

# Table of Contents

## Categorized Listing

<b>Cutting Tools</b>	<b>1</b>
Drill Bits	1
Jobber Length Fractional Bright	1
Jobber Length Letter Size Bright	2
Jobber Length Wire Gage Bright	3
Jobber Length Fractional Cobalt	5
Jobber Length Letter Cobalt	6
Jobber Length Wire Gage Cobalt	7
Jobber Length Metric Cobalt	9
Jobber Length Black & Gold	12
Jobber Length Metric Black Oxide	13
Jobber Length Metric Black Oxide	16
Silver & Deming 1/2" Round Shanks	17
Silver & Deming 1/2" Round Shanks	18
Silver & Deming 1/2" 3-Flat Shanks Black & Gold	19
Silver & Deming 1/2" 3-Flat Shanks Black & Gold	20
Taps	21
Metric Straight Flute Hand Taps - Bottom	21
Taps	22
Metric Straight Flute Hand Taps - Bottom	22
Metric Straight Flute Hand Taps - Plug	23
Metric Straight Flute Hand Taps - Plug	24
Metric Straight Flute Hand Taps - Taper	25
Metric Straight Flute Hand Taps - Taper	26
Straight Flute Hand Taps Fractional - Bottom	26
Straight Flute Hand Taps Fractional - Plug	27
Straight Flute Hand Taps Fractional - Taper	28
Straight Flute Hand Taps Machine Screw Bottom	29
Straight Flute Hand Taps Machine Screw Plug	30
Straight Flute Hand Taps Machine Screw Taper	31
Taper Pipe Taps	31
Dies	32
Hexagon Rethreading Dies	32

---

## Cutting Tools

### Drill Bits

#### Jobber Length Fractional Bright



Straight Shank – High Speed Steel  
118° Point – General Purpose

Jobber Length Drills Bright Finish has polished flutes which enhances chip ejection especially for aluminum and other non-ferrous materials.

ITEM	DEC	FLUTE	OAL
JL1/64	.0156	3/16	7/8
JL1/32	.0312	1/2	1 3/8
JL3/64	.0469	3/4	1 3/4
JL1/16	.0625	7/8	1 7/8
JL5/64	.0781	1	2
JL3/32	.0937	1 1/4	2 1/4
JL7/64	.1094	1 1/2	2 5/8
JL1/8	.1250	1 5/8	2 3/4
JL9/64	.1406	1 3/4	2 7/8
JL5/32	.1562	2	3 1/8
JL11/64	.1719	2 1/8	3 1/4
JL3/16	.1875	2 5/16	3 1/2
JL13/64	.2031	2 7/16	3 5/8
JL7/32	.2187	2 1/2	3 3/4
JL15/64	.2344	2 5/8	3 7/8
JL1/4	.2500	2 3/4	4
JL17/64	.2656	2 7/8	4 1/8
JL9/32	.2812	2 15/16	4 1/4
JL19/64	.2969	3 1/16	4 3/8
JL5/16	.3125	3 3/16	4 1/2
JL21/64	.3281	3 5/16	4 5/8
JL11/32	.3437	3 7/16	4 3/4
JL23/64	.3594	3 1/2	4 7/8
JL3/8	.3750	3 5/8	5
JL25/64	.3906	3 3/4	5 1/8
JL13/32	.4062	3 7/8	5 1/4
JL27/64	.4219	3 15/16	5 3/8
JL7/16	.4375	4 1/16	5 1/2
JL29/64	.4531	4 3/16	5 5/8
JL15/32	.4687	4 5/16	5 3/4
JL31/64	.4844	4 3/8	5 7/8
JL1/2	.5000	4 1/2	6

## Cutting Tools

### Jobber Length Letter Size Bright



Straight Shank – High Speed Steel  
118° Point – General Purpose

Jobber Length Drills Bright Finish has polished flutes which enhances chip ejection especially for aluminum and other non-ferrous materials.

ITEM	DEC	FLUTE	OAL
JLA	.2340	2 5/8	3 7/8
JLB	.2380	2 3/4	4
JLC	.2420	2 3/4	4
JLD	.2460	2 3/4	4
JLE	.2500	2 3/4	4
JLF	.2570	2 7/8	4 1/8
JLG	.2610	2 7/8	4 1/8
JLH	.2660	2 7/8	4 1/8
JLI	.2720	2 7/8	4 1/8
JLJ	.2770	2 7/8	4 1/8
JLK	.2810	2 15/16	4 1/4
JLL	.2900	2 15/16	4 1/4
JLM	.2950	3 1/16	4 3/8
JLN	.3020	3 1/16	4 3/8
JLO	.3160	3 3/16	4 1/2
JLP	.3230	3 5/16	4 5/8
JLQ	.3320	3 7/16	4 3/4
JLR	.3390	3 7/16	4 3/4
JLS	.3480	3 1/2	4 7/8
JLT	.3580	3 1/2	4 7/8
JLU	.3680	3 5/8	5
JLV	.3770	3 5/8	5
JLW	.3860	3 3/4	5 1/8
JLX	.3970	3 3/4	5 1/8
JLY	.4040	3 7/8	5 1/4
JLZ	.4130	3 7/8	5 1/4

## Jobber Length Wire Gage Bright



Straight Shank – High Speed Steel  
118° Point – General Purpose

Jobber Length Drills Bright Finish has polished flutes which enhances chip ejection especially for aluminum and other non-ferrous materials.

ITEM	DEC	FLUTE	OAL
JL80	.0135	1/8	3/4
JL79	.0145	1/8	3/4
JL78	.0160	3/16	7/8
JL77	.0180	3/16	7/8
JL76	.0200	3/16	7/8
JL75	.0210	1/4	1
JL74	.0225	1/4	1
JL73	.0240	5/16	1 1/8
JL72	.0250	5/16	1 1/8
JL71	.0260	3/8	1 1/4
JL70	.0280	3/8	1 1/4
JL69	.0292	1/2	1 3/8
JL68	.0310	1/2	1 3/8
JL67	.0320	1/2	1 3/8
JL66	.0330	1/2	1 3/8
JL65	.0350	5/8	1 1/2
JL64	.0360	5/8	1 1/2
JL63	.0370	5/8	1 1/2
JL62	.0380	5/8	1 1/2
JL61	.0390	11/16	1 5/8
JL60	.0400	11/16	1 5/8
JL59	.0410	11/16	1 5/8
JL58	.0420	11/16	1 5/8
JL57	.0430	3/4	1 3/4
JL56	.0465	3/4	1 3/4
JL55	.0520	7/8	1 7/8
JL54	.0550	7/8	1 7/8
JL53	.0595	7/8	1 7/8
JL52	.0635	7/8	1 7/8
JL51	.0670	1	2
JL50	.0700	1	2
JL49	.0730	1	2
JL48	.0760	1	2
JL47	.0785	1	2
JL46	.0810	1 1/8	2 1/8
JL45	.0820	1 1/8	2 1/8
JL44	.0860	1 1/8	2 1/8
JL43	.0890	1 1/4	2 1/4
JL42	.0935	1 1/4	2 1/4
JL41	.0960	1 3/8	2 3/8
JL40	.0980	1 3/8	2 3/8
JL39	.0995	1 3/8	2 3/8
JL38	.1015	1 7/16	2 1/2

## Cutting Tools

Jobber Length Wire Gage Bright			
ITEM	DEC	FLUTE	OAL
JL37	.1040	1 7/16	2 1/2
JL36	.1065	1 7/16	2 1/2
JL35	.1100	1 1/2	2 5/8
JL34	.1110	1 1/2	2 5/8
JL33	.1130	1 1/2	2 5/8
JL32	.1160	1 5/8	2 3/4
JL31	.1200	1 5/8	2 3/4
JL30	.1285	1 5/8	2 3/4
JL29	.1360	1 3/4	2 7/8
JL28	.1405	1 3/4	2 7/8
JL27	.1440	1 7/8	3
JL26	.1470	1 7/8	3
JL25	.1495	1 7/8	3
JL24	.1520	2	3 1/8
JL23	.1540	2	3 1/8
JL22	.1570	2	3 1/8
JL21	.1590	2 1/8	3 1/4
JL20	.1610	2 1/8	3 1/4
JL19	.1660	2 1/8	3 1/4
JL18	.1695	2 1/8	3 1/4
JL17	.1730	2 3/16	3 3/8
JL16	.1770	2 3/16	3 3/8
JL15	.1800	2 3/16	3 3/8
JL14	.1820	2 3/16	3 3/8
JL13	.1850	2 5/16	3 1/2
JL12	.1890	2 5/16	3 1/2
JL11	.1910	2 5/16	3 1/2
JL10	.1935	2 7/16	3 5/8
JL9	.1960	2 7/16	3 5/8
JL8	.1990	2 7/16	3 5/8
JL7	.2010	2 7/16	3 5/8
JL6	.2040	2 1/2	3 3/4
JL5	.2055	2 1/2	3 3/4
JL4	.2090	2 1/2	3 3/4
JL3	.2130	2 1/2	3 3/4
JL2	.2210	2 5/8	3 7/8
JL1	.2280	2 5/8	3 7/8

## Cutting Tools

### Jobber Length Fractional Cobalt

Cobalt steel offers increased hardness, toughness, wear resistance and heat resistance. Recommended for drilling tough, high tensile strength materials that generate cutting temperatures including high alloy steels, ferrous castings, titanium, inconel, stainless steel and other difficult to drill materials.



Straight Shank – Cobalt  
135° Split Point – Heavy Duty

ITEM	DEC	FLUTE	OAL
JL3/64-CO	.0469	3/4	1 3/4
JL1/16-CO	.0625	7/8	1 7/8
JL5/64-CO	.0781	1	2
JL3/32-CO	.0937	1 1/4	2 1/4
JL7/64-CO	.1094	1 1/2	2 5/8
JL1/8-CO	.1250	1 5/8	2 3/4
JL9/64-CO	.1406	1 3/4	2 7/8
JL5/32-CO	.1562	2	3 1/8
JL11/64-CO	.1719	2 1/8	3 1/4
JL3/16-CO	.1875	2 5/16	3 1/2
JL13/64-CO	.2031	2 7/16	3 5/8
JL7/32-CO	.2187	2 1/2	3 3/4
JL15/64-CO	.2344	2 5/8	3 7/8
JL1/4-CO	.2500	2 3/4	4
JL17/64-CO	.2656	2 7/8	4 1/8
JL9/32-CO	.2812	2 15/16	4 1/4
JL19/64-CO	.2969	3 1/16	4 3/8
JL5/16-CO	.3125	3 3/16	4 1/2
JL21/64-CO	.3281	3 5/16	4 5/8
JL11/32-CO	.3437	3 7/16	4 3/4
JL23/64-CO	.3594	3 1/2	4 7/8
JL3/8-CO	.3750	3 5/8	5
JL25/64-CO	.3906	3 3/4	5 1/8
JL13/32-CO	.4062	3 7/8	5 1/4
JL27/64-CO	.4219	3 15/16	5 3/8
JL7/16-CO	.4375	4 1/16	5 1/2
JL29/64-CO	.4531	4 3/16	5 5/8
JL15/32-CO	.4687	4 5/16	5 3/4
JL31/64-CO	.4844	4 3/8	5 7/8
JL1/2-CO	.5000	4 1/2	6

## Cutting Tools

### Jobber Length Letter Cobalt

Cobalt steel offers increased hardness, toughness, wear resistance and heat resistance. Recommended for drilling tough, high tensile strength materials that generate cutting temperatures including high alloy steels, ferrous castings, titanium, inconel, stainless steel and other difficult to drill materials.



Straight Shank – Cobalt  
135° Split Point – Heavy Duty

ITEM	DEC	FLUTE	OAL
JLA-CO	.2340	2 5/8	3 7/8
JLB-CO	.2380	2 3/4	4
JLC-CO	.2420	2 3/4	4
JLD-CO	.2460	2 3/4	4
JLE-CO	.2500	2 3/4	4
JLF-CO	.2570	2 7/8	4 1/8
JLG-CO	.2610	2 7/8	4 1/8
JLH-CO	.2660	2 7/8	4 1/8
JLI-CO	.2720	2 7/8	4 1/8
JLJ-CO	.2770	2 7/8	4 1/8
JLK-CO	.2810	2 15/16	4 1/4
JLL-CO	.2900	2 15/16	4 1/4
JLM-CO	.2950	3 1/16	4 3/8
JLN-CO	.3020	3 1/16	4 3/8
JLO-CO	.3160	3 3/16	4 1/2
JLP-CO	.3230	3 5/16	4 5/8
JLQ-CO	.3320	3 7/16	4 3/4
JLR-CO	.3390	3 7/16	4 3/4
JLS-CO	.3480	3 1/2	4 7/8
JLT-CO	.3580	3 1/2	4 7/8
JLU-CO	.3680	3 5/8	5
JLV-CO	.3770	3 5/8	5
JLW-CO	.3860	3 3/4	5 1/8
JLX-CO	.3970	3 3/4	5 1/8
JLY-CO	.4040	3 7/8	5 1/4
JLZ-CO	.4130	3 7/8	5 1/4

## Jobber Length Wire Gage Cobalt

Cobalt steel offers increased hardness, toughness, wear resistance and heat resistance. Recommended for drilling tough, high tensile strength materials that generate cutting temperatures including high alloy steels, ferrous castings, titanium, inconel, stainless steel and other difficult to drill materials.



Straight Shank – Cobalt  
135° Split Point – Heavy Duty

ITEM	DEC	FLUTE	OAL
JL60-CO	.0400	11/16	1 5/8
JL59-CO	.0410	11/16	1 5/8
JL58-CO	.0420	11/16	1 5/8
JL57-CO	.0430	3/4	1 3/4
JL56-CO	.0465	3/4	1 3/4
JL55-CO	.0520	7/8	1 7/8
JL54-CO	.0550	7/8	1 7/8
JL53-CO	.0595	7/8	1 7/8
JL52-CO	.0635	7/8	1 7/8
JL51-CO	.0670	1	2
JL50-CO	.0700	1	2
JL49-CO	.0730	1	2
JL48-CO	.0760	1	2
JL47-CO	.0785	1	2
JL46-CO	.0810	1 1/8	2 1/8
JL45-CO	.0820	1 1/8	2 1/8
JL44-CO	.0860	1 1/8	2 1/8
JL43-CO	.0890	1 1/4	2 1/4
JL42-CO	.0935	1 1/4	2 1/4
JL41-CO	.0960	1 3/8	2 3/8
JL40-CO	.0980	1 3/8	2 3/8
JL39-CO	.0995	1 3/8	2 3/8
JL38-CO	.1015	1 7/16	2 1/2
JL37-CO	.1040	1 7/16	2 1/2
JL36-CO	.1065	1 7/16	2 1/2
JL35-CO	.1100	1 1/2	2 5/8
JL34-CO	.1110	1 1/2	2 5/8
JL33-CO	.1130	1 1/2	2 5/8
JL32-CO	.1160	1 5/8	2 3/4
JL31-CO	.1200	1 5/8	2 3/4
JL30-CO	.1285	1 5/8	2 3/4
JL29-CO	.1360	1 3/4	2 7/8
JL28-CO	.1405	1 3/4	2 7/8
JL27-CO	.1440	1 7/8	3
JL26-CO	.1470	1 7/8	3
JL25-CO	.1495	1 7/8	3
JL24-CO	.1520	2	3 1/8
JL23-CO	.1540	2	3 1/8
JL22-CO	.1570	2	3 1/8
JL21-CO	.1590	2 1/8	3 1/4



## Cutting Tools

Jobber Length Wire Gage Cobalt			
ITEM	DEC	FLUTE	OAL
JL20-CO	.1610	2 1/8	3 1/4
JL19-CO	.1660	2 1/8	3 1/4
JL18-CO	.1695	2 1/8	3 1/4
JL17-CO	.1730	2 3/16	3 3/8
JL16-CO	.1770	2 3/16	3 3/8
JL15-CO	.1800	2 3/16	3 3/8
JL14-CO	.1820	2 3/16	3 3/8
JL13-CO	.1850	2 5/16	3 1/2
JL12-CO	.1890	2 5/16	3 1/2
JL11-CO	.1910	2 5/16	3 1/2
JL10-CO	.1935	2 7/16	3 5/8
JL9-CO	.1960	2 7/16	3 5/8
JL8-CO	.1990	2 7/16	3 5/8
JL7-CO	.2010	2 7/16	3 5/8
JL6-CO	.2040	2 1/2	3 3/4
JL5-CO	.2055	2 1/2	3 3/4
JL4-CO	.2090	2 1/2	3 3/4
JL3-CO	.2130	2 1/2	3 3/4
JL2-CO	.2210	2 5/8	3 7/8
JL1-CO	.2280	2 5/8	3 7/8

## Jobber Length Metric Cobalt

Cobalt steel offers increased hardness, toughness, wear resistance and heat resistance. Recommended for drilling tough, high tensile strength materials that generate cutting temperatures including high alloy steels, ferrous castings, titanium, inconel, stainless steel and other difficult to drill materials.



Straight Shank – Cobalt  
135° Split Point – Heavy Duty

ITEM	DEC	FLUTE MM	OAL mm
JLM.90-CO	.0354	16	38
JLM.95-CO	.0374	16	38
JLM1.00-CO	.0394	17	41
JLM1.05-CO	.0413	17	41
JLM1.10-CO	.0433	19	44
JLM1.20-CO	.0472	22	48
JLM1.30-CO	.0512	22	48
JLM1.40-CO	.0551	22	48
JLM1.50-CO	.0591	22	48
JLM1.60-CO	.0630	22	48
JLM1.70-CO	.0669	25	51
JLM1.80-CO	.0709	25	51
JLM1.90-CO	.0748	25	51
JLM2.00-CO	.0787	25	51
JLM2.05-CO	.0807	29	54
JLM2.10-CO	.0827	29	54
JLM2.20-CO	.0866	32	57
JLM2.30-CO	.0906	32	57
JLM2.40-CO	.0945	35	60
JLM2.50-CO	.0984	35	60
JLM2.60-CO	.1024	37	64
JLM2.70-CO	.1063	37	64
JLM2.80-CO	.1102	38	67
JLM2.90-CO	.1142	41	70
JLM3.00-CO	.1181	41	70
JLM3.10-CO	.1220	41	70
JLM3.20-CO	.1260	41	70
JLM3.30-CO	.1299	45	73
JLM3.40-CO	.1339	45	73
JLM3.50-CO	.1378	45	73
JLM3.60-CO	.1417	48	76
JLM3.70-CO	.1457	48	76
JLM3.80-CO	.1496	48	76
JLM3.90-CO	.1535	51	79
JLM4.00-CO	.1575	54	83
JLM4.10-CO	.1614	54	83
JLM4.20-CO	.1654	54	83
JLM4.30-CO	.1693	54	83
JLM4.40-CO	.1732	56	86
JLM4.50-CO	.1772	56	86

ITEM	DEC	FLUTE MM	OAL mm
JLM4.60-CO	.1811	56	86
JLM4.70-CO	.1850	59	89
JLM4.80-CO	.1890	59	89
JLM4.90-CO	.1929	62	92
JLM5.00-CO	.1969	62	92
JLM5.10-CO	.2008	62	92
JLM5.20-CO	.2047	64	95
JLM5.30-CO	.2087	64	95
JLM5.40-CO	.2126	64	95
JLM5.50-CO	.2165	64	95
JLM5.60-CO	.2205	67	98
JLM5.70-CO	.2244	67	98
JLM5.80-CO	.2283	67	98
JLM5.90-CO	.2323	67	98
JLM6.00-CO	.2362	70	102
JLM6.10-CO	.2402	70	102
JLM6.20-CO	.2441	70	102
JLM6.30-CO	.2480	70	102
JLM6.40-CO	.2520	73	105
JLM6.50-CO	.2559	73	105
JLM6.60-CO	.2598	73	105
JLM6.70-CO	.2638	73	105
JLM6.80-CO	.2677	73	105
JLM6.90-CO	.2717	73	105
JLM7.00-CO	.2756	73	105
JLM7.10-CO	.2795	75	108
JLM7.20-CO	.2835	75	108
JLM7.30-CO	.2874	75	108
JLM7.40-CO	.2913	78	111
JLM7.50-CO	.2953	78	111
JLM7.60-CO	.2992	78	111
JLM7.70-CO	.3031	81	114
JLM7.80-CO	.3071	81	114
JLM7.90-CO	.3110	81	114
JLM8.00-CO	.3150	81	114
JLM8.10-CO	.3189	84	117
JLM8.20-CO	.3228	84	117
JLM8.30-CO	.3268	84	117
JLM8.40-CO	.3307	87	121
JLM8.50-CO	.3346	87	121
JLM8.60-CO	.3386	87	121
JLM8.70-CO	.3425	87	121
JLM8.80-CO	.3465	89	124
JLM8.90-CO	.3504	89	124
JLM9.00-CO	.3543	89	124
JLM9.10-CO	.3583	89	124
JLM9.20-CO	.3622	92	127
JLM9.30-CO	.3661	92	127
JLM9.40-CO	.3701	92	127
JLM9.50-CO	.3740	92	127
JLM9.60-CO	.3780	95	130

## Cutting Tools

<b>Jobber Length Metric Cobalt</b>			
<b>ITEM</b>	<b>DEC</b>	<b>FLUTE MM</b>	<b>OAL mm</b>
JLM9.70-CO	.3819	95	130
JLM9.80-CO	.3858	95	130
JLM10.00-CO	.3937	95	130
JLM10.20-CO	.4016	98	133
JLM10.50-CO	.4134	98	133
JLM10.80-CO	.4252	103	140
JLM11.00-CO	.4331	103	140
JLM11.20-CO	.4409	106	143
JLM11.50-CO	.4528	106	143
JLM11.80-CO	.4646	110	146
JLM12.00-CO	.4724	111	149
JLM12.20-CO	.4803	111	149
JLM12.50-CO	.4921	114	152
JLM13.00-CO	.5118	114	152

## Cutting Tools

### Jobber Length Black & Gold



Heavy Duty Jobber Length Drills  
Straight Shank – High Speed Steel  
135° Split Point – Heavy Duty  
Black & Gold

135° Self-centering split point eliminates “walking” and reduces thrust. It is recommended for a wide variety of low to medium tensile strength materials.

ITEM	DEC	FLUTE	OAL
JL1/16BG	.0625	7/8	
JL5/64BG	.0781	1	2
JL3/32BG	.0937	1 1/4	2 1/4
JL7/64BG	.1094	1 1/2	2 5/8
JL1/8BG	.1250	1 5/8	2 3/4
JL9/64BG	.1406	1 3/4	2 7/8
JL5/32BG	.1562	2	3 1/8
JL11/64BG	.1719	2 1/8	3 1/4
JL3/16BG	.1875	2 5/16	3 1/2
JL13/64BG	.2031	2 7/16	3 5/8
JL7/32BG	.2187	2 1/2	3 3/4
JL15/64BG	.2344	2 5/8	3 7/8
JL1/4BG	.2500	2 3/4	4
JL17/64BG	.2656	2 7/8	4 1/8
JL9/32BG	.2812	2 15/16	4 1/4
JL19/64BG	.2969	3 1/16	4 3/8
JL5/16BG	.3125	3 3/16	4 1/2
JL21/64BG	.3281	3 5/16	4 5/8
JL11/32BG	.3437	3 7/16	4 3/4
JL23/64BG	.3594	3 1/2	4 7/8
JL3/8BG	.3750	3 5/8	5
JL25/64BG	.3906	3 3/4	5 1/8
JL13/32BG	.4062	3 7/8	5 1/4
JL27/64BG	.4219	3 15/16	5 3/8
JL7/16BG	.4375	4 1/16	5 1/2
JL29/64BG	.4531	4 3/16	5 5/8
JL15/32BG	.4687	4 5/16	5 3/4
JL31/64BG	.4844	4 3/8	5 7/8
JL1/2BG	.5000	4 1/2	6

## Jobber Length Metric Black Oxide



- The Black Oxide high 118° point bit for use in wood, metal, and plastic.
- Constructed of M-2 speed steel for the best combination of strength, heat and wear resistance.
- The Black Oxide coating resists corrosion.

ITEM	DEC	FLUTE MM	OAL mm
JLM.48-BO	.0181	5	20
JLM.50-BO	.0197	6	22
JLM.55-BO	.0217	7	24
JLM.60-BO	.0236	7	24
JLM.65-BO	.0265	8	26
JLM.70-BO	.0276	9	28
JLM.75-BO	.0295	9	28
JLM.80-BO	.0315	10	30
JLM.85-BO	.0335	10	30
JLM.90-BO	.0354	11	32
JLM.95-BO	.0374	11	32
JLM1.00-BO	.0394	12	34
JLM1.05-BO	.0413	12	34
JLM1.10-BO	.0433	14	36
JLM1.15-BO	.0453	14	36
JLM1.20-BO	.0472	16	38
JLM1.25-BO	.0492	16	38
JLM1.30-BO	.0512	16	38
JLM1.35-BO	.0531	18	40
JLM1.40-BO	.0551	18	40
JLM1.45-BO	.0571	18	40
JLM1.50-BO	.0591	18	40
JLM1.55-BO	.0610	20	43
JLM1.60-BO	.0630	20	43
JLM1.65-BO	.0650	20	43
JLM1.70-BO	.0669	20	43
JLM1.75-BO	.0689	22	46
JLM1.80-BO	.0709	22	46
JLM1.85-BO	.0728	22	46
JLM1.90-BO	.0748	22	46
JLM1.95-BO	.0768	24	49
JLM2.00-BO	.0787	24	49
JLM2.05-BO	.0808	24	49
JLM2.10-BO	.0827	24	49
JLM2.15-BO	.0846	27	53
JLM2.20-BO	.0866	27	53
JLM2.25-BO	.0886	27	53
JLM2.30-BO	.0906	27	53
JLM2.35-BO	.0925	27	53

ITEM	DEC	FLUTE MM	OAL mm
JLM2.40-BO	.0945	30	57
JLM2.45-BO	.0965	30	57
JLM2.50-BO	.0984	30	57
JLM2.60-BO	.1024	30	57
JLM2.70-BO	.1063	33	61
JLM2.75-BO	.1083	33	61
JLM2.80-BO	.1102	33	61
JLM2.90-BO	.1142	33	61
JLM3.00-BO	.1181	33	61
JLM3.10-BO	.1220	36	65
JLM3.20-BO	.1260	36	65
JLM3.25-BO	.1280	36	65
JLM3.30-BO	.1299	36	65
JLM3.40-BO	.1339	39	70
JLM3.50-BO	.1378	39	70
JLM3.60-BO	.1417	39	70
JLM3.70-BO	.1457	39	70
JLM3.75-BO	.1476	39	70
JLM3.80-BO	.1496	43	75
JLM3.90-BO	.1535	43	75
JLM4.00-BO	.1575	43	75
JLM4.10-BO	.1614	43	75
JLM4.20-BO	.1654	43	75
JLM4.25-BO	.1673	43	75
JLM4.30-BO	.1693	47	80
JLM4.40-BO	.1732	47	80
JLM4.50-BO	.1772	47	80
JLM4.60-BO	.1811	47	80
JLM4.70-BO	.1850	47	80
JLM4.75-BO	.1870	47	80
JLM4.80-BO	.189	52	86
JLM4.90-BO	.1929	52	86
JLM5.00-BO	.1968	52	86
JLM5.10-BO	.2008	52	86
JLM5.20-BO	.2047	52	86
JLM5.25-BO	.2067	52	86
JLM5.30-BO	.2087	52	86
JLM5.40-BO	.2126	57	93
JLM5.50-BO	.2165	57	93
JLM5.60-BO	.2205	57	93
JLM5.70-BO	.2244	57	93
JLM5.75-BO	.2264	57	93
JLM5.80-BO	.2283	57	93
JLM5.90-BO	.2323	57	93
JLM6.00-BO	.2362	57	93
JLM6.10-BO	.2402	63	101
JLM6.20-BO	.2441	63	101
JLM6.25-BO	.2461	63	101
JLM6.30-BO	.2480	63	101
JLM6.40-BO	.2520	63	101
JLM6.50-BO	.2559	63	101

ITEM	DEC	FLUTE MM	OAL mm
JLM6.60-BO	.2598	63	101
JLM6.70-BO	.2638	63	101
JLM6.75-BO	.2657	69	109
JLM6.80-BO	.2677	69	109
JLM6.90-BO	.2717	69	109
JLM7.00-BO	.2756	69	109
JLM7.10-BO	.2795	69	109
JLM7.20-BO	.2835	69	109
JLM7.25-BO	.2854	69	109
JLM7.30-BO	.2874	69	109
JLM7.40-BO	.2913	69	109
JLM7.50-BO	.2953	75	117
JLM7.60-BO	.2992	75	117
JLM7.70-BO	.3031	75	117
JLM7.75-BO	.3051	75	117
JLM7.80-BO	.3071	75	117
JLM7.90-BO	.3110	75	117
JLM8.00-BO	.3150	75	117
JLM8.10-BO	.3189	75	117
JLM8.20-BO	.3228	75	117
JLM8.25-BO	.3248	75	117
JLM8.30-BO	.3268	75	117
JLM8.40-BO	.3307	75	117
JLM8.50-BO	.3346	75	117
JLM8.60-BO	.3386	81	125
JLM8.70-BO	.3425	81	125
JLM8.75-BO	.3445	81	125
JLM8.80-BO	.3465	81	125
JLM8.90-BO	.3504	81	125
JLM9.00-BO	.3543	81	125
JLM9.10-BO	.3583	81	125
JLM9.20-BO	.3622	81	125
JLM9.25-BO	.3642	81	125
JLM9.30-BO	.3661	81	125
JLM9.40-BO	.3701	81	125
JLM9.50-BO	.3740	81	125
JLM9.60-BO	.3780	87	133
JLM9.70-BO	.3819	87	133
JLM9.75-BO	.3839	87	133
JLM9.80-BO	.3898	87	133
JLM9.90-BO	.3998	87	133
JLM10.00-BO	.3937	87	133
JLM10.20-BO	.4016	87	133
JLM10.30-BO	.4055	87	133
JLM10.50-BO	.4134	87	133
JLM10.80-BO	.4252	94	142
JLM11.00-BO	.4331	94	142
JLM11.20-BO	.4409	94	142
JLM11.50-BO	.4528	94	142
JLM11.80-BO	.4646	94	142
JLM12.00-BO	.4724	101	151



## Cutting Tools

Jobber Length Metric Black Oxide			
ITEM	DEC	FLUTE MM	OAL mm
JLM12.20-BO	.4803	101	151
JLM12.50-BO	.4921	101	151
JLM13.00-BO	.5118	101	151
JLM13.50-BO	.5315	108	160
JLM14.00-BO	.5512	108	160
JLM14.50-BO	.5709	114	169
JLM15.00-BO	.5906	114	169
JLM15.50-BO	.6102	120	178
JLM16.00-BO	.6299	120	178
JLM16.50-BO	.6496	125	184
JLM17.00-BO	.6693	125	184
JLM17.50-BO	.6890	130	191

## Silver & Deming 1/2" Round Shanks



1/2" Reduced Shank Silver & Deming Drills  
118° Point – High Speed Steel  
ROUND SHANKS

Expand the size range capacity of 1/2" drill chucks, recommended for drilling a wide range of materials of low to medium tensile strength.

ITEM	DEC	FLUTE	OAL
SD33/64	.5156	3 1/8	6
SD17/32	.5312	3 1/8	6
SD35/64	.5469	3 1/8	6
SD9/16	.5625	3 1/8	6
SD37/64	.5781	3 1/8	6
SD19/32	.5938	3 1/8	6
SD39/64	.6094	3 1/8	6
SD5/8	.6250	3 1/8	6
SD41/64	.6406	3 1/8	6
SD21/32	.6562	3 1/8	6
SD43/64	.6719	3 1/8	6
SD11/16	.6875	3 1/8	6
SD45/64	.7031	3 1/8	6
SD23/32	.7188	3 1/8	6
SD47/64	.7344	3 1/8	6
SD3/4	.7500	3 1/8	6
SD49/64	.7656	3 1/8	6
SD25/32	.7812	3 1/8	6
SD51/64	.7969	3 1/8	6
SD13/16	.8125	3 1/8	6
SD53/64	.8281	3 1/8	6
SD27/32	.8438	3 1/8	6
SD55/64	.8594	3 1/8	6
SD7/8	.8750	3 1/8	6
SD57/64	.8902	3 1/8	6
SD29/32	.9062	3 1/8	6
SD59/64	.9219	3 1/8	6
SD15/16	.9378	3 1/8	6
SD61/64	.9531	3 1/8	6
SD31/32	.9688	3 1/8	6
SD63/64	.9844	3 1/8	6
SD1	1.0000	3 1/8	6
SD1-1/32	1.0312	3 1/8	6
SD1-1/16	1.0625	3 1/8	6
SD1-3/32	1.0937	3 1/8	6
SD1-1/8	1.1250	3 1/8	6
SD1-5/32	1.1562	3 1/8	6
SD1-3/16	1.1875	3 1/8	6
SD1-7/32	1.2188	3 1/8	6
SD1-1/4	1.2500	3 1/8	6
SD1-9/32	1.2812	3 1/8	6
SD1-5/16	1.3125	3 1/8	6

## Cutting Tools

### Silver & Deming 1/2" Round Shanks

SD1-11/32	1.3438	3 1/8	6
SD1-3/8	1.3750	3 1/8	6
SD1-13/32	1.4062	3 1/8	6
SD1-7/16	1.4375	3 1/8	6
SD1-15/32	1.4687	3 1/8	6
SD1-1/2	1.5000	3 1/8	6

## Silver & Deming 1/2" 3-Flat Shanks Black & Gold



1/2" Reduced Shank Silver & Deming Drills  
118° Self-Centering Split Point reduces "wandering" & thrust.  
3-FLAT SHANKS for positive hold

Expand the size range capacity of 1/2" drill chucks, recommended for drilling a wide range of materials of low to medium tensile strength.

ITEM	DEC	FLUTE	OAL
SD33/64BG	.5156	3 1/8	6
SD17/32BG	.5312	3 1/8	6
SD35/64BG	.5469	3 1/8	6
SD9/16BG	.5625	3 1/8	6
SD37/64BG	.5781	3 1/8	6
SD19/32BG	.5938	3 1/8	6
SD39/64BG	.6094	3 1/8	6
SD5/8BG	.6250	3 1/8	6
SD41/64BG	.6406	3 1/8	6
SD21/32BG	.6562	3 1/8	6
SD43/64BG	.6719	3 1/8	6
SD11/16BG	.6875	3 1/8	6
SD45/64BG	.7031	3 1/8	6
SD23/32BG	.7188	3 1/8	6
SD47/64BG	.7344	3 1/8	6
SD3/4BG	.7500	3 1/8	6
SD49/64BG	.7656	3 1/8	6
SD25/32BG	.7812	3 1/8	6
SD51/64BG	.7969	3 1/8	6
SD13/16BG	.8125	3 1/8	6
SD53/64BG	.8281	3 1/8	6
SD27/32BG	.8438	3 1/8	6
SD55/64BG	.8594	3 1/8	6
SD7/8BG	.8750	3 1/8	6
SD57/64BG	.8902	3 1/8	6
SD29/32BG	.9062	3 1/8	6
SD59/64BG	.9219	3 1/8	6
SD15/16BG	.9378	3 1/8	6
SD61/64BG	.9531	3 1/8	6
SD31/32BG	.9688	3 1/8	6
SD63/64BG	.9844	3 1/8	6
SD1BG	1.0000	3 1/8	6
SD1-1/32BG	1.0312	3 1/8	6
SD1-1/16BG	1.0625	3 1/8	6
SD1-3/32BG	1.0937	3 1/8	6
SD1-1/8BG	1.1250	3 1/8	6
SD1-5/32BG	1.1562	3 1/8	6
SD1-3/16BG	1.1875	3 1/8	6
SD1-7/32BG	1.2188	3 1/8	6
SD1-1/4BG	1.2500	3 1/8	6
SD1-9/32BG	1.2812	3 1/8	6
SD1-5/16BG	1.3125	3 1/8	6

---

## Cutting Tools

Silver & Deming 1/2" 3-Flat Shanks Black & Gold			
SD1-11/32BG	1.3438	3 1/8	6
SD1-3/8BG	1.3750	3 1/8	6
SD1-13/32BG	1.4062	3 1/8	6
SD1-7/16BG	1.4375	3 1/8	6
SD1-15/32BG	1.4687	3 1/8	6
SD1-1/2BG	1.5000	3 1/8	6

## Taps

### Metric Straight Flute Hand Taps - Bottom



Bottom Plug Taper

#### Ground Thread – High Speed Steel

Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.

ITEM	SIZE	NO OF FLUTES	PITCH DIA LIMIT	OAL
1.6MM-.35B2FD3	M1.6 X 0.35	2	D3	1 5/8
1.8-.35B2FD3	M1.8 X 0.35	2	D3	1 11/16
2MM-.4B3FD3	M2 X 0.4	3	D3	1 3/4
2.2MM-.45B3FD3	M2.2 X 0.45	3	D3	1 3/4
2.5MM-.45B3FD3	M2.5 X 0.45	3	D3	1 13/16
3MM-.5B3FD3	M3 X 0.5	3	D3	1 1/15/16
3.5MM-.6B3FD4	M3.5 X 0.6	3	D4	2
4MM-.7B4FD4	M4 X 0.7	4	D4	2 1/8
4.5MM-.75B4FD4	M4.5 X 0.75	4	D4	2 3/8
5MM-.8B4FD4	M5 X 0.8	4	D4	2 3/8
6MM-1B4FD5	M6 X 1	4	D5	2 1/2
7MM-1B4FD5	M7 X 1	4	D5	2 23/32
8MM-1B4FD5	M8 X 1	4	D5	2 23/32
8MM-1.25B4FD5	M8 X 1.25	4	D5	2 23/32
10MM-1.25B4FD5	M10 X 1.25	4	D5	2 15/16
10MM-1.5B4FD6	M10 X 1.5	4	D6	2 15/16
12MM-1.25B4FD5	M12 X 1.25	4	D5	3 3/8
12MM-1.75B4FD6	M12 X 1.75	4	D6	3 3/8
14MM-1.5B4FD6	M14 X 1.5	4	D6	3 19/32
14MM-2B4FD7	M14 X 2	4	D7	3 19/32
16MM-1.5B4FD6	M16 X 1.5	4	D6	3 13/16
16MM-2B4FD7	M16 X 2	4	D7	3 13/16
18MM-1.5B4FD6	M18 X 1.5	4	D6	4 1/32
18MM-2.5B4FD7	M18 X 2.5	4	D7	4 1/32
20MM-1.5B4FD6	M20 X 1.5	4	D6	4 15/32
20MM-2.5B4FD7	M20 X 2.5	4	D7	4 15/32
22MM-1.5B4FD6	M22 X 1.5	4	D6	4 11/16
22MM-2.5B4FD7	M22 X 2.5	4	D7	4 11/16
24MM-2B4FD7	M24 X 2	4	D7	4 29/32
24MM-3B4FD8	M24 X 3	4	D8	4 29/32
27MM-2B4FD7	M27 X 2	4	D7	5 1/8
27MM-3B4FD8	M27 X 3	4	D8	5 1/8
30MM-2B4FD7	M30 X 2	4	D7	5 7/16
30MM-3.5B4FD9	M30 X 3.5	4	D9	5 7/16
33MM-2B6FD7	M33 X 2	6	D7	5 3/4
33MM-3.5B4FD9	M33 X 3.5	4	D9	5 3/4

## Taps

### Metric Straight Flute Hand Taps - Bottom

ITEM	SIZE	NO OF FLUTES	PITCH DIA LIMIT	OAL
36MM-3B4FD8	M36 X 3	4	D8	6 1/16
36MM-4B4FD9	M36 X 4	4	D9	6 1/16
39MM-3B6FD8	M39 X 3	6	D8	6 11/16
39MM-4B6FD9	M39 X 4	6	D9	6 11/16

## Metric Straight Flute Hand Taps - Plug



Bottom Plug Taper

### Ground Thread – High Speed Steel

Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.

ITEM	SIZE	NO OF FLUTES	PITCH DIA LIMIT	OAL
1.6MM-.35P2FD3	M1.6 X 0.35	2	D3	1 5/8
1.8MM-.35P2FD3	M1.8 X 0.35	2	D3	1 11/16
2MM-.4P3FD3	M2 X 0.4	3	D3	1 3/4
2.2MM-.45P3FD3	M2.2 X 0.45	3	D3	1 3/4
2.5MM-.45P3FD3	M2.5 X 0.45	3	D3	1 13/16
3MM-.5P3FD3	M3 X 0.5	3	D3	1 1/15/16
3.5MM-.6P3FD4	M3.5 X 0.6	3	D4	2
4MM-.7P4FD4	M4 X 0.7	4	D4	2 1/8
4.5MM-.75P4FD4	M4.5 X 0.75	4	D4	2 3/8
5MM-.8P4FD4	M5 X 0.8	4	D4	2 3/8
6MM-1P4FD5	M6 X 1	4	D5	2 1/2
7MM-1P4FD5	M7 X 1	4	D5	2 23/32
8MM-1P4FD5	M8 X 1	4	D5	2 23/32
8MM-1.25P4FD5	M8 X 1.25	4	D5	2 23/32
10MM-1.25P4FD5	M10 X 1.25	4	D5	2 15/16
10MM-1.5P4FD6	M10 X 1.5	4	D6	2 15/16
12MM-1.25P4FD5	M12 X 1.25	4	D5	3 3/8
12MM-1.75P4FD6	M12 X 1.75	4	D6	3 3/8
14MM-1.5P4FD6	M14 X 1.5	4	D6	3 19/32
14MM-2P4FD7	M14 X 2	4	D7	3 19/32
16MM-1.5P4FD6	M16 X 1.5	4	D6	3 13/16
16MM-2P4FD7	M16 X 2	4	D7	3 13/16
18MM-1.5P4FD6	M18 X 1.5	4	D6	4 1/32
18MM-2.5P4FD7	M18 X 2.5	4	D7	4 1/32
20MM-1.5P4FD6	M20 X 1.5	4	D6	4 15/32
20MM-2.5P4FD7	M20 X 2.5	4	D7	4 15/32
22MM-1.5P4FD6	M22 X 1.5	4	D6	4 11/16
22MM-2.5P4FD7	M22 X 2.5	4	D7	4 11/16
24MM-2P4FD7	M24 X 2	4	D7	4 29/32
24MM-3P4FD8	M24 X 3	4	D8	4 29/32
27MM-2P4FD7	M27 X 2	4	D7	5 1/8
27MM-3P4FD8	M27 X 3	4	D8	5 1/8
30MM-2P4FD7	M30 X 2	4	D7	5 7/16
30MM-3.5P4FD9	M30 X 3.5	4	D9	5 7/16
33MM-2P6FD7	M33 X 2	6	D7	5 3/4
33MM-3.5P4FD9	M33 X 3.5	4	D9	5 3/4
36MM-3P4FD8	M36 X 3	4	D8	6 1/16



<b>Metric Straight Flute Hand Taps - Plug</b>				
<b>ITEM</b>	<b>SIZE</b>	<b>NO OF FLUTES</b>	<b>PITCH DIA LIMIT</b>	<b>OAL</b>
36MM-4P4FD9	M36 X 4	4	D9	6 1/16
39MM-3P6FD8	M39 X 3	6	D8	6 11/16
39MM-4P6FD9	M39 X 4	6	D9	6 11/16

## Metric Straight Flute Hand Taps - Taper



Bottom Plug Taper

### Ground Thread – High Speed Steel

Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.

ITEM	SIZE	NO OF FLUTES	PITCH DIA LIMIT	OAL
1.6MM-.35T2FD3	M1.6 X 0.35	2	D3	1 5/8
1.8MM-.35T2FD3	M1.8 X 0.35	2	D3	1 11/16
2MM-.4T3FD3	M2 X 0.4	3	D3	1 3/4
2.2MM-.45T3FD3	M2.2 X 0.45	3	D3	1 3/4
2.5MM-.45T3FD3	M2.5 X 0.45	3	D3	1 13/16
3MM-.5T3FD3	M3 X 0.5	3	D3	1 1/15/16
3.5MM-.6T3FD4	M3.5 X 0.6	3	D4	2
4MM-.7T4FD4	M4 X 0.7	4	D4	2 1/8
4.5MM-.75T4FD4	M4.5 X 0.75	4	D4	2 3/8
5MM-.8T4FD4	M5 X 0.8	4	D4	2 3/8
6MM-1T4FD5	M6 X 1	4	D5	2 1/2
7MM-1T4FD5	M7 X 1	4	D5	2 23/32
8MM-1T4FD5	M8 X 1	4	D5	2 23/32
8MM-1.25T4FD5	M8 X 1.25	4	D5	2 23/32
10MM-1.25T4FD5	M10 X 1.25	4	D5	2 15/16
10MM-1.5T4FD6	M10 X 1.5	4	D6	2 15/16
12MM-1.25T4FD5	M12 X 1.25	4	D5	3 3/8
12MM-1.75T4FD6	M12 X 1.75	4	D6	3 3/8
14MM-1.5T4FD6	M14 X 1.5	4	D6	3 19/32
14MM-2T4FD7	M14 X 2	4	D7	3 19/32
16MM-1.5T4FD6	M16 X 1.5	4	D6	3 13/16
16MM-2T4FD7	M16 X 2	4	D7	3 13/16
18MM-1.5T4FD6	M18 X 1.5	4	D6	4 1/32
18MM-2.5T4FD7	M18 X 2.5	4	D7	4 1/32
20MM-1.5T4FD6	M20 X 1.5	4	D6	4 15/32
20MM-2.5T4FD7	M20 X 2.5	4	D7	4 15/32
22MM-1.5T4FD6	M22 X 1.5	4	D6	4 11/16
22MM-2.5T4FD7	M22 X 2.5	4	D7	4 11/16
24MM-2T4FD7	M24 X 2	4	D7	4 29/32
24MM-3T4FD8	M24 X 3	4	D8	4 29/32
27MM-2T4FD7	M27 X 2	4	D7	5 1/8
27MM-3T4FD8	M27 X 3	4	D8	5 1/8
30MM-2T4FD7	M30 X 2	4	D7	5 7/16
30MM-3.5T4FD9	M30 X 3.5	4	D9	5 7/16
33MM-2T6FD7	M33 X 2	6	D7	5 3/4
33MM-3.5T4FD9	M33 X 3.5	4	D9	5 3/4
36MM-3T4FD8	M36 X 3	4	D8	6 1/16

## Metric Straight Flute Hand Taps - Taper

ITEM	SIZE	NO OF FLUTES	PITCH DIA LIMIT	OAL
36MM-4T4FD9	M36 X 4	4	D9	6 1/16
39MM-3T6FD8	M39 X 3	6	D8	6 11/16
39MM-4T6FD9	M39 X 4	6	D9	6 11/16

## Straight Flute Hand Taps Fractional - Bottom



Bottom

Plug

Taper

**Ground Thread – High Speed Steel** Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.

ITEM	SIZE	USS	SAE	UNS	NO OF FLUTES	PITCH DIA LIMIT	OAL
1/4-20B4FH3	1/4	20			4	H3	2 1/2
1/4-28B4FH3	1/4		28		4	H3	2 1/2
5/16-18B4FH3	5/16	18			4	H3	2 23/32
5/16-24B4FH3	5/16		24		4	H3	2 23/32
3/8-16B4FH3	3/8	16			4	H3	2 15/16
3/8-24B4FH3	3/8		24		4	H3	2 15/16
7/16-14B4FH3	7/16	14			4	H3	3 5/32
7/16-20B4FH3	7/16		20		4	H3	3 5/32
1/2-13B4FH3	1/2	13			4	H3	3 3/8
1/2-20B4FH3	1/2		20		4	H3	3 3/8
9/16-12B4FH3	9/16	12			4	H3	3 19/32
9/16-18B4FH3	9/16		18		4	H3	3 19/32
5/8-11B4FH3	5/8	11			4	H3	3 13/16
5/8-18B4FH3	5/8		18		4	H3	3 13/16
11/16-16B4FH3	11/16			16	4	H3	4 1/32
3/4-10B4FH3	3/4	10			4	H3	4 1/4
3/4-16B4FH3	3/4		16		4	H3	4 1/4
7/8-9B4FH4	7/8	9			4	H4	4 11/16
7/8-14B4FH4	7/8		14		4	H4	4 11/16
1-8B4FH4	1	8			4	H4	5 1/8
1-12B4FH4	1		12		4	H4	5 1/8
1-14B4FH4	1			14	4	H4	5 1/8
1-1/8-7B4FH4	1 1/8	7			4	H4	5 7/16
1-1/8-12B4FH4	1 1/8		12		4	H4	5 7/16
1-1/4-7B4FH4	1 1/4	7			4	H4	5 3/4
1-1/4-12B6FH4	1 1/4		12		6	H4	5 3/4
1-3/8-6B4FH4	1 3/8	6			4	H4	6 1/16
1-3/8-12B6FH4	1 3/8		12		6	H4	6 1/16
1-1/2-6B4FH4	1 1/2	6			4	H4	6 3/8
1-1/2-12B6FH4	1 1/2		12		6	H4	6 3/8

## Straight Flute Hand Taps Fractional - Plug



Bottom      Plug      Taper

**Ground Thread – High Speed Steel** Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.

ITEM	SIZE	USS	SAE	UNS	NO OF FLUTES	PITCH DIA LIMIT	OAL
1/4-20P4FH3	1/4	20			4	H3	2 1/2
1/4-28P4FH3	1/4		28		4	H3	2 1/2
5/16-18P4FH3	5/16	18			4	H3	2 23/32
5/16-24P4FH3	5/16		24		4	H3	2 23/32
3/8-16P4FH3	3/8	16			4	H3	2 15/16
3/8-24P4FH3	3/8		24		4	H3	2 15/16
7/16-14P4FH3	7/16	14			4	H3	3 5/32
7/16-20P4FH3	7/16		20		4	H3	3 5/32
1/2-13P4FH3	1/2	13			4	H3	3 3/8
1/2-20P4FH3	1/2		20		4	H3	3 3/8
9/16-12P4FH3	9/16	12			4	H3	3 19/32
9/16-18P4FH3	9/16		18		4	H3	3 19/32
5/8-11P4FH3	5/8	11			4	H3	3 13/16
5/8-18P4FH3	5/8		18		4	H3	3 13/16
11/16-16P4FH3	11/16			16	4	H3	4 1/32
3/4-10P4FH3	3/4	10			4	H3	4 1/4
3/4-16P4FH3	3/4		16		4	H3	4 1/4
7/8-9P4FH4	7/8	9			4	H4	4 11/16
7/8-14P4FH4	7/8		14		4	H4	4 11/16
1-8P4FH4	1	8			4	H4	5 1/8
1-12P4FH4	1		12		4	H4	5 1/8
1-14P4FH4	1			14	4	H4	5 1/8
1-1/8-7P4FH4	1 1/8	7			4	H4	5 7/16
1-1/8-12P4FH4	1 1/8		12		4	H4	5 7/16
1-1/4-7P4FH4	1 1/4	7			4	H4	5 3/4
1-1/4-12P6FH4	1 1/4		12		6	H4	5 3/4
1-3/8-6P4FH4	1 3/8	6			4	H4	6 1/16
1-3/8-12P6FH4	1 3/8		12		6	H4	6 1/16
1-1/2-6P4FH4	1 1/2	6			4	H4	6 3/8
1-1/2-12P6FH4	1 1/2		12		6	H4	6 3/8

## Straight Flute Hand Taps Fractional - Taper



Bottom

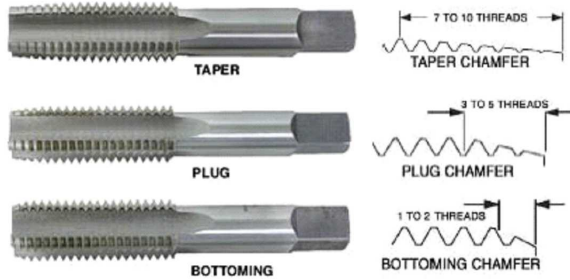
Plug

Taper

**Ground Thread – High Speed Steel** Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials.

ITEM	SIZE	USS	SAE	UNS	NO OF FLUTES	PITCH DIA LIMIT	OAL
1/4-20T4FH3	1/4	20			4	H3	2 1/2
1/4-28T4FH3	1/4		28		4	H3	2 1/2
5/16-18T4FH3	5/16	18			4	H3	2 23/32
5/16-24T4FH3	5/16		24		4	H3	2 23/32
3/8-16T4FH3	3/8	16			4	H3	2 15/16
3/8-24T4FH3	3/8		24		4	H3	2 15/16
7/16-14T4FH3	7/16	14			4	H3	3 5/32
7/16-20T4FH3	7/16		20		4	H3	3 5/32
1/2-13T4FH3	1/2	13			4	H3	3 3/8
1/2-20T4FH3	1/2		20		4	H3	3 3/8
9/16-12T4FH3	9/16	12			4	H3	3 19/32
9/16-18T4FH3	9/16		18		4	H3	3 19/32
5/8-11T4FH3	5/8	11			4	H3	3 13/16
5/8-18T4FH3	5/8		18		4	H3	3 13/16
11/16-16T4FH3	11/16			16	4	H3	4 1/32
3/4-10T4FH3	3/4	10			4	H3	4 1/4
3/4-16T4FH3	3/4		16		4	H3	4 1/4
7/8-9T4FH4	7/8	9			4	H4	4 11/16
7/8-14T4FH4	7/8		14		4	H4	4 11/16
1-8T4FH4	1	8			4	H4	5 1/8
1-12T4FH4	1		12		4	H4	5 1/8
1-14T4FH4	1			14	4	H4	5 1/8
1-1/8-7T4FH4	1 1/8	7			4	H4	5 7/16
1-1/8-12T4FH4	1 1/8		12		4	H4	5 7/16
1-1/4-7T4FH4	1 1/4	7			4	H4	5 3/4
1-1/4-12T6FH4	1 1/4		12		6	H4	5 3/4
1-3/8-6T4FH4	1 3/8	6			4	H4	6 1/16
1-3/8-12T6FH4	1 3/8		12		6	H4	6 1/16
1-1/2-6T4FH4	1 1/2	6			4	H4	6 3/8
1-1/2-12T6FH4	1 1/2		12		6	H4	6 3/8

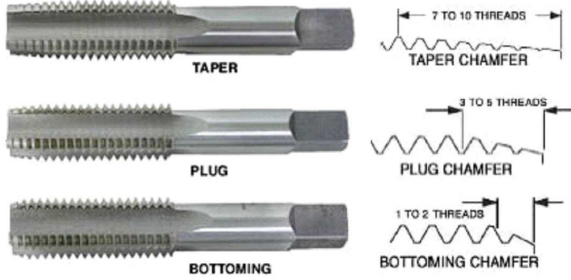
## Straight Flute Hand Taps Machine Screw - Bottom



Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials

ITEM	SIZE	USS	SAE	NO OF FLUTES	PITCH DIA LIMIT	OAL
#0-80B2FH1	0		80	2	H1	1 5/8
#1-72B2FH2	1		72	2	H2	1 11/16
#2-56B3FH2	2	56		3	H2	1 3/4
#2-64B3FH2	2		64	3	H2	1 3/4
#3-48B3FH2	3	48		3	H2	1 13/16
#3-56B3FH2	3		56	3	H2	1 13/16
#4-40B3FH2	4	40		3	H2	1 7/8
#4-48B3FH2	4		48	3	H2	1 7/8
#6-32B3FH2	6	32		3	H2	2
#6-32B3FH3	6	32		3	H3	2
#6-40B3FH2	6		40	3	H2	2
#8-32B4FH3	8	32		4	H3	2 1/8
#8-36B4FH2	8		36	4	H2	2 1/8
#10-24B4FH3	10	24		4	H3	2 3/8
#10-32B4FH2	10		32	4	H2	2 3/8
#12-24B4FH3	12	24		4	H3	2 3/8
#12-28B4FH3	12		28	4	H3	2 3/8

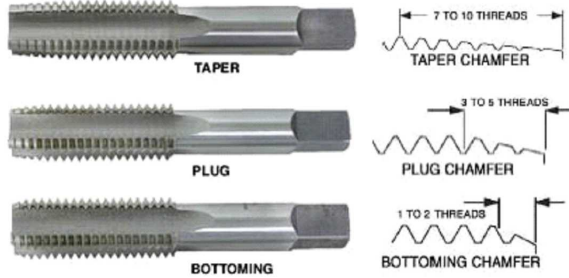
## Straight Flute Hand Taps Machine Screw - Plug



Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials

ITEM	SIZE	USS	SAE	NO OF FLUTES	PITCH DIA LIMIT	OAL
#0-80P2FH1	0		80	2	H1	1 5/8
#1-72P2FH2	1		72	2	H2	1 11/16
#2-56P3FH2	2	56		3	H2	1 3/4
#2-64P3FH2	2		64	3	H2	1 3/4
#3-48P3FH2	3	48		3	H2	1 13/16
#3-56P3FH2	3		56	3	H2	1 13/16
#4-40P3FH2	4	40		3	H2	1 7/8
#4-48P3FH2	4		48	3	H2	1 7/8
#6-32P3FH2	6	32		3	H2	2
#6-32P3FH3	6	32		3	H3	2
#6-40P3FH2	6		40	3	H2	2
#8-32P4FH3	8	32		4	H3	2 1/8
#8-36P4FH2	8		36	4	H2	2 1/8
#10-24P4FH3	10	24		4	H3	2 3/8
#10-32P4FH2	10		32	4	H2	2 3/8
#12-24P4FH3	12	24		4	H3	2 3/8
#12-28P4FH3	12		28	4	H3	2 3/8

## Straight Flute Hand Taps Machine Screw - Taper



Straight Flute hand taps are used for hand tapping and machine tapping in through holes or blind holes in a wide variety of materials

ITEM	SIZE	USS	SAE	NO OF FLUTES	PITCH DIA LIMIT	OAL
#0-80T2FH1	0		80	2	H1	1 5/8
#1-72T2FH2	1		72	2	H2	1 11/16
#2-56T3FH2	2	56		3	H2	1 3/4
#2-64T3FH2	2		64	3	H2	1 3/4
#3-48T3FH2	3	48		3	H2	1 13/16
#3-56T3FH2	3		56	3	H2	1 13/16
#4-40T3FH2	4	40		3	H2	1 7/8
#4-48T3FH2	4		48	3	H2	1 7/8
#6-32T3FH2	6	32		3	H2	2
#6-32T3FH3	6	32		3	H3	2
#6-40T3FH2	6		40	3	H2	2
#8-32T4FH3	8	32		4	H3	2 1/8
#8-36T4FH2	8		36	4	H2	2 1/8
#10-24T4FH3	10	24		4	H3	2 3/8
#10-32T4FH2	10		32	4	H2	2 3/8
#12-24T4FH3	12	24		4	H3	2 3/8
#12-28T4FH3	12		28	4	H3	2 3/8

## Taper Pipe Taps



Regular Thread NPT taper pipe taps are commonly used for tapping pipe fittings and couplings in a wide variety of materials. Assembly requires the use of a thread sealant to ensure a tight seal.

ITEM	SIZE	NO OF FLUTES	OAL
TAPNPT1/16	1/16-27	4	2 1/8
TAPNPT1/8	1/8-27	4	2 1/8
TAPNPT1/4	1/4-18	4	2 7/16
TAPNPT3/8	3/8-18	4	2 7/16
TAPNPT1/2	1/2-14	4	3 1/8
TAPNPT3/4	3/4-14	5	3 1/4



## Dies

### Hexagon Rethreading Dies



#### Carbon Steel – Fractional

- Hexagon Rethreading dies are used to repair existing bruised or rusty threads.
- Not recommended for cutting new threads.

ITEM	SIZE	USS	SAE
1/4-20HEXDIE	1/4	20	
1/4-28HEXDIE	1/4		28
5/16-18HEXDIE	5/16	18	
5/16-24HEXDIE	5/16		24
3/8-16HEXDIE	3/8	16	
3/8-24HEXDIE	3/8		24
7/16-14HEXDIE	7/16	14	
7/16-20HEXDIE	7/16		20
1/2-13HEXDIE	1/2	13	
1/2-20HEXDIE	1/2		20
9/16-12HEXDIE	9/16	12	
9/16-18HEXDIE	9/16		18
5/8-11HEXDIE	5/8	11	
5/8-18HEXDIE	5/8		18
3/4-10HEXDIE	3/4	10	
3/4-16HEXDIE	3/4		16
7/8-9HEXDIE	7/8	9	
7/8-14HEXDIE	7/8		14
1-8HEXDIE	1	8	
1-12HEXDIE	1		12
1-1/8-7HEXDIE	1 1/8	7	
1-1/8-12HEXDIE	1 1/8		12
1-1/4-7HEXDIE	1 1/4	7	
1-1/4-12HEXDIE	1 1/4		12
1-3/8-6HEXDIE	1 3/8	6	
1-3/8-12HEXDIE	1 3/8		12
1-1/2-6HEXDIE	1 1/2	6	
1-1/2-12HEXDIE	1 1/2		12