

## Serious Solutions for Stuck Fasteners

Professionals all say the same thing. It's tough to get a good grip on a stuck fastener, a rounded or broken head, a snapped stud, or a stripped screw or fitting. IRWIN® Industrial Tools has the solution to deal with any of them. Five different styles of extractors give you extra gripping power to remove problem fasteners without damaging workpieces. For example, our innovative IRWIN BOLT-GRIP™ extractors make quick work of nightmare bolt and nut removal, whatever their condition.






## Remove the Guesswork in Fastener Extraction

Fasteners vary widely in composition and hardness. That's why IRWIN has many different products for removing damaged fasteners and parts. Each extraction tool is specifically designed to take into account the material involved and make removal easier. The guidelines below will help you choose the tool that will deliver the optimal results for your particular situation.

## Guide for Using Screw Extractors

Drill a hole in the threaded part of fastener to be removed. Drill deep enough for the extractor to grip without bottoming out. For best results, use a left-handed drill bit. Insert the extractor and turn with a wrench or drive tool.

EXTRACTORS

| Extractor Type   | Benefits  | Fastener Size Range   | Drive Tool   |
|--|---|-----------------------|--|
| <b>Straight Screw</b><br>                           | <ul style="list-style-type: none"> <li>• Extracts without expanding material</li> <li>• Ideal for pipes and fittings</li> <li>• Works on Left-hand or Right-hand threads</li> </ul>                       | <b>3/16" - 7/8"</b>   | Tap Wrench<br>Wrench<br>Socket Wrench<br>VISE-GRIP® Locking Pliers<br>IRWIN Tap Adaptors |
| <b>Spiral Screw</b><br>                           | <ul style="list-style-type: none"> <li>• Spiral bites into harder materials with increasing torque</li> <li>• Flutes embed deeper with each turn</li> </ul>   | <b>3/32" - 2-1/2"</b> | Tap Wrench<br>Wrench<br>Socket Wrench<br>VISE-GRIP Locking Pliers<br>IRWIN Tap Adaptors  |
| <b>Multi-Spline Screw</b><br>                     | <ul style="list-style-type: none"> <li>• Low profile enables use in confined areas</li> <li>• Provides most torque of internal extractors</li> <li>• Engages fastener without a deep hole</li> </ul>      | <b>1/8" - 7/8"</b>    | Flat Wrench<br>Socket Wrench<br>VISE-GRIP Locking Pliers                                 |
| <b>Bolt Extractor</b><br>                         | <ul style="list-style-type: none"> <li>• Engages rusted-over, painted-on, and stripped-out bolts</li> <li>• Grips broken, worn, or stubborn fasteners</li> <li>• Drive with a variety of tools</li> </ul> | <b>1/4" - 1"</b>      | Socket Wrench<br>Wrench<br>VISE-GRIP Locking Pliers                                      |
| <b>Power-Grip Screw &amp; Bolt Extractors</b><br> | <ul style="list-style-type: none"> <li>• Grips rusted, painted, stripped, and even round-head fasteners and screws</li> <li>• Easily fits into drill or power driver with Quick Change Shank</li> </ul>   | <b>3/16" - 1/2"</b>   | Power Drill<br>VISE-GRIP Locking Pliers  |

# EXTRACTORS

## BOLT EXTRACTORS

### HANSON® 5-pc Lugnut Specialty Set



54125

| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | Stock # 54125 |
|-------------------------------|---------------------------|------------|---------------|
| 3/4"                          | 19 mm                     | 1/2"       | 53914         |
| 13/16"                        | 21 mm                     | 1/2"       | 53915         |
| 7/8"                          | 22 mm                     | 1/2"       | 53916         |
| 15/16"                        | 24 mm                     | 1/2"       | 53917         |
| 1"                            | –                         | 1/2"       | 53918         |

### 5-pc BOLT-GRIP® Base Set



394001

- Includes most commonly used sizes
- Engineered to grip bolts in almost any condition
- Case accommodates Expansion Set (#394002)

| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | Stock # 394001 |
|-------------------------------|---------------------------|------------|----------------|
| 3/8"                          | –                         | 3/8"       | 53903          |
| 7/16"                         | 11 mm                     | 3/8"       | 53905          |
| 1/2"                          | –                         | 3/8"       | 53907          |
| 9/16"                         | 14 mm                     | 3/8"       | 53909          |
| 5/8"                          | 16 mm                     | 3/8"       | 53910          |

### 5-pc BOLT-GRIP Expansion Set



394002

- Provides additional diameters to address a complete range of fastener sizes

| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | Stock # 394002 |
|-------------------------------|---------------------------|------------|----------------|
| 5/16"                         | 8 mm                      | 3/8"       | 53902          |
| –                             | 10 mm                     | 3/8"       | 53904          |
| –                             | 13 mm                     | 3/8"       | 53908          |
| 11/16"                        | –                         | 3/8"       | 53912          |
| 3/4"                          | 19 mm                     | 3/8"       | 53913          |

EXTRACTORS

### NEW 5-pc BOLT-GRIP Deep Well Set



3094001

- Longer profile and smaller head to fit in smaller areas
- Reaches recessed fasteners and fits over exposed studs

| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | Stock # 3094001 |
|-------------------------------|---------------------------|------------|-----------------|
| 3/8"                          | –                         | 3/8"       | 59903           |
| 7/16"                         | 11 mm                     | 3/8"       | 59905           |
| 1/2"                          | –                         | 3/8"       | 59907           |
| 9/16"                         | 14 mm                     | 3/8"       | 59909           |
| 5/8"                          | 16 mm                     | 3/8"       | 59910           |

### 7-pc POWER-GRIP™ Set



394100

- Reverse spiral teeth provide maximum gripping power
- 1/4" hex shank fits most drills and Quick Change Adaptors

| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | Stock # 394100 |
|-------------------------------|---------------------------|------------|----------------|
| 3/16"                         | –                         | 1/4"       | 394100A        |
| 1/4"                          | –                         | 1/4"       | 394101A        |
| 5/16"                         | 8 mm                      | 1/4"       | 394102A        |
| 3/8"                          | –                         | 1/4"       | 394103A        |
| –                             | 10 mm                     | 1/4"       | 394104A        |
| 7/16"                         | 11 mm                     | 1/4"       | 394105A        |
| 1/2"                          | –                         | 1/4"       | 394107A        |