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TP/R-PR Taped Radial Component Cutting & Forming Machine:

The model TP/R-PR is a very versatile machine for cutting and forming taped radial components. Foot pedal operation which controls the down stroke of the cylinder that moves the upper die, which cuts and forms the component leads. The tape is manually fed into the die, the correct position for the components is obtained by a front pin, which can be adjusted depending on the size of the components. The die assembly model SMS is equipped with a wire holder which keeps the leads firmly in place, which helps to avoid any damage to the leads.

AS1 Automatic Feeding System for TP/R-PR:

The AS1 is an automatic system which attaches to the machine which increases the production. The driving wheel moves step by step stopping the tape during the preforming operation. It can be used to adapt the two most common hole pitches and special forms by supplying Series 4 with drawings and specifications. The AS1 is an automatic system that fits only the TP/R-PR machine. This accessory allows the machine to reach higher unattended production. The driving wheels move step by step stopping the tape during the preforming operation. It can be supplied to adapt the two most common hole pitches on the component tape 12.7mm and 15.0mm.

	MM			INCH			
	Min	Max	Fixed	Min	Max	Fixed	
OL93.0001 – SMS/1 Stand Off – Lock In:							
a	6.0	13.0	-	0.236	0.511	-	
b	3.0	10.0	-	0.118	0.393	-	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	10.0	-	0.039	0.393	-	
OL93.0002 – SMS/2 Stand Off:							
a	6.0	13.0	-	0.236	0.511	-	
b	3.0	10.0	-	0.118	0.393	-	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	10.0	-	0.039	0.393	-	
OL93.0003 – SMS/3 Body Locked on PCB Board:							
a	-	-	3.0	-	-	0.118	
c	-	-	1.4	-	-	0.055	
d*	0.4	0.8	-	0.015	0.031	-	
D	1.0	10.0	-	0.039	0.393	-	
*To be specified on order							
OL93.0004 – SMS/4 Straight Cut:							
a	3.0	10.0	-	0.118	0.393	-	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	10.0	-	0.039	0.393	-	
OL93.0005 – SMS/5 Polarity:							
a	6.0	13.0	-	0.236	0.511	-	
b	3.0	10.0	-	0.118	0.393	-	
c	-	-	1.4	-	-	0.055	
d*	0.4	0.8	-	0.015	0.031	-	
D	1.0	10.0	-	0.039	0.393	-	
E*	-	-	2.2	-	-	0.086	
*To be specified on order							

OL93.0006 – SMS/6 90° Bending:							
a	3.0	8.0	-	0.118	0.314	-	
b	-	-	6.0	-	-	0.236	
d*	0.4	0.8	-	0.015	0.031	-	
D*	1.0	6.0	-	0.039	0.236	-	
*To be Specified on order							
OL93.0007 – SMS/7 Surface Mounting:							
a	2.5	8.0	-	0.098	0.314	-	
b*	-	-	2.0	-	-	0.078	
c*	-	-	2.5	-	-	0.098	
d*	0.4	0.8	-	0.015	0.031	-	
D*	1.0	10.0	-	0.039	0.393	-	
f*	-	-	1.0	-	-	0.039	
*To be specified on order							
OL93.0008 – SMS/8 TO92 Center Lead Spread P=1.27mm and Cut:							
a	6.0	9.0	-	0.236	0.354	-	
b	3.0	6.0	-	0.118	0.236	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	1.27	-	-	0.05	
*To be specified on order							
OL93.0010 – SMS/10 TO92 Center Lead Spread and Lock:							
a	6.0	9.0	-	0.236	0.354	-	
b	3.0	6.0	-	0.118	0.236	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	1.27	-	-	0.05	
*To be specified on order							
OL93.0011 – SMS/11 TO92 Center Lead Spread 3 Lead Lock:							
a	6.0	9.0	-	0.236	0.354	-	
b	3.0	6.0	-	0.118	0.236	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	1.27	-	-	0.05	
*To be specified on order							

TP/SC4 Loose Radial Component Cutting & Forming Machine:

The model TP/SC4 is a very flexible pneumatic machine designed for cutting and forming loose radial components. Any of the available forms can be used with the standard version with two cylinders (MOL16.0000). The model with three cylinders (MOL16.0020) is required to form power transistors, to spread out and form the outer leads and spread the central one. The simplicity of operation and the large range of forms make this one the most reliable machines available on the market. A foot pedal controls the stroke of the lateral dies, that pushing the leads against the stationary die, perform a precise and fast cut and form. It is very easy to change the complete die assembly and/or the inner die when a different pitch is needed. Each set preforming tooling is supplied with all standard pitches. It is possible to obtain different pitches and special forms by supplying Series 4 with drawings and specifications.

	MM			INCH			
	Min	Max	Fixed	Min	Max	Fixed	
OL163000–Center Lead Spread, Double Kink on Outer Lead, Tooling only use on 3 Cylinder TP/SC4:							
A*	-	-	6.1	-	-	0.24	
b*	-	-	3.0	-	-	0.122	
c*	-	-	1.5	-	-	0.059	
f*	-	-	2.54	-	-	0.1	
p*	-	-	5.08	-	-	0.2	
p1*	-	-	2.54	-	-	0.1	
*To be specified on order							
OL160600–Stand off–Lock in/Double Kink, P=2.54/5.08/7.62/10.16mm (0.1/0.2/0.3/0.4”):							
a	5.0	15.0	-	0.196	0.590	-	
b	2.0	12.0	-	0.078	0.472	-	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
OL160700–Stand off –Lock in LED/Double Kink, P=2.54mm (0.1”):							
a	5.0	15.0	-	0.196	0.590	-	
b	2.0	12.0	-	0.078	0.472	-	
c	-	-	1.4	-	-	0.055	
D	2.0	5.0	-	0.078	0.196	-	
OL160800–Stand off–Kink Outwards, P=2.00/2.54/5.08/7.62/10.16mm (0.78/0.1/0.2/0.3/0.4”):							
a	6.0	16.0	-	0.236	0.629	-	
b	3.0	13.0	-	0.118	0.511	-	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
OL160900–Body Locked on PCB Board, P=2.54/5.08/7.62/10/16mm (0.1/0.2/0.3/0.4”):							
a	-	-	3.0	-	-	0.118	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
OL161000–Straight Cut, P=2.54/5.08/7.62/10.16mm (0.1/0.2/0.3/0.4”):							
a	3.0	13.0	-	0.118	0.511	-	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
OL161100–Diode Bridge 4 Leads, P=5.08mm (0.2”):							
a	6.0	14.0	-	0.236	0.551	-	
b	4.0	12.0	-	0.157	0.472	-	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	

OL161200-Polarity LED's etc. P=2.54mm (1'')							
a	5.0	15.0	-	0.196	0.590	-	
b	2.0	12.0	-	0.078	0.472	-	
c	-	-	1.4	-	-	0.055	
D	2.0	5.0	-	0.078	0.196	-	
E	-	-	2.4	-	-	0.094	
OL161300 - 90° Bending:							
a	3.0	8.0	-	0.118	0.314	-	
b*	-	-	6.0	-	-	0.236	
d*	0.4	0.8	-	0.015	0.031	-	
D*	1.0	15.0	-	0.039	0.590	-	
*To be specified on order							
OL161400 – Surface Mounting:							
a	2.5	8.0	-	0.098	0.314	-	
b*	-	-	2.0	-	-	0.078	
c*	-	-	2.5	-	-	0.098	
d*	0.4	0.8	-	0.015	0.031	-	
D*	1.0	15.0	-	0.039	0.590	-	
*To be specified on order							
OL161500-Stand Off/Kink Inwards, P=2.0/2.54/5.08/7.62/10.16mm (0.78/0.1/0.2/0.3/0.4'')							
a	6.0	16.0	-	0.236	0.629	-	
b	3.0	13.0	-	0.118	0.511	-	
c	-	-	1.4	-	-	0.055	
d	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
OL161700-To Increase the Pitch Out & Cut:							
a	5.0	8.0	-	0.196	0.314	-	
B	2.0	5.0	-	0.078	0.196	-	
c	-	-	1.4	-	-	0.055	
d*	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
p1*	-	-	5.08	-	-	0.2	
P*	-	-	2.54	-	-	0.1	
*To be specified on order							

OL161800 – To Reduce the Pitch & Cut:							
a	5.0	8.0	-	0.196	0.314	-	
b	2.0	5.0	-	0.078	0.196	-	
c	-	-	1.4	-	-	0.055	
d*	0.4	0.8	-	0.015	0.031	-	
D	1.0	15.0	-	0.039	0.590	-	
p1*	-	-	5.08	-	-	0.2	
p*	-	-	2.54	-	-	0.1	
*To be specified on order							
OL162100 – TO-220 Central Lead Spread & Cut:							
a	3.0	8.0	-	0.118	0.314	-	
b	-	-	6.0	-	-	0.236	
c	0.4	0.8	-	0.015	0.031	-	
p*	1.0	15.0	-	0.039	0.590	-	
*To be specified on order							
OL16210004 – TO-220 90° Bending Center Lead Off Set (Only Supplied with TP/SC3 Machine):							
a	3.0	5.0	-	0.118	0.196	-	
b*	-	-	5.0	-	-	0.196	
f*	-	-	5.5	-	-	0.216	
P	-	-	5.08	-	-	0.2	
*To be specified on order							
OL162200 – TO-220 Center Lead Spread & Lock:							
a	7.0	13.0	-	0.275	0.511	-	
b	4.0	10.0	-	0.157	0.393	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	2.54	-	-	0.1	
*To be specified on order							
OL162300 – TO-220 Center Lead Spread/3 Lead Lock:							
a	7.0	13.0	-	0.275	0.511	-	
b	4.0	10.0	-	0.157	0.393	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	2.54	-	-	0.1	
*To be specified on order							
OL162400 – TO-220 Double Kink on Three Lead in Line:							
a	6.0	11.0	-	0.236	0.433	-	
b	3.0	8.0	-	0.118	0.314	-	
c	-	-	1.4	-	-	0.055	
OL162500 – TO-92 Center Lead Spread:							
a	7.0	13.0	-	0.275	0.511	-	
b	4.0	10.0	-	0.157	0.393	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	1.27	-	-	0.05	
*To be specified on order							
OL162600 – TO-92 Center Lead Spread & Lock:							
a	7.0	13.0	-	0.275	0.511	-	
b	4.0	10.0	-	0.157	0.393	-	
c	-	-	1.4	-	-	0.055	
p*	-	-	1.27	-	-	0.05	
*To be specified on order							

OL162700 – TO-92 Center Lead Spread/Three Lead Lock:							
a	7.0	13.0	-	0.275	0.511	-	
b	4.0	10.0	-	0.157	0.393	-	
c	-	-	1.4	-	-	0.055	
P*	-	-	1.27	-	-	0.05	
*To be specified on order							
OL162800 – TO-92 Stand Off Lock In/Three Lead in Line:							
a	6.0	11.0	-	0.236	0.433	-	
b	3.0	8.0	-	0.118	0.314	-	
c	-	-	1.4	-	-	0.055	

TP6/PR-B Heavy Duty Axial Component Former:

The TP6/PR-B Axial Component Former handles components with a lead diameter from 1 to 1.3mm (.039 to .051). The standard unit is hand operated but can be enhanced with the following accessories. The CS10 loose component feeder to handle loose parts. The motor drive unit MOT98 with optional foot pedal. The unit has an adjustable speed control and can be used with loose or taped components. When working with components on tape we suggest using the BR6 Reel Holder. Adjustment is a quick and easy process with the tools provided. This is a high quality machine using long life cutting discs. The only maintenance required is to clean the cutting discs. With the TP6/PR-B it is possible to cut or cut & bend only without the preform.

	MM		INCH		
	Min	Max	Min	Max	
Model TP6/PR-B Standard Model Specifications:					
P	6.5	60	0.225	2.362	
B	10.0	14.0	0.393	0.551	
c	1.2	-	0.047	-	
L	-	50	-	1.968	
d	1.0	1.3	0.039	0.051	
D	1.0	16.0	0.039	0.629	
h	7.0	11.0	0.275	0.433	
z	3.1	Fixed	0.122	Fixed	Code: 40.OL01
z	3.9	Fixed	0.153	Fixed	Code: 40.OL11
z	5.0	Fixed	0.196	Fixed	Code: 40.OL04
Model TP6/PR-B reinforced Version Specifications:					
P	10.16	60.0	0.400	2.362	
B	10.0	14.0	0.393	0.551	
c	2.4	-	0.094	-	
L	-	50	-	1.968	
d	1.0	1.4	0.039	0.055	
D	1.0	16.0	0.039	0.629	
h	7.0	11.0	0.275	0.433	
z	3.1	Fixed	0.122	Fixed	Code: 40.OL02
z	3.9	Fixed	0.153	Fixed	Code: 40.OL12
z	5.0	Fixed	0.196	Fixed	Code: 40.OL05

TP6/PR-F Axial Component Former:

The model TP6/PR-F Axial Component Former is designed for cutting, bending and forming taped Axial Components. The different units handle components with lead diameters from 0.5-0.8mm, 0.8-

1.0mm & 1.0-1.3mm. The standard unit is hand operated but can be enhanced with the following accessories: The CS40 loose component feeder to handle loose parts. A motor drive unit model MOT98 with optional foot pedal. This unit has an adjustable speed control and can be used for loose or taped components. When working with components on tape, we suggest the use of the BR6 reel holder. The TNS option is a waste tape ejection system.

	MM		INCH		
	Min	Max	Min	Max	
Model TP6/PR-F Standard Version Specifications with Tooling Disabled:					
P	10.16	60.96	0.4	1.2	
L	-	23.0	-	0.905	
c	1.2	-	0.047	-	
B	6.0	12.0	0.236	0.472	
d	0.5	0.8	0.019	0.031	
D	0.5	8.0	0.019	0.314	
Model TP6/PR-F Standard Version with Stand Off Assembly – OL420800:					
P	10.16	60.96	0.4	2.4	
L	-	50	-	1.968	
c	1.2	-	0.047	-	
h	6.0	9.0	0.236	0.354	
B	8.0	11.0	0.314	0.433	
d	0.5	0.9	0.019	0.035	
D	0.5	8.0	0.019	0.314	
z	2.0	4.0	0.078	0.157	
Model TP6/PR-F Standard Version with Reduced Pitch Assembly – OL420900:					
P	7.62	58.42	0.3	2.3	
L	-	50	-	1.968	
c	1.2	-	0.047	-	
h	5.0	9.0	0.196	0.354	
B	7.0	11.0	0.275	0.433	
d	0.5	0.9	0.019	0.035	
D	0.5	8.0	0.019	0.314	
z	2.0	4.0	0.078	0.157	
E	1.27	-	0.05	-	

Model TP6/PR-F Standard Version with Stand Off Assembly – OL420750:					
P	10.16	60.96	0.4	2.4	
L	-	50	-	1.968	
c	1.2	-	0.047	-	
h	6.5	9.5	0.255	0.374	
B	8.5	11.5	0.344	0.452	
d	0.5	0.9	0.019	0.035	
D	0.5	8.0	0.019	0.314	
z	2.0	4.0	0.078	0.157	
Model TP6/PR-F Standard Version with Lock In Assembly – OL420850:					
P	10.16	60.96	0.4	2.4	
L	-	50	-	1.968	
c	1.2	-	0.047	-	
h	4.5	8.0	0.177	0.314	
B	7.5	11.0	0.295	0.433	
d	0.5	0.8	0.019	0.031	
D	0.5	8.0	0.019	0.314	
z	3.0	4.0	0.118	0.157	
Model TP6/PR-F Standard Version with Body Locked On PCB – OL421000:					
P	10.16	60.96	0.4	2.4	
L	-	50	-	1.968	
c	1.2	-	0.047	-	
B	5.0	8.0	0.196	0.314	
d	0.5	0.8	0.019	0.031	
D	2.0	8.0	0.078	0.314	
Model TP6/PR-F Re-enforced Version with Stand Off Assembly – OL420750:					
P	10.16	60.96	0.4	2.4	
L	-	50	-	1.968	
c	1.5	-	0.059	-	
h	7.0	12.0	0.275	0.472	
B	9.0	14.0	0.354	0.551	
d	0.8	1.0	0.031	0.039	
D	0.8	8.0	0.031	0.314	
z	2.0	4.0	0.078	0.157	
Model TP6/PR-F Re-enforced Version with Reduced Pitch Assembly – OL420900:					
P	7.62	58.42	0.3	2.3	
L	-	50	-	1.968	
c	1.5	-	0.059	-	
h	6.0	12.0	0.236	0.472	
B	8.0	14.0	0.314	0.551	
d	0.8	0.1	0.031	0.039	
D	0.8	8.0	0.031	0.314	
z	2.0	4.0	0.078	0.157	
E	1.27	-	0.05	-	

Model TP6/PR-F Re-enforced Version with Lock In Assembly – OL420950:					
P	10.16	60.96	0.4	2.4	
L	-	50	-	1.968	
c	1.5	-	0.059	-	
h	5.5	11.0	0.216	0.433	
B	8.5	14.0	0.334	0.551	
d	0.8	1.0	0.031	0.039	
D	0.8	8.0	0.031	0.314	
z	3.0	4.5	0.118	0.177	
Model TP6/PR-F Extra Re-enforced Version with Stand Off Assembly – OL430700:					
P	12.70	60.96	0.5	2.4	
L	-	50	-	1.968	
c	2.5	-	0.098	-	
h	11.0	16.0	0.433	0.629	
B	13.0	18.0	0.511	0.708	
d	1.0	1.3	0.039	0.051	
D	1.0	8.0	0.039	0.314	
z	2.0	4.0	0.078	0.157	
Model TP6/PR-F Extra Re-enforced Version with Reduced Pitch Assembly – OL430900:					
P	10.16	58.42	0.4	2.3	
L	-	50	-	1.968	
c	2.5	-	0.098	-	
h	9.0	16.0	0.354	0.629	
B	11.0	18.0	0.433	0.708	
d	1.0	1.3	0.039	0.051	
D	1.0	8.0	0.039	0.314	
z	2.0	4.0	0.078	0.157	
E	1.27	-	0.05	-	

TP6/V-PR Vertical Axial Component Former:

The TP6/V-PR Vertical Axial Component Forming Machine is designed for cutting and bending taped axial components for vertical mounting. It handles components with a lead diameter from 0.5-0.8mm (0.019-0.031"). The standard formed component will lock into the P.C. Board. The TP6/V-PR Vertical Axial Component Former pitch can be adjusted by replacing the die assembly which changes the length of the protrusion. The standard unit is hand operated but can be enhanced by the following accessories: The CS20 loose component feeder to handle loose parts. The motor drive unit MOT98 with optional foot pedal, this unit has an adjustable speed control and can be used with loose or taped components.

	MM		INCH		
	Min	Max	Min	Max	
Model TP6/V-PR/1 with Pre-Forming Tooling, P=2.54mm (0.1") – MOL86.OL01:					
A	2.8	5.0	0.110	0.196	
L	3.0	15.0	0.118	0.590	
F	4.3	10.0	0.169	0.393	
c	1.5	5.0	0.059	0.196	
e	1.2	4.0	0.047	0.157	
b	1.0	1.0	0.039	0.039	
d	0.5	0.8	0.019	0.031	
D	0.5	4.0	0.019	0.157	
P	2.54 Fixed		0.1 Fixed		

TP6/V-PR/2 with Pre-Forming Tooling, P=5.08mm (0.2") – MOL86.OL02					
A	3.0	5.0	0.118	0.196	
L	3.0	15.0	0.118	0.590	
F	4.3	10.0	0.169	0.393	
c	1.5	5.0	0.059	0.196	
e	1.2	4.0	0.047	0.157	
b	1.0	1.0	0.039	0.039	
d	0.5	0.8	0.019	0.031	
D	0.5	8.0	0.019	0.314	
P	5.08 Fixed		0.2 Fixed		