



Punch sizes

ROUND 3-POINT HEAVY-DUTY INDUSTRIAL PUNCH/DIE SETS

<i>Reference</i>	<i>Diameter mm</i>	<i>Suitable tie-bolt</i>	<i>Max. thickness of mild steel</i>	<i>Max. thickness of stainless steel</i>
100-010	12.7	230-010 or 230-140	2.0	1.0
100-020	14.0	230-010 or 230-140	2.0	1.0
100-025	15.2	230-010 or 230-140	2.0	1.0
100-030	16.0	230-010 or 230-140	2.0	1.0
100-040	18.0	230-010 or 230-140	2.0	1.0
100-045	18.6	230-010 or 230-140	2.0	1.0
100-050	19.0	230-010 or 230-140	2.0	1.0
100-060	20.0	230-010 or 230-140	2.0	1.0
100-070	20.5	230-010 or 230-140	2.0	1.0
100-080	22.0	230-010 or 230-140	2.0	1.0
100-090	22.5	230-010 or 230-140	2.0	1.0
100-100	23.0	230-010 or 230-140	2.0	1.0
100-110	25.0	230-010 or 230-140	2.0	1.0
100-120	26.0	230-010 or 230-140	2.0	1.0
100-130	27.0	230-020	3.0	1.5
100-141	28.3	230-010 or 230-140	2.0	1.0
100-140	28.3	230-020	3.0	1.5
100-150	30.5	230-020	3.0	1.5
100-160	31.0	230-020	3.0	1.5
100-170	32.7	230-020	3.0	1.5
100-180	34.2	230-020	3.0	1.5
100-190	37.0	230-020	3.0	1.5
100-200	38.0	230-020	3.0	1.5
100-210	39.0	230-020	3.0	1.5
100-220	40.0	230-020	3.0	1.5
100-230	41.2	230-020	3.0	1.5
100-240	42.5	230-020	3.0	1.5
100-250	45.0	230-020	3.0	1.5
100-260	47.0	230-020	3.0	1.5
100-270	48.7	230-020	3.0	1.5
100-280	50.0	230-020	3.0	1.5
100-290	51.4	230-020	3.0	1.5
100-300	52.5	230-020	3.0	1.5
100-310	54.0	230-020	3.0	1.5
100-320	55.0	230-020	3.0	1.5
100-330	57.0	230-020	3.0	1.5
100-340	60.5	230-020	3.0	1.5
100-350	63.5	230-020	3.0	1.5
100-360	64.5	230-020	3.0	1.5
100-370	67.0	230-020	3.0	1.5
100-380	70.2	230-020	3.0	1.5
100-390	76.2	230-020	3.0	1.5
100-400	80.0	230-020	3.0	1.5
100-410	82.0	230-020	3.0	1.5

ROUND 3-POINT HEAVY-DUTY INDUSTRIAL PUNCH/DIE SETS

Reference	Diameter mm	Suitable tie-bolt	Max. thickness of mild steel	Max. thickness of stainless steel
100-420	89.0	230-020	3.0	1.5
100-430	92.0	230-020	3.0	1.5
100-440	95.2	230-020	3.0	1.5
100-450	100.5	230-020	3.0	1.5
100-460	102.5	230-020	3.0	1.5
100-470	110.5	230-020	3.0	1.5
100-480	114.0	230-020	3.0	1.5
100-490	120.0	230-020	3.0	1.5
100-500	142.8	230-020	3.0	1.5

Non standard sizes can be made to order

ROUND 3-POINT PUNCHES IN BOXED SETS

Reference	Contents
100-001	12.7mm, 15.2mm, 18.6mm, 20.5mm, 22.5mm, 28.3mm, 30.5mm, 37.0mm, 47.0mm, 54.0mm, 60.5mm, 9.5mm bearing bolt (230-030), 19mm bearing bolt (230-040)
100-002	15.2mm, 18.6mm, 20.5mm, 22.5mm, 28.3mm, 2 – 9.5mm bearing bolts (230-030), double ended drill (130-100)

'BULLDOG' PUNCH & DIE SETS FOR STAINLESS STEEL

Reference	Diameter mm	Suitable tie-bolt	Max. thickness of mild steel	Max. thickness of stainless steel
150-012	12.7	230-010 or 230-	3.0	3.0
150-010	15.2	230-010 or 230-	3.0	3.0
150-016	16.0	230-010 or 230-	3.0	3.0
150-015	18.6	230-010 or 230-	3.0	3.0
150-019	19.0	230-320	4.0	3.5
150-200	20.0	230-320	4.0	3.5
150-020	20.4	230-320	4.0	3.5
150-090	22.5	230-320	4.0	3.5
150-025	25.0	230-320	4.0	3.5
150-030	28.3	230-020	4.0	3.5
150-305	30.5	230-020	4.0	3.5
150-327	32.7	230-020	4.0	3.5
150-037	37.0	230-020	4.0	3.5
150-040	40.0	230-020	4.0	3.5
150-047	47.0	230-020	4.0	3.5
150-054	54.0	230-020	4.0	3.5
150-605	60.5	230-020	4.0	3.5

SQUARE 4-POINT PUNCH/DIE SETS (Price includes tie-bolt & nut)

<i>Reference</i>	<i>Description mm</i>	<i>Suitable tie-bolt</i>	<i>Max. thickness of mild steel</i>	<i>Max. thickness of stainless steel</i>
110-010	12.7 x 12.7	230-145	2.0	1.0
110-020	15.8 x 15.8	230-145	2.0	1.0
110-030	19.0 x 19.0	230-150	2.0	1.0
110-040	22.2 x 22.2	230-150	2.0	1.0
110-050	25.0 x 25.0	230-150	2.0	1.0
110-055	45.0 x 45.0	230-160	2.5	1.5
110-060	46.0 x 46.0	230-160	2.5	1.5
110-070	50.8 x 50.8	230-160	2.5	1.5
110-080	68.0 x 68.0	230-160	2.5	1.5
110-090	92.0 x 92.0	230-160	2.5	1.5
110-100	104.8 x 104.8	230-165	2.5	1.5
110-110	138.0 x 138.0	230-165	2.5	1.5

RECTANGULAR 4-POINT PUNCH/DIE SETS (Price includes tie-bolt & nut)

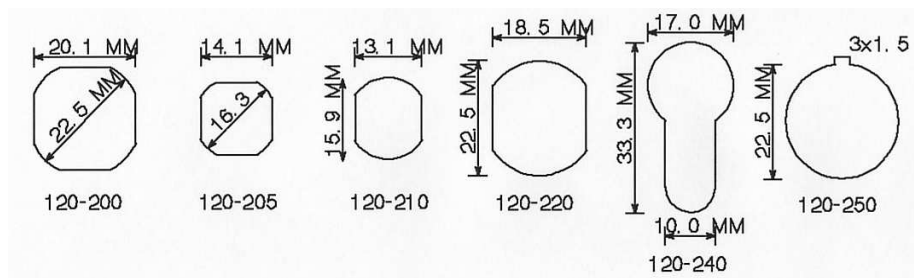
<i>Reference</i>	<i>Description mm</i>	<i>Suitable tie-bolt</i>	<i>Max. thickness of mild steel</i>	<i>Max. thickness of stainless steel</i>
120-010	17.0 x 19.0	230-150	2.0	1.0
120-020	19.7 x 27.2	230-145	2.0	1.0
120-030	21.8 x 25.8	230-150	2.0	1.0
120-040	22.0 x 30.0	230-150	2.0	1.0
120-050	22.0 x 40.0	230-150	2.0	1.0
120-060	22.0 x 42.0	230-150	2.0	1.0
120-065	22.2 x 45.0	230-150	2.0	1.0
120-080	22.6 x 25.4	230-150	2.0	1.0
120-085	29.0 x 71.0	230-160	2.0	1.0
120-100	35.0 x 52.0	230-160	2.5	1.5
120-110	35.0 x 65.0	230-160	2.5	1.5
120-120	35.0 x 85.5	230-160	2.5	1.5
120-130	35.0 x 112.0	230-160	2.5	1.5
120-150	46.0 x 92.0	230-160	3.0	1.5
120-155	52.0 x 90.0	230-160	2.0	1.0
120-160	68.0 x 138.0	230-165	3.0	1.5

TIE-BOLTS FOR SQUARE AND RECTANGULAR PUNCHES

<i>Reference</i>	<i>Description</i>	<i>Dia. of pilot</i>
230-145	9.5 dia., 7mm across flats, 145mm long	11.0
230-150	13mm dia., 9mm across flats, 145mm long	15.0
230-160	19mm dia., 14mm across flats, 190mm long	20.0
230-165	28.3mm dia., 22mm across flats, 173mm long	30.0

SPECIAL SHAPE PUNCH/DIE SETS (Price includes tie-bolt & nut)

Reference	Description mm	Suitable tie-bolt	Max. thickness of mild steel	Max. thickness of stainless steel
120-200	20.1mm square x 22.5mm diameter (Emka/Dzus)	230-150	2.0	1.0
120-205	14.1mm square x 16.3mm diameter (Emka)	230-145	2.0	1.0
120-210	15.9mm diameter x 13.1mm across flats		2.0	1.0
120-220	22.5mm diameter x 18.5mm across flats		2.0	1.0
120-240	17.0mm diameter x 33.3mm long (Keyhole)		2.0	1.0
120-250	22.5mm diameter with 3mm locating notch		2.0	1.0



Special sizes and shapes can be made to order