

Milwaukee®

Nothing but **HEAVY DUTY.**™



**NEW**  
**MILWAUKEE®**  
**KNOCKOUT SYSTEM**

## Mild Steel



## Stainless Steel



**90% of enclosures installed will be mild steel. However, sites which require additional cleanliness, contain higher levels of moisture, or have outdoor gear boxes may require stainless steel enclosures. The same electrician who is punching mild steel will also be punching stainless steel.**

# Hole Capacity

Users qualify knockout tools based on its ability to cut the size hole they need, in the type of metal they encounter.

Competitors



## Problems

- ❑ Common competitive tools require slow repetitive pumping
- ❑ Relevant cordless units are underpowered for 4" holes
- ❑ Competitive punch and die sets are designed for EITHER mild or stainless steel

## Solution

Milwaukee®



- ✓ Milwaukee FORCELOGIC™ M18™ 10 Ton Knockout punches 4" holes in BOTH 10 gauge mild and 12 gauge stainless steel with ease
  - ✓ No repetitive pumping
  - ✓ Stainless boxes won't damage dies
  - ✓ Powerful enough for nearly all applications

# Hole Quality

A mounted panel is one of the most visible pieces of an electrical contractor's work. Users spend painstaking time and effort to make rows of conduit look neat and orderly as an indication of overall craftsmanship on the job.

## Problems

Competitors



- ❑ Barely visible alignment markings make it difficult to punch accurately



- ❑ Fighting the weight of the tool during the alignment process is awkward and time consuming

## Solutions

Milwaukee®



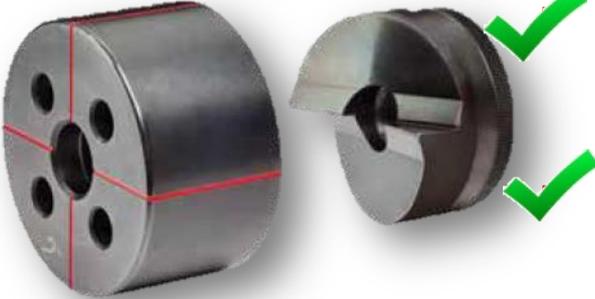
- ✓ Bold crosshairs aid in alignment and accelerate set-up



- ✓ Milwaukee® Quick Connect Alignment System enables the user to set-up with the smallest pieces

# Ease of Use

Users have been neglected by current manufacturers on ease of use. Knockouts traditionally are big, archaic tools, while punches and dies are not versatile or user friendly.

		Problems	
Competitors		<ul style="list-style-type: none"> <li>❑ Sizes are not easily identified</li> <li>❑ May require spacers and draw stud adaptors</li> </ul>	 <ul style="list-style-type: none"> <li>❑ Metal slugs can get jammed in the die</li> </ul>
	Solutions		
Milwaukee®		<ul style="list-style-type: none"> <li>✓ Sizes are immediately recognizable</li> <li>✓ No spacers or adaptors needed</li> </ul>	 <ul style="list-style-type: none"> <li>✓ Punches and dies are optimized to limit jams</li> <li>✓ Slug removal ports aid in rare jam situations</li> </ul>

## The Easiest Way to Punch



**Best Foundation:** Exact™ Punches and Dies Provide Clearest Alignment in Both Mild and Stainless Steel



**Easiest Set-Up:** Quick Connect Alignment System Enables You to Set-Up Without the Weight of the Tool



**Complete Solution:** Power for 4" holes in Both Mild and Stainless Steel

## FORCELOGIC™ M18™ 10 Ton Knockout Tool

### Features and Benefits:

- **Powerful Hydraulic System**
  - Delivers 4" punching ability in both 10 gauge mild steel and 12 gauge stainless steel
- **Quick Connect Alignment System**
  - Delivers the easiest set-up
  - Speeds up repetitive punching
  - Enables clearest view of the work surface
- **Compact Right Angle Design**
  - Allows access into tight spaces
- **Compatibility**
  - Works with all major brands of punches & dies



### 4" Stainless Capacity



### Quick Connect



### Right Angle Design



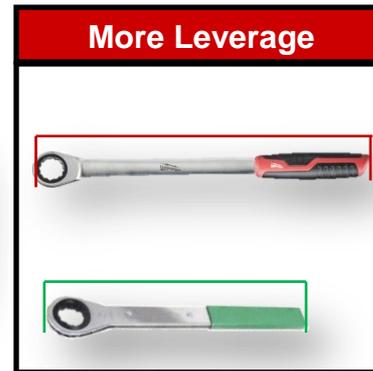
### Compatibility



## EXACT™ 1/2" to 2" Hand Ratchet Knockout Set

### Features and Benefits:

- **5° Ratcheting**
  - Requires less clearance to punch
- **EXACT™ Punches and Dies**
  - Easiest alignment and superior durability
- **20% Longer Handle**
  - Provides more punching leverage
- **Rugged Overmold Handle**
  - Delivers superior comfort & grip



## EXACT™ Punches & Dies

### Features and Benefits:

- **Bold Crosshairs**
  - Clearest alignment in both mild and stainless steel
- **Large Size ID**
  - Fastest, most accurate selection of punches & dies
- **Slug Removal**
  - Optimal slug removal (splitting and standard)
  - Screwdriver ports in case of a jam
- **Simplicity**
  - Compatible with competitive knockout tools
  - Rated for both mild & stainless steel
  - No spacers needed



## M18™ FORCE LOGIC™ Knockout Tool Models



### M18™ FORCE LOGIC™ 10 Ton Knockout Tool 2676-20

**Includes:** 7/16" Draw Stud, 3/4" Draw Stud, Quick Connect Alignment System, Adapter, (2) M18™ REDLITHIUM™ XC Extended Capacity Battery Packs, M18™ and M12™ Multi-Voltage Charger, and Carrying Case

### M18™ FORCE LOGIC™ 10 Ton Knockout Tool Kit with 1/2" to 2" Punches and Dies 2676-22

**Includes:** 7/16" Draw Stud, 3/4" Draw Stud, Quick Connect Alignment System, EXACT™ 1/2" to 2" Conduit Punches and Dies, (2) M18™ REDLITHIUM™ XC Extended Capacity Battery Packs, M18™ and M12™ Multi-Voltage Charger, and Carrying Case

### M18™ FORCE LOGIC™ Knockout Tool Kit with 1/2" to 4" Punches and Dies 2676-23

**Includes:** 7/16" Draw Stud, 3/4" Draw Stud, 1-1/8" Draw Stud, Quick Connect Alignment System, EXACT™ 1/2" to 4" Conduit Punches and Dies, (2) M18™ REDLITHIUM™ XC Extended Capacity Battery Packs, M18™ and M12™ Multi-Voltage Charger, and Carrying Case

## Hand Ratchet & Accessory Sets



### EXACT™ 1/2" to 2" Hand Ratchet Knockout Set 49-16-2694

**Includes:** Wrench, 3/8" and 3/4" Ball Bearing Draw Studs, EXACT™ 1/2" to 2" Conduit Punches and Dies, Grease Tube, and Carrying Case

### EXACT™ 1/2" to 1-1/4" Knockout Set 49-16-2692

**Includes:** 3/8" and 3/4" Ball Bearing Draw Studs, EXACT™ 1/2" to 1-1/4" Conduit Punches and Dies, and Carrying Case

### EXACT™ 1/2" to 2" Knockout Set 49-16-2693

**Includes:** 7/16" and 3/4" Draw Studs, EXACT™ 1/2" to 2" Conduit Punches and Dies, and Carrying Case

### EXACT™ 2-1/2" to 4" Knockout Set 49-16-2695

**Includes:** 1-1/8" Draw Stud, EXACT™ 2-1/2" to 4" Conduit Punches and Dies, and Carrying Case



Model #	Description	UPC	Buy In Quantity	Heavy Duty	50 Off	List	IMAP	MAP %
2676-20	FORCELOGIC™ M18™ 10-Ton Knockout Tool Kit	0045242324606	1	\$ 1,011.50	\$ 1,065.00	\$ 2,130.00	\$ 1,349.00	25%
2676-22	FORCELOGIC™ M18™ 10-Ton Knockout Tool 1/2" to 2" Kit	0045242324712	1	\$ 1,161.50	\$ 1,223.00	\$ 2,446.00	\$ 1,549.00	25%
2676-23	FORCELOGIC™ M18™ 10-Ton Knockout Tool 1/2" to 4" Kit	0045242324729	1	\$ 1,424.00	\$ 1,499.00	\$ 2,998.00	\$ 1,899.00	25%
49-16-2692	Milwaukee EXACT™ 1/2" to 1-1/4" Knockout Set	0045242311798	1	\$ 142.00	\$ 149.00	\$ 298.00	\$ 219.00	35%
49-16-2693	Milwaukee EXACT™ 1/2" to 2" Knockout Set	0045242311804	1	\$ 226.50	\$ 238.00	\$ 476.00	\$ 349.00	35%
49-16-2694	Milwaukee EXACT™ 1/2" to 2" Hand Ratchet Knockout Set	0045242311811	1	\$ 246.50	\$ 259.00	\$ 518.00	\$ 329.00	25%
49-16-2695	Milwaukee EXACT™ 2-1/2" to 4" Knockout Set	0045242311828	1	\$ 551.50	\$ 581.00	\$ 1,162.00	\$ 849.00	35%
49-16-2684	Large Die Adaptor	0045242337958	1	\$ 10.50	\$ 11.00	\$ 22.00	\$ 14.95	30%
49-16-2685	Die Spacer	0045242337965	1	\$ 10.50	\$ 11.00	\$ 22.00	\$ 14.95	30%
49-16-2680	7/16" Draw Stud	045242311774	1	\$ 18.00	\$ 19.00	\$ 38.00	\$ 33.00	45%
49-16-2681	3/4" Draw Stud	045242311781	1	\$ 18.00	\$ 19.00	\$ 38.00	\$ 33.00	45%
49-16-2682	1-1/8" Draw Stud	045242314843	1	\$ 18.00	\$ 19.00	\$ 38.00	\$ 33.00	45%
49-16-2621	3/8" Ball Bearing Draw Stud	045242311750	1	\$ 18.00	\$ 19.00	\$ 38.00	\$ 33.00	45%
49-16-2622	3/4" Ball Bearing Draw Stud	045242311767	1	\$ 18.00	\$ 19.00	\$ 38.00	\$ 33.00	45%

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Model #	Description	UPC	Buy In Quantity	Heavy Duty	50 Off	List	IMAP	MAP %
49-16-2660	1/2" Die	0045242312429	1	\$ 10.20	\$ 11.00	\$ 22.00	\$ 19.00	46%
49-16-2661	1/2" Punch	0045242312436	1	\$ 16.50	\$ 17.00	\$ 34.00	\$ 30.00	45%
49-16-2660S	1/2" Die Stainless Steel	0045242311606	1	\$ 10.20	\$ 11.00	\$ 22.00	\$ 19.00	46%
49-16-2661S	1/2" Punch Stainless Steel	0045242311613	1	\$ 16.50	\$ 17.00	\$ 34.00	\$ 30.00	45%
49-16-2662	3/4" Die	0045242324859	1	\$ 12.50	\$ 13.00	\$ 26.00	\$ 23.00	46%
49-16-2663	3/4" Punch	0045242324866	1	\$ 19.00	\$ 20.00	\$ 40.00	\$ 35.00	46%
49-16-2664	1" Die	0045242324873	1	\$ 15.50	\$ 16.00	\$ 32.00	\$ 29.00	47%
49-16-2665	1" Punch	0045242324880	1	\$ 24.50	\$ 26.00	\$ 52.00	\$ 45.00	46%
49-16-2666	1-1/4" Die	0045242324897	1	\$ 19.50	\$ 21.00	\$ 42.00	\$ 36.00	46%
49-16-2667	1-1/4" Punch	0045242311620	1	\$ 32.00	\$ 34.00	\$ 68.00	\$ 59.00	46%
49-16-2668	1-1/2" Die	0045242311637	1	\$ 25.00	\$ 26.00	\$ 52.00	\$ 46.00	46%
49-16-2669	1-1/2" Punch	0045242311644	1	\$ 41.00	\$ 43.00	\$ 86.00	\$ 75.00	45%
49-16-2670	2" Die	0045242311651	1	\$ 35.00	\$ 37.00	\$ 74.00	\$ 64.00	45%
49-16-2671	2" Punch	045242311668	1	\$ 54.00	\$ 57.00	\$ 114.00	\$ 99.00	45%
49-16-2672	2-1/2" Die	045242311675	1	\$ 48.50	\$ 51.00	\$ 102.00	\$ 89.00	46%
49-16-2673	2-1/2" Punch	045242324903	1	\$ 65.00	\$ 68.00	\$ 136.00	\$ 119.00	45%
49-16-2674	3" Die	045242311699	1	\$ 68.00	\$ 72.00	\$ 144.00	\$ 124.00	45%
49-16-2675	3" Punch	045242311705	1	\$ 103.50	\$ 109.00	\$ 218.00	\$ 189.00	45%
49-16-2676	3-1/2" Die	045242311712	1	\$ 109.00	\$ 115.00	\$ 230.00	\$ 199.00	45%
49-16-2677	3-1/2" Punch	045242311729	1	\$ 136.50	\$ 144.00	\$ 288.00	\$ 249.00	45%
49-16-2678	4" Die	045242311736	1	\$ 136.50	\$ 144.00	\$ 288.00	\$ 249.00	45%
49-16-2679	4" Punch	045242311743	1	\$ 164.00	\$ 173.00	\$ 346.00	\$ 299.00	45%

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**Q: Why does Milwaukee® offer 2 versions of the ½” punch and die (mild and stainless)?**

*A: The ½” punch and die for mild steel is intended for use with a hand ratchet, and is also a replacement for competitive ½” punches and dies. The SS version has a wider opening to support a thicker draw stud that will survive stainless steel punching and is for use with the FORCELOGIC™ M18™ 10 Ton Knockout.*

**Q: How many holes can you punch on a battery charge?**

*A: This data is dependent on the user and materials. However, run-time on the FORCELOGIC™ M18™ 10 Ton Knockout is substantial, with tests hitting over 170 holes per charge. (3”)*

**Q: Why do you need an adaptor for certain competitive punches and dies?**

*A: In order to eliminate spacers and make one set capable for mild and stainless steel, Milwaukee® chose design elements that optimize the tool for use with EXACT™ Punches and Dies. This means a design change away from some of the existing standards in the market, and drove the need for adaptors for cross compatibility.*

**Q: What is the maximum capacity of our hand ratchet?**

*A: 2” is the maximum capacity of our hand ratchet. It is recommended to use a lubricant when punching all sizes by hand.*

**Q: Why does the tool sometimes make a clicking noise when attempting to punch a hole?**

*A: The tool will make a clicking sound when the hydraulic ram has reached end of stroke and cannot travel any further. This is an audible indicator that you are done punching.*

**Q: What size punch and die do you use on the small/medium/large draw studs?**

*A: Small: ½” only. Medium: ¾” – 2”. Large: 2 ½” - 4”.*

**Q: How will this tool be serviced?**

*A: The FORCELOGIC™ M18™ 10 Ton Knockout must be sent to the below Milwaukee® factory service centers. E-Service applies:*

**Q: Is this tool a 30-day satisfaction guarantee tool?**

*A: No, to prevent misuse of this tool as a rented product, this tool will be repair only*

**Q: Is there a warranty for the punches and dies?**

*A: The punches and dies will be treated as an accessory, and will not carry a warranty*