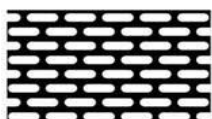


### OBLONG PUNCHES

5.00mm x 3.30mm		13.50mm x 0.80mm		20.00mm x 2.05mm		20.00mm x 3.85mm
5.00mm x 3.50mm		14.00mm x 3.50mm		20.00mm x 2.10mm		20.00mm x 3.90mm
6.00mm x 4.00mm		14.00mm x 3.75mm		20.00mm x 2.15mm		20.00mm x 3.95mm
6.40mm x 1.20mm		15.00mm x 3.00mm		20.00mm x 2.20mm		20.00mm x 3.96mm
7.00mm x 2.80mm		15.00mm x 5.00mm		20.00mm x 2.25mm		20.00mm x 3.97mm
7.00mm x 3.50mm		15.00mm x 9.00mm		20.00mm x 2.30mm		20.00mm x 4.00mm
8.00mm x 1.80mm		16.00mm x 2.00mm		20.00mm x 2.35mm		20.00mm x 4.05mm
8.00mm x 4.00mm		16.00mm x 8.00mm		20.00mm x 2.38mm		20.00mm x 4.10mm
8.00mm x 5.00mm		16.00mm x 12.00mm		20.00mm x 2.40mm		20.00mm x 4.15mm
8.60mm x 4.20mm		18.00mm x 9.00mm		20.00mm x 2.45mm		20.00mm x 4.20mm
9.50mm x 1.50mm		19.00mm x 1.60mm		20.00mm x 2.50mm		20.00mm x 4.25mm
9.50mm x 8.00mm		19.00mm x 9.50mm		20.00mm x 2.55mm		20.00mm x 4.30mm
10.00mm x 2.00mm		19.00mm x 13.00mm		20.00mm x 2.60mm		20.00mm x 4.35mm
10.00mm x 3.00mm		19.04mm x 2.18mm		20.00mm x 2.65mm		20.00mm x 4.36mm
10.00mm x 4.00mm		19.04mm x 2.47mm		20.00mm x 2.70mm		20.00mm x 4.40mm
10.00mm x 5.00mm		19.05mm x 1.98mm		20.00mm x 2.75mm		20.00mm x 4.45mm
10.00mm x 6.00mm		19.05mm x 6.35mm		20.00mm x 2.77mm		20.00mm x 4.50mm
10.20mm x 5.20mm		20.00mm x 0.70mm		20.00mm x 2.80mm		20.00mm x 4.55mm
10.50mm x 6.50mm		20.00mm x 0.80mm		20.00mm x 2.85mm		20.00mm x 4.60mm
11.00mm x 5.50mm		20.00mm x 0.85mm		20.00mm x 2.90mm		20.00mm x 4.65mm
11.00mm x 6.40mm		20.00mm x 0.90mm		20.00mm x 2.95mm		20.00mm x 4.70mm
11.00mm x 7.00mm		20.00mm x 0.95mm		20.00mm x 3.00mm		20.00mm x 4.75mm
12.00mm x 2.00mm		20.00mm x 1.00mm		20.00mm x 3.05mm		20.00mm x 4.76mm
12.00mm x 4.00mm		20.00mm x 1.10mm		20.00mm x 3.10mm		20.00mm x 4.80mm
12.00mm x 6.00mm		20.00mm x 1.15mm		20.00mm x 3.15mm		20.00mm x 4.85mm
12.00mm x 6.50mm		20.00mm x 1.20mm		20.00mm x 3.175mm		20.00mm x 4.90mm
12.00mm x 10.00mm		20.00mm x 1.25mm		20.00mm x 3.20mm		20.00mm x 4.95mm
12.50mm x 1.00mm		20.00mm x 1.30mm		20.00mm x 3.25mm		20.00mm x 5.00mm
12.70mm x 1.60mm		20.00mm x 1.35mm		20.00mm x 3.30mm		20.00mm x 5.05mm
12.70mm x 1.80mm		20.00mm x 1.40mm		20.00mm x 3.35mm		20.00mm x 5.10mm
12.70mm x 2.00mm		20.00mm x 1.45mm		20.00mm x 3.40mm		20.00mm x 5.15mm
12.70mm x 2.01mm		20.00mm x 1.50mm		20.00mm x 3.45mm		20.00mm x 5.20mm
12.70mm x 2.20mm		20.00mm x 1.55mm		20.00mm x 3.50mm		20.00mm x 5.25mm
12.70mm x 2.50mm		20.00mm x 1.60mm		20.00mm x 3.55mm		20.00mm x 5.30mm
12.70mm x 5.97mm		20.00mm x 1.65mm		20.00mm x 3.57mm		20.00mm x 5.35mm
12.70mm x 6.40mm		20.00mm x 1.70mm		20.00mm x 3.60mm		20.00mm x 5.40mm
13.00mm x 2.00mm		20.00mm x 1.75mm		20.00mm x 3.65mm		20.00mm x 5.45mm
13.00mm x 3.00mm		20.00mm x 1.80mm		20.00mm x 3.70mm		20.00mm x 5.50mm
13.00mm x 8.00mm		20.00mm x 1.85mm		20.00mm x 3.75mm		20.00mm x 5.55mm
13.15mm x 2.90mm		20.00mm x 1.90mm		20.00mm x 3.80mm		20.00mm x 5.60mm
13.33mm x 3.00mm		20.00mm x 1.95mm				
		20.00mm x 2.00mm				

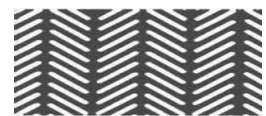
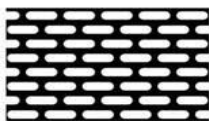


**OBLONG**



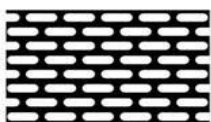
**PUNCHES**

20.00mm x 5.65mm		20.32mm x 7.94mm		25.00mm x 2.25mm		25.00mm x 3.85mm
20.00mm x 5.70mm		20.80mm x 11.80mm		25.00mm x 2.30mm		25.00mm x 3.90mm
20.00mm x 5.75mm		22.00mm x 3.25mm		25.00mm x 2.33mm		25.00mm x 3.95mm
20.00mm x 5.80mm		25.00mm x 0.70mm		25.00mm x 2.35mm		25.00mm x 3.97mm
20.00mm x 5.85mm		25.00mm x 0.80mm		25.00mm x 2.37mm		25.00mm x 4.00mm
20.00mm x 5.90mm		25.00mm x 0.85mm		25.00mm x 2.40mm		25.00mm x 4.05mm
20.00mm x 5.95mm		25.00mm x 0.90mm		25.00mm x 2.45mm		25.00mm x 4.10mm
20.00mm x 6.00mm		25.00mm x 0.95mm		25.00mm x 2.47mm		25.00mm x 4.15mm
20.00mm x 6.10mm		25.00mm x 1.00mm		25.00mm x 2.48mm		25.00mm x 4.20mm
20.00mm x 6.20mm		25.00mm x 1.05mm		25.00mm x 2.49mm		25.00mm x 4.25mm
20.00mm x 6.30mm		25.00mm x 1.10mm		25.00mm x 2.50mm		25.00mm x 4.30mm
20.00mm x 6.35mm		25.00mm x 1.15mm		25.00mm x 2.51mm		25.00mm x 4.35mm
20.00mm x 6.40mm		25.00mm x 1.20mm		25.00mm x 2.52mm		25.00mm x 4.37mm
20.00mm x 6.50mm		25.00mm x 1.24mm		25.00mm x 2.53mm		25.00mm x 4.40mm
20.00mm x 6.60mm		25.00mm x 1.30mm		25.00mm x 2.55mm		25.00mm x 4.45mm
20.00mm x 6.70mm		25.00mm x 1.35mm		25.00mm x 2.60mm		25.00mm x 4.50mm
20.00mm x 6.74mm		25.00mm x 1.40mm		25.00mm x 2.65mm		25.00mm x 4.55mm
20.00mm x 6.80mm		25.00mm x 1.47mm		25.00mm x 2.70mm		25.00mm x 4.60mm
20.00mm x 6.90mm		25.00mm x 1.50mm		25.00mm x 2.75mm		25.00mm x 4.65mm
20.00mm x 7.00mm		25.00mm x 1.55mm		25.00mm x 2.80mm		25.00mm x 4.70mm
20.00mm x 7.10mm		25.00mm x 1.60mm		25.00mm x 2.85mm		25.00mm x 4.75mm
20.00mm x 7.14mm		25.00mm x 1.65mm		25.00mm x 2.90mm		25.00mm x 4.76mm
20.00mm x 7.20mm		25.00mm x 1.70mm		25.00mm x 2.95mm		25.00mm x 4.80mm
20.00mm x 7.30mm		25.00mm x 1.75mm		25.00mm x 3.00mm		25.00mm x 4.85mm
20.00mm x 7.40mm		25.00mm x 1.80mm		25.00mm x 3.05mm		25.00mm x 4.90mm
20.00mm x 7.50mm		25.00mm x 1.85mm		25.00mm x 3.10mm		25.00mm x 4.95mm
20.00mm x 7.60mm		25.00mm x 1.90mm		25.00mm x 3.15mm		25.00mm x 5.00mm
20.00mm x 7.70mm		25.00mm x 1.95mm		25.00mm x 3.18mm		25.00mm x 5.10mm
20.00mm x 7.80mm		25.00mm x 1.98mm		25.00mm x 3.20mm		25.00mm x 5.15mm
20.00mm x 7.90mm		25.00mm x 2.00mm		25.00mm x 3.25mm		25.00mm x 5.20mm
20.00mm x 8.00mm		25.00mm x 2.01mm		25.00mm x 3.30mm		25.00mm x 5.25mm
20.00mm x 8.25mm		25.00mm x 2.02mm		25.00mm x 3.35mm		25.00mm x 5.30mm
20.00mm x 8.50mm		25.00mm x 2.05mm		25.00mm x 3.40mm		25.00mm x 5.40mm
20.00mm x 8.75mm		25.00mm x 2.10mm		25.00mm x 3.45mm		25.00mm x 5.50mm
20.00mm x 9.00mm		25.00mm x 2.15mm		25.00mm x 3.50mm		25.00mm x 5.55mm
20.00mm x 9.25mm		25.00mm x 2.17mm		25.00mm x 3.55mm		25.00mm x 5.60mm
20.00mm x 9.50mm		25.00mm x 2.18mm		25.00mm x 3.60mm		25.00mm x 5.70mm
20.00mm x 9.75mm		25.00mm x 2.19mm		25.00mm x 3.65mm		25.00mm x 5.75mm
20.00mm x 10.00mm		25.00mm x 2.20mm		25.00mm x 3.70mm		25.00mm x 5.80mm
20.00mm x 11.00mm		25.00mm x 2.21mm		25.00mm x 3.75mm		25.00mm x 5.90mm
20.00mm x 13.00mm		25.00mm x 2.24mm		25.00mm x 3.80mm		25.00mm x 6.00mm



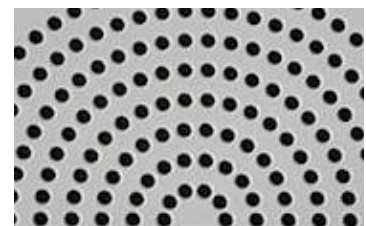
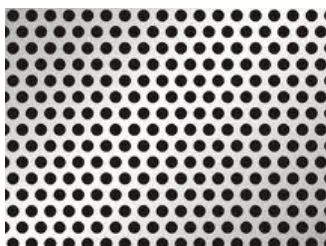
**OBLONG PUNCHES**

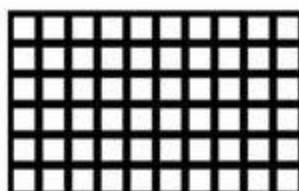
25.00mm x 6.25mm		30.00mm x 2.90mm		35.00mm x 33.00mm		
25.00mm x 6.35mm		30.00mm x 3.00mm		36.00mm x 10.4mm		
25.00mm x 6.50mm		30.00mm x 3.10mm		38.00mm x 1.50mm		
25.00mm x 6.75mm		30.00mm x 3.20mm		38.00mm x 2.05mm		
25.00mm x 7.00mm		30.00mm x 3.30mm		38.00mm x 6.50mm		
25.00mm x 7.25mm		30.00mm x 3.40mm		40.00mm x 8.00mm		
25.00mm x 7.50mm		30.00mm x 3.50mm		40.00mm x 10.00mm		
25.00mm x 7.75mm		30.00mm x 3.60mm		40.00mm x 16.00mm		
25.00mm x 8.00mm		30.00mm x 3.70mm		50.00mm x 3.00mm		
25.00mm x 8.25mm		30.00mm x 3.80mm		50.00mm x 5.00mm		
25.00mm x 8.50mm		30.00mm x 3.90mm		50.00mm x 8.00mm		
25.00mm x 8.75mm		30.00mm x 4.00mm		50.00mm x 9.00mm		
25.00mm x 9.00mm		30.00mm x 4.10mm		50.00mm x 10.00mm		
25.00mm x 9.25mm		30.00mm x 4.20mm		50.00mm x 12.00mm		
25.00mm x 9.50mm		30.00mm x 4.30mm		50.00mm x 14.00mm		
25.00mm x 9.75mm		30.00mm x 4.40mm		56.00mm x 5.00mm		
25.00mm x 10.00mm		30.00mm x 4.50mm		60.00mm x 10.00mm		
25.00mm x 10.25mm		30.00mm x 4.60mm		60.00mm x 13.50mm		
25.40mm x 1.19mm		30.00mm x 4.70mm		63.50mm x 12.70mm		
25.40mm x 2.00mm		30.00mm x 4.75mm		72.00mm x 4.00mm		
25.40mm x 2.26mm		30.00mm x 4.80mm		76.00mm x 1.00mm		
26.60mm x 3.60mm		30.00mm x 4.90mm				
26.60mm x 9.85mm		30.00mm x 5.00mm				
26.60mm x 10.10mm		30.00mm x 5.20mm				
28.00mm x 18.00mm		30.00mm x 5.40mm				
30.00mm x 1.40mm		30.00mm x 5.60mm				
30.00mm x 1.50mm		30.00mm x 5.80mm				
30.00mm x 1.60mm		30.00mm x 6.00mm				
30.00mm x 1.70mm		30.00mm x 6.50mm				
30.00mm x 1.80mm		30.00mm x 7.00mm				
30.00mm x 1.90mm		30.00mm x 7.50mm				
30.00mm x 2.00mm		30.00mm x 8.00mm				
30.00mm x 2.10mm		30.00mm x 8.25mm				
30.00mm x 2.20mm		30.00mm x 8.50mm				
30.00mm x 2.30mm		30.00mm x 9.00mm				
30.00mm x 2.40mm		30.00mm x 10.50mm				
30.00mm x 2.50mm		30.00mm x 11.00mm				
30.00mm x 2.60mm		30.00mm x 14.00mm				
30.00mm x 2.70mm		32.00mm x 3.00mm				
30.00mm x 2.80mm		35.00mm x 2.00mm				



**ROUND PUNCHES**

DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER	DIAMETER
0.810mm	2.900mm	4.750mm	7.140mm	9.520mm	17.000mm	34.000mm
1.000mm	2.927mm	4.760mm	7.200mm	9.530mm	17.200mm	34.500mm
1.200mm	3.000mm	4.800mm	7.250mm	9.600mm	17.500mm	35.000mm
1.250mm	3.100mm	4.900mm	7.300mm	9.700mm	18.000mm	36.000mm
1.390mm	3.175mm	5.000mm	7.400mm	10.000mm	18.500mm	37.000mm
1.500mm	3.181mm	5.100mm	7.500mm	10.250mm	19.000mm	38.000mm
1.600mm	3.200mm	5.150mm	7.540mm	10.300mm	19.050mm	39.000mm
1.700mm	3.250mm	5.160mm	7.600mm	10.310mm	19.250mm	39.500mm
1.750mm	3.300mm	5.200mm	7.700mm	10.500mm	19.500mm	40.000mm
1.770mm	3.359mm	5.250mm	7.750mm	10.600mm	20.000mm	41.000mm
1.800mm	3.400mm	5.300mm	7.800mm	10.700mm	20.500mm	42.000mm
1.830mm	3.450mm	5.400mm	7.900mm	10.750mm	21.000mm	43.000mm
1.900mm	3.500mm	5.410mm	7.920mm	11.000mm	21.400mm	44.000mm
2.000mm	3.562mm	5.480mm	7.930mm	11.110mm	21.500mm	45.000mm
2.006mm	3.600mm	5.500mm	7.940mm	11.250mm	22.000mm	46.000mm
2.100mm	3.660mm	5.550mm	8.000mm	11.500mm	22.500mm	47.000mm
2.150mm	3.700mm	5.560mm	8.100mm	11.750mm	23.000mm	48.000mm
2.165mm	3.750mm	5.600mm	8.150mm	11.900mm	23.500mm	49.000mm
2.166mm	3.760mm	5.700mm	8.200mm	12.000mm	24.000mm	50.000mm
2.200mm	3.800mm	5.740mm	8.250mm	12.250mm	24.500mm	50.800mm
2.250mm	3.810mm	5.800mm	8.300mm	12.300mm	24.610mm	51.000mm
2.300mm	3.890mm	5.900mm	8.330mm	12.500mm	25.000mm	52.000mm
2.317mm	3.900mm	6.000mm	8.400mm	12.700mm	25.400mm	53.000mm
2.360mm	3.970mm	6.100mm	8.500mm	12.900mm	25.500mm	54.000mm
2.400mm	4.000mm	6.200mm	8.600mm	13.000mm	26.000mm	55.000mm
2.410mm	4.090mm	6.250mm	8.700mm	13.500mm	26.500mm	56.000mm
2.450mm	4.100mm	6.300mm	8.730mm	13.750mm	27.000mm	57.000mm
2.460mm	4.150mm	6.350mm	8.750mm	14.000mm	27.500mm	58.000mm
2.500mm	4.200mm	6.400mm	8.800mm	14.300mm	27.600mm	59.000mm
2.516mm	4.250mm	6.500mm	8.900mm	14.500mm	28.000mm	60.000mm
2.520mm	4.300mm	6.600mm	9.000mm	14.900mm	28.500mm	62.000mm
2.560mm	4.370mm	6.700mm	9.150mm	15.000mm	29.000mm	63.000mm
2.600mm	4.400mm	6.740mm	9.250mm	15.240mm	29.500mm	65.000mm
2.650mm	4.500mm	6.800mm	9.300mm	15.500mm	30.000mm	66.000mm
2.698mm	4.520mm	6.900mm	9.350mm	15.875mm	31.000mm	70.000mm
2.700mm	4.600mm	7.000mm	9.375mm	16.000mm	32.000mm	72.000mm
2.750mm	4.700mm	7.100mm	9.500mm	16.500mm	33.000mm	73.000mm
2.800mm						74.000mm
2.840mm						75.000mm
						76.000mm



[illegible]

**MASFIELD  
MANUFACTURING** PTY.  
LTD.

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● SHEETMETAL FABRICATORS ● ENGINEERS

**9 - 11 Deborah Street,  
Bendigo. 3550  
Phone (03) 5442 2687  
Fax (03) 5443 0916**

**RECTANGULAR PUNCHES ( Square Ends )**

.80mm x 3.50mm		19.10mm x 3.70mm		30.00mm x 5.00mm	
5.00mm x 1.50mm		19.20mm x 12.90mm		30.00mm x 10.00mm	
6.50mm x 1.20mm		20.00mm x 2.00mm		30.00mm x 12.00mm	
8.00mm x 2.00mm		20.00mm x 2.01mm		30.40mm x 6.40mm	
8.00mm x 4.00mm		20.00mm x 4.00mm		31.00mm x 6.00mm	
8.50mm x 2.20mm		20.00mm x 5.00mm		31.75mm x 6.35mm	RADIUS CORNERS
9.00mm x 3.00mm	HOLE FOR SHELF BRACKET	20.00mm x 6.00mm		32.00mm x 6.00mm	
9.50mm x 1.20mm		20.00mm x 8.00mm		32.00mm x 8.00mm	
10.00mm x 2.00mm		24.00mm x 5.00mm		33.00mm x 9.50mm	
10.00mm x 5.00mm		25.00mm x 1.60mm		35.00mm x 7.00mm	
11.00mm x 7.00mm		25.00mm x 2.00mm		36.00mm x 6.00mm	
12.00mm x 1.50mm		25.00mm x 2.10mm		36.00mm x 8.00mm	
12.00mm x 1.58mm		25.00mm x 2.18mm		39.00mm x 20.00mm	
12.00mm x 1.95mm		25.00mm x 2.20mm		40.00mm x 4.50mm	
12.00mm x 6.00mm		25.00mm x 2.38mm		40.00mm x 5.00mm	
12.70mm x 1.990mm		25.00mm x 2.50mm		40.00mm x 12.00mm	
12.70mm x 1.995mm		25.00mm x 3.00mm		40.00mm x 13.00mm	
12.70mm x 2.000mm		25.00mm x 3.20mm		40.00mm x 14.00mm	
12.70mm x 2.005mm		25.00mm x 4.00mm		40.00mm x 18.00mm	RADIUS CORNERS
12.70mm x 2.010mm		25.00mm x 5.00mm		45.00mm x 15.00mm	
12.70mm x 2.015mm		25.00mm x 8.25mm		45.00mm x 15.50mm	
12.70mm x 2.020mm		25.00mm x 8.50mm		45.00mm x 19.00mm	
12.70mm x 3.175mm		25.00mm x 10.00mm		47.00mm x 7.00mm	
13.00mm x 8.20mm		25.00mm x 12.00mm		50.00mm x 2.00mm	
14.00mm x 2.60mm		25.50mm x 1.245mm		50.00mm x 5.00mm	
15.00mm x 1.20mm		25.40mm x 1.50mm		50.00mm x 8.00mm	RADIUS CORNERS
15.00mm x 1.50mm		25.40mm x 1.99mm		50.00mm x 10.00mm	
15.00mm x 5.00mm		25.40mm x 2.00mm		55.20mm x 35.20mm	RADIUS CORNERS
16.00mm x 1.20mm		25.40mm x 2.01mm		56.00mm x 5.00mm	
16.00mm x 3.00mm		25.40mm x 2.02mm		70.00mm x 3.00mm	
16.50mm x 16.00mm		25.40mm x 2.20mm		75.00mm x 2.00mm	
18.40mm x 3.20mm		25.40mm x 2.22mm		75.00mm x 9.50mm	
18.60mm x 3.65mm		25.40mm x 2.50mm			
18.70mm x 3.40mm		25.40mm x 2.52mm			
19.00mm x 5.00mm		25.40mm x 3.00mm			
19.00mm x 13.00mm	(1mm rad. corner )	25.40mm x 4.00mm			
		25.40mm x 4.76mm			
		25.40mm x 6.35mm			
		26.40mm x 8.00mm			
		28.10mm x 20.20mm			
		30.00mm x 2.00mm			

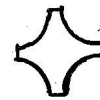


**SPECIAL PUNCHES**

20.00mm DIAMETER KNOCK OUT UP 2 TAB  
 20.00mm DIAMETER KNOCK OUT PUNCH ( ELECTRICAL )  
 25.00mm DIAMETER KNOCK OUT PUNCH ( ELECTRICAL )  
 40.00mm DIAMETER KNOCK OUT PUNCH (ELECTRICAL )



25.00mm RADIUS - 4 CORNER ROUND  
 15.00mm RADIUS - 4 CORNER ROUND  
 10.00mm RADIUS - 4 CORNER ROUND  
 8.00mm RADIUS - 4 CORNER ROUND  
 5.00mm RADIUS - 4 CORNER ROUND  
 3.00mm RADIUS - 4 CORNER ROUND



R232 SOCKET PUNCH 22 X 11.4 X 3.5 RADIUS X .3 CLEARANCE  
 65mm x 15mm x 5mm OPENING LOUVRE PUNCH  
 10mm x 2mm BRIDGE LANCING TOOL



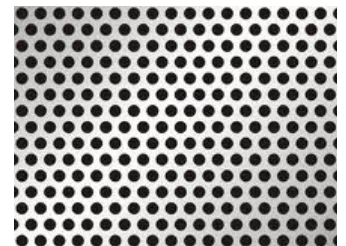
8mm x 12mm PARALLELOGRAM  
 13mm x 13mm -135 / 45 PARALLELOGRAM  
 35mm x 35mm -100/ 80 PARALLELOGRAM

**CLUSTER TOOLING**

6 Hole - .805mm Diam x 1.874 x 1.275mm  
 6 Hole - 2.00mm Diam x 3.125 x 5.5mm centres-  
 20 Hole - 2.06mm Diam x 3.1mm centres  
 8 Hole - 2.30mm Diam x 7.6mm centres – 4 hits in group = 33.22% o/a  
 6 Hole - 2.41mm Diam x 3.81 or 7.62mm centres - STAGGERS SQUARE CLUSTER PUNCH  
 8 Hole - 2.65mm Diam 40 % open area  
 30 Hole - 2.80mm Diam x 8.43mm centres (after 4 Hits ) – 40% o/a  
 12 Hole - 3.00mm Diam 40 % open area after 4 hits  
 8 Hole - 3.15mm Diam x 4.23mm centres after 1 Hit 50% open area  
 12 Hole – 3.175mm Diam 40 % open area after 4 hits  
 8 Hole - 3.25mm Diam x 40 % open area  
 20 Hole - 3.50mm Diam 40% o/a after 4 hits 10.54 x 9.13 & various formats % o/a  
 20.Hole - 3.80mm Diam 40 % o/a after 4 hits & various formats for other % o/a  
 8 Hole - 4.0mm Diam x 40% o/a after 1 Hit Stagger 60 degree  
 8 Hole - 4.20mm Diam x 40% open area  
 8 Hole - 4.25mm Diam x 40% open area  
 2 Hole - 4.366mm Diam x 24mm centres +.4 clearance  
 8 Hole - 4.50mm Diam x 6.75mm centres staggered - 40 % o/a CLUSTER PUNCH  
 12 Hole - 4.76mm Diam x 6.35mm after 4 hits - 1mm thick only  
 8 Hole - 5.00mm Diam x 40% open area  
 15 Hole - 5.00mm Diam x 12.0mm centres (+.2/.3) CLUSTER PUNCH  
 8 Hole - 5.50mm Diam x 8.28mm centres staggered - 40% o/a CLUSTER PUNCH  
 9 Hole - 6.35mm Diam x 9.55mm centres- 45 DEG STAGGER  
 10 Hole - 6.35mm Diam x 12.70mm Centres - staggered 60 degree 1mm & 1.5mm centres  
 12 Hole - 6.35mm Diam x 12.0mm centres (25.39%) CLUSTER PUNCH

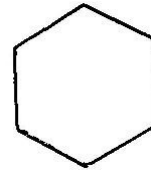
CLUSTER PUNCH

STAGGERED CLUSTER PUNCH

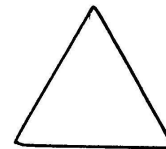


**SPECIAL PUNCHES**

6.00mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 7.00mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 7.60mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 8.00mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 9.70mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 9.75mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 9.80mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 10.90mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 12.70mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 14.00mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 15.88mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 16.00mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 18.00mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 25.40mm AF HEXAGONAL PUNCH ( 6 SIDED )  
 35.00mm AF HEXAGONAL PUNCH ( 6 SIDED )

**EQUILATERAL TRIANGULAR PUNCH**

3.00mm side length 4 gang  
 3.50mm side length 4 gang 4.00mm centres  
 4.00mm side length 6 gang (2 Up & 2 Down) : 4.75 Pitch  
 4.19mm side length 6 gang (3 Up & 3 Down) : 4.7 Pitch  
 4.35mm side length 4 gang (2 Up & 2 Down) : 5.10 Pitch  
 4.80mm side length single hit  
 5.10mm side length single hit



16mm UP-DOWN FORM-TOOL (cheese grater)  
 15mm x 2.0mm OBLONG PRE- PUNCH



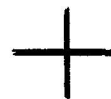
4mm UP- DOWN FORM-TOOL (cheese grater)  
 No pre-punch .9mm s/s 240 machine only



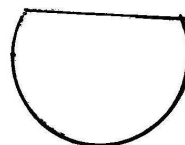
4mm UP ONLY (pre – punch) FORM TOOL ONE WAY



CENTRE PUNCHING TOOL ( BELOW AND ABOVE )  
 CHEESE GRATER FORM TOOL – MINIMUM 10.0mm CENTRES



D SHAPE 9.60mm diam 8.8mm TO FLAT  
 D SHAPE 9.60mm diam 9.27mm TO FLAT  
 D SHAPE 13.0mm diam 12.0mm TO FLAT  
 D SHAPE 15.85mm diam 14.3mm TO FLAT  
 D SHAPE 19.4mm diam 18.2mm TO FLAT  
 D SHAPE 32.3mm diam 27.5mm TO FLAT  
 D SHAPE 33.3mm diam 27.4mm TO FLAT



INDENT TOOL ( VITASOY )

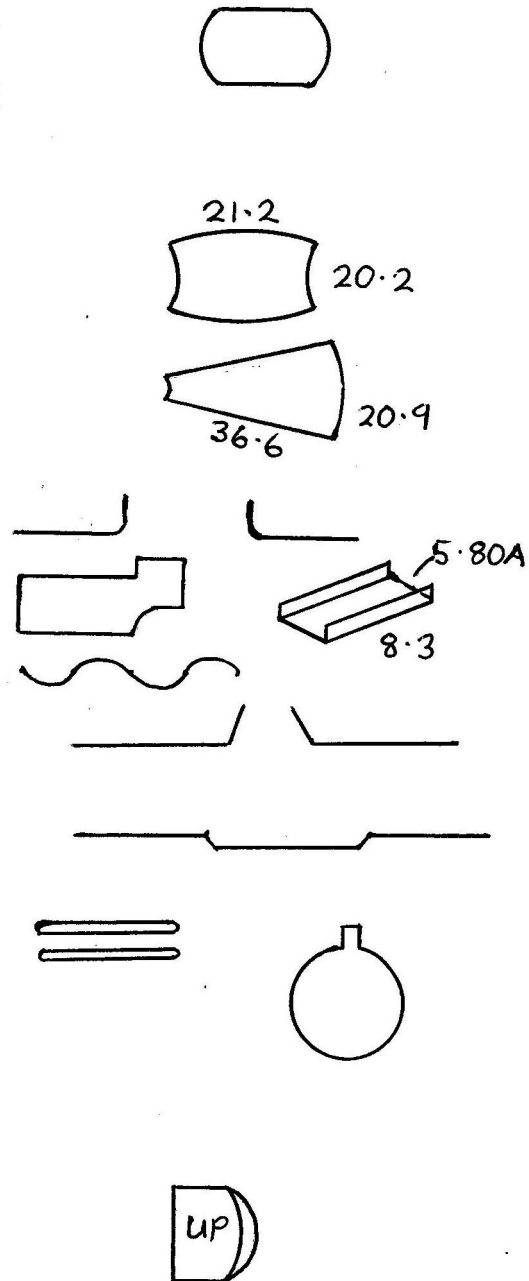




**SPECIAL PUNCHES**

CONVEYOR AXLE 4.6mm diam x 3.2mm AF  
 CONVEYOR AXLE 9.5mm diam x 8.0mm AF  
 CONVEYOR AXLE 11mm diam x 9.0mm AF  
 CONVEYOR AXLE 15.9mm diam x 14mm AF  
 CONVEYOR AXLE 16mm diam x 12mm AF  
 CONVEYOR AXLE 16mm diam x 14mm AF  
 CONVEYOR AXLE 19.1mm diam x 16.6mm AF  
 CONVEYOR AXLE 19.5mm diam x 17mm AF  
 CONVEYOR AXLE 20mm diam x 16mm AF  
 CONVEYOR AXLE 34.5mm diam x 29mm AF

FANCY SHAPE 21.2mm x 20.25mm



PIE SHAPE 40mm radius

FLANGED HOLE soft material 16.13mm diam bore  
 FLANGED HOLE soft material 14.26mm diam bore  
 DOUBLE LIP TOOL – PRE PUNCH 8 X 1.8mm  
 SQUARE ON RECTANGLE  
 RACKING BRACKET FANCY SHAPE 1,2,3 AND 4  
 RIPPLE SHAPE

ANTI - SLIP RAISED HOLE – pre punch refer Andy's  
 ANTI - SLIP RAISED HOLE – pre punch refer ARROW

24/08/15

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ROUND COINING DOWN – 23mm x 17mm 3.5mm deep  
x .24mm clearance

ROUND COINING or EMBOSSING UP 16MM X 10MM

RECTANGLE COINING/EMBOSS UP 13 X 16

DOUBLE RIB UP 19.5 X 4.5 EMBOSS

KEYED HOLE 16-25 DIAM 19.7 OA KEY

KEYED HOLE 22-50 DIAM 24.3 OA KEY

10.04mm SINGLE PUNCH TRIANGLE

11.22mm SINGLE PUNCH TRIANGLE – RADIUS CORNERS

17.50mm x 8.75mm HIGH ISOSCELES TRIANGLE

35.35mm X 17.68mm HIGH ISOSCELES TRIANGLE – 90 DEGREES

16mm x 16mm LIPPED SCREEN TOOL 5/8"

12.7mm x 12.7mm LIPPED SCREEN TOOL 1/2"

11mm x 11mm LIPPED SCREEN TOOL 7/16"

17.46mm x 17.46mm LIPPED SCREEN TOOL 11/16"