Technical Data

Self-Tapping Screws

Self Tapping Screws
Gimlet Point
Gimlet point self-tapping screws have various references depending on the standard.
BS 4174 referred to as **Type AB**
DIN 7970 referred to as **Type B**
ISO 1478 referred to as **Type C**

Self Tapping Screws
Blunt Point
Blunt point self-tapping screws have various references depending on the standard.
BS 4174 referred to as **Type B**
DIN 7970 referred to as **Type BZ**
ISO 1478 referred to as **Type F**

* Max countersunk head diameters are theoretical diameters of head to sharp corners and are the diameter to which holes should be countersunk to enable the screwheads to fit flush with the surface.

Manufacturing Standards for **Head Dimensions**

HEAD DIMENSIONS BS4174 STANDARD

GAUGE	METRIC REF	C/R PAN		SLOTTED PAN				C/R FLANGE		C/R CSK (80°)		SLOTTED CSK (80°)				C/R RSD CSK (80°)		SLOTTED RSD CSK (80°)				HEX	
		BS4174		BS4174				BS4174		BS4174		BS4174				BS4174		BS4174				BS4174	
		DIA MAX	DEPTH MAX	DIA MAX	DEPTH MAX	SLOT WIDTH MAX	SLOT DEPTH NOM	DIA MAX	DEPTH MAX	*DIA MAX	DEPTH REF	*DIA MAX	DEPTH REF	SLOT WIDTH MAX	SLOT DEPTH NOM	*DIA MAX	DEPTH REF	*DIA MAX	DEPTH REF	SLOT WIDTH MAX	SLOT DEPTH NOM	A/F MAX	DEPTH MAX
2	2.2	4.24	1.57	4.24	1.35	0.79	0.68	-	-	4.37	1.30	4.37	1.30	0.79	0.48	4.37	1.30	4.37	1.30	0.79	1.04	-	-
4	2.9	5.56	2.03	5.56	1.73	0.99	0.89	6.53	1.60	5.71	1.70	5.71	1.70	0.99	0.63	5.71	1.70	5.71	1.70	0.99	1.37	4.75	2.03
6	3.5	6.86	2.46	6.86	2.08	1.22	1.12	8.15	1.88	7.09	2.11	7.09	2.11	1.22	0.79	7.09	2.11	7.09	2.11	1.22	1.70	6.35	2.79
7	3.9	-	-	-	-	-	-	8.90	2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	4.2	8.18	2.92	8.18	2.44	1.37	1.32	9.75	2.36	8.43	2.54	8.43	2.54	1.37	0.94	8.43	2.54	8.43	2.54	1.37	2.03	6.35	2.92
10	4.8	9.47	3.38	9.47	2.79	1.52	1.55	11.38	2.90	9.78	2.95	9.78	2.95	1.52	1.12	9.78	2.95	9.78	2.95	1.52	2.39	7.92	3.05
12	5.5	10.80	3.84	10.80	3.18	1.70	1.75	13.00	3.15	11.13	3.35	11.13	3.35	1.70	1.27	11.13	3.35	11.13	3.35	1.70	2.72	7.92	3.94
14	6.3	12.50	4.44	12.50	3.66	1.90	2.01	14.55	3.68	12.88	3.89	12.88	3.89	1.90	1.47	12.88	3.89	12.88	3.89	1.90	3.15	9.53	4.83

Tolerances to BS 4174

HEAD DIMENSIONS DIN STANDARDS

GAUGE	METRIC REF	C/R PAN		SLOTTED PAN				C/R CSK (80°)		SLOTTED CSK (80°)				C/R RSD CSK (80°)		SLOTTED RSD CSK (80°)				HEX	
		DIN 7981		DIN 7971				DIN 7982		DIN 7972				DIN 7983		DIN 7973				DIN 7976	
		DIA MAX	DEPTH MAX	DIA MAX	DEPTH MAX	SLOT WIDTH NOM	SLOT DEPTH MAX	*DIA MAX	DEPTH REF	*DIA MAX	DEPTH REF	SLOT WIDTH NOM	SLOT DEPTH MAX	*DIA MAX	DEPTH REF	*DIA MAX	DEPTH REF	SLOT WIDTH NOM	SLOT DEPTH MAX	A/F	DEPTH NOM
2	2.2	4.2	1.8	4.2	1.35	0.6	0.8	4.3	1.3	4.3	1.3	0.6	0.6	4.3	1.3	4.3	1.3	0.6	1.15	3.2	1.3
4	2.9	5.6	2.2	5.6	1.75	0.8	1.0	5.5	1.7	5.5	1.7	0.8	0.75	5.5	1.7	5.5	1.7	0.8	1.5	5.0	1.5
6	3.5	6.9	2.6	6.9	2.1	1.0	1.25	6.8	2.1	6.8	2.1	1.0	0.95	6.8	2.1	6.8	2.1	1.0	1.9	5.5	2.3
7	3.9	7.5	2.8	7.5	2.25	1.0	1.4	7.5	2.3	7.5	2.3	1.0	1.05	7.5	2.3	7.5	2.3	1.0	2.05	7.0	2.3
8	4.2	8.2	3.05	8.2	2.45	1.2	1.5	8.1	2.5	8.1	2.5	1.2	1.15	8.1	2.5	8.1	2.5	1.2	2.25	7.0	2.8
10	4.8	9.5	3.55	9.5	2.8	1.2	1.7	9.5	3.0	9.5	3.0	1.2	1.35	9.5	3.0	9.5	3.0	1.2	2.6	8.0	3.0
12	5.5	10.8	3.95	10.8	3.2	1.6	1.95	10.8	3.4	10.8	3.4	1.6	1.5	10.8	3.4	10.8	3.4	1.6	2.95	8.0	4.0
14	6.3	12.5	4.55	12.5	3.65	1.6	2.2	12.4	3.8	12.4	3.8	1.6	1.75	12.4	3.8	12.4	3.8	1.6	3.45	10.0	4.8

Tolerances to DIN 267

HEAD DIMENSIONS ISO STANDARDS

GAUGE	METRIC REF	C/R PAN		SLOTTED PAN				C/R CSK (90°)				SLOTTED CSK (90°)				C/R RSD CSK (90°)		SLOTTED RSD CSK (90°)				HEX	
		ISO 7049		ISO 1481				ISO 7050				ISO 1482				ISO 7051		ISO 1483				ISO 1479	
		DIA MAX	DEPTH MAX	DIA MAX	DEPTH MAX	SLOT WIDTH NOM	SLOT DEPTH MIN	*DIA MAX	DIA ACTUAL MAX	DIA ACTUAL MIN	DEPTH REF	*DIA MAX	DEPTH MAX	SLOT WIDTH NOM	SLOT DEPTH MAX	*DIA MAX	DEPTH MAX	*DIA MAX	DEPTH MAX	SLOT WIDTH NOM	SLOT DEPTH MAX	A/F	DEPTH MAX
2	2.2	4.0	1.6	4.0	1.3	0.5	0.5	4.4	3.8	3.5	1.1	4.4	1.1	0.5	0.6	4.4	1.1	4.4	1.1	0.5	1.0	3.2	1.6
4	2.9	5.6	2.4	5.6	1.8	0.8	0.7	6.3	5.5	5.2	1.7	6.3	1.7	0.8	0.85	6.3	1.7	6.3	1.7	0.8	1.45	5.0	2.3
6	3.5	7.0	2.6	7.0	2.1	1.0	0.8	8.2	7.3	6.9	2.35	8.2	2.35	1.0	1.2	8.2	2.35	8.2	2.35	1.0	1.7	5.5	2.6
7	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	4.2	8.0	3.1	8.0	2.4	1.2	1.0	9.4	8.4	8.0	2.6	9.4	2.6	1.2	1.3	9.4	2.6	9.4	2.6	1.2	1.9	7.0	3.0
10	4.8	9.5	3.7	9.5	3.0	1.2	1.2	10.4	9.3	8.9	2.8	10.4	2.8	1.2	1.4	10.4	2.8	10.4	2.8	1.2	2.4	8.0	3.8
12	5.5	11.0	4.0	11.0	3.2	1.6	1.3	11.5	10.3	9.9	3.0	11.5	3.0	1.6	1.5	11.5	3.0	11.5	3.0	1.6	2.6	8.0	4.1

Tolerances to ISO 4759/1

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