

## 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

**HANSON® 10-pc Spiral Extractor & Drill Bit Set in Metal Index**



11119

**HANSON 35-pc Screw Extractor & Drill Bit Set**



11135

**HANSON 10-pc Spiral Extractor & Drill Bit Combo Packs**



11117

**NEW HANSON 48-pc Master Extender Set**



3101010

- The most complete extractor kit we produce
- For use with fasteners above, below, or flush with the work surface

Description		Contents		Stock # 11119
Spiral Flute Extractors				Drill Bits
EX-1	52401		5/64"	30505
EX-2	52402		7/64"	30507
EX-3	52403		5/32"	30510
EX-4	52404		1/4"	30516
EX-5	52405		19/64"	30519

Description		Contents		Stock # 11135	
Spiral Flute Extractors		Multi Splines Extractors		Left-Hand Cobalt Drill Bits	
EX-1	52401	1/8"	53201	5/64"	30505
EX-2	52402	5/32"	53202	7/64"	30507
EX-3	52403	3/16"	53203	1/8"	30508
EX-4	52404	7/32"	53204	5/32"	30510
EX-5	52405	1/4"	53205	3/16"	30512
EX-6	52406	9/32"	53206	7/32"	30514
		5/16"	53207	1/4"	30516
		11/32"	53208	9/32"	30518
		3/8"	53209	19/64"	30519
		13/32"	53210	5/16"	31520
		7/16"	53211	11/32"	30522
		15/32"	53212	3/8"	30524
		1/2"	53213	13/32"	30526
				7/16"	30528
				15/32"	30530
				1/2"	30532

Description		Contents		Stock # 11117
Spiral Flute Extractors				Drill Bits
EX-1	52401		5/64"	63105
EX-2	52402		7/64"	63107
EX-3	52403		5/32"	63110
EX-4	52404		1/4"	63116
EX-5	52405		19/64"	63119

Description		Contents			Stock # 3101010		
Spiral Flute Extractors		Multi Splines Extractors		Bolt Extractors	Left-Hand Cobalt Drill Bits		
EX-1	52401	1/8"	53201	1/4"	53901	5/64"	30505
EX-2	52402	5/32"	53202	5/16"-8mm	53902	7/64"	30507
EX-3	52403	3/16"	53203	3/8"	53903	1/8"	30508
EX-4	52404	7/32"	53204	10mm	53904	5/32"	30510
EX-5	52405	1/4"	53205	7/16"-11mm	53905	3/16"	30512
EX-6	52406	9/32"	53206	12mm	53906	7/32"	30514
		5/16"	53207	1/2"	53907	1/4"	30516
		11/32"	53208	13mm	53908	9/32"	30518
		3/8"	53209	9/16"-14mm	53909	19/64"	30519
		13/32"	53210	5/8"-16mm	53910	5/16"	31520
		7/16"	53211	17mm	53911	11/32"	30522
		15/32"	53212	11/16"	53912	3/8"	30524
		1/2"	53213	3/4"-19mm	53913	13/32"	30526
						7/16"	30528
						15/32"	30530
						1/2"	30532

EXTRACTORS

**HANSON® Bolt Extractors**



53910

- Reverse spiral flutes bite into bolt
- For use with 3/8" socket drive, Vise-Grip® Locking Pliers, or wrench.

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Stock #
1/4"	—	3/8"	53901
5/16"	8 mm	3/8"	53902
3/8"	—	3/8"	53903
—	10 mm	3/8"	53904
7/16"	11 mm	3/8"	53905
—	12 mm	3/8"	53906
1/2"	—	3/8"	53907
—	13 mm	3/8"	53908
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
—	17 mm	3/8"	53911
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913
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

**HANSON 9-pc Fractional Bolt Extractor Set**



54009

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Stock # 54009
1/4"	—	3/8"	53901
5/16"	8 mm	3/8"	53902
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
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913

**HANSON 9-pc Metric Bolt Extractor**



54019

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Stock # 54019
5/16"	8 mm	3/8"	53902
—	10 mm	3/8"	53904
7/16"	11 mm	3/8"	53905
—	12 mm	3/8"	53906
—	13 mm	3/8"	53908
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
—	17 mm	3/8"	53911
3/4"	19 mm	3/8"	53913

**HANSON 13-pc Professional's Industrial Set**



54113

Removes Fractional Size Bolts	Removes Metric Size Bolts	Drive Size	Stock # 54113
1/4"	—	3/8"	53901
5/16"	8 mm	3/8"	53902
3/8"	—	3/8"	53903
—	10 mm	3/8"	53904
7/16"	11 mm	3/8"	53905
—	12 mm	3/8"	53906
1/2"	—	3/8"	53907
—	13 mm	3/8"	53908
9/16"	14 mm	3/8"	53909
5/8"	16 mm	3/8"	53910
—	17 mm	3/8"	53911
11/16"	—	3/8"	53912
3/4"	19 mm	3/8"	53913

EXTRACTORS