

CUTTING TOOLS



STEP DRILL BIT SET

- Dual-flute design provides greater speed and control means a jam-free performance
- Rapid Strike™ Tip creates fast, accurate starts and generates less heat
- **Includes:**
 - #4 Step drill bit (3/16" - 7/8" by 1/16")
 - #2 Step drill bit (3/16" - 1/2" by 1/16")
 - #1 Step drill bit (1/8" - 1/2" by 1/32")



Model No.	Mfg. No.	No. of Pieces	Material	Price /Each
TYE901	48-89-9221	3	High Speed Steel	

STEP DRILL BIT SET

- Dual-flute design provides greater speed and control means a jam-free performance
- Rapid Strike™ Tip creates fast, accurate starts and generates less heat
- **Includes:**
 - (1) #7 Step drill bit (7/8" single hole)
 - (1) #4 Step drill bit (3/16" - 7/8" by 1/16")
 - (1) #12 Step drill bit (7/8" - 1-3/8")
 - (1) #1 Step drill bit (1/8" - 1/2" by 1/32")
 - (1) Carrying case



Model No.	Mfg. No.	No. of Pieces	Material	Price /Each
TYE903	48-89-9223	4	High Speed Steel	

STEP DRILL BIT SET

- Dual-flute design provides greater speed and control means a jam-free performance
- Rapid Strike™ Tip creates fast, accurate starts and generates less heat
- **Includes:**
 - (1) #9 Step drill bit (7/8" & 1-1/8"),
 - (1) #8 Step drill bit (1/2" - 1" by 1/16")
 - (1) #7 Step drill bit (7/8" single hole)
 - (1) #6 Step drill bit (3/8" - 1/2" by 1/16")
 - (1) #4 Step drill bit (3/16" - 7/8" by 1/16")
 - (1) #1 Step drill bit (1/8" - 1/2" by 1/32")
 - (1) Carrying case



Model No.	Mfg. No.	No. of Pieces	Material	Price /Each
TYE904	48-89-9224	6	High Speed Steel	

SHOCKWAVE™ IMPACT DUTY™ STEP DRILL BIT SET

- **Includes:**
 - #1 Shockwave™ Impact Duty™ drill bit,
 - #2 Shockwave™ Impact Duty™ drill bit,
 - #4 Shockwave™ Impact Duty™ drill bit



Model No.	Mfg. No.	No. of Pieces	Material	Price /Each
TCR722	48-89-9254	3	Titanium	

COMBINED DRILLS & COUNTERSINKS

- Solid carbide 10% cobalt
- Right-hand cut
- Each drill has 2 hole diameters
- 118° angle point
- 60° countersink angle
- Bright finish

CLARKSON  OSBORN



Applications:
Designed to produce accurate centre holes in components which require machining between centres.

Model No.	Size No.	Small Dia.™	Large Dia.™	Overall Length™	Price /Each
BK813	00	1/32	1/8	1 1/2	
BK820	0	0.025	1/8	1 1/2	
BK814	1	3/64	1/8	1 1/2	
BK815	2	5/64	3/16	1 7/8	
BK816	3	7/64	1/4	2	
BK817	4	1/8	5/16	2 1/8	
BK818	5	3/16	7/16	2 3/4	
BK819	6	7/32	1/2	3"	

MULTI-STEP DRILL BIT SET

 **WALTER**
Surface Technologies

- Special AlCrN coating provides additional toughness and wear-resistance to prolong tooling life
- 2 wide, cylindrical flutes eliminate chip build-up for faster drilling and produce holes with minimum vibration or distortion
- Each shank has three flats for easy mounting
- Perfect for cutting or enlarging holes in sheet material
- Special bronze SST heat and surface treatment
- **Includes:**
 - (1) 13 step from 1/8" to 1/2"
 - (1) 12 step from 3/16" to 7/8"
 - (1) 10 step from 1/4" to 1-3/8"



Model No.	Mfg. No.	No. of Pieces	Material	Price /Each
TC0443	01W951	3	High Speed Steel	

STEP DRILLS

- High speed steel
- Bright finish

CLARKSON  OSBORN

Applications:
Stepped cone design provides better control of hole sizes in materials up to 1/8" thick. One step drill does job of up to 13 different size drills. Holes are automatically deburred by cutting edge of next larger size. Ideal for sheet metal and hole-enlarging work.

TJZ800



Model No.	Description	Price/Each
TJZ800	Step drill 3-piece set – contains #1, #2 and #3 step drills in plastic case	

Model No.	Size No.	# of holes	Range from - to	Increments	Price /Each
TJZ795	1	13	1/8 to 1/2	1/32	
TJZ796	2	6	3/16 to 1/2	1/16	
TJZ797	3	9	1/4 to 3/4	1/16	
TJZ798	4	12	3/16 to 7/8	1/16	
TJZ799	5	10	1/4 to 1 3/8	1/8	

STEP DRILL BIT

- Flute Type: Straight



TYE890



TYE900



Model No.	Mfg. No.	Description	Shank Size™	Min. Drill Size™	Max. Drill Size™	Price /Each
TYE890	48-89-9201	#1	1/4	1/8	1/2	
TYE893	48-89-9204	#4	3/8	7/8	3/16	
TYE894	48-89-9205	#5	3/8	1/4	1-3/8	
TYE898	48-89-9209	#9	3/8	7/8	1-1/8	
TYE900	48-89-9212	#12	3/8	7/8	1-3/8	