



With SmoothStart™ Pilot



Carbide Tipped Hole Cutters

- SmoothStart™ pilot drill prevents carbide damage by gradually guiding cutter to material.
- Precision ground carbide teeth for fast cutting of clean, round holes.
- Designed specifically for sheet metal cutting, even stainless steel
- Over drill flange built in to prevent penetration beyond the sheet metal



The efficient and precise alternative to knockouts and hole saws for stainless steel and sheet metal

Carbide Tipped Hole Cutters



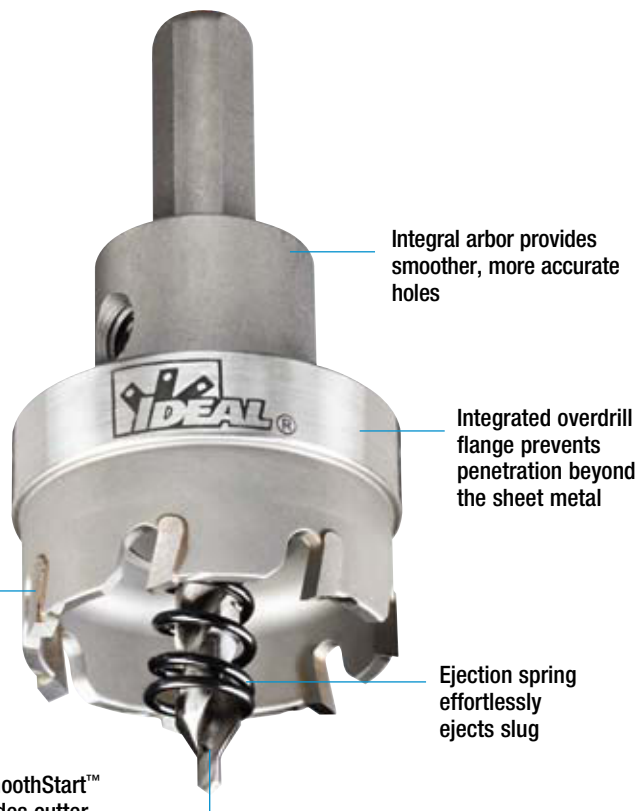
Quickly drills precise holes without penetration beyond sheet metal.

Introducing the new **TKO™** carbide tipped hole cutters from IDEAL INDUSTRIES, INC. TKO cutters offer the most efficient and clean cutter replacement for traditional knockouts, by making smooth holes in a fraction of the time at a fraction of the cost. Specifically designed to cut sheet metal, TKO cutters will even cut stainless steel with fine grained, carbide tips. The innovative design includes the exclusive SmoothStart™ replaceable pilot drill, which guides the cutter to the surface, avoiding cutter damage and providing smoother holes. An integral overdrill flange prevents cutter penetration beyond the sheet metal. When it comes to quality, performance and durability, IDEAL is the professional's choice for carbide tipped hole cutters.



Carbide tips cut over 200 holes through stainless steel, and outperform HSS cutters and bi-metal hole saws in sheet steel

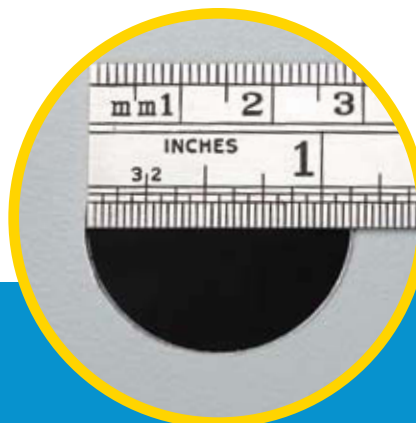
Exclusive SmoothStart™ pilot drill guides cutter to surface providing smoother holes and avoiding cutter damage



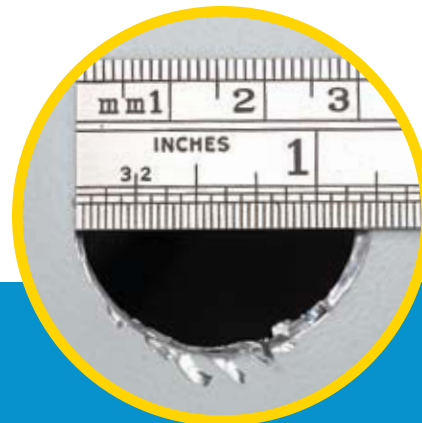
Integral arbor provides smoother, more accurate holes

Integrated overdrill flange prevents penetration beyond the sheet metal

Ejection spring effortlessly ejects slug



IDEAL TKO™



Competitor



With SmoothStart™ Pilot

IDEAL provides smoother, more precise hole than competitors (holes cut with 1 1/8" cutters)



Integrated overdrill flange prevents penetration beyond the sheet metal.

Master Electrician's Kit

Includes cutters for all conduit sizes from 1/2" to 2" conduit along with two spare SmoothStart™ pilot bits and a convenient carrying case



Cat. No.	Description
36-314	Master Electrician's Kit—Includes: Two SmoothStart™ Replacement Tips, 7/8", 1 1/8", 1 3/8", 1 3/4", 2", and 2 1/2"

4 Piece Kit

Includes the 3 most common sizes, along with a spare SmoothStart™ pilot bit and a convenient carrying case.



Cat. No.	Description
36-311	4 Pc. Carbide Hole Cutter Kit—Includes: SmoothStart™ Replacement Tip, 7/8", 1 1/8", 1 3/8"



Available in a full range of sizes from 3/4" to 4 1/2".

Carbide Tipped Hole Cutters

P/N	Hole Size (Inches)	Conduit and Pipe Size
36-300	3/4"	—
36-301	7/8"	1/2" & 22mm pushbutton
36-302	1"	—
36-303	1-1/8"	3/4"
36-313	1-7/32"	30mm pushbutton
36-304	1-1/4"	—
36-305	1-3/8"	1"
36-306	1-7/16"	—
36-307	1-1/2"	—
36-308	1-3/4"	1-1/4"
36-309	2"	1-1/2"
36-310	2-1/2"	2"
36-315	2-7/8"	2-1/2"
36-316	3-1/2"	3"
36-317	4"	3-1/2"
36-318	4-1/2"	4"

SmoothStart™ Replacement Pilot Drill



Cat. No.	Description
36-312	1 Pc. SmoothStart™ Replacement Pilot Drill

Exclusive! SmoothStart™ pilot guides cutter to surface providing smoother holes and avoiding cutter damage.



See How IDEAL  **Can Save Time...**
With **SmoothStart™ Pilot**

		<p>Total time using the IDEAL TKO™</p> <p>30 Seconds</p>
<p>Chuck Cutter</p> <p>00:10</p>	<p>Drill Hole & Store</p> <p>00:30</p>	

Compared to the Competitor...

		<p>Total time using the competitor's knock-out tool</p> <p>More than 6 Minutes</p>
<p>Chuck Step Drill</p> <p>00:10</p>	<p>Drill Pilot Hole</p> <p>00:30</p>	
		
<p>Assemble knockout punch & stud pull</p> <p>02:00</p>	<p>Ratchet</p> <p>04:20</p>	