

EAGLE CLAW

The Eagle Claw is the #1 bit for hard, rocky soil conditions

- Unique balanced cutting design improves cutting efficiency
- Aggressive tri-tooth carbide cutting action gets through the hardest conditions
- Smooth running with minimal vibration to drill stem and drill rig
- Carbide buttons precisely placed to minimize wear on bit body
- Quick and easy change out of carbide cutter teeth
- Easily threads on to a side load or high flow housing
- Steering face has conical shape for quicker reaction to directional "pushes"
- Different tooth styles to accommodate a wide variety of job conditions

EC-50C1 5" cut Eagle Claw



Replacement Cutters for 5" Eagle Claw

EC50A1-C-01



EC50A1-C-02



EC50A1-C-03



EC50A1-C-01-X
Cut-away



■ Cut-away shows large carbide tooth in the cutter

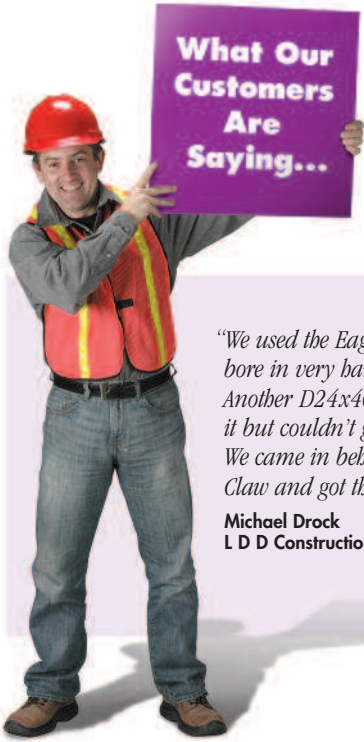
EC50A1-C-01-X



■ Carbide studs minimize wear on cutter and bit body

* Hearland Construction Equipment * 1800 633 2378 * hceweb.com *





What Our Customers Are Saying...

"We used the Eagle Claw on a 250' bore in very hard sandstone. Another D24x40 had tried to bore it but couldn't get the bore done. We came in behind with the Eagle Claw and got the job done."

Michael Drock
L D D Construction, Dupont, CO

Eagle Claw

5-1/2" Eagle Claw with 2-7/8" API-R pin	Part #
5-1/2" Eagle Claw – use with 40,000 lb. to 80,000 lb. rigs such as: Vermeer D50x100, D55x100, D80x100 Ditch Witch JT4020 Mach 1, JT4020 AT, JT7020 Astec DD5, DD6 Use with any housing listed below: D308 High Flow housing—used with DigiTrak, Spot-D-Tek, or Radiodetection* transmitters; and Subsite 86B beacon 1742-HT – used with DigiTrak, Spot-D-Tek, or Radiodetection transmitters 1942-HD – used with Subsite 86B beacon; MBDD sideload housing	EC-55A1
5" Eagle Claw with 2-3/8" API-R pin	Part #
5" Eagle Claw – use with 24,000 lb. to 40,000 lb. rigs such as: Vermeer D24x40, D24x40 Series 2, D33x44, D36x50, D40x40 Ditch Witch JT2720, JT2720 Mach1, JT3020 Mach1, JT4020 Astec DD1416, DD2024 Use with any housing listed below: 1632-HT – used with DigiTrak, Spot-D-Tek, or Radiodetection transmitters 1932-HD – used with Subsite 86B beacon D287 High Flow end-load housing – any locator	EC-50C1

* Radiodetection is a registered trademarks of Radiodetection Corp., Mahwah, NJ

Eagle Claw Replacement Cutters

5-1/2" Eagle Claw	Part #
Standard conical carbide cutter for 5-1/2" Eagle Claw	EC55A1-C-01
Large conical carbide cutter for 5-1/2" Eagle Claw	EC55A1-C-02
Dome carbide cutter for 5-1/2" Eagle Claw	EC55A1-C-03
5" Eagle Claw	Part #
Large conical carbide cutter for 5" Eagle Claw	EC50A1-C-03
Lead conical cutter with extra carbide studs for 5" Eagle Claw	EC50A1-C-01-X
Dome carbide cutter for 5" Eagle Claw	EC50A1-C-02

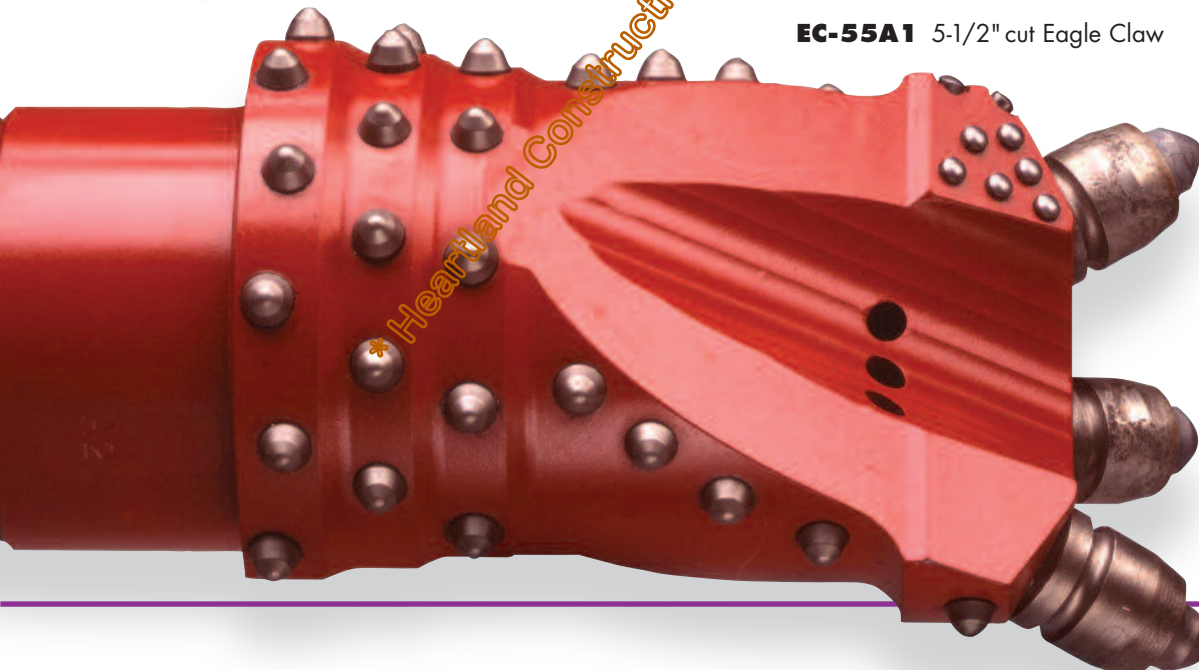
Replacement Cutters for 5-1/2" Eagle Claw

EC55A1-C-01 EC55A1-C-02 EC55A1-C-03



4-1/4" and 3-1/2" Eagle Claws are on page 18

EC-55A1 5-1/2" cut Eagle Claw



To place an order or find a dealer **800-833-1252**

Fax 24 hours a day: **805-614-9548**

www.melfredborzall.com



EAGLE CLAW

The Eagle Claw is the #1 bit for hard, rocky soil conditions

NEW!
4-1/4" Cut Eagle Claw!
 Perfect size for Ditch Witch JT2020,
 Vermeer D20x22 & Astec DD2024

EC-42A1 4-1/4" cut Eagle Claw



Replacement Cutters for 4-1/4" Eagle Claw

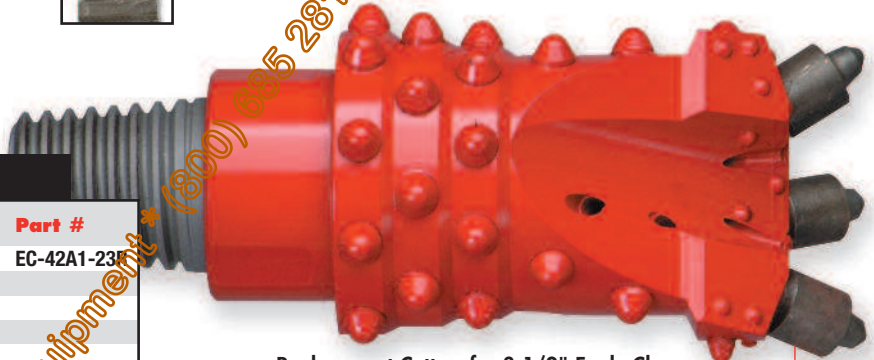
- EC42A1-C-01** **EC42A1-C-02** **EC42A1-C-03**



Cut-away shows large carbide tooth in the cutter



EC-35A1 3-1/2" cut Eagle Claw



Replacement Cutters for 3-1/2" Eagle Claw

- EC35A1-C-01** **EC35A1-C-02**



Eagle Claw	
4-1/4" Eagle Claw with 2-3/8" API-Reg pin	Part #
4-1/4" Eagle Claw – use with 20,000 to 25,000 lb. rigs such as: Vermeer D20x22, D24x26, D24x40 Ditch Witch JT2020, JT2720 Astec DD2024	EC-42A1-23
Use with any housing listed below: 1632-HT – used with DigiTrak, Spot-D-Tek, or Radiodetection transmitters 1932-HD – used with Subsite 86B beacon D285 High Flow end-load housing – any locator	
4-1/4" Eagle Claw with 2" IF pin	Part #
4-1/4" Eagle Claw – use with 12,000 to 20,000 lb. rigs such as: Vermeer D16x20a, D18x22 Ditch Witch JT1720, JT2020 Astec DD1416	EC-42A1-21F
Use with any housing listed below: 1727-HT – used with DigiTrak, Spot-D-Tek, or Radiodetection transmitters 1927-HD – used with Subsite 86B beacon	
3-1/2" Eagle Claw with 2" IF pin	Part #
3-1/2" Eagle Claw – use with 7,000 lb. to 15,000 lb. rigs such as: Vermeer D7x11a, D7x11 Series 2, D10x14, D10x15a, D16x20a Ditch Witch JT920, JT920L, JT921, JT922, JT1220 Astec 6010, DD1, DD1215	EC-35A1
Use with any housing listed below: 10,000 lb. rig and smaller 1725-HT – used with DigiTrak, Spot-D-Tek, or Radiodetection transmitters 1927-HD – used with Subsite 86B beacon	
10,000 lb. to 20,000 lb. rigs 1727-HT – used with DigiTrak, Spot-D-Tek, or Radiodetection transmitters 1927-HD – used with Subsite 86B beacon	

Eagle Claw Replacement Cutters	
4-1/4" Eagle Claw	Part #
Standard conical carbide cutter for 4-1/4" Eagle Claw	EC42A1-C-01
Dome carbide cutter for 4-1/4" Eagle Claw	EC42A1-C-02
Large conical carbide cutter for 4-1/4" Eagle Claw	EC42A1-C-03
3-1/2" Eagle Claw	Part #
Standard conical carbide cutter for 3-1/2" Eagle Claw	EC35-C-01
Dome carbide cutter for 3-1/2" Eagle Claw	EC35-C-02

5" and 5-1/2" Eagle Claws are on pages 16 & 17

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Soft sand, rocky shale and softball-sized cobble puts the new 4-1/4" Eagle Claw to the test



The 4.25" Eagle Claw starting into the first bore, 320' in hard rocky shale.

"We were drilling with our Vermeer 24 x 40 Series 2 on a busy road between the towns of Camarillo and Moorpark, CA., having some difficulty with three pilot bores. The conditions varied from hard compacted ground, rocky shale and cobble. Our Melfred Borzall representative offered us one of their proto-type 4.25" Eagle Claws to test and help finish the bores. The timing was perfect in order to complete this portion of the project.

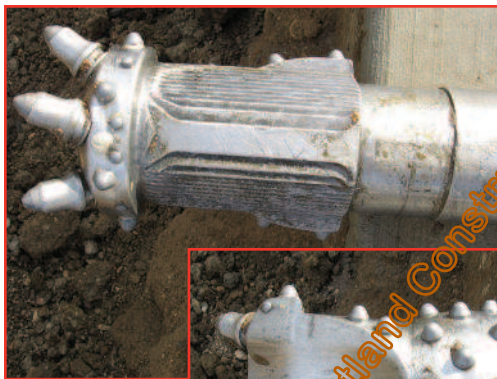
The first bore was approximately 320' in hard rocky shale. We had to cross a high-pressure gas line at 36" about two thirds of the way with all the usual inspectors and gas company entourage on site. Thirty feet into the pilot bore the soil conditions became very difficult to correct in. The Melfred Borzall sales representative gave us some tips how to steer the bit and we were able to maintain pitch and depth through the entire bore, including keeping the proper clearance from the existing high pressure gas line. The pilot bore was completed and product was pulled back in a timely manner.

The second bore was about 120' in compacted rocky shale. We had previously tried this pilot bore using a standard bit, which sheared off the bolts and nearly ruined our housing. We set up again using the Melfred Borzall Eagle Claw and completed pilot bore within two hours, successfully pulling product back.



The Eagle Claw's fluid ports allow for more efficient cutting.

The third bore was by far the most difficult yet. The distance on this bore was about 300' and there were several utilities to avoid. We started out in a soft sand condition and then the soil changed to softball-sized cobble. This pilot bore took a little more time with the cobbles redirecting us. We had to correct the pilot bore a few times by pulling back and carving with the Eagle Claw back and forth. We were able to maintain our pitch and depth while keeping proper clearances from existing utilities. The bore was completed in about 6 hours.



We were surprised how well the Eagle Claw worked in these different soil conditions. We definitely put the 4.25" Eagle Claw to the test and recommend it for some of the most difficult bores."



The Eagle Claw after approximately 740 feet of boring through sand, cobble and shale.



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