

CARBIDE TIPPED UNIVERSAL DRILLS

ICS

WIS

HEAVY DUTY

PERCUSSION DRILL POINT



Carbide Tipped Universal Drills are designed with a diamond ground special drill point for multi-purpose drilling. It is highly effective for drilling hard metals and alloys, reinforced concrete, stone, tile, ceramics, marble, granite, glass, hard and soft woods, plastics and many other difficult materials. Often used to drill out broken taps and hardened bolts. They are also known as Carbide Tipped Multi-Purpose Drills or Carbide Tipped Utility Drills.

| ITEM NO. | SIZE x LENGTH | SHANK SIZE | PRICE |
|---------------|---------------|------------|--------|
| CTUD 008 | 1/8 x 3 | 1/8 | \$7.62 |
| CTUD 008 x 12 | 1/8 x 12 | 1/8 | 12.10 |
| CTUD 010 | 5/32 x 3-1/8 | 5/32 | 8.52 |
| CTUD 012 | 3/16 x 3-1/2 | 3/16 | 8.12 |
| CTUD 012 x 12 | 3/16 x 12 | 3/16 | 12.66 |
| CTUD 014 | 7/32 x 3-3/4 | 7/32 | 8.52 |
| CTUD 016 x 04 | 1/4 x 4 | 1/4 | 14.42 |
| CTUD 016 x 06 | 1/4 x 6 | 1/4 | 14.42 |
| CTUD 016 x 12 | 1/4 x 12 | 1/4 | 14.42 |
| CTUD 018 | 9/32 x 4-1/4 | 1/4 | 9.60 |
| CTUD 020 | 5/16 x 4-1/2 | 1/4 | 10.18 |
| CTUD 020 x 06 | 5/16 x 6 | 1/4 | 10.32 |
| CTUD 022 | 11/32 x 5 | 1/4 | 11.38 |
| CTUD 024 | 3/8 x 5 | 3/8 | 12.16 |
| CTUD 024 x 12 | 3/8 x 12 | 3/8 | 21.74 |

| ITEM NO. | SIZE x LENGTH | SHANK SIZE | PRICE |
|---------------|---------------|------------|---------|
| CTUD 026 | 13/32 x 6 | 3/8 | \$13.76 |
| CTUD 026 x 12 | 13/32 x 12 | 3/8 | 25.76 |
| CTUD 028 | 7/16 x 6 | 3/8 | 16.22 |
| CTUD 028 x 12 | 7/16 x 12 | 3/8 | 28.22 |
| CTUD 030 | 15/32 x 6 | 3/8 | 20.34 |
| CTUD 030 x 12 | 15/32 x 12 | 3/8 | 32.34 |
| CTUD 032 | 1/2 x 6 | 3/8 | 25.24 |
| CTUD 032 x 12 | 1/2 x 12 | 3/8 | 37.64 |
| CTUD 036 | 9/16 x 6 | 3/8 | 28.64 |
| CTUD 036 x 16 | 9/16 x 16 | 3/8 | 61.68 |
| CTUD 040 | 5/8 x 6 | 3/8 | 36.26 |
| CTUD 048 | 3/4 x 6 | 3/8 | 49.82 |
| CTUD 048 x 16 | 3/4 x 16 | 1/2 | 87.08 |
| CTUD 056 | 7/8 x 6 | 1/2 | 61.00 |
| CTUD 100 | 1 x 6 | 1/2 | 63.80 |

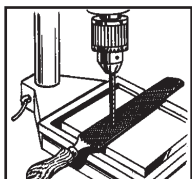
CARBIDE TIPPED UNIVERSAL DRILL SET

METAL INDEX

| | ITEM NO. | SIZES | PRICE |
|------------------------------|-----------|--|----------|
| <p>7 PC DRILL SET</p> | DS-CTUD-7 | 7 pc Carbide Tipped Universal Drill Set contains 1 each: 1/8, 3/16, 1/4, 5/16, 3/8, 7/16, 1/2 | \$100.72 |

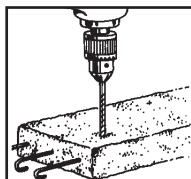
HOW TO USE UNIVERSAL DRILLS

HARDENED STEEL & CAST IRON



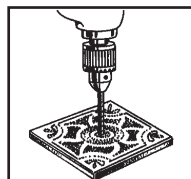
Hardened Steel and Cast Iron: Use a hard base. Use of coolant liquid will extend life of drill bit. Hand drill or drill press – 2,000 RPM minimum – EXCEPT tempered steel – use with drill press only.

CONCRETE & GRANITE



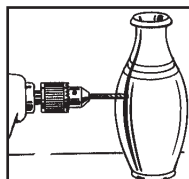
Concrete and Granite: Approximately 1,000 RPM with or without percussion. In the event of Rebar interface, continue drilling without percussion at highest drill speed.

CERAMIC TILE & MARBLE



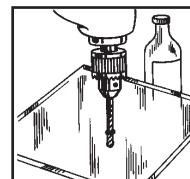
Ceramic Tile and Marble: No need to score or punch for hole position. Simply set bit to hole location and apply moderate pressure at approx. 1,000 RPM. No percussion necessary.

PORCELAIN & BAKED CERAMIC



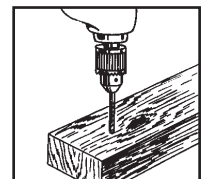
Porcelain and Baked Ceramic: Use slow speeds on variable speed drill and use a liquid coolant. Use sharp bit for clean, accurate cut.

GLASS, CRYSTAL & MIRROR



Glass, Crystal, and Mirror: These surfaces require slow speed and light pressure. Manual, hand drill recommended or very slow speeds on variable speed drill. Must be cooled – use turpentine, light oil or water. For flat materials, drill on clean, flat base and drill from both sides to minimize chipping.

WOODS & PLASTICS



Woods and Plastics: Any speed; can use hand drill or drill press.