

## 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> 	<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 Wrench Socket Wrench VISE-GRIP® Locking Pliers IRWIN Tap Adaptors
<b>Spiral Screw</b> 	<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 Wrench Socket Wrench VISE-GRIP Locking Pliers IRWIN Tap Adaptors
<b>Multi-Spline Screw</b> 	<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 Socket Wrench VISE-GRIP Locking Pliers
<b>Bolt Extractor</b> 	<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 Wrench VISE-GRIP Locking Pliers
<b>Power-Grip Screw &amp; Bolt Extractors</b> 	<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 VISE-GRIP Locking Pliers

# EXTRACTORS

## MULTI-SPLINE SCREW

### HANSON® Hex Head Multi-Spline 522/532 Series



53225

- Designed to remove broken studs, bolts, socket screws and fittings for high torque applications
- Aggressive left-hand spiral design for extra gripping power

Description	Hex Head Size	Bolt Diameter	Recommended Drill Bit Diameter	Carded Stock #	Bulk Stock #
1/8"	1/2"	#12	1/8"	52201	53201
5/32"	1/2"	1/4"	5/32"	52202	53202
3/16"	1/2"	5/16"	3/16"	52203	53203
7/32"	1/2"	3/8"	7/32"	52204	53204
1/4"	1/2"	7/16"	1/4"	52205	53205
9/32"	1/2"	1/2"	9/32"	52206	53206
5/16"	1/2"	9/16"	5/16"	52207	53207
11/32"	1/2"	5/8"	11/32"	52208	53208
3/8"	1/2"	11/16"	3/8"	—	53209
13/32"	1/2"	3/4"	13/32"	—	53210
7/16"	5/8"	13/16"	7/16"	—	53211
15/32"	5/8"	7/8"	15/32"	—	53212
1/2"	5/8"	15/16"	1/2"	—	53213
17/32"	3/4"	1"	17/32"	—	53214
9/16"	3/4"	1-1/16"	9/16"	—	53215
19/32"	3/4"	1-1/8"	19/32"	—	53216
5/8"	3/4"	1-3/16"	5/8"	—	53217
21/32"	7/8"	1-1/4"	21/32"	—	53218
11/16"	7/8"	1-5/16"	11/16"	—	53219
23/32"	7/8"	1-3/8"	23/32"	—	53220
3/4"	7/8"	1-7/16"	3/4"	—	53221
25/32"	1"	1-1/2"	25/32"	—	53222
13/16"	1"	1-9/16"	13/16"	—	53223
27/32"	1"	1-5/8"	27/32"	—	53224
7/8"	1"	1-11/16"	7/8"	—	53225

### HANSON Hex Head Multi-Spline Plastic Case Sets 532 Series



53226

Description	Contents	Stock #
10-pc Set	1/8" through 13/32"	53226
Empty Case for 53226	—	53226MT
15-pc Set	1/8" through 9/16"	53228
Empty Case for 53228	—	53228MT
25-pc Set	1/8" through 7/8"	53227
Empty Case for 53227	—	53227MT

EXTRACTORS

