Technical Data

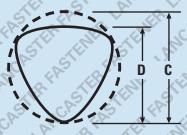
Tap-Fix® Screws

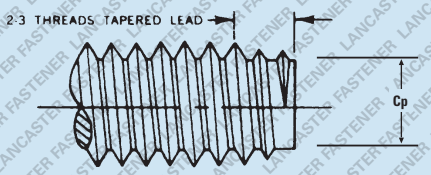
METRIC Series Thread Rolling Screws for Metal Applications

METRIC Series
Thread to DIN 7500
Heads to ISO

Head Dimensions, Thread Dimensions & Length Tolerances

SCREW SIZE DIA & PITCH	ISO HEAD DIMENSIONS											
	PAN			PAN			CSK			CSK		
	FORM CE ISO 7045			FORM PE ISO 14583			FORM ME ISO 7046-2			FORM ME ISO 14581		
	DIA MAX	DEPTH MAX	CR (Z) RECESS SIZE	DIA MAX	DEPTH MAX	T-DRIVE® RECESS SIZE	DIA MAX	DEPTH MAX	CR (Z) RECESS SIZE	DIA MAX	DEPTH REF	T-DRIVE® RECESS SIZE
M2 X .4	4	1.6	0	4	1.6	T6	3.8	1.2	0	3.8	1.2	T6
M2.5 X .45	5	2.1	1	5	2.1	T8	4.7	1.5	1	4.7	1.5	T8
M3 X .5	5.6	2.4	1	5.6	2.4	T10	5.5	1.65	1	5.5	1.65	T10
M3.5 X .6	7	2.6	2	7	2.6	T15	7.3	2.35	2	7.3	2.35	T15
M4 X .7	8	3.1	2	8	3.1	T20	8.4	2.7	2	8.4	2.7	T20
M5 X .8	9.5	3.7	2	9.5	3.7	T25	9.3	2.7	2	9.3	2.7	T25
M6 X 1	12	4.6	3	12	4.6	T30	11.3	3.3	3	11.3	3.3	T30
M8 X 1.25	16	6	4	16	6	T45	15.8	4.65	4	15.8	4.65	T45
M10 X 1.5	20	7.5	4	20	7.5	T50	18.3	5	4	18.3	5	T50





THREAD & STRENGTH STANDARDS						TORSIONAL STRENGTH MIN Nm
SCREW SIZE DIA & PITCH	BODY DIAMETER C MAX	BODY DIAMETER C MIN	BODY DIAMETER D MAX	BODY DIAMETER D MIN	POINT DIA. Cp (Max)	
M2 x .4	2.06	1.98	1.98	1.90	1.67	0.5
M2.5 x .45	2.57	2.48	2.48	2.39	2.13	1.0
M3 x .5	3.07	2.98	2.97	2.88	2.58	1.5
M3.5 x .6	3.58	3.48	3.46	3.36	3.00	2.3
M4 x .7	4.08	3.98	3.94	3.84	3.40	3.4
M5 x .8	5.09	4.98	4.93	4.82	4.31	7.1
M6 x 1	6.10	5.97	5.90	5.77	5.13	12
M8 x 1.25	8.13	7.97	7.88	7.72	6.91	29
M10 x 1.5	10.15	9.97	9.85	9.67	8.69	59

SUGGESTED PILOT HOLE SIZES										
MATERIAL	S	A	S	A	S	A	S	A	S	A
THICKNESS	.5 - 2		1.5 - 3.5		3 - 6.5		6 - 8		8 - 12	
DIA & PITCH										
M2 X .4	1.75	1.7	1.8	1.75	-	-	-	-	-	-
M2.5 X .45	2.25	2.2	2.3	2.25	2.35	2.3	-	-	-	-
M3 X .5	2.7	2.6	2.75	2.7	2.8	2.75	-	-	-	-
M3.5 X .6	3.1	3.1	3.2	3.1	3.2	3.2	3.25	3.2	3.3	3.25
M4 X .7	3.6	-	3.7	3.6	3.75	3.7	3.75	3.7	3.8	3.75
M5 X .8	-	-	4.5	4.5	4.6	4.5	4.7	4.6	4.7	4.7
M6 X 1	-	-	5.4	5.4	5.5	5.4	5.6	5.5	5.7	5.6
M8 X 1.25	-	-	7.3	7.3	7.4	7.3	7.5	7.4	7.6	7.5
M10 X 1.5	-	-	-	-	9.25	9.2	9.3	9.25	9.4	9.3

LENGTH TOLERANCES		
SCREW SIZE	NOM LENGTH MM	TOL MM
M2 - M10	5mm	+/- 0.25
	6mm	+/- 0.25
	8mm	+/- 0.3
	10mm	+/- 0.3
	12mm	+/- 0.35
	16mm	+/- 0.35
	20mm	+/- 0.4
	25mm	+/- 0.4
	30mm	+/- 0.4
	40mm	+/- 0.5

Dimensions in Millimetres

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E. & O. E.
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