

70	60	50	40	30	20	10
1	2	3	4	5	6	
M M DIAMETER				M M PITCH		
FIRST CHOICE	SECOND CHOICE	THIRD CHOICE	INCH DIA.	COARSE	FINE	
2 .079			.40	.25		
45			52	50		

INSTRUCTIONS METRIC SCREW CHEK'R

The METRIC SCREW CHEK'R identifies ISO metric machine screws and other metric threads corresponding to ISO standards. METRIC CHEK'R #1 identifies sizes from 2 mm through 7 mm. METRIC CHEK'R #2 identifies sizes from 8 mm through 14 mm.

When checking pitch (threads per inch) of machine screws or bolts per 2. below, be sure threads are clean, straight and free of rust. "mm Diameter" holes (1. below) are slightly oversize for ease of checking and should not be used to gage drills or drill rod.

— BE SURE TO CHECK "mm DIAMETER" FIRST —

1. mm DIAMETER
and
ISO CHOICE

Smallest un-threaded hole through which screw passes freely tells size in millimeters (large numbers beside holes). Column in which the hole appears tells whether the size is a first, second or third choice in the International Standards Organization (ISO) preference rating. If there is a great amount of "slop" between the hole and the fastener, you may have an inch standard or metric screw not to ISO standards. Caution is advised.

Note: Screws conforming to the inch standards can be identified by the Inch Screw Chek'r available from Ruelle's, P.O. Box 421, Drayton Plains, Michigan 48020.

2. mm PITCH
(Do not force
screw thru
threaded
holes)

These threaded holes tell the pitch (roughly equivalent to threads-per-inch under the inch system) for the screw. Screws in conformance with ISO metric standards will screw completely through the plate in one of the threaded holes. (Use light hand pressure only and read large number beside hole). Pitches not conforming to ISO metric standards will be rejected by all threaded holes in the row.

3. CLEARANCE
DRILL SIZE

Small numbers under the "mm DIAMETER" holes tell the drill size (wire, letter or fractional inch) required for proper clearance hole.

4. DIAMETER
(inches)

These figures tell basic diameter of the metric screw in thousands of an inch.

5. TAP DRILL SIZE

Small numbers under the threaded "mm Pitch" holes tell drill size (wire, letter or fractional inch) for proper tap holes based on 65% to 75% of full thread. See complete drill chart on other side.

6. METRIC TAP
SERIES

Descriptive words at the top of each column identify the pitch as being in the Coarse, Medium or Fine metric series.

7. LENGTH

Measure length of screw across the top of Chek'r in millimeters.

— See Screw Type Illustrations and Drill Chart on Other Side —

DECIMAL EQUIVALENTS
of Wire, Letter and Fractional Size Drills

DRILL SIZE	DECIMAL						
80	.0135	42	.0935	13/64	.2031	X	.3970
79	.0145	3/32	.0938	6	.2040	Y	.4040
1/64	.0156	41	.0960	5	.2055	13/32	.4062
78	.0160	40	.0980	4	.2090	Z	.4130
77	.0180	39	.0995	3	.2130	7/32	.4219
76	.0200	38	.1015	7/32	.2188	7/16	.4375
75	.0210	37	.1040	2	.2210	25/32	.4531
74	.0225	36	.1065	1	.2280	15/32	.4688
73	.0240	7/64	.1094	A	.2340	21/32	.4844
72	.0250	35	.1100	15/64	.2344	1/2	.5000
71	.0260	34	.1110	B	.2380	23/32	.5156
70	.0280	33	.1130	C	.2420	17/32	.5313
69	.0292	32	.1160	D	.2460	25/32	.5469
68	.0310	31	.1200	1/4	.2500	9/16	.5625
1/32	.0313	1/8	.1250	E	.2500	27/32	.5781
67	.0320	30	.1285	F	.2570	19/32	.5938
66	.0330	29	.1360	G	.2610	29/32	.6094
65	.0350	28	.1405	17/64	.2656	5/8	.6250
64	.0360	9/64	.1406	H	.2660	11/32	.6406
63	.0370	27	.1440	I	.2720	31/32	.6562
62	.0380	26	.1470	J	.2770	43/32	.6719
61	.0390	25	.1495	K	.2810	11/16	.6875
60	.0400	24	.1520	9/32	.2812	45/32	.7031
59	.0410	23	.1540	L	.2900	23/32	.7188
58	.0420	5/32	.1562	M	.2950	47/32	.7344
57	.0430	22	.1570	19/64	.2969	3/4	.7500
56	.0465	21	.1590	N	.3020	49/32	.7656
3/64	.0469	20	.1610	5/16	.3125	25/32	.7812
55	.0520	19	.1660	O	.3160	31/32	.7969
54	.0550	18	.1695	P	.3230	13/16	.8125
53	.0595	11/64	.1719	21/64	.3281	53/32	.8281
1/16	.0625	17	.1730	Q	.3320	37/32	.8438
52	.0635	16	.1770	R	.3390	55/32	.8594
51	.0670	15	.1800	11/32	.3438	7/8	.8750
50	.0700	14	.1820	S	.3480	57/32	.8906
49	.0730	13	.1850	T	.3580	29/32	.9062
48	.0760	3/16	.1875	23/64	.3594	33/32	.9219
5/64	.0781	12	.1890	U	.3680	15/16	.9375
47	.0785	11	.1910	3/8	.3750	61/32	.9531
46	.0810	10	.1935	V	.3770	21/32	.9688
45	.0820	9	.1960	W	.3860	43/32	.9844
44	.0860	8	.1990	25/64	.3906	1	1.0000
43	.0890	7	.2010				

COMMON SCREW TYPES

Slotted Head



Round Head



Flat Head



Pan Head



Oval Head



Truss Head

Phillips Recessed Head



Hexagon Head



Oval Head



Fillister Head



Pan Head

Also available with
Round, Flat or Truss Heads.



THREAD CUTTING SHANKS



TAPPING SCREWS

TYPE A— GIMLET POINT

Available with slotted, Phillips or
hexagon heads.

TYPE B— BLUNT POINT