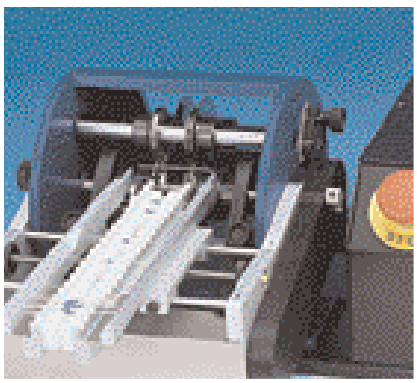
LUNG. = 23 cm
LARGH. = 18 cm
ALT. = 21 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 6 kg
PESO LORDO = 8 kg

LEAD DIA. = 1-1,4 mm (.039-.055")
PRODUCTION = TAPED 25000 p/h
LOOSE 5000 p/h
DIAM. REOFORO = 1 - 1,4 mm
PRODUZIONE = NASTRATO 25.000 p/h
SFUSO 5.000 p/h

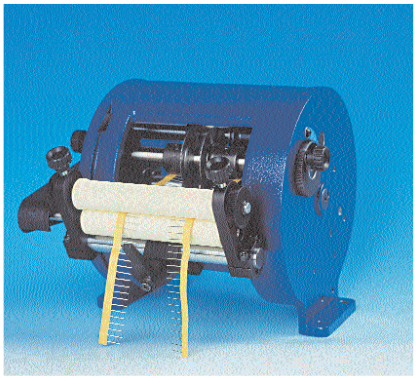
optional accessories — accessori opzionali

400200 BR6 reel holder
braccio porta bobina

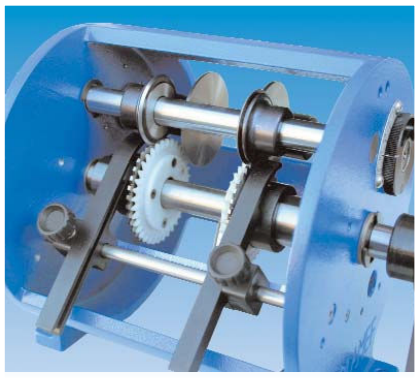
7915030/31 MOT98
motor – motore



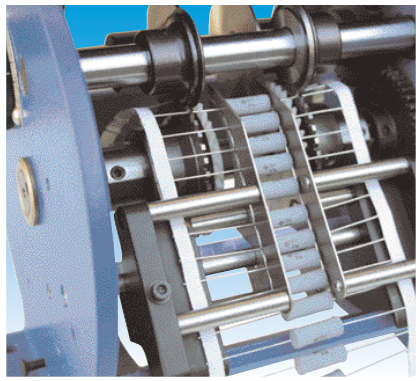
51.0100 CS10
feeder for loose components
caricatore per componenti sfusi



21.0011 TNS
waste tape ejector
espulsore nastro di scarto

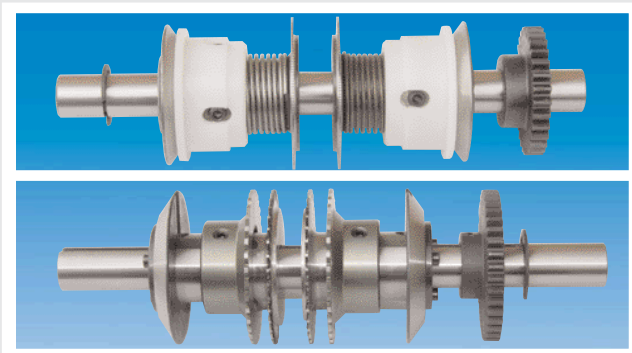


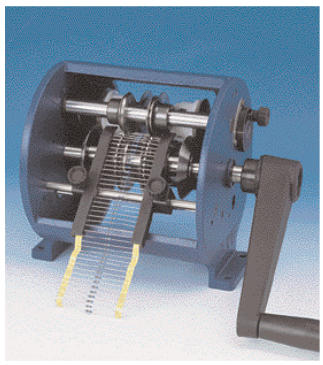
TP6/PR-B with delrin toothed discs 40.OL11 standard
40. OL12 reinforced to prevent marking the leads
TP6/PR-B con tamburi dentati in delrin 40.OL11 standard
40.OL12 rinforzata per non segnare i reofori



200240 complete body guide
guida del corpo completa

TP6/PR-B/97 version





sturdy, reliable and long lasting equipment. Can be motorized. Easy to set up and use no maintenance required

qualità ed affidabilità per durare nel tempo. Possibilità di essere motorizzata. Facilità di uso e regolazione.Non richiede manutenzione

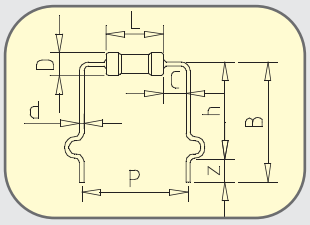
With TP6/PR-B it is possible to eliminate the preforming operation by replacing the cutting/forming wheels with only cutting wheel.

Con la TP6/PR-B é possibile escludere la preformatura sostituendo i coltelli di taglio/sagoma con speciali coltelli di solo taglio.

This system automatically adjusts the bending wheels, reducing the set-up time and making it easier. This system is available with all versions of TP6/PR-B machine. Warning= the maximum pitch possible with the /97 system is 40 mm. and the maximum "B" is 10 mm.

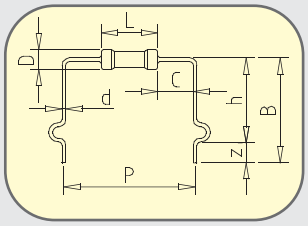
Sistema di posizionamento automatico dei coltelli di piega applicabile a tutte le versioni della macchina TP6/PR-B. Attenzione= in questo caso il passo massimo diventa 40 mm e la quota "B" massima è di 10 mm.

TP6/PR-B STANDARD VERSIONS VERSIONI STANDARD (Cod.40.OL01 - 40.OL04 - 40.OL11)



	MM		IN	
	min	max	min	max
P	6,5	60	.255	2.362
B	10	14	.393	.551
C	1,2		.047	
L		50		1.968
d	1	1,3	.039	.051
D	1	16	.039	.629
h	7	11	.275	.433
code 40.0L01 Z	3.1 fix		.122 fix	
code 40.0L11 Z	3.9 fix		.153 fix	
code 40.0L04 Z	5 fix		.196 fix	

TP6/PR-B REINFORCED VERSIONS VERSIONI RINFORZATE (Cod.40.OL02 - 40.OL05 - 40.OL12)



	MM		IN	
	min	max	min	max
P	10,16	60	.4	2.362
B	10	14	.393	.551
C	2,4		.094	
L		50		1.968
d	1	1,4	.039	.055
D	1	16	.039	.629
h	7	11	.275	.433
code 40.0L02 Z	3.1 fix		.122 fix	
code 40.0L12 Z	3.9 fix		.153 fix	
code 40.0L05 Z	5 fix		.196 fix	

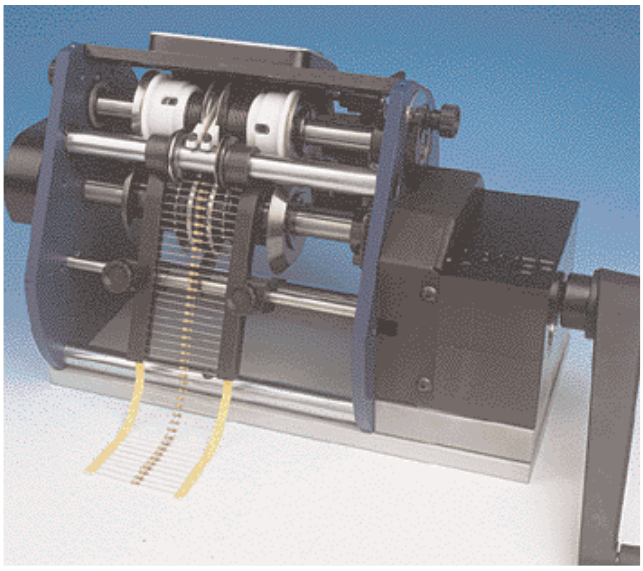
The model TP6/PR-B is designed for cutting-forming and bending taped axial components. The "stand-off" form keeps the body off the P. C. Board. The machine handles components with lead diameter from 1 to 1,4 mm (.039 to .055").

Il modello TP6/PR-B viene utilizzato per tagliare-formare e piegare componenti assiali nastrati allo scopo di distanziare il corpo dalla scheda. Si possono lavorare componenti aventi diametro del reoforo da 1 a 1,4 mm.

cutting bending forming machine for axial components

TP6 PR-F

macchina taglia piega forma componenti assiali

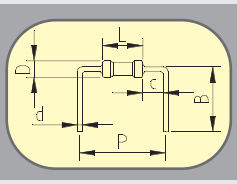


LENGTH = 49 cm
WIDTH = 24 cm
HEIGHT = 22 cm
PACKING = 41x31x28 cm
VOLUME = 0,035 m³
MACHINE WEIGHT = 14 kg
CRATED WEIGHT= 22 kg

LUNG. = 49 cm
LARGH. = 24 cm
ALT. = 22 cm
IMBALLO = 41x31x28 cm
VOLUME = 0,035 m³
PESO MACCHINA = 14 kg
PESO LORDO (cassa di legno) = 22 kg

PRODUCTION = TAPED 7000 p/h
LOOSE 5000 p/h
PRODUZIONE = NASTRATO 7.000 p/h
SFUSO 5.000 p/h

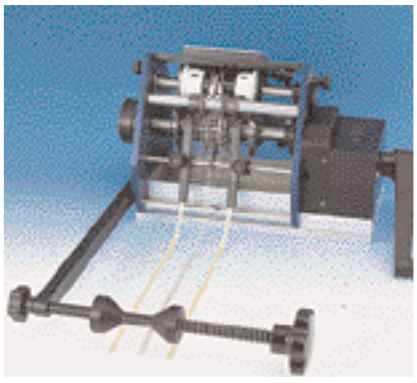
"U" bending only for 43.0L01 and 43.0L02
Gruppo piega a "U" per 43.0L01 e 43.0L02
(Cod. 420650)



	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	1.2
L		50		1.968
c	1,2		.047	
B	6	12	.236	.472
d	0,5	0,9	.019	.035
D	0,5	8	.019	.314

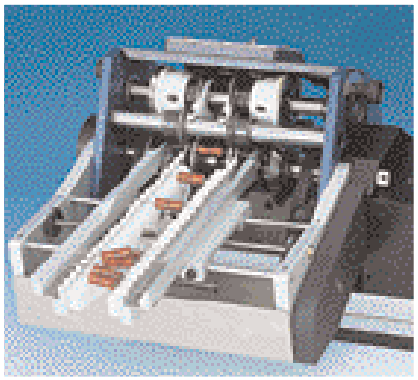
optional accessories

accessori opzionali

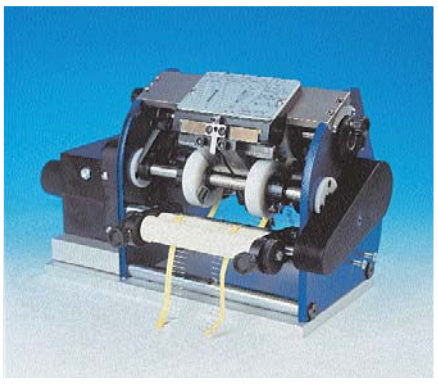


400200 BR6 reel holder
braccio porta bobina

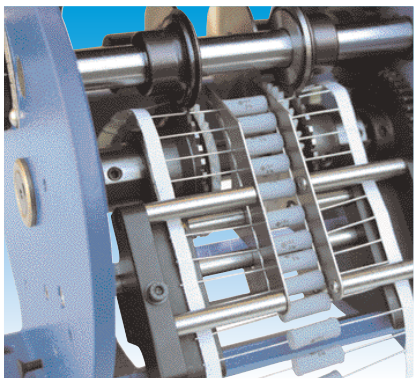
7915032/33 MOT98/A
motor – motore



51.0400 CS40
feeder for loose components
caricatore per componenti sfusi



21.0013 TNS
waste tape ejector
espulsore nastro di scarto



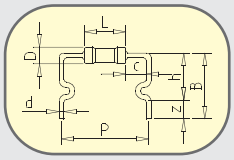
200240 complete body guide
guida del corpo completa

Bends and cuts leads without nicking or cracking components. Built to customer specifications. Capable to be motorized. Easy to set up and use. No maintenance needed.

Piega e taglia I reofori senza marcature o rotture al corpo dei componenti. Può essere personalizzata secondo le specifiche del cliente. Possibilità di essere motorizzata. Facilità di uso e regolazione. Non richiede manutenzione.

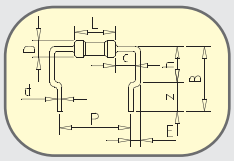
TP6/PR-F/1 standard 43.OL01

STAND OFF ASSEMBLY-
GRUPPO ANSA
IN APPOGGIO 2,5 mm
(Cod.420800)



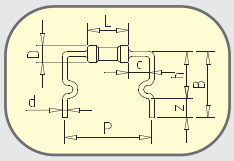
	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	2.4
L		50		1.968
c	1,2		.047	
h	6	9	.236	.354
B	8	11	.314	.433
d	0,5	0.9	.019	.035
D	0,5	8	.019	.314
z	2	4	.078	.157

REDUCED PITCH ASSEMBLY
GRUPPO PASSO
IN DIMINUZIONE
(Cod.420900)



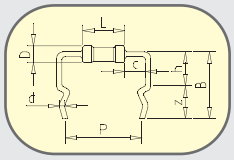
	MM		IN	
	min	max	min	max
P	7,62	58,42	.3	2.3
L		50		1.968
c	1,2		.047	
h	5	9	.196	.354
B	7	11	.275	.433
d	0,5	0,9	.019	.035
D	0,5	8	.019	.314
z	2	4	.078	.157
E	1,27		.05	

STAND OFF ASSEMBLY
GRUPPO ANSA
IN APPOGGIO 3 mm
(Cod.420750)



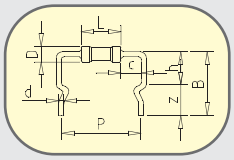
	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	2.4
L		50		1.968
c	1,2		.047	
h	6,5	9,5	.255	.374
B	8,5	11,5	.334	.452
d	0,5	0.9	.019	.035
D	0,5	8	.019	.314
z	2	4	.078	.157

LOCK IN ASSEMBLY
GRUPPO ANSA
A BLOCCAGGIO
(Cod.420850)



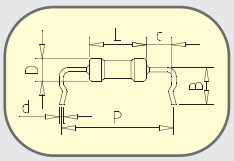
	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	2.4
L		50		1.023
c	1,2		.047	
h	4,5	8	.177	.314
B	7,5	11	.295	.433
d	0,5	0,8	.019	.031
D	0,5	8	.019	.314
z	3	4	.118	.157

LOCK IN ASSEMBLY
GRUPPO ANSA
A BLOCCAGGIO
(Cod.420950)



	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	2.4
L		50		1.968
c	1,2		.047	
h	4,5	8	.177	.314
B	7,5	11	.295	.433
d	0,6	0,9	.023	.035
D	0,6	8	.023	.314
z	3	4,5	.118	.177

BODY LOCKED ON PCB
GRUPPO CORPO A BATTUTA
(Cod.421000)



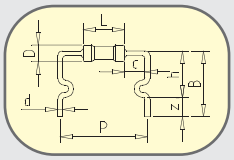
	MM		IN	
	min	max	min	max
P	10,16	60,96	.4	2.4
L		50		1.968
c	1,2		.047	
B	5	8	.196	.314
d	0,5	0,8	.019	.031
D	2	8	.078	.314

The model TP6/PR-F is designed for cutting and forming axial taped components.
Versions:
43.OL01 for lead Ø 0,5 to 0,9 mm (.19 to .035")
43.OL02 for lead Ø 0,8 to 1 mm (.031 to .039")
43.OL03 for lead Ø 1 to 1,3 mm (.039 to .051")
Die assemblies designed for each one of the version need to be ordered separately depending on the form required. It is possible to order special forms, supplying Olamef with drawings and specifications.

Il modello TP6/PR-F è utilizzato per formare componenti assiali nastrati.
Versioni:
43.OL01 per reoforo da Ø 0,5 a 0,9 mm
43.OL02 per reoforo da Ø 0,8 a 1 mm
43.OL03 per reoforo da Ø 1 a 1,3 mm
I gruppi di preformatura devono essere ordinati fra i modelli disponibili in base alla forma che si desidera ottenere ed alla versione di macchina prescelta. E' possibile richiedere anche forme speciali su disegno e specifiche del cliente.

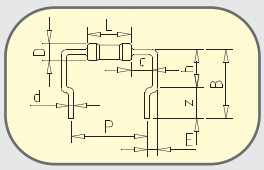
reinforced 43.OL02 **TP6/PR-F/2** rinforzata 43.OL02

STAND OFF ASSEMBLY-
GRUPPO ANSA
IN APPOGGIO 3 mm
(Cod.420750)



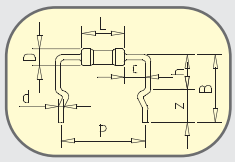
	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	2.4
L		50		1.968
c	1,5		.059	
h	7	12	.275	.472
B	9	14	.354	.551
d	0,8	1	.031	.039
D	0,8	8	.031	.314
z	2	4	.078	.157

REDUCED PITCH ASSEMBLY
GRUPPO PASSO
IN DIMINUZIONE
(Cod.420900)



	MM		IN	
	min	max	min	max
P	7,62	58,42	.3	2.3
L		50		1.968
c	1,5		.059	
h	6	12	.236	.472
B	8	14	.314	.551
d	0,8	1	.031	.039
D	0,8	8	.031	.314
z	2	4	.078	.157
E	1,27		.05	

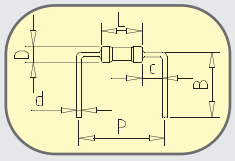
LOCK IN ASSEMBLY
GRUPPO ANSA
A BLOCCAGGIO
(Cod.420950)



	MM		IN	
	min	max	min	max
P	10.16	60.96	.4	2.4
L		50		1.968
c	1,5		.059	
h	5,5	11	.216	.433
B	8,5	14	.334	.551
d	0,8	1	.031	.039
D	0,8	8	.031	.314
z	3	4,5	.118	.177

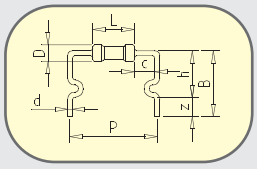
extra reinforced 43.OL03 **TP6/PR-F/3** extra rinforzata 43.OL03

"U" BENDING ONLY
GRUPPO PIEGA A "U"
(Cod.430650)



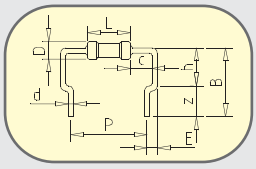
	MM		IN	
	min	max	min	max
P	12.7	60.96	.5	2.4
L		50		1.968
c	2,5		.098	
B	13	18	.511	.708
d	1	1,3	.039	.051
D	1	8	.039	.314

STAND OFF ASSEMBLY
GRUPPO ANSA
IN APPOGGIO
(Cod.430700)



	MM		IN	
	min	max	min	max
P	12.7	60.96	.5	2.4
L		50		1.968
c	2,5		.098	
h	11	16	.433	.629
B	13	18	.511	.708
d	1	1,3	.039	.051
D	1	8	.039	.314
z	2	4	.078	.157

REDUCED PITCH ASSEMBLY
GRUPPO PASSO
IN DIMINUZIONE
(Cod.430900)

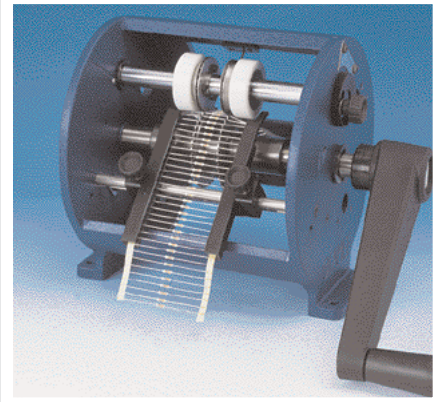


	MM		IN	
	min	max	min	max
P	10,16	58,42	.4	2.3
L		50		1.968
c	2,5		.098	
h	9	16	.354	.629
B	11	18	.433	.708
d	1	1,3	.039	.051
D	1	8	.039	.314
z	2	4	.078	.157
E	1,27		.05	

cutting bending forming machine for axial components for surface mounting

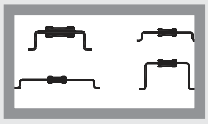
TP6/S

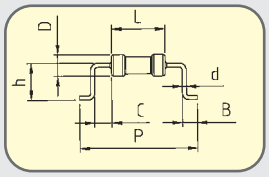
macchina taglia piega forma componenti assiali per montaggio in superficie



LENGTH = 23 cm
WIDTH = 18 cm
HEIGHT = 21 cm
PACKING = 39x25x26 cm
VOLUME = 0,025 m³
MACHINE WEIGHT = 5 kg
GROSS WEIGHT = 6 kg

LUNG. = 23 cm
LARGH. = 18 cm
ALT. = 21 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 5 kg
PESO LORDO = 6 kg





PRODUCTION = TAPED 50.000 p/h
LOOSE 5.000 p/h
PRODUZIONE = NASTRATO 50.000 p/h
SFUSO 5.000 p/h

	MM		IN	
	min	max	min	max
P	12	47	.472	1.850
C	1,5	10	.059	.393
L		40		1.574
D	0,4	16	.015	.629
d*	0,6 fix		.023 fix	
B*	2 fix		.078 fix	
h*	2,5 fix		.098 fix	

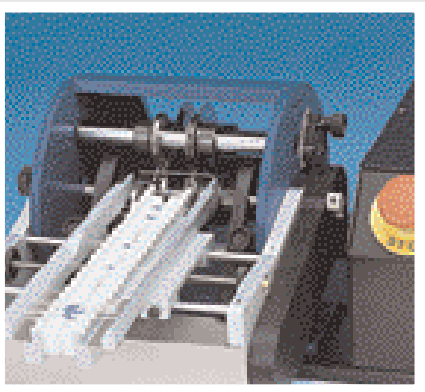
25.OL01 TP6/S

*= quote to be specified upon order
*= quota da comunicare all'ordine

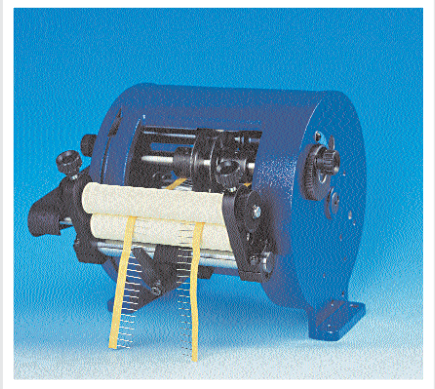
optional accessories — accessori opzionali

400200 BR6 reel holder
braccio porta bobina

7915030/31 MOT98
motor – motore



51.0100 CS10
feeder for loose components
caricatore per componenti sfusi



21.0011 TNS
waste tape ejector
espulsore nastro di scarto

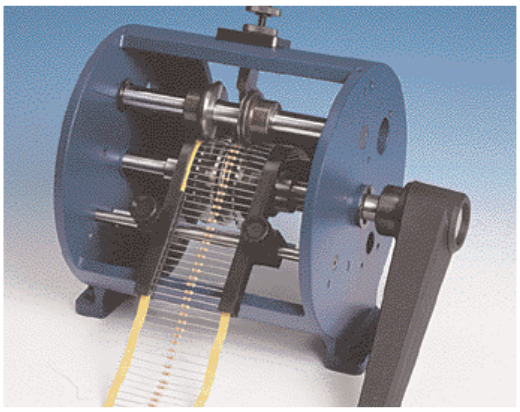
The TP6/S machine is designed for cutting and bending axial components for surface mount. The standard version offers the most common dimensions. Special versions to customer's specifications are available upon request.

Il modello TP6/S è utilizzato per tagliare e piegare componenti assiali per montaggio in superficie. La versione standard realizza quote comunemente usate. E' necessario conoscere le specifiche del componente, sia originale che formato al momento dell'ordine

cutting bending machine for axial components vertical mounting

TP6/V

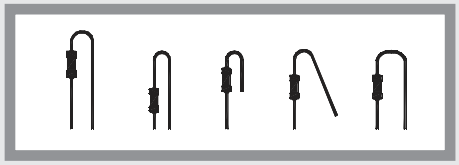
macchina taglia piega compo-nenti assiali per montaggio verticale



80.OL01 TP6/V

LENGTH = 23 cm
WIDTH = 18 cm
HEIGHT = 21 cm
PACKING = 39x25x26 cm
VOLUME = 0,025 m³
MACHINE WEIGHT = 5 kg
GROSS WEIGHT = 6 kg

LUNG. = 23 cm
LARGH. = 18 cm
ALT. = 21 cm
IMBALLO = 39x25x26 cm
VOLUME = 0,025 m³
PESO MACCHINA = 5 kg
PESO LORDO = 6 kg



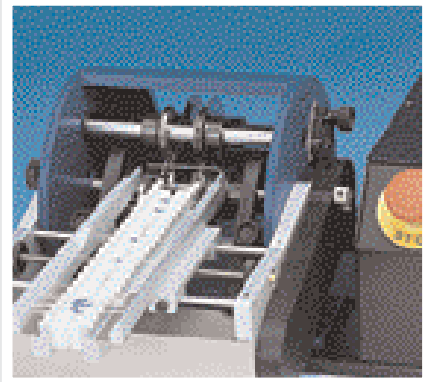
PRODUCTION = TAPED 50.000 p/h
LOOSE 5.000 p/h
PRODUZIONE = NASTRATO 50.000 p/h
SFUSO 5.000 p/h

LEAD DIA. = 0,5-0,8 mm - 0,8-.1,3 mm
(.019- .031" - .031 - .051")
DIAM. REOFORO = 0,5 - 0,8 mm
0,8 - 1,3 mm

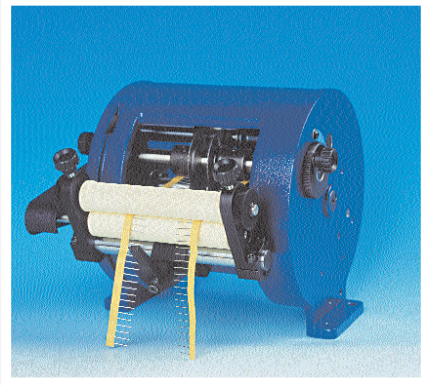
optional accessories accessori opzionali

400200 BR6 reel holder
braccio porta bobina

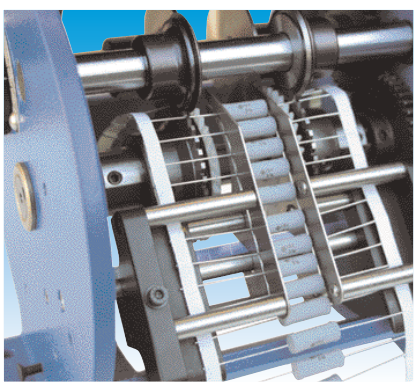
7915030/31 MOT98
motor – motore



51.0300 CS30
feeder for loose components
caricatore per componenti sfusi



21.0011 TNS
waste tape ejector
espulsore nastro di scarto



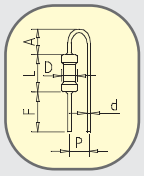
200240 complete body guide
guida del corpo completa

sturdy, reliable and long lasting equipment. Can be motorized. Easy to set up and use no maintenance required

qualità ed affidabilità per durare nel tempo. Possibilità di essere motorizzata. Facilità di uso e regolazione.Non richiede manutenzione

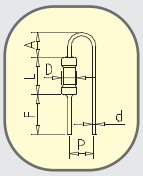
STANDARD VERSIONS FOR COMPONENTS WITH LEAD DIAMETER 0,5 TO 0,8 mm (.019 TO .031 inch)
VERSIONI STANDARD PER COMPONENTI CON DIAMETRO REOFORO DA 0,5 A 0,8 mm

TP6/V/1 STANDARD VERSION PITCH 2,54 mm (.1")
TP6/V/1 VERSIONE STANDARD PASSO 2,54 mm(Cod. 80.OL01)



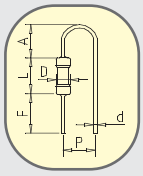
	MM		IN	
	min	max	min	max
A	2	6	.078	.236
L		15		.590
F	3	8	.118	.314
D	0,5	3	.019	.118
d	0,5	0,8	.019	.031
P	2,54 fix		.1 fix	

TP6/V/3 PITCH 3,8 mm (.15")
TP6/V/3 PASSO 3,8 mm (Cod.80.OL03)



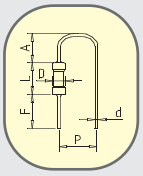
	MM		IN	
	min	max	min	max
A	2,5	6	.098	.236
L		15		.590
F	3	8	.118	.314
D	0,5	5	.019	.196
d	0,5	0,8	.019	.031
P	3,8 fix		.15 fix	

TP6/V/4 PITCH 5,08 mm (.2")
TP6/V/4 PASSO 5,08 mm (Cod.80.OL04)



	MM		IN	
	min	max	min	max
A	3	7	.118	.275
L		15		.590
F	3	8	.118	.314
D	0,5	8	.019	.314
d	0,5	0,8	.019	.031
P	5,08 fix		.2 fix	

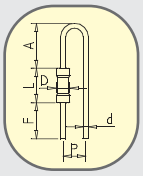
TP6/V/5 PITCH 7,62 mm (.3")
TP6/V/5 PASSO 7,62 mm (Cod.80.OL05)



	MM		IN	
	min	max	min	max
A	4	7	.157	.275
L		15		.590
F	3	8	.118	.314
D	0,5	10	.019	.393
d	0,5	0,8	.019	.031
P	7,62 fix		.3 fix	

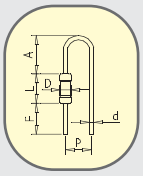
STANDARD VERSIONS FOR COMPONENTS WITH LEAD DIAMETER 0,8 TO 1,3 mm (.031 TO .051 inch)
VERSIONI STANDARD PER COMPONENTI CON DIAMETRO REOFORO DA 0,8 A 1,3 mm

TP6/V/21 PITCH 3,8 mm (.15")
TP6/V/21 PASSO 3,8 mm (Cod.80.OL21)



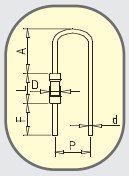
	MM		IN	
	min	max	min	max
A	4	9	.157	.354
L		15		.590
F	3	8	.118	.314
D	0,8	5	.031	.196
d	0,8	1,3	.031	.051
P	3,8 fix		.15 fix	

TP6/V/22 PITCH 5,08 mm (.2")
TP6/V/22 PASSO 5,08 mm (Cod.80.OL22)



	MM		IN	
	min	max	min	max
A	5	9	.196	.354
L		15		.590
F	3	8	.118	.314
D	0,8	8	.031	.314
d	0,8	1,3	.031	.051
P	5,08 fix		.2 fix	

TP6/V/23 PITCH 7,62 mm (.3")
TP6/V/23 PASSO 7,62 mm (Cod.80.OL23)



	MM		IN	
	min	max	min	max
A	6	9	.236	.354
L		15		.590
F	3	8	.118	.314
D	0,8	10	.031	.393
d	0,8	1,3	.031	.051
P	7,62 fix		.3 fix	

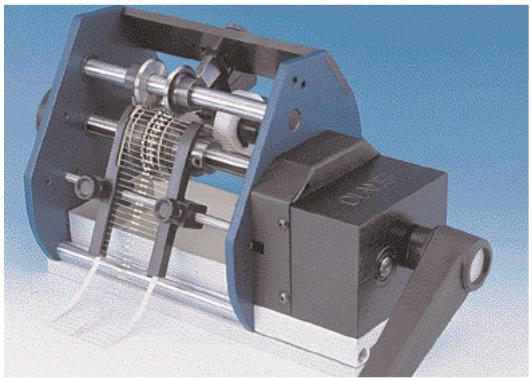
The TP6/V machine is designed for cutting and bending taped axial components for vertical mounting. Two versions are available: one for components with lead diameters from 0,5 to 0,8mm (.019 to .031") and the other for lead diameters from 0,8 to 1,3mm (.031 to .051"). The bending pitch is determined by the bending cam supplied and it can be changed by replacing this cam with a different one.

Il modello TP6/V è utilizzato per tagliare e piegare i componenti assiali nastrati per montaggio in verticale. Sono disponibili due versioni: una per componenti aventi diametro del reoforo da 0,5 a 0,8mm e l'altra per diametro da 0,8 a 1,3mm. Il passo di piegatura, determinato dalla cam fornita, può essere variato sostituendo la cam con un'altra avente larghezza diversa.

cutting bending forming machine for axial components vertical mounting

TP6 V-PR

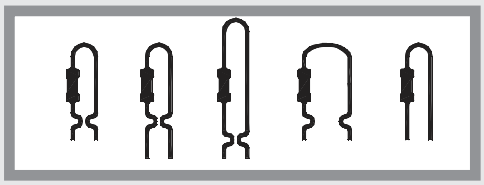
macchina taglia piega forma componenti assiali per montaggio verticale



LENGTH = 49 cm
WIDTH = 18cm
HEIGHT = 22 cm
PACKING = 41x31x28 cm
VOLUME = 0,035 m^3
MACHINE WEIGHT = 11 kg
GROSS WEIGHT = 12 kg

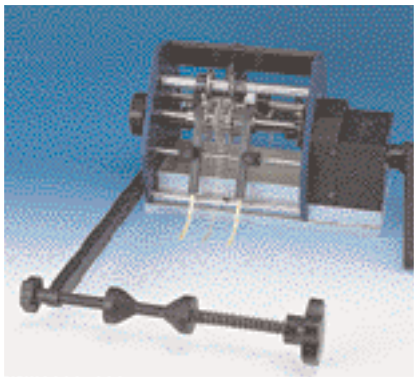
LUNG. = 49 cm
LARGH. = 18 cm
ALT. = 22 cm
IMBALLO = 41x31x28 cm
VOLUME = 0,035 m^3
PESO MACCHINA = 11 kg
PESO LORDO = 12 kg

86.OL01 TP6/V-PR



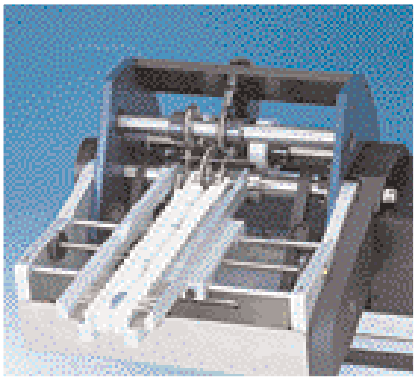
LEAD DIA. = 0,5-0,8 mm (.019-.031")
PRODUCTION = TAPED 7000 p/h
LOOSE 5000 p/h
DIAM. REOFORO = 0,5 - 0,8 mm
PRODUZIONE = NASTRATO 7.000 p/h
SFUSO 5.000 p/h

optional accessories — accessori opzionali

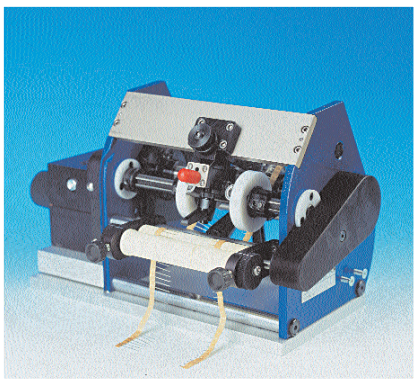


400200 BR6 reel holder
braccio porta bobina

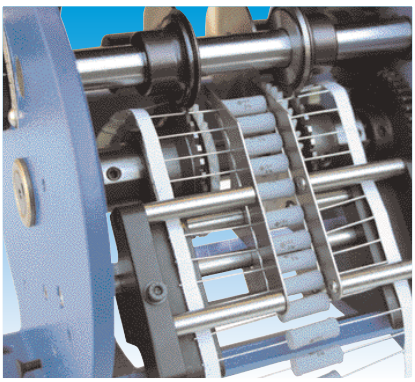
7915032/33 MOT98/A
motor – motore



51.0200 CS20
feeder for loose components
caricatore per componenti sfusi



21.0013 TNS
waste tape ejector
espulsore nastro di scarto



200240 complete body guide
guida del corpo completa

sturdy, reliable and long lasting equipment. Can be motorized. Easy to set up and use no maintenance required

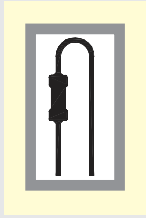
qualità ed affidabilità per durare nel tempo. Possibilità di essere motorizzata. Facilità di uso e regolazione.Non richiede manutenzione

Bends and cuts leads without nicking or cracking components. Built to customer specifications. Capable to be motorized. Easy to set up and use. No maintenance needed.

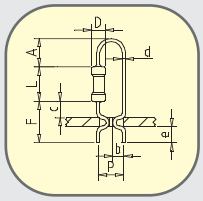
Piega e taglia I reofori senza marcature o rotture al corpo dei componenti. Può essere personalizzata secondo le specifiche del cliente. Possibilità di essere motorizzata. Facilità di uso e regolazione. Non chiede manutenzione.

IT IS POSSIBLE TO ELIMINATE THE PREFORMING OPERATION TO OBTAIN ONLY THE "V" BENDING OF COMPONENTS

E' POSSIBILE ELIMINARE LA PREFORMATURA ED OTTENERE LA SOLA PIEGA A "V" DEI COMPONENTI

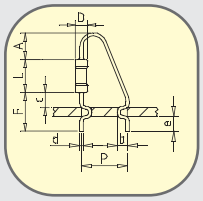


PREFORMING ASSEMBLY P. 2,54 mm (.1")
TP6/V-PR/1 CON GRUPPO PASSO 2,54 mm
(Cod. 86.OL01)



	MM		IN	
	min	max	min	max
A	2,8	5	.110	.196
L	3	15	.118	.590
F	4,3	10	.169	.393
C	1,5	5	.059	.196
e	1,2	4	.047	.157
b	1	1	.039	.039
d	0,5	0,8	.019	.031
D	0,5	4	.019	.157
P	2,54 fix		.1 fix	

PREFORMING ASSEMBLY P. 5,08 mm (.2")
TP6/V-PR/2 CON GRUPPO PASSO 5,08 mm
(Cod. 86.OL02)



	MM		IN	
	min	max	min	max
A	3	5	.118	.196
L	3	15	.118	.590
F	4,3	10	.169	.393
C	1,5	5	.059	.196
e	1,2	4	.047	.157
b	1	1	.039	.039
d	0,5	0,8	.019	.031
D	0,5	8	.019	.314
P	5,08 fix		.2 fix	

Pitch and form are determined by the die assembly supplied

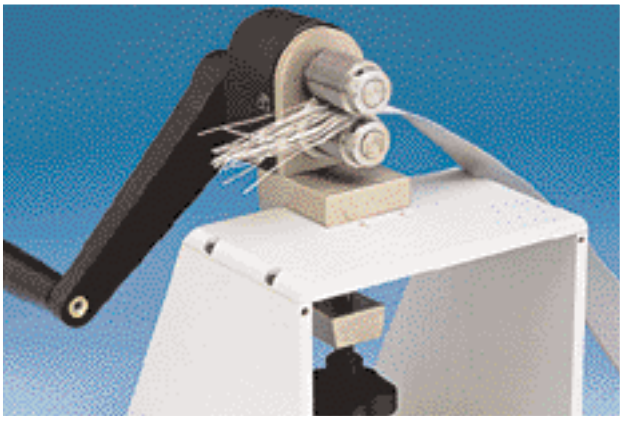
Il passo e la forma sono determinati dalla matrice fornita

The model TP6/V-PR is designed for cutting, bending and forming taped axial components for vertical mounting. The standard form locks the components into the P.C.Board. All dimensions are adjustable. This model handles components with lead diameters from 0,5 to 0,8mm (.019 to .031"). Special versions can be manufactured to form leads having different dimensions.

La macchina TP6/V-PR è utilizzata per tagliare, piegare e formare componenti assiali per montaggio verticale. La forma realizzata serve a bloccare il componente sulla scheda. Le quote sono quasi tutte regolabili. La macchina lavora componenti con diametro di reoforo da 0,5 a 0,8mm. Versioni speciali possono essere progettate per formare reofori di dimensioni maggiori.

flat cable separator manual version — SEF 1 — separatore fili per cavi piatti versione manuale

SEF 1 flat cable separator manual version
SEF 1. separatore fili per cavi piatti versione manuale
73.OL01 p.1,27mm (.05")
73.OL02 p.2,54mm (.1")



The model SEF 1 is designed for separating wires of flat cables. Two different pitches of separation can be supplied: 1,27 mm (the wires are individually separated Code 73.OL01) or 2,54 mm (the wires are separated by couples Code 73.OL02). This version is a "bench" manual machine suitable for separating edges of flat cables having maximum width of 33mm.

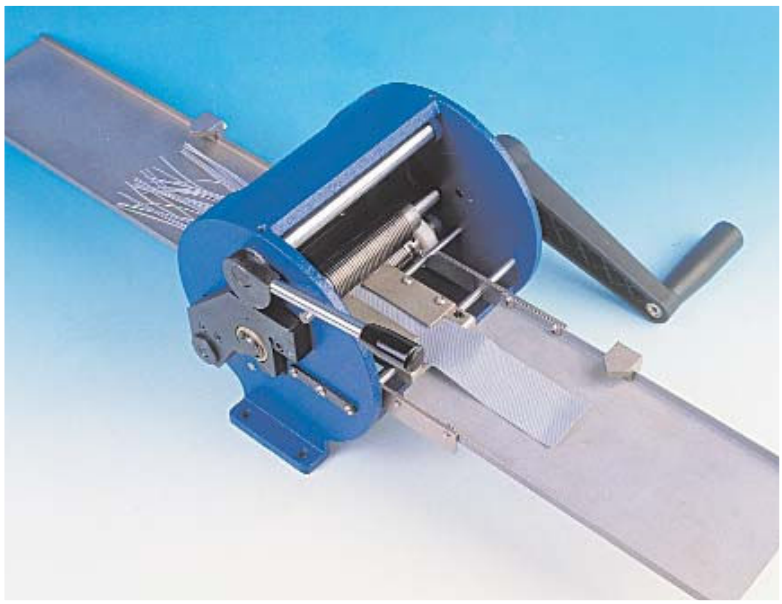
Il modello SEF 1 è utilizzato per la separazione dei fili dei cavi piatti. Può essere fornita per due passi di separazione: 1,27 mm (i fili vengono separati singolarmente Cod. 73.OL01) o 2,54 mm (i fili vengono separati a coppie Cod. 73.OL02). Questa macchina è adatta alla separazione delle estremità di cavi con larghezza massima di 33 mm.

flat cable separator manual or motorised version — SEF 3 — separatore fili per cavi piatti versione manuale motorizzabile

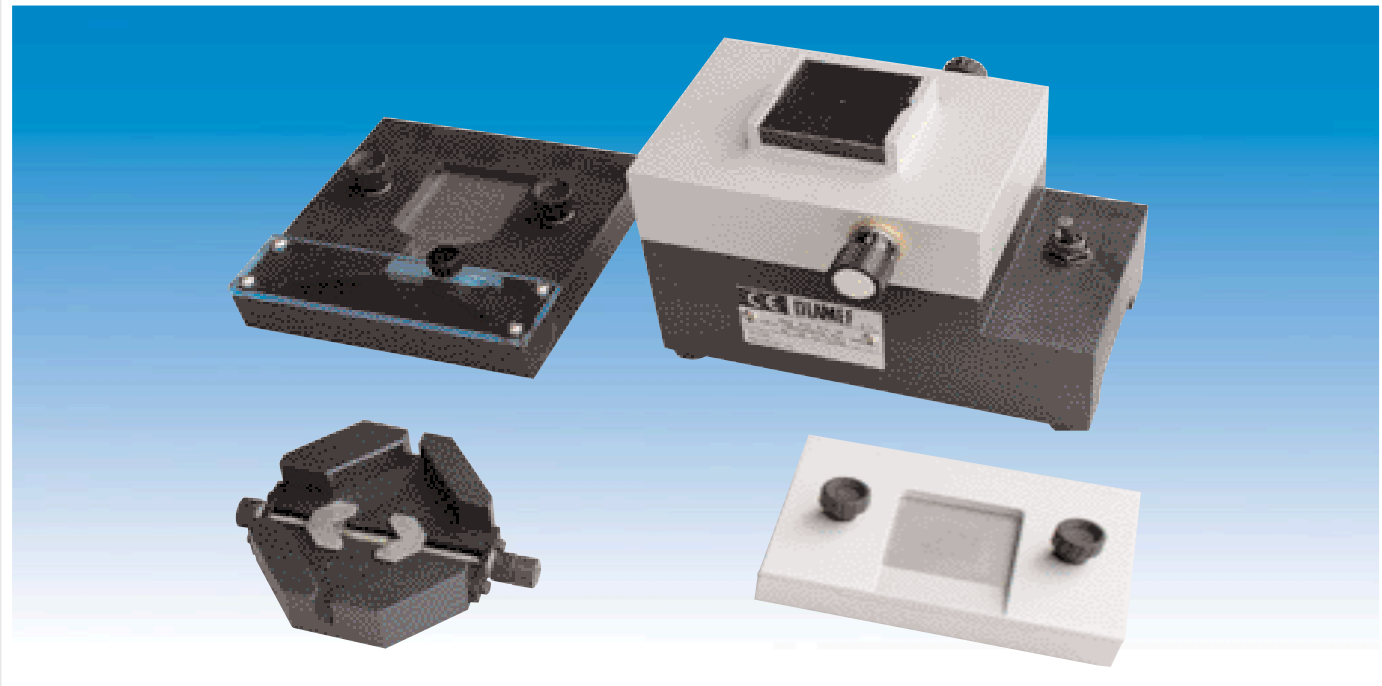
The model SEF 3 is designed for separating wires of flat cables. Two different pitches of separation can be supplied: 1,27 mm (the wires are individually separated Code 71.OL01) or 2,54 mm (the wires are separated by couples Code 71.OL02). This machine is suitable for separating flat cables having maximum width of 66mm. This model can be motorised with our MOT98 (code 7915030 220V or 7915031 110V). With this verion it is possible to separate the cable from the edges and inside sections.

Il modello SEF 3 è utilizzato per la separazione dei fili dei cavi piatti. Può essere fornita per due passi di separazione: 1,27 mm (i fili vengono separati singolarmente Cod. 71.OL01) o 2,54 mm (i fili vengono separati a coppie Cod. 71.OL02). Questa macchina è adatta alla lavorazione di cavi con larghezza massima di 66 mm. Questo modello può essere motorizzato con l'applicazione del MOT98 (cod. 7915030). Con questo modello è possibile separare i fili anche per tratti interni del cavo.

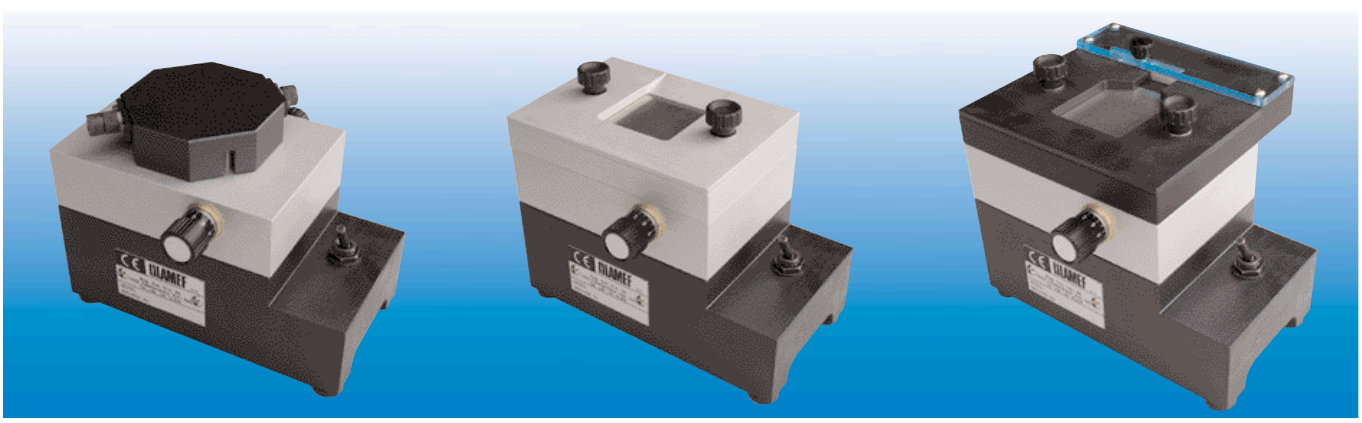
SEF 3 manual version
versione manuale
71.OL01 p. 1,27mm (.05")
71.OL02 p. 2,54mm (.01")



bga reballing system **BB2** riposizionatore sfere di stagno



BB2 code 98.0000



1.
The Centering device is necessary to properly position the BGA.
Il centratore viene utilizzato per la corretta posizione del BGA

2.
Soldering paste/glue placement on BGA.
Collocazione colla/pasta saldante sul BGA.

3.
Soldering balls placement
Collocazione sfere saldanti

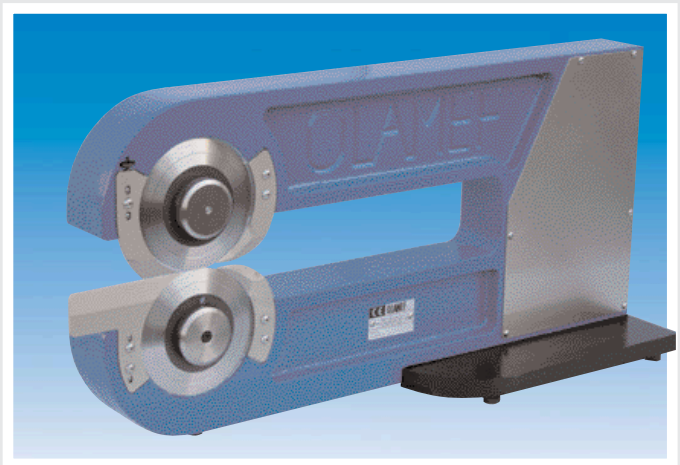
Re-balling kit designed for repairing BGAs and re-positioning of soldering balls. Use the kit when: you wish to re-use a BGA after desoldering it; you need to re-use prototype BGAs; when you need to mount soldering balls for a small lot of BGA production. It requires 5atm compressed air, air tube 6/4mm. Standard kit is formed by: base for BGA positioning, centering adaptor, top adaptor for soldering paste, top adaptor for soldering balls, tools.

Kit per la riparazione dei BGA e riposizionamento sfere di saldatura. Si usa il BB2 quando: si vuole riutilizzare il BGA o quando necessita di dissaldatura; quando c'è la necessità di riutilizzare prototipi di BGA; quando è necessario montare sfere di saldatura su produzioni limitate di BGA.
Necessita di aria compressa pari a 5 atm e tubo aria 6/4mm. Il kit è formato da: base per posizionamento del BGA, adattatore centraggio, adattatore superiore per pasta saldante, adattatore superiore per sfere di stagno e set di utensili.

manual or motorized pc board separator

SEP1
SEP1M

macchina manuale o motorizzata per separazione schede



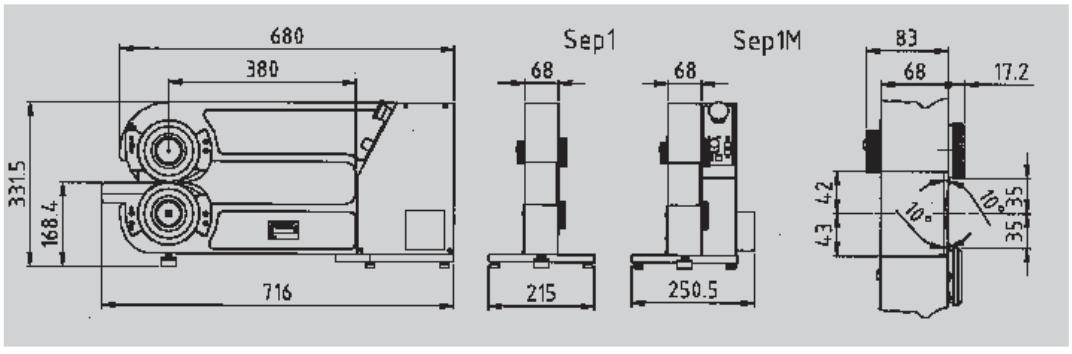
SEP1 code 100.0000

SEP1M code 100.0001 = 110 v
SEP1M code 100.0002= 220 v

packing = 80x32x42
machine weight =
SEP1 kg. 24
SEP1M kg. 27
gross weight =
SEP1 kg. 27
SEP1M kg. 30
SEP1M elect.supply =
220v/110v – 50hz – 80va

imballo = 80x32x42
peso macchina =
SEP1 kg. 24
SEP1M kg. 27
peso lordo =
SEP1 kg. 27
SEP1M kg. 30
SEP1M alimentazione =
220v/110v – 50hz – 80va

separation length 380 mm
lunghezza separazione 380 mm
adjustable speed
velocita' variabile



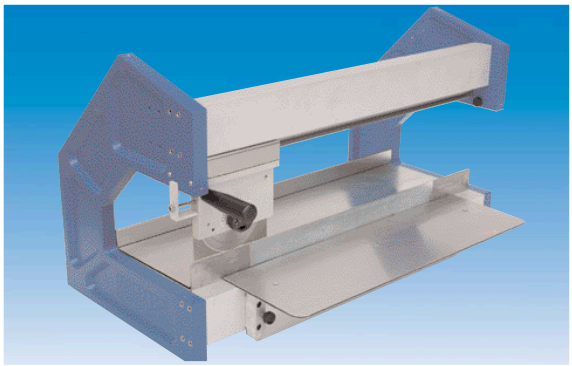
Manual or motorized machine suitable to separate pre-assembled Electronic Board. Precise, reliable and safe. The PCB is manually fed between the lower and upper blades using the scoring as reference. By pushing the board horizontally, the blade rotation starts offering in a sharp and accurate cut. The blade height is adjustable depending on the thickness of the PCB.

Macchina manuale o motorizzata per la separazione di schede elettroniche pre-assemblate. Precisa, sicura, affidabile. La scheda viene manualmente inserita fra la lama inferiore e quella superiore usando lo scoring come riferimento, spingendo la scheda in senso orizzontale si esegue il taglio in modo netto ed accurato. La posizione della lama superiore è regolabile in modo da stabilire la distanza necessaria fra le due lame.

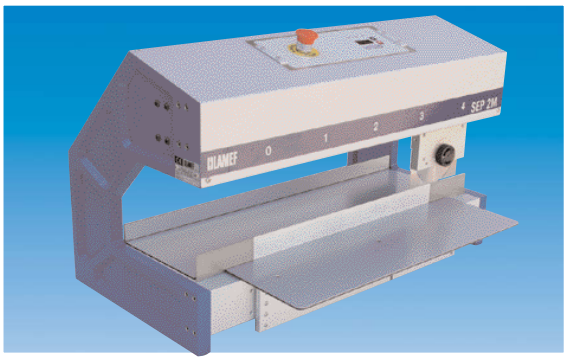
manual or motorized pc board separator

SEP2
SEP2M

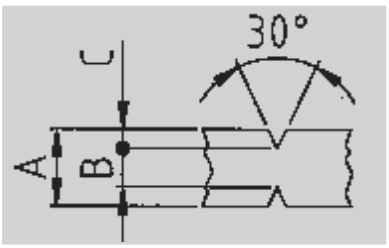
macchina manuale o motorizzata per separazione schede



SEP2 code 103.0000
SEP2-600 code 104.0000



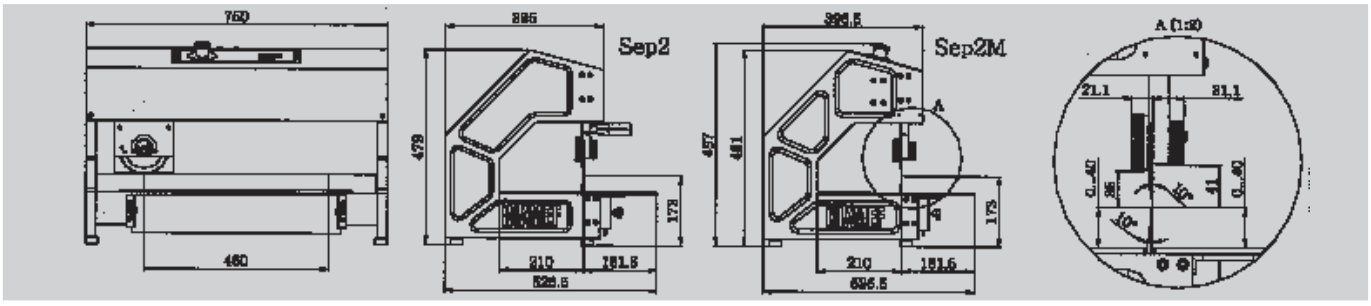
SEP2M code 103.0001 =110 v
SEP2M code 103.0002 = 220 v
SEP2M-600 code 104.0001 =110 v
SEP2M-600 code 104.0002 = 220 v



A= 1,0 - 3,2 mm
B = min. 0,3 mm
max 0,8 mm
C = min. 0,25 mm

packing=90x55x55
machine weight:
SEP2 = 32
SEP2M = 45
gross weight:
SEP2 = 36
SEP2M = 49
SEP2M elect.supply =
220v/110v – 50hz – 80va

imballo=90x55x55
peso macchina =
SEP2 = 32
SEP2M = 45
peso lordo =
SEP2 = 36
SEP2M = 49
SEP2M alimentazione =
220v/110v – 50hz – 80va



SEP2 and SEP2M are manual and motorized PC Board separators designed for scored and pre assembled PCBs. The scored board is placed on the lower linear blade. Separation length is 450mm. With the SEP2 the handle is used to move the upper circular blade while with the SEP2M the upper blade run is controlled by a foot pedal and the length of this run can be programmed through push buttons located on the main control panel. The distance between the upper circular blade and the lower linear blade can be adjusted. The height of the front and back supporting tables is also adjustable.

I modelli SEP2 e SEP2M sono macchine manuali e motorizzate che consentono la separazione di schede pre-incise e pre-montate. La lama lineare inferiore facilita il posizionamento della scheda usando la pre incisione come riferimento. La lunghezza di taglio è 450mm. Con il modello manuale SEP2 la maniglia viene usata per spostare la lama circolare superiore; con il modello motorizzato SEP2M la corsa della lama viene comandata da un pedale, la lunghezza della corsa può essere impostata tramite pulsanti posti sul pannello di controllo. La distanza fra la lama circolare superiore e la lama lineare inferiore è regolabile. I piani di supporto schede, anteriore e posteriore, possono essere regolati in altezza.

separator for slotted pcb — SEP3 — separatore per schede preasolate

SEP3 code 106.0000 without blades

Compressed air pressure = 6 bar
Weight Kg. 2
The thickness of the blade, to be ordered separately, must be specified on the order. We produce intermediate sizes on your demand.

Pressione aria 6 bar
Peso = Kg. 2
Lo spessore delle lame, da richiedersi separatamente, deve essere specificato all'ordine. Le dimensioni intermedie possono essere prodotte su richiesta del cliente.

SEP3 off-cut remover separates slotted PCB. The off-cuts are collected into the machine and it is necessary to manually clean the machine regularly. The blades used for the separation of the PCB can be easly replaced.

BLADE/ LAMA:

STANDARD "L" blade - "L" = 5 mm
1060015 Thick. 1,4 - for 1,5 mm slot
1060020 Thick. 1,9 - for 2 mm slot
1060025 Thick. 2,4 - for 2,5 mm slot
1060030 Thick. 2,9 - for 3 mm slot

REINFORCED "L" blade - "L" = 9 mm
1060115 Thick. 1,4 - for 1,5 mm slot
1060120 Thick. 1,9 - for 2 mm slot
1060125 Thick. 2,4 - for 2,5 mm slot
1060130 Thick. 2,9 - for 3 mm slot

STANDARD "T" blade - "L" 4,75 mm
1060215 Thick. 1,4 - for 1,5 mm slot
1060220 Thick. 1,9 - for 2 mm slot
1060225 Thick. 2,4 - for 2,5 mm slot
1060230 Thick. 2,9 - for 3 mm slot

SEP3 macchina pneumatica adatta al taglio di schede preasolate. Gli sfridi sono raccolti all'interno della macchina, ed è necessario pulire la macchina regolarmente. Sostituzione delle lame semplice ed economica.

cut-off saw — SEP4 — separatore strip

SEP4 Strips cutting machine. Quick and easy set up for various sizes. Line turning adjustments knob for header length of 1 to 32 pins. Hold down clamp for extract and sure positionning. DC motor with speed adjustment for optimal cutting efficiency. counter for keeping track of the number of component cut.

SEP4 macchina idonea al taglio di connettori strip. Facile regolazione per diverse dimensioni. Pomo regolazione per lunghezze da 1 a 32 pins. Fermo a bloccaggio per una corretta posizione. Motore DC con regolazione velocità. Munita di contatore per mantenere riferimento del numero di pezzi tagliato.

SEP4 code 109.0001-110 V
SEP4 code 109.0002-220 V

BLADE:
Material = HSS
Outer dia. = 63 mm
Thickness = 0,25 mm
STRIP DIM. :
Width max = 12 mm
Height max = 8 mm
Length of cut = 1-32 pin
Power source = 110/220 v
- Weight = Kg. 10

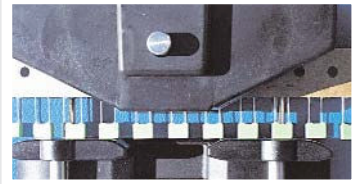
LAMA:
Materiale = HSS
Diametro esterno 63 mm
Spessore = 0,25 mm
DIMENSIONI STRIP :
Larghezza max = 12 mm
Altezza max 8 mm
Lungh. di separazione = 1-32 pin
- Alimentazione 110/220 v
- Peso = Kg.10

COUNTY

counter for taped axial and radial components

contapezzi per componenti assiali radiali nastrati

COUNTY radial and axial tape reading
COUNTY lettura componenti radiali e assiali



COUNTY VERSIONS
COUNTY 220 v. 50-60hz
Cod. 8301.051
COUNTY 220 v. 50-60hz with accumulator, auxiliary relay, printer output, watch Cod. 8301.072
COUNTY 110 v. 50-60hz
Cod. 8301.053
COUNTY 110 v. 50-60hz with accumulator, auxiliary relay, printer output, watch
Cod. 8301.074

VERSIONI COUNTY
COUNTY contapezzi 220 v. 50-60hz
Cod. 8301.051
COUNTY contapezzi 220 v. 50-60hz con accumulatore, relè ausiliario, uscita stampante, orologio Cod. 8301.072
COUNTY contapezzi 110 v. 50-60hz
Cod. 8301.053
COUNTY contapezzi 110 v. 50-60hz con accumulatore, relè ausiliario, uscita stampante, orologio Cod. 8301.074

ELECT.SUPPLY = 220 or 110V
LENGTH = cm 13
WIDTH = cm 24
HEIGHT = cm 12
PACKING = cm 24x32x18
VOLUME = m³ 0,013
COUNTY WEIGHT = KG.3
GROSS WEIGHT = KG.4

ALIMENTAZIONE = 220V
LUNG. = cm 13
LARGH. = cm 24
ALT. = cm 12
IMBALLO = cm 24x32x18
VOLUME = m³0,013
PESO COUNTY = KG.3
PESO LORDO = KG.4

COUNTY with SMD tape adaptor, support for rolled bandolier and handle
COUNTY con adattatore , supporto Bobina SMD e maniglia
(Cod.8301.018 + Cod.8301.028 + Cod. 8301.030)

COUNTY with support for rolled bandolier, handle and printer
COUNTY con Supporto Bobina, maniglia e stampante
(Cod.8301.023 + Cod. 8301.025 + Cod. 8301.090)

The County is a microcomputer based instrument which counts radial and axial components on tape. With the optional SMD adaptor it can also count SMD components.
It counts in both directions (right or left). It is equipped with a divider from 1 to 19 and a TOTALIZER mode counting or PRESET mode, with an alarm that starts when the desired component number has been reached.
Calibration test and self diagnostic procedure, last counting value and condition memory.

Il Contapezzi digitale a microcomputer esegue il conteggio di componenti nastrati assiali e radiali e componenti SMD con l'aggiunta dell'apposito adattatore.
Il conteggio può avvenire in entrambe le direzioni (destra o sinistra). E' dotato di divisore da 1 a 19.
Il conteggio può avvenire in modo TOTALIZZATORE o in modo PRESET, con allarme acustico al raggiungimento del numero di componenti desiderato.
Test di calibrazione e procedura di auto diagnosi.
Memoria ultimo valore contato e condizioni.

COUNTY-S
Motorized counter for SMD
Contapezzi motorizzata per SMD
(Cod.8301.101 - 8301.103)

Display: 6 digits
Maximum counting speed: 100/pcs/sec
1 piece per hole
Accuracy: +/- 1 piece
Holes per component: 1 to 99
Maximum tape height: 56 mm
Maximum reel diameter: 400 mm
UP/DOWN counting
Partial counting memory
PRESET MODE
Variable feeding speed
Step by step 1 component at a time
RS232C serial output for host computer or thermal Label printer
8301.101 COUNTY-S - 220/240V 50-60Hz
8301.103 COUNTY-S - 110V 50-60Hz

Display: 6 cifre a LED alta efficienza
Velocità massima di conteggio: 100 pz/sec (1 comp. per foro)
Precisione: +/- 1 pezzo
Numero dei fori per componente: da 1 a 99
Altezza massima nastro: 56 mm
Diametro massimo bobina: 400 mm
Conteggio UP/DOWN
Memoria di accumulo dei totali parziali
Funzionamento in PRESET
Velocità di avanzamento regolabile
Avanzamento step by step: 1 componente per volta
Collegamento seriale RS232C con computer esterno o stampante di etichette
8301.101 COUNTY-S - 220/240V 50-60Hz
8301.103 COUNTY-S -110V 50-60Hz

EMPTY REEL(8301.110)
Aluminium made
Inner 150/outer 350 mm diameter
Easily chargeable
Height of the tape 8 to 56 mm

BOBINA VUOTA (Cod 8301.110)
Per avvolgimento temporaneo, in alluminio
Diametro int. 150 mm est. 350 mm
Facilmente caricabile
Altezza del nastro da 8 a 56 mm

Motorized counter for taped SMD component counting. This machine works in a simple way by counting the holes on the tape.It can operate in two different ways. Totalizer: components are counted from a zero reference, tape feed is motorized and the counter automatically stops at the tape end, to prevent loss of the total. Preset mode: the desired component number is keyed on the keyboard and the counter automatically stops when it reaches the corresponding component. All functions are easy to operate by the help of interactive messages on the display, while system status is monitored by means of LEDS near the control keys. Motion control procedures are extremely simple, while special functions are grouped in a separate section on the keyboard in order to prevent operator errors.The memory function allows partial counting for the same component type and memory call can show at any time the memory contents without loss of the actual counting data. Step number indication (division factor) is always present, showed on a two-digit display.

La County S esegue il conteggio di componenti SMD nastrati. Il conteggio viene effettuato contando i fori del nastro di supporto. Vi sono due modalità di funzionamento:Totalizzatore: i componenti vengono contati a partire dallo zero, il movimento è motorizzato e la contapezzi si ferma automaticamente a fine nastro per non perdere il conteggio. Preselezione: viene impostato il numero di componenti desiderato e la contapezzi si porta automaticamente nella posizione corrispondente al numero di componenti selezionato. Tutte le funzioni della macchina sono guidate tramite messaggi sul display mentre lo stato di funzionamento è segnalato da led posti in corrispondenza del comando. Estremamente semplice è la gestione del movimento, le funzioni speciali sono raggruppate sulla tastiera in una sezione separata per evitare errori. La funzione memoria permette di accumulare i conteggi parziali di uno stesso componente, nonché di richiamare il valore totale in qualsiasi momento, senza perdere i dati reali del conteggio. L'indicazione del numero di passi per componente (fattore di divisione) è sempre presente, visualizzata su un display a due cifre.

COUNTY W COUNTING SCALE - HIGH RESOLUTION NEW MODEL
COUNTY W BILANCIA CONTAPEZZI - ALTA RISOLUZIONE NUOVO MODELLO

Code Model	cap. max	ris. display display res.	ris. int. int. res.	peso unit. min. min. unit weight
8301.190	3.000 g.	0,1 g.	0,01 g.	0,1 g.
8301.191	6.000 g.	0,2 g.	0,02 g.	0,2 g.
8301.192	15.000 g.	0,5 g.	0,05 g.	0,5 g.
8301.193	30.000 g.	1 g.	0,1 g.	1 g.

OPTIONAL:
(to be installed before shipment - da installare prima della spedizione)
RS 232 C SERIAL OUTPUT- USCITA RS 232C
(Cod. 8301.195)
PRINTER INTERFACE -INTERFACCIA STAMPANTE
(Cod. 8301.196)

County with digital display for component counting. Its high quality and precision make it suitable for offices, stores and laboratories.

Bilancia elettronica digitale di alta qualità e precisione per uso nei magazzini, negli uffici, nei laboratori, non omologata per utilizzazione nei pubblici esercizi.

Technical features:
System: strain gauge
Display: 3 groups of 14mm backlighted LCDs
Main: 110-120-220-240Vac 50/60Hz
Internal rechargeable battery
Display resolution: 1/30.000
Internal resolution: 1/480.000
Plate size: 334X245mm
Operating temperature: 0+40°C.

Caratteristiche tecniche:
Sistema: cella di carico strain gauge
Display: a cristalli liquidi, 14mm retroilluminato
Alimentazione = 110-120-220-240 Vac 50/60Hz
Batteria interna ricaricabile
Risoluzione display: 1/30.000
Risoluzione interna: 1/480.000
Dimenzioni piatto: 334X245mm
Temperatura di esercizio: 0+40°c

THERMAL LABEL PRINTER
Thermo-Adhesive Label Printer.
With the possibility to print the following data:
Total weight
Unit weight
Total quantity
AC Adaptor 110-230Vac and data Cable included
for COUNTY W - Printer Model Code 8301.223
For COUNTY-S and COUNTY - Printer Model Code 8301.090

THERMO-ADHESIVE ROLL PAPER (Code 8301.091) 20m length. Depending on the quantity of data to be printed, it is possible to obtain 300 to 500 labels.

STAMPANTE DI ETICHETTE
Stampante termica per etichette adesive.
Possibilità di stampare:
Peso totale
Peso unitario
Quantità pesi
Alimentatore 110-230Vac e cavo di segnale inclusi
Per COUNTY W - Modello Stampante Codice 8301.223
Per COUNTY-S e COUNTY - Modello Stampante Codice 8301.090

ROTOLO Carta termica per Stampante (Cod. 8301.091) rotolo 20mt di carta termica adesiva. Può fornire, a seconda della quantita di dati, da 300 a 500 etichette.

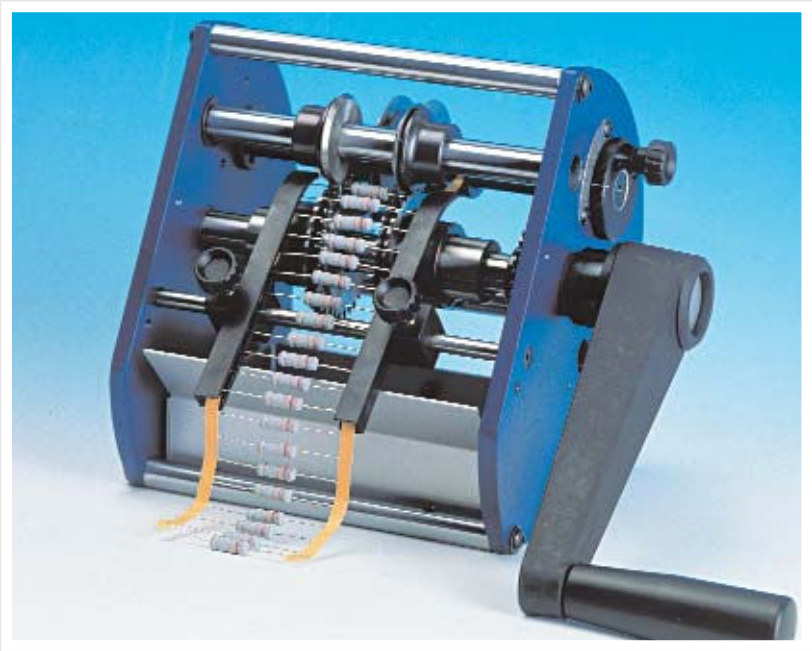
The thermo adhesive label printer 8301.090 can be attached to the County-S model 8301.101 - 8301.103 and also to Counters 8301.072 and 8301.074.

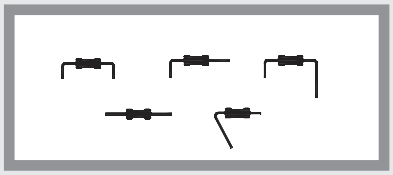
La stampante termica 8301.090 può essere collegata alle County-S modello 8301.101 - 8301.103 e alle County Modello 8301.072 e 8301.074

manual cutting bending machine for axial components

TP6 EC

taglia-piega manuale componenti assiali nastrati





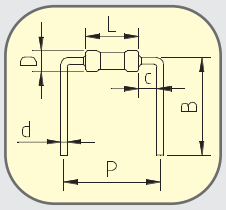
PRODUCTION = 50.000 p/h
LENGTH = cm 23
WIDTH = cm 19
HEIGHT = cm 20
PACKING = cm 39 x 25 x 26 -
VOLUME = m³ 0,025
MACHINE WEIGHT = KG.5
GROSS WEIGHT =KG.6

PRODUZIONE = 50.000 p/h
LUNGH = cm 23
LARGH = cm 19
ALT = cm 20
IMBALLO = cm 39 x 25 x 26
VOLUME = m³ 0,025
PESO MACCHINE = KG.5
PESO LORDO =KG.6

The machine model TP6-EC is designed for cutting and bending taped axial components with lead diameter from 0,4 to 1,3mm(.015" to .051").
The desired operation is adjusted in a quick and precise way.

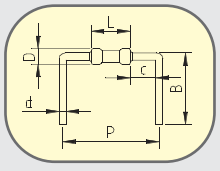
Il modello TP6-EC è una macchina manuale per tagliare e piegare componenti assiali nastrati con diametro del reoforo da 0,4 a 1,3 mm.
Le quote di lavorazione vengono impostate in modo rapido e preciso

TP6/1-EC STANDARD VERSION (cod. 23.OL01)



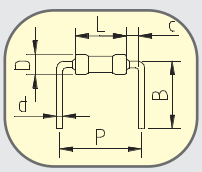
	MM		IN	
	min	max	min	max
P	6,5	60	.255	2.362
B	4	13	.157	.511
c	1,2		.047	
L		50		1.968
d	0,4	1,3	.015	.051
D	0,4	16	.015	.629

TP6/4 EC EXTRA REINFORCED BENDING (Cod.23.OL04)



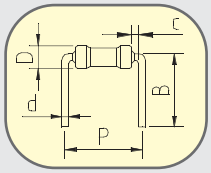
	MM		IN	
	min	max	min	max
P	10,16	60	.4	2.362
B	5	13	.196	.511
c	2,4		.094	
L		50		1.968
d	0,6	1,4	.023	.055
D	0,6	16	.023	.629

TP6/6 EC REDUCED BENDING VARIABLE PITCH (Cod.23.OL06)



	MM		IN	
	min	max	min	max
P	5,08	60	.2	2.362
B	4	13	.157	.511
c	0,8		.031	
L		50		1.968
d	0,4	0,8	.015	.031
D	0,4	10	.015	.039

TP6/7 EC REDUCED BENDING FIX PITCH (Cod.23.OL07)

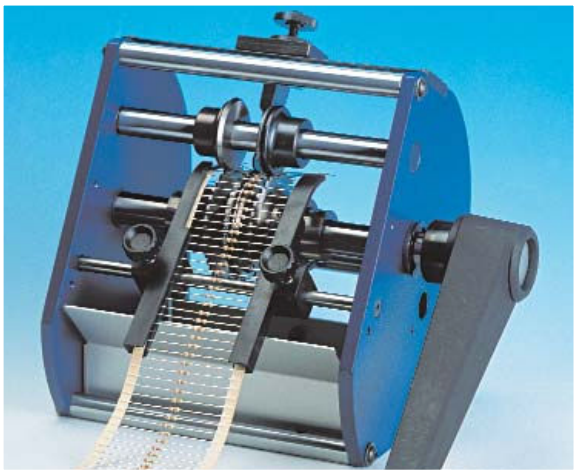


		MM		IN	
		min	max	min	max
	B	4	10	.157	.393
	c	0,5		.019	
	d	0,4	0,6	.015	.023
	D	0,4	4	.015	.157
code 23.0L07	**P**	5,08		.2	
code 23.0L09	**P**	7,62		.3	
code 23.0L10	**P**	10,16		.4	

manual cutting bending machine for axial components vertical mounting

TP6/V EC

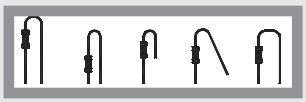
macchina manuale taglia-piega componenti assiali montaggio verticale



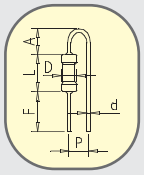
The machine Model TP6/V-EC is designed for cutting and bending taped axial components for vertical mounting. For components with lead diameter from 0.5 to 0.8 mm (.019 to .031") and for lead diameter from 0.8 to 1.3 mm (.031 to .051"). The bending pitch, which is determined by the bending cam supplied, can be changed by replacing the cam with one of different thickness.

Il modello TP6/V-EC è una macchina manuale per tagliare e piegare, per montaggio in verticale, componenti assiali nastrati con diametro del reoforo da 0,5 a 0,9 e da 0,8 a 1,3 . Il passo di piegatura, determinato dalla cam fornita, può essere variato, sostituendo la cam con un'altra avente larghezza diversa.

LEAD DIAMETER 0,5 TO 0,8 (.019" to .031")
TP6/V/1-EC STANDARD VERSION PITCH 2,54 mm (.10") (Cod. 81.OL01)



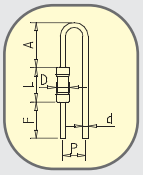
LEAD DIAMETER 0,8 TO 1,3 mm(.031" to .051")
TP6/V/21 EC PITCH 3,8 mm (.15") (Cod. 81.OL21)



	MM		IN	
	min	max	min	max
A	2	6	.078	.236
L		15		.590
F	3	8	.118	.314
D	0,5	3	.019	.118
d	0,5	0,8	.019	.031
P	**2,54 fix		** .1 fix	

PRODUCTION = 50.000 p/h
LENGTH = cm 23
WIDTH = cm 19
HEIGHT = cm 22
PACKING = cm 39 x 25 x 26 -
VOLUME = m³ 0,025
MACHINE WEIGHT = KG.5
GROSS WEIGHT =KG.6

PRODUZIONE = 50.000 p/h
LUNGHEZZA = cm 23
LARGHEZZA = cm 19
ALTEZZA = cm 22
IMBALLO = cm 39 x 25 x 26 -
VOLUME = m³ 0,025
PESO MACCHINA = KG.5
PESO LORDO =KG.6

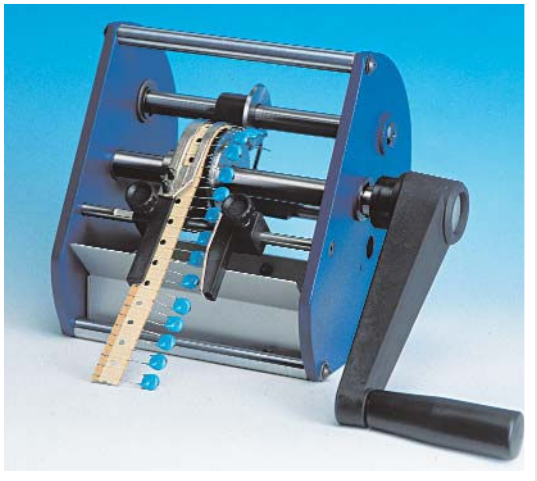


	MM		IN	
	min	max	min	max
A	4	9	.157	.354
L		15		.590
F	3	8	.118	.314
D	0,8	5	.031	.196
d	0,8	1,3	.031	.051
P	** 3,8 fix		**.15 fix	

manual cutting machine for taped radial components

TP6/R EC

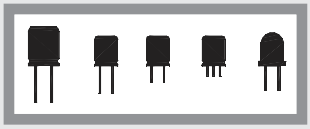
macchina manuale taglia componenti radiali nastrati

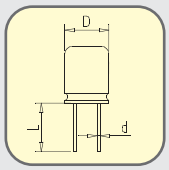


TP6/R-EC (Cod.31.OL21)

PRODUCTION = 20.000 p/h
LENGTH = cm 23
WIDTH = cm 19
HEIGHT = cm 20
PACKING = cm 39 x 25 x 26
VOLUME = m³ 0,025
MACHINE WEIGHT = KG.3
GROSS WEIGHT = KG.5

PRODUZIONE = 20.000 p/h
LUNGHEZZA = cm 23
LARGHEZZA = cm 19
ALTEZZA = cm 20
IMBALLO = cm 39 x 25 x 26
VOLUME = m³ 0,025
PESO MACCHINA = KG.3
PESO LORDO =KG.5





	MM		IN	
	min	max	min	max
L	2	10	.078	.393
d	0,4	1	.015	.039
D	1	14	0.39	.55

The machine Model TP6/R-EC is designed for cutting radial components in tape.The high quality and reliability of this machine ensure the best operation for a very long time.
La macchina modello TP6/R-EC è utilizzata per tagliare componenti radiali nastrati.
La qualità e l'affidabilità di queste macchine consentono di operare per anni senza rischio di usura delle parti meccaniche.