



"WE KNOW THE DRILL"



HEAD-TO-HEAD DRILLING COMPARISON with top national brands



COBALT JOBBER DRILL BITS

35 PLUS HOURS
AND 2,500 HOLES LATER
THE CREAM RISES TO THE TOP...AGAIN



Brand	Country of Origin	Material	Point Configuration	Finish	Ave. Holes	Ave. Time
RMT	USA	M42	135° Split Point	Bronze Oxide	189	49.3 sec
Brand A	Brazil	M42	135° Split Point	Bronze Oxide	124	51.9 sec
Brand B	USA	M42	135° Split Point	Bronze Oxide	125	51.4 sec
Brand C	Korea	M35	130° Split Point	Titanium Nitride	3	45.1 sec
Brand D	Germany	M35	118° 4-Facet Split Pt	Bright	93	50.1 sec
Brand E	USA	M42	135° Split Point	Bronze Oxide	155	48.6 sec
Brand F	USA	M42	135° Split Point	Bronze Oxide	89	46.5 sec
Brand G	China	M35	135° Split Point	Bronze Oxide	138	50.6 sec
Brand H	Brazil	M42	135° Split Point	Bronze Oxide	69	55.1 sec

TEST SUBSTRATE: 4130 hot rolled flat stock-hardened 1/2-in plate. Heat treated to 28-32 HRC.

- Approx. 650 RPM (43 SFM) per Machinery's Hand Book recommendations.
- Drill press pulley weight adjusted for a chip load of .0005 - .001 per cutting lip.
- Used 8 and 5 lb. weights (spindle load equivalent of 82lbs).
- 1/4-in diameter drill bits were tested (a minimum of two per manufacturer).

RMT
ADVANTAGE

HSS JOBBER DRILL BITS

2,800 HOLES 10 HOURS OF DRILLING

MESS WITH THE BEST, FALL LIKE THE REST



Brand	Country of Origin	Material	Point Configuration	Finish	Ave. Holes	Ave. Time
RMT	USA	M2	135° Split Point	Bright	201	11.6 sec
Brand A	Brazil	M2	135° Split Point	Purple & Gold	103	12.3 sec
Brand B	Korea	M2	135° Split Point	Black Oxide	93	13 sec
Brand C	Germany	M2	130° Split Point	Bronze Oxide	112	14.3 sec
Brand D	USA	M2	135° Split Point	Black Oxide	121	12.3 sec
Brand E	USA	M2	135° Split Point	Black & Gold	36	12.6 sec
Brand F	Brazil	M2	135° Split Point	Black Oxide	43	12.9 sec

TEST SUBSTRATE: 1045 hot rolled flat stock-1/2-in plate.

- Approx. 1280 RPM (85 SFM) per Machinery's Hand Book recommendations.
- Drill press pulley weight adjusted for a chip load of .001 - .0015 per cutting lip.
- Used 8 and 5 lb. weights (spindle load equivalent of 82lbs).
- 1/4-in diameter drill bits were tested (a minimum of two per manufacturer).

RMT
ADVANTAGE

DRILL CHART DECIMAL EQUIVALENTS

DRILL SIZE	DEC.	DRILL SIZE	DEC.	DRILL SIZE	DEC.	DRILL SIZE	DEC.
0.1mm	.0039	41	.0960	15/64	.2344	33/64	.5156
0.2mm	.0079	40	.0980	6mm	.2362	17/32	.5313
0.3mm	.0118	2.5mm	.0984	B	.2380	13.5mm	.5315
80	.0135	39	.0995	C	.2420	35/64	.5469
79	.0145	38	.1015	D	.2460	14mm	.5512
1/64	.0156	37	.1040	1/4 & E	.2500	9/16	.5625
0.4mm	.0157	36	.1065	6.5mm	.2559	14.5mm	.5709
78	.0160	7/64	.1094	F	.2570	37/64	.5781
77	.0180	35	.1100	G	.2610	15mm	.5906
0.5mm	.0197	34	.1110	17/64	.2656	19/32	.5938
76	.0200	33	.1130	H	.2660	39/64	.6094
75	.0210	32	.1160	I	.2720	15.5mm	.6102
74	.0225	3mm	.1181	7mm	.2756	5/8	.6250
0.6mm	.0236	31	.1200	J	.2770	16mm	.6299
73	.0240	1/8	.1250	K	.2810	41/64	.6406
72	.0250	30	.1285	9/32	.2812	16.5mm	.6496
71	.0260	29	.1360	L	.2900	21/32	.6562
0.7mm	.0276	3.5mm	.1378	M	.2950	17mm	.6693
70	.0280	28	.1405	7.5mm	.2953	43/64	.6719
69	.0292	9/64	.1406	19/64	.2969	11/16	.6875
68	.0310	27	.1440	N	.3020	17.5mm	.6890
1/32	.0312	26	.1470	5/16	.3125	45/64	.7031
0.8mm	.0315	25	.1495	8mm	.3150	18mm	.7087
67	.0320	24	.1520	O	.3160	23/32	.7188
66	.0330	23	.1540	P	.3230	18.5mm	.7283
65	.0350	5/32	.1562	21/64	.3281	47/64	.7344
0.9mm	.0354	22	.1570	Q	.3320	19mm	.7480
64	.0360	4mm	.1575	8.5mm	.3346	3/4	.7500
63	.0370	21	.1590	R	.3390	49/64	.7656
62	.0380	20	.1610	11/32	.3438	19.5mm	.7677
61	.0390	19	.1660	S	.3480	25/32	.7812
1mm	.0394	18	.1695	9mm	.3543	20mm	.7874
60	.0400	11/64	.1719	T	.3580	51/64	.7969
59	.0410	17	.1730	23/64	.3594	20.5mm	.8071
58	.0420	16	.1770	U	.3680	13/16	.8125
57	.0430	4.5mm	.1772	9.5mm	.3740	21mm	.8268
56	.0465	15	.1800	3/8	.3750	53/64	.8281
3/64	.0469	14	.1820	V	.3770	27/32	.8438
55	.0520	13	.1850	W	.3860	21.5mm	.8465
54	.0550	3/16	.1875	25/64	.3906	55/64	.8594
1.5mm	.0591	12	.1890	10mm	.3937	22mm	.8661
53	.0595	11	.1910	X	.3970	7/8	.8750
1/16	.0625	10	.1935	Y	.4040	22.5mm	.8858
52	.0635	9	.1960	13/32	.4062	57/64	.8906
51	.0670	5mm	.1969	Z	.4130	23mm	.9055
50	.0700	8	.1990	10.5mm	.4134	29/32	.9062
49	.0730	7	.2010	27/64	.4219	59/64	.9219
48	.0760	13/64	.2031	11mm	.4331	23.5mm	.9252
5/64	.0781	6	.2040	7/16	.4375	15/16	.9375
47	.0785	5	.2055	11.5mm	.4528	24mm	.9449
2mm	.0787	4	.2090	29/64	.4531	61/64	.9531
46	.0810	3	.2130	15/32	.4688	24.5mm	.9646
45	.0820	5.5mm	.2165	12mm	.4724	31/32	.9688
44	.0860	7/32	.2188	31/64	.4844	25mm	.9843
43	.0890	2	.2210	12.5	.4921	63/64	.9844
42	.0935	1	.2280	1/2	.5000	1	1.000
3/32	.0938	A	.2340	13mm	.5118		

