



# TAPS AND DIES

# TAP AND DRILL BIT SELECTION GUIDE

## NATIONAL STANDARD THREADS

Imperial (NC, NF, NS, UNC and UNF)

Thread Nominal Size	Thread Standard	Drill Size*	Decimal
0-80	NF	3/64"	.0469"
1-64	NC	53	.0595"
1-72	NF	53	.0595"
2-56	NC	50	.0700"
2-64	NF	50	.0700"
3-48	NC	47	.0785"
3-56	NF	45	.0820"
4-40	NC/UNC	43	.0890"
4-48	NF	42	.0935"
5-40	NC	38	.1015"
5-44	NF	37	.1040"
6-32	NC/UNC	36	.1065"
6-40	NF	33	.1130"
8-32	NC/UNC	29	.1360"
8-36	NF	29	.1360"
10-24	NC/UNC	25	.1495"
10-32	NF/UNF	21	.1590"
3/16-24	NS	26	.1470"
3/16-32	NS	22	.1570"
12-24	NC	16	.1770"
12-28	NF	14	.1820"
14-20	NS	10	.1935"
1/4-20	NC/UNC	7	.2010"
1/4-28	NF/UNF	3	.2130"
5/16-18	NC/UNC	F	.2570"
5/16-24	NF/UNF	I	.2720"
3/8-16	NC/UNC	5/16"	.3125"
3/8-24	NF/UNF	Q	.3320"
7/16-14	NC/UNC	U	.3680"
7/16-20	NF/UNF	25/64"	.3906"
1/2-13	NC/UNC	27/64"	.4219"
1/2-20	NF/UNF	29/64"	.4531"
9/16-12	NC/UNC	31/64"	.4844"
9/16-18	NF/UNF	33/64"	.5156"
5/8-11	NC/UNC	17/32"	.5312"
5/8-18	NF/UNF	37/64"	.5781"
3/4-10	NC/UNC	21/32"	.6562"
3/4-16	NF/UNF	11/16"	.6875"
7/8-9	NC/UNC	49/64"	.7656"
7/8-14	NF/UNF	13/16"	.8125"
1-8	NC/UNC	7/8"	.8750"
1-14	NS	15/16"	.9375"
1-1/8-7	NC/UNC	63/64"	.9844"
1-1/8-12	NF/UNF	1-3/64"	1.0469"
1-1/4-7	NC/UNC	1-7/64"	1.1094"
1-1/4-12	NF/UNF	1-11/64"	1.1719"
1-3/8-6	NC/UNC	1-7/32"	1.2188"
1-3/8-12	NF/UNF	1-19/64"	1.2969"
1-1/2-6	NC/UNC	1-11/32"	1.3438"
1-1/2-12	NF/UNF	1-27/64"	1.4219"
1-3/4-5	NC/UNC	1-9/16"	1.5625"
2-4-1/2	NC/UNC	1-25/32"	1.7813"
2-1/4-4-1/2	NC/UNC	2-1/32"	2.0313"
2-1/2-4	NC/UNC	2-1/4"	2.2500"
2-3/4-4	NC/UNC	2-1/2"	2.5000"
3-4	NC/UNC	2-3/4"	2.7500"
3-1/4-4	NC/UNC	3"	3.0000"
3-1/4-4	NC/UNC	3-1/4"	3.2500"
3-3/4-4	NC/UNC	3-1/2"	3.5000"
4-4	NC/UNC	3-3/4"	3.7500"

\*Drill size is approximately 75% of threaded depth

## METRIC THREADS

International Thread Standard (ISO)

Tap Size	Thread Standard	Drill Size	Decimal
2.5-.45	French	5/64"	.0781"
2.6-.45	DIN	#45	.0820"
3-.50	DIN	#40	.0980"
3-.60	French	#39	.0995"
3-.75	ISO-Other	#43	.8090"
3.5-.60	French and DIN	#33	.1130"
4-.70	DIN	1/8"	.1250"
4-.75	French	1/8"	.1250"
4.5-.75	French and DIN	#26	.1470"
5-.75	ISO-Other	#19	.1660"
5-.80	DIN	11/64"	.1719"
5-.90	French	#20	.1610"
5-1.00	ISO-Other	5/32"	.1563"
5.5-.75	ISO-Other	3/16"	.1875"
5.5-.90	French and DIN	#14	.1820"
6-1.00	French and DIN	13/64"	.2031"
6-1.25	ISO-Other	3/16"	.1875"
7-1.00	French and DIN	15/64"	.2344"
7-1.25	ISO-Other	#1	.2280"
8-1.00	French	J	.2770"
8-1.25	DIN	17/64"	.2656"
9-1.00	French	5/16"	.3125"
9-1.25	DIN	5/16"	.3125"
10-1.00	ISO-Other	23/64"	.3594"
10-1.25	ISO-Other	11/32"	.3437"
10-1.50	French and DIN	11/32"	.3437"
11-1.50	DIN	3/8"	.3750"
12-1.25	ISO-Other	7/16"	.4375"
12-1.50	French	13/32"	.4063"
12-1.75	DIN	27/64"	.4219"
12-1.75	ISO-Other	29/64"	.4531"
13-1.50	ISO-Other	29/64"	.4531"
13-2.00	ISO-Other	7/16"	.4375"
14-1.25	ISO-Other	33/64"	.5156"
14-1.75	ISO-Other	1/2"	.5000"
14-2.00	French and DIN	15/32"	.4687"
15-1.75	ISO-Other	17/32"	.5313"
15-2.00	ISO-Other	33/64"	.5156"
16-1.50	ISO-Other	37/64"	.5781"
16-2.00	French and DIN	35/64"	.5469"
17-2.00	ISO-Other	19/32"	.5937"
18-1.50	ISO-Other	21/32"	.6563"

DIN=Deutsche Institute for Norms

## TAPER PIPE—FOR TAPPING WITHOUT REAMING

Thread	Drill	Thread	Drill	Thread	Drill
1/16"	D	3/4"	59/64"	2-1/2"	2-5/8"
1/8"	R	1"	1-5/32"	3"	3-1/4"
1/4"	7/16"	1-1/4"	1-1/2"	3-1/2"	3-3/34"
3/8"	37/64"	1-1/2"	1-47/64"	4"	4-1/4"
1/2"	45/64"	2"	2-7/32"	—	—

## STRAIGHT PIPE

Thread	Drill	Thread	Drill	Thread	Drill
1/16"	1/4"	1/2"	23/32"	1-1/2"	1-3/4"
1/8"	11/32"	3/4"	59/64"	2"	2-7/32"
1/4"	7/16"	1"	1-5/32"	2-1/2"	2-21/32"
3/8"	37/64"	1-1/4"	1-1/2"	—	—

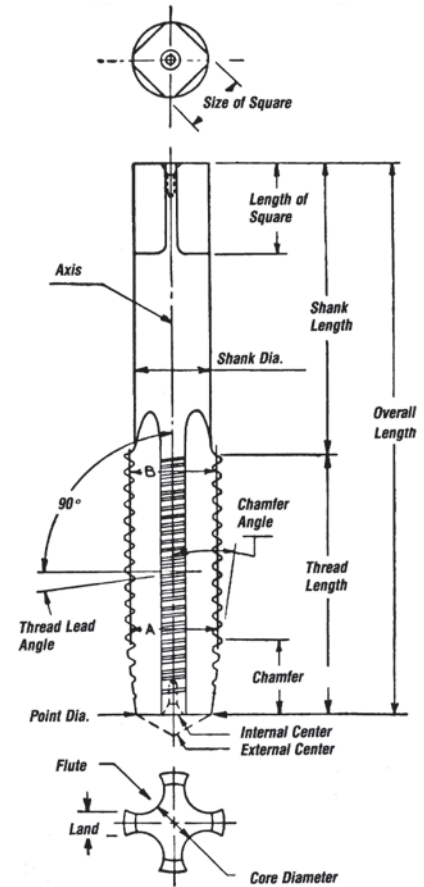
# BLACK OXIDE TAPS AND DIES

**HEAT-TREATED CARBON STEEL**  
For long life and clean, accurate threads

**ROLLED THREADS**  
Are more accurate than machined threads

**BLACK OXIDE COATING**  
For added durability and corrosion resistance

**LASER-ETCHED MARKING**  
Ensures size identification won't wear off



**Note:** Tap and die size is indicated by two numbers. The first number represents the diameter of the screw or bolt. The second number represents threads per inch. The letters after the tap size indicate particular screw or bolt standard:

- NC** = National Coarse
- UNC** = Unified National Coarse
- NF** = National Fine
- UNF** = Unified National Fine
- NS** = National Special
- NEF** = National Extra Fine
- NPT** = National Pipe Taper
- BSP** = British Standard Pipe
- ISO** = International Thread Standard (metric)

**Example:** A 1/4-20 NC tap will cut 1/4" outside diameter with 20 threads per inch for a National Coarse-type screw.



## Product Information—Tap Point Styles



### PLUG

- ▶ General-purpose tap with 3–5 chamfered threads
- ▶ Used when there is sufficient room on a blind hole and tapping to the bottom is not required



### TAPER

- ▶ 8–10 chamfered threads at the tip are ideal for starting threads in tough materials
- ▶ Longest chamfer of all three types
- ▶ Commonly used in thru-holes and with materials where a guide is necessary
- ▶ Requires less torque due to more working teeth



### BOTTOMING

- ▶ Used after the threads have been started
- ▶ 1–3 chamfered threads at the tip are enough to start the hole and taps all the way to the bottom



## BLACK OXIDE PLUG TAPS (BULK)



Item #	Size and Thread	Thread Standard	Corresponding Drill Size (if applicable)	# Pieces/Pack	Order in Multiples of
<b>Standard</b>					
95397	4-40	NC	#43	5	5
95406	6-32	NC	#36	5	5
95409	8-32	NC	#29	5	5
95412	10-24	NC	#25	5	5
95415	10-32	NF	#21	5	5
95418	12-24	NC	#16	5	5
95421	14-20	NS	#10	5	5
95432	1/4-20	NC	#7	5	5
95435	1/4-28	NF	#3	5	5
95438	5/16-18	NC	F	5	5
95441	5/16-24	NF	I	5	5
95444	3/8-16	NC	5/16"	5	5
95450	7/16-14	NC	U	5	5
95453	7/16-20	NF	25/64"	5	5
95456	1/2-13	NC	27/64"	5	5
95462	9/16-12	NC	31/64"	1	1
95468	5/8-11	NC	17/32"	1	1
95471	3/4-10	NC	21/32"	1	1
95480	7/8-14	NF	13/16"	1	1
95483	1-8	NC	7/8"	1	1
<b>Metric</b>					
96303	3mm-.50	D.I.N.	#40	5	5
96304	3mm-.60	French	#39	5	5
96305	4mm-.70	D.I.N.	1/8"	5	5
96306	4mm-.75	French	1/8"	5	5
96307	5mm-.80	D.I.N.	11/64"	5	5
96308	5mm-.90	French	#20	5	5
96309	6mm-1.00	French and D.I.N.	13/64"	5	5
96310	7mm-1.00	French and D.I.N.	15/64"	5	5
96311	8mm-1.25	D.I.N.	17/64"	5	5
96314	10mm-1.25	Optional	11/32"	5	5
96315	10mm-1.50	French and D.I.N.	11/32"	5	5
96317	12mm-1.50	French	13/32"	5	5
96318	12mm-1.75	D.I.N.	27/64"	5	5

## BLACK OXIDE TAPER TAPS (BULK)



Item #	Size and Thread	Thread Standard	Corresponding Drill Size (if applicable)	# Pieces/Pack	Order in Multiples of
95399	4-40	NC	#43	5	5
95408	6-32	NC	#36	5	5
95411	8-32	NC	#29	5	5
95414	10-24	NC	#25	5	5
95417	10-32	NF	#21	5	5
95420	12-24	NC	#16	5	5
95434	1/4-20	NC	#7	5	5
95437	1/4-28	NF	#3	5	5
95440	5/16-18	NC	F	5	5
95443	5/16-24	NF	I	5	5
95446	3/8-16	NC	5/16"	5	5
95458	1/2-13	NC	27/64"	5	5
95461	1/2-20	NF	29/64"	5	5



## BLACK OXIDE BOTTOMING TAPS (BULK)



Item #	Size and Thread	Thread Standard	Corresponding Drill Size (if applicable)	# Pieces/Pack	Order in Multiples of
95398	4-40	NC	#43	1	5
95407	6-32	NC	#36	5	5
95410	8-32	NC	#29	5	5
95413	10-24	NC	#25	5	5
95416	10-32	NF	#21	5	5
95419	12-24	NC	#16	5	5
95423	14-20	NS	#10	5	5
95433	1/4-20	NC	#7	5	5
95436	1/4-28	NF	#3	5	5
95439	5/16-18	NC	F	5	5
95442	5/16-24	NF	I	5	5
95445	3/8-16	NC	5/16"	5	5
95448	3/8-24	NF	Q	5	5
95451	7/16-14	NC	U	5	5

## PIPE TAPS (BULK)



Item #	Size and Thread	Thread Standard	Corresponding Drill Size (if applicable)	# Pieces/Pack	Order in Multiples of
95492	1/8-27	NPT	R	5	5
95495	1/4-18	NPT	7/16"	5	5
95498	3/8-18	NPT	37/64"	5	5
B44504	1/2-14	NPT	45/64"	1	1
B44505	3/4-14	NPT	59/64"	1	1

## BLACK OXIDE PIPE DIES (BULK)



Item #	Size and Thread	Thread Standard	Width Across Flat	# Pieces/Pack	Order in Multiples of
95739	1/8-27	NPT	1"	5	5
95738	1/4-18	NPT	1"	5	5
95740	1/4-18	NPT	1-7/16"	1	1
95722	3/8-18	NPT	1-7/8"	1	1
95735	1/2-14	NPT	1-7/8"	1	1
96336	1/8-28	BSP	1"	5	5



TAPS AND DIES





## BLACK OXIDE HEX DIES (BULK)



Item #	Size and Thread	Width Across Flat	Thread Standard	# Pieces/Pack	Order in Multiples of
<b>Standard</b>					
95680	4-40	1"	NC	5	5
95692	10-32	1"	NF	5	5
95709	1/4-20	1"	NC	5	5
95715	5/16-18	1"	NC	5	5
95718	5/16-24	1"	NF	5	5
95721	3/8-16	1"	NC	5	5
95724	3/8-24	1"	NF	5	5
95730	7/16-20	1"	NF	5	5
95733	1/2-13	1"	NC	5	5
95736	1/2-20	1"	NF	5	5
95734	1/2-13	1-7/16"	NC	1	1
B46022	9/16-12	1-7/16"	NC	1	1
B46023	9/16-18	1-7/16"	NF	1	1
B46024	5/8-11	1-7/16"	NC	1	1
B46025	5/8-18	1-7/16"	NF	1	1
B46026	3/4-10	1-7/16"	NC	1	1
B46027	3/4-16	1-7/16"	NF	1	1
B46028	7/8-9	1-13/16"	NC	1	1
B46029	7/8-14	1-13/16"	NF	1	1
B46030	1-8	1-13/16"	NC	1	1
95772	1-12	1-7/8"	NF	1	1
<b>Metric</b>					
96324	5mm-.80	1"	—	5	5
96326	6mm-1.00	1"	—	5	5
96328	8mm-1.25	1"	—	5	5
96331	10mm-1.25	1"	—	5	5
96332	10mm-1.50	1"	—	5	5
96334	12mm-1.50	1"	—	5	5
96335	12mm-1.75	1"	—	5	5

## BLACK OXIDE SCREW EXTRACTORS (BULK)



Tempered and heat treated to prevent rust and extend life. For manual screw removal with T-handle wrench.

Item #	Size and Thread	Corresponding Drill Size (if applicable)	# Pieces/Pack	Order in Multiples of
95785	#1 spiral flute	5/64"	5	5
95788	#2 spiral flute	7/64"	5	5
95791	#3 spiral flute	5/32"	5	5
95794	#4 spiral flute	1/4"	5	5
95797	#5 spiral flute	17/64"	5	5
95800	#6 spiral flute	13/32"	1	1
95803	#7 spiral flute	17/32"	1	1
95806	#8 spiral flute	13/16"	1	1
95809	#9 spiral flute	1-1/8"	1	1
95786	#1 straight flute	1/8"	5	5
95789	#2 straight flute	3/16"	5	5
95792	#3 straight flute	15/64"	5	5
95795	#4 straight flute	5/16"	5	5
95798	#5 straight flute	3/8"	5	5
95801	#6 straight flute	15/32"	1	1
95804	#7 straight flute	9/16"	1	1

## TAPS AND DIES

## BLACK OXIDE TAP AND DIE SETS



**Black Oxide  
12-Piece Tap Set  
B44711**



**Black Oxide  
40-Piece Tap and Die Set  
B44717**



**Black Oxide  
58-Piece Tap and Die Set  
B44713**

Item #	# of Pieces	Includes	Order in Multiples of	Case Type
B46212	5	Spiral flute screw extractors (carded): (1) #1, (1) #2, (1) #3, (1) #4, (1) #5	1	—
B44815	5	Straight flute screw extractors (carded): (1) #1, (1) #2, (1) #3, (1) #4, (1) #5	1	—
B46215	12	Spiral extractors: #1-#6; drill bits: (1) 5/64", (1) 7/64", (1) 5/32", (1) 1/4", (1) 17/64", (1) 13/32"	1	Brute Tough™
B44710	11	Taps: (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 1/4-20; drill bits: (1) #36, (1) #29, (1) #25, (1) #21, (1) #7; (1) T-handle wrench	1	Brute Tough™

# BLACK OXIDE TAP AND DIE SETS CONTINUED

Item #	# of Pieces	Includes (taps)	Includes (dies)	Includes (handle and accessories)	Order in Multiples of	Case Type
B44711	12	Plug taps: (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 3/8-16, (1) 7/16-14, (1) 1/2-13, (1) 1/8-27	—	—	1	Brute Tough™
B44713	58	Plug taps: (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20, (1) 9/16-12, (1) 9/16-18, (1) 5/8-11, (1) 5/8-18, (1) 3/4-10, (1) 3/4-16, (1) 1/8-27, (1) 1/4-18	1" hex dies: (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20, (1) 1/8-27; pipe die: (1) 1/4-18; 1-7/16" hex dies: (1) 9/16-12, (1) 9/16-18, (1) 5/8-11, (1) 5/8-18, (1) 3/4-10, (1) 3/4-16	Spiral screw extractors #1-5, (1) tap wrench 1/4-1/2, (1) tap wrench 1/2-3/4, (1) T-handle wrench, (1) 1" hex die stock, (1) 1-7/16" hex die stock, (1) #5 screwdriver, (1) screw pitch gauge	1	Plastic
B44716	77	Plug taps: (1) 4-40, (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20, (1) 9/16-12, (1) 9/16-18, (1) 5/8-11, (1) 5/8-18, (1) 3/4-10, (1) 3/4-16, (1) 7/8-9, (1) 7/8-14, (1) 1-8, (1) 1-12; pipe taps: (1) 1/8-27, (1) 1/4-18, (1) 3/8-18, (1) 1/2-14	1" hex dies: (1) 4-40, (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20; 1-7/16" hex dies: (1) 1/4-18, (1) 1/2-13, (1) 1/2-20, (1) 9/16-12, (1) 9/16-18, (1) 5/8-11, (1) 5/8-18, (1) 3/4-10, (1) 3/4-16; 1-7/8" hex dies: (1) 7/8-9; (1) 7/8-14; (1) 1-8; (1) 1-12; 1-7/8" pipe dies: (1) 3/8-18, (1) 1/2-14	Spiral screw extractors #1-7, (1) #5 screwdriver, (1) tap wrench 1/4-1/2, (1) screw pitch gauge, (1) 1" hex die stock, (1) 1-7/16" hex die stock, (1) 1-7/8" hex die stock, (1) T-handle wrench 0-1/4, (1) T-handle wrench 1/4-1/2, (1) tap and die chart	1	Plastic
B44717	40	Plug taps: (1) 4-40, (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20; pipe tap: (1) 1/8-27	1" hex dies: (1) 4-40, (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20; pipe die: (1) 1" 1/8-27	(1) #5 screwdriver, (1) screw pitch gauge, (1) 1" hex die stock, (1) T-handle wrench 0-1/4, (1) T-handle wrench 1/4-1/2, (1) tap wrench 1/4-1/2	1	Plastic
B44718	40	Plug taps: (1) 3mm × .50, (1) 3mm × 0.60, (1) 4mm × 0.70, (1) 4mm × 0.75, (1) 5mm × 0.80, (1) 5mm × 0.90, (1) 6mm × 1.00, (1) 7mm × 1.00, (1) 8mm × 1.25, (1) 9mm × 1.00, (1) 9mm × 1.25, (1) 10mm × 1.25, (1) 10mm × 1.50, (1) 11mm × 1.50, (1) 12mm × 1.50, (1) 12mm × 1.75; BSP pipe tap: (1) 1/8-28	1" hex dies: (1) 3mm × .50, (1) 3mm × .60, (1) 4mm × .70, (1) 4mm × .75, (1) 5mm × .80, (1) 5mm × .90, (1) 6mm × 1.00, (1) 7mm × 1.00, (1) 8mm × 1.25, (1) 9mm × 1.00, (1) 9mm × 1.25, (1) 10mm × 1.25, (1) 10mm × 1.50, (1) 11mm × 1.50, (1) 12mm × 1.50, (1) 12mm × 1.75, (1) 1/8-28 BSP	(1) #5 screwdriver, (1) screw pitch gauge, (1) 1" hex die stock, (1) T-handle wrench 0-1/4, (1) T-handle wrench 1/4-1/2, (1) tap wrench 1/4-1/2	1	Plastic



**TAPS AND DIES**

## TAP AND DIE ACCESSORIES (BULK)



Item #	Description	# Pieces/Pack	Order in Multiples of
395908	3/8" square drive T-handle tap wrench	1	5
95893	Tap and reamer wrench, 1/4-3/4"	1	5
B44719	Tap and reamer wrench, 1/2-1-1/8"	1	1
95930	Die stock, solid, 1"	1	5
95934	Die stock adjustable, 1-7/16" hex dies	1	5
95951	Screw pitch gauge, US thread, 10-40"	1	5
95952	Screw pitch gauge, metric	15	5

# HIGH-SPEED STEEL PLUG TAPS AND HEX DIES

## HIGH-SPEED STEEL PLUG TAPS

- ▶ Abrasion and heat resistant for longer life
- ▶ Provides accuracy for tighter tolerances



## HIGH-SPEED STEEL HEX DIES

- ▶ Abrasion and heat resistant for longer life
- ▶ Provides accuracy for tighter tolerances



Item #	Size and Thread	Thread Standard	Corresponding Drill Size (if applicable)	# Pieces/Pack	Order in Multiples of
396401	6-32	NC	#36	1	5
396402	8-32	NC	#29	1	5
396403	10-24	NC	#25	1	5
396404	10-32	NF	#21	1	5
396405	12-24	NC	#16	1	5
396410	1/4-20	NC	#7	1	5
396411	1/4-28	NF	#3	1	5
396412	5/16-18	NC	F	1	5
396413	5/16-24	NF	I	1	5
396414	3/8-16	NC	5/16"	1	5
396415	3/8-24	NF	Q	1	5
396416	7/16-14	NC	U	1	5
396417	7/16-20	NF	25/64"	1	5
396418	1/2-13	NC	27/64"	1	5
396419	1/2-20	NF	29/64"	1	5
396420	9/16-12	NC	31/64"	1	5
396421	9/16-18	NF	33/64"	1	5
396422	5/8-11	NC	17/32"	1	5
396423	5/8-18	NF	37/64"	1	5
396424	3/4-10	NC	21/32"	1	5
396425	3/4-16	NF	11/16"	1	5
396430	1/8-27	NPT	—	5	5
396431	1/4-18	NPT	—	5	5

Item #	Size and Thread	Width Across Flat	Thread Standard	# Pieces/Pack	Order in Multiples of
396450	4-40	1"	NC	1	5
396451	6-32	1"	NC	1	5
396452	8-32	1"	NC	1	5
396453	10-24	1"	NC	1	5
396454	10-32	1"	NF	1	5
396455	12-24	1"	NC	1	5
396458	1/8-27	1"	NPT	1	5
396460	1/4-20	1"	NC	1	5
396461	1/4-28	1"	NF	1	5
396462	5/16-18	1"	NC	1	5
396463	5/16-24	1"	NF	1	5
396464	3/8-16	1"	NC	1	5
396465	3/8-24	1"	NF	1	5
396466	7/16-14	1"	NC	1	5
396467	7/16-20	1"	NF	1	5
396468	1/2-13	1"	NC	1	5
396469	1/2-20	1"	NF	1	5
396459	1/4-18	1-7/16"	NF	1	5
396470	9/16-12	1-7/16"	NC	1	1
396471	9/16-18	1-7/16"	NF	1	1
396472	5/8-11	1-7/16"	NC	1	1
396473	5/8-18	1-7/16"	NF	1	1
396474	3/4-10	1-7/16"	NC	1	1
396475	3/4-16	1-7/16"	NF	1	1
396478	1/2-13	1-7/16"	NC	1	1
396479	1/2-20	1-7/16"	NF	1	1

TAPS AND DIES

## HIGH-SPEED STEEL TAP AND DIE SETS

Item #	# of Pieces	Includes (taps)	Includes (dies)	Includes (handle and accessories)	Order in Multiples of	Case Type
396502	58	Plug taps: (1) 6-32, (1) 8-32, (1) 10-24, (1) 10-32, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/2-13, (1) 1/2-20, (1) 9/16-12, (1) 9/16-18, (1) 5/8-11, (1) 5/8-18, (1) 3/4-10, (1) 3/4-16; pipe tap: (1) 1/8-27, (1) 1/4-18	1" hex dies: (1) 6-32, (1) 8-32, (1) 10-24, (1) 12-24, (1) 1/4-20, (1) 1/4-28, (1) 5/16-18, (1) 5/16-24, (1) 3/8-16, (1) 3/8-24, (1) 7/16-14, (1) 7/16-20, (1) 1/8-27; 1-7/16" hex dies: (1) 1/2-13, (1) 1/2-20, (1) 9/16-12, (1) 9/16-18, (1) 5/8-11, (1) 5/8-18, (1) 3/4-10, (1) 3/4-16, (1) 1/4-18	Spiral screw extractors #1-5; (1) tap wrench 1/4-1/2; (1) tap wrench 1/2-3/4; (1) T-handle wrench 0-1/4; (1) 1" hex die stock; (1) 1-7/16" hex die stock	1	Plastic