Serious Solutions for Stuck Fasteners

IRWIN[®] Tools has the solution to deal with a stuck fastener, a rounded or broken head, a snapped stud, or a stripped screw or fitting. Five different styles of extractors give you extra gripping power to remove problem fasteners without damaging workpieces.

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 in order to make removal easier. The guidelines below will help you choose the tool that will deliver the optimal results for your particular situation.

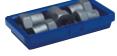
| Extractor Type | Benefits | Fastener Size Range | Drive Tool |
|---|---|------------------------|---|
| Straight Flute | Extracts without expanding material Ideal for pipes and fittings Works on left-hand or right-hand threads | 3/16" - 7/8" | Tap Wrench Wrench Socket Wrench VISE-GRIP[®] Locking Pliers IRWIN Tap Adaptors |
| Spiral Screw | Spiral bites into harder materials with increasing torque Flutes embed deeper with each turn | 3/32" - 2-1/2" | Tap Wrench Wrench Socket Wrench VISE-GRIP Locking Pliers IRWIN Tap Adaptors |
| Multi-Spline Screw | Low profile enables use in confined areas Provides most torque of internal extractors Engages fastener without a deep hole | 1/8" - 7/8" | Flat Wrench Socket Wrench VISE-GRIP Locking Pliers |
| Bolt Extractor | Engages rusted-over, painted-on, and stripped-out bolts Grips broken, worn, or stubborn fasteners Drive with a variety of tools | 1/4" - 1" | Socket Wrench Wrench VISE-GRIP Locking Pliers |
| POWER-GRIP™ Screw & Bolt Extractors | Grips rusted, painted, stripped, and even round-head fasteners and screws Easily fits into drill or power driver with quick change shank | 3/16" - 1/2" | Power Drill VISE-GRIP Locking Pliers |

Guide for Using Screw Extractors

Drill a hole in the threaded part or 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 Bolt Extractors

HANSON® BOLT-GRIP® 5-piece Lugnut **Specialty Set**



54125

5-piece HANSON BOLT-GRIP Base Set



- Includes most commonly used sizes
- Engineered to grip bolts in almost any condition
- 394001
- Case accommodates . Expansion Set (#394002)

5-piece HANSON BOLT-GRIP Expansion Set



 Provides additional diameters to address a complete range of fastener sizes

> 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 | Item # 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 394002 5-piece HANSON BOLT-GRIP Deep Well Set

| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | ltem # 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 |

3094001

7-piece HANSON POWER-GRIP™ Set



- . 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 | ltem # 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 |

394100

| 176 | | 0/0 | 00001 |
|----------------------------------|------------------------------|--------------------|-------------------------------|
| 9/16" | 14 mm | 3/8" | 53909 |
| 5/8" | 16 mm | 3/8" | 53910 |
| | | | |
| Removes Fractional Size Bolts | Removes Metric Size Bolts | Drive Size | ltem # 394002 |
| | | Drive Size 3/8" | Item # 394002 53902 |
| Size Bolts | Size Bolts | | |

Removes Metric Size Bolts

Removes Metric Size Bolts

19 mm

21 mm

22 mm

24 mm

_

_

_

11 mm

Drive Size

1/2"

1/2"

1/2"

1/2"

1/2"

3/8"

3/8"

3/8"

Drive Size

Item # 54125

Item # 394001

53914

53915

53916

53917

53918

53903

53905

53907

s Fractional

Removes Fractional

3/4"

13/16'

7/8"

15/16'

1"

3/8"

7/16'

1/2"