

BROKEN BOLT/SCREW REMOVAL SYSTEM

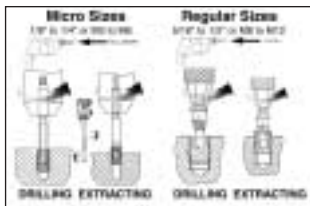
ALDEN CORPORATION DRILL-OUT BROKEN BOLT EXTRACTORS

MICRO-POWER EXTRACTORS

The DRILL-OUT Micro-Power extractor has many of the same features as our larger extractors but is designed differently. Put the Micro tool into a reversible drill, extractor side in, set it for reverse and drill the hole. Then turn the tool and insert the drill side into the chuck and you have your extractor. Insert the tip into the hole you just drilled and remove the broken screw. That's it!



Drill-Out 7-Pc. Kit Shown



FEATURES:

- Drill body is manufactured using the finest quality high speed steel. The collet is produced from hot die steel, using the finest steel of its type.
- Made with a precision ground 130° left-hand cutting self-centering point, and heat-treated for toughness.
- Sets supplied with fitted polyethylene case.

Model	Extractor Sizes	Price
DRILL-OUT		
2581 2100	1/4" or 6mm Extractor	10.58
2581 2102	5/16" or 8mm Extractor	11.42
2581 2104	3/8" or 10mm Extractor	12.76
2581 2106	1/2" or 12mm Extractor	14.94
MICRO DRILL-OUT		
2581 2110	#5/#6 or 3mm Extractor	8.34
2581 2112	#8 or 4mm Extractor	8.72
2581 2114	#10/#12 or 5mm Extractor	8.84
2581 2116	1/4" or 6mm Extractor	9.32

DRILL-OUT/MICRO DRILL-OUT EXTRACTOR KITS

Model	Extractor Sizes	Price
2581 2125	4 Pc. Drill-Out Kit (1 each) P250, P312, P375, P500	46.16
2581 2130	4 Pc. Micro Drill-Out Kit (1 each) P125, P164, P190, P236	29.72
2581 2135	7 Pc. Drill-Out/Micro Drill-Out (1 each) P125, P164, P190, P236, P312, P375, P500	62.96

ALDEN CORPORATION X-OUT DAMAGED SCREW REMOVER SET



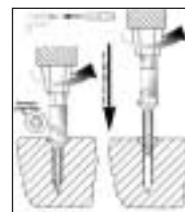
X-Out Kit Shown

Remove Broken Bolts & Studs In One Quick, Easy Step – Without Damaging The Threads In The Hole!

Remove damaged screws quickly & easily. Can be used directly in hand drill or used with 1/4" hex bit holder. Simply apply downward pressure, allow drill to slowly rotate in reverse and remove the damaged fastener. Works on all kinds of fasteners.

3 PC. KIT
Model 2581 2200
\$21.00
INCLUDES: 3 Sizes shown.

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Model	Extractor Sizes	Price
2581 2210	No. 6 to 8	8.91
2581 2212	No. 8 to 10	8.91
2581 2214	No. 10 to 14	9.81

RECOIL CORPORATION QUIK CENTER BROKEN BOLT/SCREW EXTRACTORS

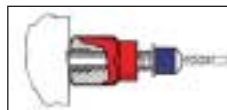
Model	Stud/Bolt Removal Sizes	Price
CENTER TOOL SETS		
2581 2450	#10-32 & 5mm-0.8	38.50
2581 2452	1/4"-20 & 5/16"-18	38.50
2581 2454	3/8"-16 & 1/2"-13	38.50
2581 2456	6mm-1.0 & 8mm-1.25	38.50
2581 2458	10mm-1.5 & 12mm-1.75	38.50
2581 2460	1/4"-28 & 5/16"-24	38.50
2581 2462	3/8"-24 & 1/2"-20	38.50
2581 2464	6mm-0.75 & 8mm-1.0	38.50
2581 2466	10mm-1.25 & 12mm-1.5	38.50
CENTER SINGLE CARDED SETS		
2581 2330	1/4"-20 UNC	26.55
2581 2332	5/16"-18 UNC	27.77
2581 2334	3/8"-16 UNC	31.03
2581 2336	7/16"-14 UNC	34.08
2581 2338	1/2"-13 UNC	36.75
2581 2340	5/8"-11 UNC	63.17
2581 2342	3/4"-10 UNC	67.52
2581 2344	7/8"-9 UNC	77.11
2581 2346	1"-8 UNC	81.27
2581 2360	M5-8	29.22
2581 2362	M6-1.0	26.55
2581 2364	M8-1.25	28.12
2581 2366	M10-1.5	32.23
2581 2368	M12-1.75	37.72
2581 2390	10-32 UNF	29.22
2581 2392	1/4"-28 UNF	26.55
2581 2394	5/16"-24 UNF	27.77
2581 2396	3/8"-24 UNF	31.03
2581 2398	1/2"-20 UNF	36.75
2581 2370	M6-.75	26.55

New!



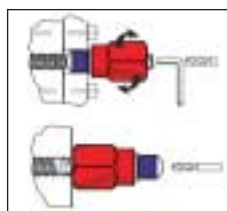
BOLT OR STUD BROKEN FLUSH WITH WORK SURFACE.

- Select proper size Recoil Quik Center.
- Arrange tool as shown and center nut over stud.
- If necessary, grind off irregular end of broken bolt to allow proper seating of tool.
- Drill stud.



BOLT OR STUD BROKEN BELOW WORK SURFACE.

- Flange application.
- Select proper size Recoil Quik Center.
- Insert collet end into flange and tighten gently with hex wrench.
- Drill stud.
- Select proper size Recoil Quik Center.
- Arrange tool as shown and center nut over stud.
- Drill stud.



INSTRUCTIONS:

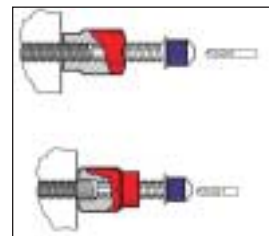
- Remove dirt, grease and scale from around broken bolt. Use acetone if necessary.
- Select proper size washer and apply small amount Loctite 401 to one surface only. Center washer over broken bolt and hold for at least 30 seconds. Allow to cure 15 minutes at room temperature. Longer curing time makes the bond stronger.
- Insert collet end of tool into washer, secure as shown on tool instructions. Drill pilot hole.
- Twist washer with pliers to remove. Remove excess adhesive by sanding lightly or use solvent. Use care on gasket or machined surfaces to avoid damage.
- Continue normal procedure for thread repair or replacement.



Use the reusable accessory washer with the RECOIL Quik Center drill centering system on bolts or studs broken flush or slightly above surface.

BOLT OR STUD BROKEN ABOVE WORK SURFACE.

- **Full Thread Application.**
- Select proper size Recoil Quik Center.
- Reverse tool in nut and screw threaded end of nut into exposed stud.
- Drill stud.
- **Partial Thread/Partial Shoulder Application.**
- Select proper size Recoil Quik Center.
- Arrange tool as shown and center nut over stud.
- Drill stud.



CENTER ACCESSORIES

Model	Description	Price
2581 2410	Centering Washers-All Sizes	22.48
2581 2412	Ext. Length Cobalt Drill Bits-All Sizes	62.72