



## Counterbore Pilots

Precision Ground (continued)

Pilot Diameter (Inch)	Shank Diameter (Inch)							
	3/32	5/32	3/16	1/4	5/16	3/8	7/16	1/2
	Code	Code	Code	Code	Code	Code	Code	Code
11/16	-	-	-	311628	311644	311665	311688	311714
23/32	-	-	-	311629	311645	311666	311689	-
3/4	-	-	-	311630	311646	311667	311690	311715
25/32	-	-	-	311631	311647	311668	311691	311716
13/16	-	-	-	311632	311648	311669	311692	311717
7/8	-	-	-	311633	311649	311670	311693	311718
29/32	-	-	-	-	311650	311671	311694	311719
15/16	-	-	-	-	311651	311672	311695	311720
31/32	-	-	-	-	311652	311673	311696	311721
1	-	-	-	-	311653	311674	311697	311722
1-1/16	-	-	-	-	311654	311675	311698	311723
1-1/8	-	-	-	-	311655	311676	311699	311724
1-3/16	-	-	-	-	-	311677	311700	311725
1-1/4	-	-	-	-	-	311678	311701	311726
1-5/16	-	-	-	-	-	311679	311702	311727
1-3/8	-	-	-	-	-	311680	311703	311728
1-7/16	-	-	-	-	-	311681	311704	-
1-1/2	-	-	-	-	-	-	311705	311730
1-9/16	-	-	-	-	-	-	311706	311731
1-5/8	-	-	-	-	-	-	311707	311732
1-11/16	-	-	-	-	-	-	311708	311733
1-3/4	-	-	-	-	-	-	311709	311734
1-13/16	-	-	-	-	-	-	-	311735
1-7/8	-	-	-	-	-	-	-	311736
1-15/16	-	-	-	-	-	-	-	311737
2	-	-	-	-	-	-	-	311738

## Indexable Counterbores

### Carbide – For Sockethead Cap Screw Holes

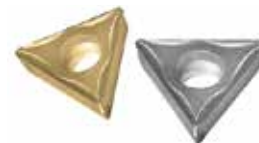
- Significant increase in cutting speeds over high speed steel
- No regrinding
- One carbide insert fits all size holders
- Outlasts high speed on abrasive materials
- No clamps to impede chip flow
- C5/C6 carbide insert and Torx® wrench included with each tool

### HOLDERS & SETS



### Carbide TPGH Inserts

- Triangle – positive rake
- Ground all over
- Chip groove on one side



Cap Screw Size (Inch)	Pilot Diameter (Inch)	Outer Diameter (Inch)	Shank Diameter (Inch)	Overall Length (Inch)	No. of Flutes	Code
3/8	13/32	19/32	1/2	4-3/8	1	311032
7/16	15/32	11/16	1/2	4-7/16	1	311033
1/2	17/32	25/32	5/8	4-1/2	1	311034
5/8	21/32	31/32	5/8	4-5/8	2	311035
3/4	13/16	1-3/16	3/4	4-3/4	3	311036
7/8	15/16	1-3/8	3/4	4-7/8	3	311038
1	1-1/16	1-9/16	3/4	5	3	311038

Type	Radius (Inch)	I.C. (Inch)	Thickness (Inch)	Code
C2 Carbide	1/64	1/4	3/32	577459
C5 Carbide	1/64	1/4	3/32	577461
TiN Coated	0.008	1/4	3/32	210357
TiN Coated	1/64	1/4	3/32	577463

### Replacement Screw

Description	Code
Torx® 6 screw for 1/4 inserts	577457

**SETS** – 4 Pieces – 3/8", 7/16", 1/2", 5/8", Torx® wrench Supplied in wooden block 311039

**SETS** – 3 Pieces – 3/4", 7/8", 1", Torx® wrench Supplied in wooden block 311040