

# CUTTING TOOLS



## TAP & DRILL SETS

### 18 PC BLUE WIZARD

- Premium high speed steel
- Metal case

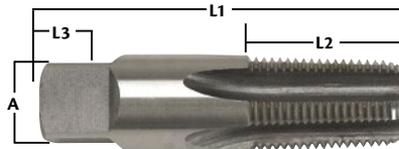


## CLARKSON OSBORN

NC (National Coarse) Model No. BG080 contains		NF (National Fine) Model No. BG078 contains		Metric Model No. BG079 contains	
Tap	Drill	Tap	Drill	Tap mm	Drill mm
#6-32	#36	#6-40	#33	2.5 x .45	2.05
#8-32	#29	#8-36	#29	3.0 x .5	2.5
#10-32	#21	#10-32	#21	3.5 x .6	2.9
#12-24	#16	#12-28	#15	4.0 x .7	3.3
1/4-20	#7	1/4-28	#3	5.0 x .8	4.2
5/16-18	F	5/16-24	#1	6.0 x 1	5
3/8-16	5/16	3/8"-24	Q	8.0 x 1.25	6.7
7/16-14	U	7/16	25/64	10.0 x 1.5	8.5
1/2-13	27/64	1/2-20	29/64	12 x 1.75	10
Price/Each \$		Price/Each \$		Price/Each \$	

## PIPE TAPS

- High speed steel, ground threads
- Square drive shank
- Right hand cutting direction



## CLARKSON OSBORN

### WARWICK NPT (NATIONAL PIPE THREAD) TAPS

#### Applications:

For tapping tapered pipe threads. This is the most common of all pipe tap styles. The tapered thread form creates a pressure-tight joint when used with a sealant.

Model No	NPT Size	L2"	L1"	L3"	A"	Flutes	Price /Each
BD944	1/16-27	11/16	2 1/8	3/8	0.234	3	
QD610	1/8-27	3/4	2 1/8	3/8	0.328	3	
QD611	1/4-18	1 1/16	2 7/16	7/16	0.421	5	
QD612	3/8-18	1 1/16	2 9/16	1/2	0.531	5	
BD946	1/2-14	1 3/8	3 1/8	5/8	0.515	5	
BD947	3/4-14	1 3/8	3 1/4	11/16	0.679	5	
BD948	1-11.5	1 3/4	3 3/4	13/16	0.843	5	
BD949	1 1/4-11.5	1 3/4	4	15/16	0.984	7	
BD950	1 1/2-11.5	1 3/4	4 1/4	1	1.125	7	
BD951	2-11.5	1 3/4	4 1/2	1 1/8	1.406	7	

### WARWICK NPTF (DRYSEAL NATIONAL PIPE THREAD) TAPS

HSS taper pipe taps are designed for tapping ferrous and non-ferrous fittings used to connect pipes carrying fluids or gases and other places where very tight fits are needed. NPTF taper thread pipe taps do not require sealants. Dryseal is attained by metal to metal contact.

### WARWICK NPTI (INTERRUPTED NATIONAL PIPE THREAD) TAPS

#### Application:

HSS interrupted thread pipe taps are designed for tapping soft or tough stringy metals that tend to load threads with chips. Interrupted thread pipe taps start with a few full threads and then have every other thread removed along the thread helix to provide more chip space, better lubrication, and to reduce drag.

### WARWICK NPTS (STRAIGHT NATIONAL PIPE THREAD) TAPS

#### Application:

HSS straight thread pipe taps (NPTS) are designed for tapping holes or couplings for low pressure work that will adjust at assembly to the taper of external threads. A sealant must be used to secure a pressure-tight joint.