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Jeffrey Machine is now offering tools for rental including augers and core barrels; from 24” to 120” in diameter. A wide range of utility tools from 9” to 32” in diameter are also available through our rental program. Call a Jeffrey Machine representative today at 205.841.8600.

Rock & Dirt Augers
Clean Out Buckets
Casing Twisters
Drilling Buckets

Belling Tools
Core Barrels
Derrick Augers & Parts
Continuous Flight Augers

jeffreymachine.com/tool-rental/

Contact a Jeffrey Machine representative today!
CHOOSE AN AUGER
Available in sizes up to 12’ in diameter. All of our augers are manufactured in house.

ROCK    DIRT    MULTIPURPOSE    CRIMSON CRUSHER
Modification options available on page 7.

SELECT AUGER TYPE
Jeffrey Machine is proud to be the “go-to” manufacturer for high quality custom-built augers. There are six basic types of spiral augers.

TYPE 1
Double Cut, Double Flight

TYPE 2
Double Cut, Double Flight

TYPE 3
Double Cut, Double Flight

TYPE 4
Double Cut, Double Flight

TYPE 5
Double Cut, Double Flight

TYPE 6
Double Cut, Double Flight

HOW TO ORDER
SELECT YOUR MODIFICATIONS
There are hundreds of modifications that can be made to specifically fit your application.

DRIVE BOXES
Fabricated steel boxes are available in a variety of sizes. Manufactured in-house, drive boxes are rated for maximum rotational torque & pull-out force. SEE PAGE 63.

CENTER SHAFT
Available from 4” OD to 13” OD.

FLIGHTING
There are multiple variants to choose from including
• Outside Diameter
• Pitch
• Inside Diameter
• Thickness
• Right or Left Handed

FOR MORE INFO, SEE PAGE 121.

TEETH & HOLDERS
For a list of all teeth and holders available, SEE PAGE 71.

PILOTS, ADAPTERS, AND HUBS
For a list of all available, SEE PAGE 78.

ADD-ON FEATURES
Additional features to add-on for even more customization.

WEAR PROTECTION
Wear Pads & Carbide Studs
Fully Hard Surface
Full Hard Surface Outer Edge

LEARN MORE ON PAGE 12.

LAMINATES
LEARN MORE ON PAGE 13.

REAMING ARMS
LEARN MORE ON PAGE 35.

Custom orders cannot be refunded, canceled, or returned for any reason.
TUNGSTUDS

Tungstuds by Betek reduce wear over time due to the carbide core. Tungstuds are easy to install & quick to replace.

BTS01

BTS02

BTS03

BTS04

BTS05

BTS06

*Height after welding.
WEAR PROTECTION

Wear Protection can greatly increase the life of your drilling tools. Whether adding any of these options to a new auger or having Jeffrey Machine refurbish your used tool, it’s a great way to protect your investment.

WEAR PADS
These have become extremely popular as they offer extra wear protection. When they do start to wear down, it’s a simple task to weld a new pad in the available space beside it.

CARBIDE STUDS
Also known as tungstuds can be applied to any surface to add wear protection. Fast and easy to install carbide studs will add an adequate amount of wear protection extending the life of your tooling.
Reference pg. 9-10.

FULL HARD SURFACE OUTER EDGE
Adding hard surface welding wire to the outside edge of your tooling will extend the life of your auger. *(Most popular on dirt augers.)*

FULLY HARD SURFACE
Our Fully Hard Surface option increases your protection even further by adding an extra 1” of wire to the top and bottom side of the auger flighting.
LAMINATES

Laminates have been added to all of our 30” and larger heavy duty rock augers. (Optional for dirt augers)

Laminates greatly increase the strength of flighting for crowd (pushing down), torque (twisting) and load (pulling heavy spoil up out of the ground). Jeffrey Machine has developed a reputation for building the highest quality augers in the industry. Laminates are just one more enhancement to insure our augers hold up to the ever increasing power of modern drilling rigs.
COMPATIBLE PILOTS

RP-4 Machined Pilot
P/N 40285

.990 Dragon’s Tooth® Pilot Cast
P/N 42025

COMPATIBLE PILOT ADAPTERS

2-1/2” SQ Pilot Adapter
P/N 42040

177mm x 100mm FM Adapter
P/N 42080

All flights are double beveled for better weld penetration.

1 Bevel with weld
2 Bevel pre-weld
### COMPATIBLE DRIVE BOXES

<table>
<thead>
<tr>
<th>P/N</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>43525</td>
<td>3” Kelly Drive Box</td>
</tr>
<tr>
<td>43535</td>
<td>3-1/2” Kelly Drive Box</td>
</tr>
<tr>
<td>43545</td>
<td>4” Kelly Drive Box</td>
</tr>
<tr>
<td>43555</td>
<td>4-1/4” Kelly Drive Box</td>
</tr>
<tr>
<td>43560</td>
<td>5” Kelly Drive Box</td>
</tr>
<tr>
<td>43575</td>
<td>5-1/4” Kelly Drive Box</td>
</tr>
<tr>
<td>43595</td>
<td>130mm Kelly Drive Box</td>
</tr>
<tr>
<td>43600</td>
<td>6” Kelly Drive Box</td>
</tr>
<tr>
<td>43615</td>
<td>7” Kelly Drive Box</td>
</tr>
<tr>
<td>43670</td>
<td>200mm Standard Tall 18”</td>
</tr>
<tr>
<td>43671</td>
<td>200mm Standard Short 18”</td>
</tr>
<tr>
<td>43676</td>
<td>200mm HD Tall 18”</td>
</tr>
<tr>
<td>43677</td>
<td>200mm HD Short 18”</td>
</tr>
<tr>
<td>43679</td>
<td>200mm HD Tall Deep 21.5”</td>
</tr>
<tr>
<td>43678</td>
<td>200mm Standard Tall Deep 21.5”</td>
</tr>
</tbody>
</table>

### 38mm TEETH & HOLDERS

#### 38mm TEETH (Only compatible with 38mm Holders)

- **38mm Dragon’s Tooth®**
  - P/N 30188
- **BKH113**
  - P/N 30225
- **B47K22-H**
  - P/N 30212
- **BFZ 100X70/2**
  - P/N 34172

- **B47K19H**
  - P/N 30162
- **B47K19L**
  - P/N 30182
- **55-15/C4-1**
  - P/N 30242

#### 38mm HOLDERS (Only compatible with 38mm Teeth)

- **38mm Dragon’s Tooth® Holder**
  - P/N 32058
- **38mm Tri-Holder**
  - P/N 32064
- **JM-43 Holder**
  - P/N 32050
- **38mm Jeff444 Tri-Holder**
  - P/N 32102

#### .990 TEETH & HOLDERS

#### .990 TEETH (Compatible with .990 Holders)

- **.990 Dirt Tooth**
  - P/N 34380
- **.990HB**
  - P/N 30122
- **.990 Dragon’s Tooth®**
  - P/N 30145
- **B40 HDS**
  - P/N 30155

#### .990 HOLDERS (Compatible with .990 Teeth)

- **.990 Dragon’s Tooth® Holder**
  - P/N 32049
- **.990 Tri-Holder**
  - P/N 32042
- **JM C-30 Holder**
  - P/N 32040
- **.990 Jeff444 Tri-Holder**
  - P/N 32104
PILOTLESS AUGER SPECIFICATIONS

Commonly Requested Diameters: 14" – 144" *

Type: Type 6

Cut: DC/DF

Kelly boxes: All kelly boxes made to customer specifications

Center Shaft: 6" OD – 8" OD

Flight: 1" – 2" thickness available
   All flight ID is beveled for better weld penetration
   Laminate flight on all augers 30" or larger

Wear Protection: Wear Pads 2" x 3" x 1/2" (39302)

* Smaller diameters available based on Kelly box size / custom sizes greater than 144"
MULTI-PURPOSE AUGER

Optimize your drilling tool fleet with the multi-purpose auger. This auger can be utilized as a dirt or rock auger simply by switching out the tooth & pilot combinations.

MULTI-PURPOSE AUGER SPECIFICATIONS

Commonly Requested Diameters: 16” – 144” *

Type: Type 3 - 6

Cut: DC/DF

Kelly boxes: All kelly boxes made to customer specifications

Center Shaft: 4” OD – 12” OD (Solid shaft available in some sizes)

Flight: 1” – 2” thickness available

All flight ID is beveled for better weld penetration

Laminate flight on all augers 30” or larger

Wear Protection: Wear Pads 2” x 3” x 1/2” (39302)

* Smaller diameters available based on Kelly box size / custom sizes greater than 144”

ROCK

B47K19L
P/N 30182

38mm Tri-Holder
P/N 32064

RP-4 Machined Pilot
P/N 40285

DIRT

JMI 113x70/D
P/N 34241

BFZ 100x70/2
P/N 34172

4” SQ. JM 8” Dirt Pilot
P/N 40260

38mm Tri-Holder
P/N 32064

48” Max Cut Tool
Conical Tooth

Switch Gauge Tooth to BFZ Shovel Tooth to Overcut 1 1/2” Adding 3” to Hole Diameter
CRIMSON CRUSHER® AUGER

CRIMSON CRUSHER® SPECIFICATIONS

Commonly Requested Diameters: 18” – 144”
Type: 1 – 3
Cut: DC/DF or SC/SF
Kelly boxes: All kelly boxes made to customer specifications
Center Shaft: 4” OD – 12” OD (Solid shaft available in some sizes)
Flight: 1” – 2” thickness available
   All flight ID is beveled for better weld penetration
   Laminate flight on all augers 30” or larger

.990HB
P/N 30122

55-1S / C4-1
P/N 30242

JM C-30 Holder
P/N 32040

JM-43 Holder
P/N 32050
CHRISTMAS TREE® AUGER

CHRISTMAS TREE® AUGER SPECIFICATIONS

Commonly Requested Diameters: 24" – 60"
Type: Christmas Tree
Cut: DC/DF or SC/SF
Kelly boxes: All kelly boxes made to customer specifications
Center Shaft: 4” OD – 12” OD (Solid shaft available in some sizes)
Flight: 1” – 2” thickness available
   All flight ID is beveled for better weld penetration
   Laminate flight on all augers 30” or larger

.990HB
P/N 30122

55-1S / C4-1
P/N 30242

JM C-30 Holder
P/N 32040

JM-43 Holder
P/N 32050
PRESSURE AUGER

SPECIFICATIONS

Standard Height: 36” – 42”
Commonly Requested Diameters: 24” – 60”

Type: Types 4 – 6
Cut: DC/DF or SC/SF
Kelly boxes: 3” - 4” box
Center Shaft: 4” OD – 8” OD (Solid shaft available in some sizes)
Flight: 1” thickness available
   All flight ID is beveled for better weld penetration
   Laminate flight on all augers 30” or larger

.990HB
P/N 30122

.990 Dirt Tooth
P/N 34380

.990 Dragon’s Tooth®
P/N 30145

.990 Tri-Holder
P/N 32042

JM C-30 Holder
P/N 32040
**ECONO AUGER®**

**SPECIFICATIONS**

Commonly Requested Diameters: 18” – 60”

Type: 4 & 5

Cut: DC/DF

Kelly boxes: All kelly boxes made to customer specifications

Center Shaft: 4” OD – 6” OD (Solid shaft available in some sizes)

Flight: 1” thick flights only
   All flight ID is beveled for better weld penetration

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>.990HB</td>
<td>P/N 30122</td>
</tr>
<tr>
<td>55-1S / C4-1</td>
<td>P/N 30242</td>
</tr>
<tr>
<td>JM C-30 Holder</td>
<td>P/N 32040</td>
</tr>
<tr>
<td>JM-43 Holder</td>
<td>P/N 32050</td>
</tr>
</tbody>
</table>
SPOON® AUGER

Spoon® Augers are best used in applications when overhead space is restricted. Flaps increase the ability to hold loose spoil on the auger flights preventing material from falling back into the shaft. If you have questions regarding the spoon or bow tie augers, please contact a Jeffrey Machine Inc. representative.

Spoons

Closed

Standard

Open

Standard

Closed

Overcut

Open

Overcut
DIRT AUGERS

Commonly Requested Diameters: 14” – 144”*

Type: Type 6
Cut: DC/DF, DC/SF, SC/SF
Kelly boxes: All kelly boxes made to customer specifications
Center Shaft: 4” OD – 12” OD (Solid shaft available in some sizes)
Flight: 1” – 2” thickness available
   All flight ID is beveled for better weld penetration
Wear Protection: Hard Surface Outer Edge

* Smaller diameters available based on Kelly box size / custom sizes greater than 144”
**SLURRY AUGER**

**SLURRY AUGER SPECIFICATIONS**
- **Standard Height:** 24”-96”
- **Commonly Requested Diameters:** 24” – 60”
- **Type:** Types 5 – 6
- **Cut:** DC/DF or SC/SF
- **Kelly boxes:** All Kelly boxes made to customer specifications
- **Center Shaft:** 14” – 24”
- **Flight:** 1” to 1-1/2” thick available
- **Wear Protection:** Hard Surface outside edge or fully hard surface

**POLY-BORE**
POLY-BORE polymer is a free flowing, water-soluble, easy mixing, 100% dry granular polymer. When mixed with fresh water, a small quantity of POLY-BORE polymer provides a clear, solid-free, viscous borehole stabilizing fluid for use in drilled shaft, auger drilling, horizontal directional boring, trenching excavation and reverse circulation (RC) rotary drilling. POLY-BORE polymer is not designed to be used in conjunction with bentonite-based fluids.
P/N 799-7004

**EZ-MUD**
EZ-Mud is a clay and shale stabilizer provides inhibition of clay and shale formations in water-based drilling fluids without substantially increasing viscosity. EZ-MUD GOLD stabilizer, when added to a QUIK-GEL® or BORE-GEL® slurry, yields an inhibitive drilling fluid system while maintaining manageable and effective fluid properties. EZ-MUD GOLD stabilizer can be mixed easily at minimal shear thereby eliminating the need for liquid emulsions.
P/N T799-2000

**QUIK-GEL**
Quik-Gel is a viscosifier is an easy-to-mix, finely ground (200-mesh), premium-grade, high-yielding Wyoming sodium bentonite. QUIK-GEL viscosifier imparts viscosity, fluid loss control and gelling characteristics to freshwater-based drilling fluids.
P/N T799-1000
CASING CAPABILITIES

Inner Diameters: 22” - 144”
Wall: 3/8” - 1” thick available

3/4” Hex Weld Bars
P/N 34350

1 1/8” Hex Weld Bars
P/N 34340

1 3/8” Hex Weld Bars
P/N 34330

CJ2 Holder
P/N 36070

CJ2 Tooth
P/N 34220

Custom sizes available.
CASING TWISTERS

2 Way Adjustable Casing Twister with 5” OD Solid Arms*
- 2 Way 30” - 42”
- 2 Way 48” - 72”
- 2 Way 78” - 122”

*Other sizes and 4-way are available.
## 4-Way Adjustable Casing Twister Ratings

<table>
<thead>
<tr>
<th></th>
<th>30” - 42”</th>
<th>48” - 72”</th>
<th>78” - 122”</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum Torque</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extended</td>
<td>200,000ft-lbs.</td>
<td>485,714ft-lbs.</td>
<td>485,714ft-lbs.</td>
</tr>
<tr>
<td>Retracted</td>
<td>425,000ft-lbs.</td>
<td>485,714ft-lbs.</td>
<td>680,000ft-lbs.</td>
</tr>
<tr>
<td><strong>Maximum Lift</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extended</td>
<td>308,108lbs.</td>
<td>182,138lbs.</td>
<td>126,666lbs.</td>
</tr>
<tr>
<td>Retracted</td>
<td>737,864lbs.</td>
<td>760,000lbs.</td>
<td>950,000lbs.</td>
</tr>
</tbody>
</table>

Jeffrey Machine Casing Twisters are *PE Certified.*

P.E. certified ratings include but are not limited to computer simulated torque and lifting analysis. These simulations allow our engineers and designers to identify and improve upon higher stress areas in our tools to ensure maximum production and safety.

![Diagram](image)

**COLOR KEY**

- **Red** 80,456: Yield Strength: 85,000
- **Orange** 72,411
- **Yellow** 64,365
- **Green** 56,319
- **Blue** 48,274
- **Dark Blue** 40,228
- **Light Blue** 32,183
- **Gray** 24,137
- **Light Gray** 16,091
- **White** 8,046
- **Black** 16
- **White** 0

**Yield Strength: 85,000**

*Other sizes and 2 way are available.*
CONTINUOUS FLIGHT AUGERS (CFA’S)
CFA SPECIFICATIONS

Commonly Requested Diameters: 8” – 48” *
Cut: DC/DF, DC/SF, SC/SF
Grout Port: Side discharge
Type: 3, 4, 5, 6
Connections:
- Spline & Hex Couplers
- API & ACME Threaded Couplers
Cutter Head Length: 5’, 10’, 20’
Flight Body: 5’, 10’, 20’
Wear Protection or Hard Surface Options Available. SEE PAGE 12

* Custom sizes available upon request.
SOIL MIXING TOOL

Shown as a 3-blade soil mixing tool.

SOIL MIXING TOOL SPECIFICATIONS

Commonly Requested Diameters: 18” – 144” *

Drive Connections: Specified by customer

Combination of dirt teeth and dirt pilots available.

* Custom sizes greater than 144” available upon request.

NOTE: Soil Mixing blades & supports are made from A514 / T1 material for increased wear, durability, and long-lasting strength. (A514 T1 - 110,000 - 130,000 psi Tensile Strength)
## SPLINE COUPLERS

<table>
<thead>
<tr>
<th>Coupler Assembly</th>
<th>Maximum Torque</th>
<th>Maximum Pull-Out Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>9.250in Spline Coupler</td>
<td>130,000 ft-lbs</td>
<td>1,040,000 lbs</td>
</tr>
<tr>
<td>11.000in Spline Coupler</td>
<td>262,000 ft-lbs</td>
<td>1,160,000 lbs</td>
</tr>
<tr>
<td>14.000in Spline Coupler</td>
<td>672,000 ft-lbs</td>
<td>1,550,000 lbs</td>
</tr>
</tbody>
</table>

**9.25” Spline Coupler Set**
- Max. Torque: 130,000 ft-lbs
- Max. Pull-Out Force: 1,040,000 lbs
- P/N 27920

**11” Spline O Ring & Set Screw Kit**
- P/N 27925

**11” Spline Coupler Set**
- Max. Torque: 262,000 ft-lbs
- Max. Pull-Out Force: 1,160,000 lbs
- P/N 27930

**11” Spline O Ring & Set Screw Kit**
- P/N 27935

**14” Spline Coupler Set**
- Max. Torque: 672,000 ft-lbs
- Max. Pull-Out Force: 1,550,000 lbs
- P/N 27940

**14” Spline O Ring & Set Screw Kit**
- P/N 27945

Jeffrey Machine manufactures CFA Spline Couplers, CFA Hex Couplers, ACME Threaded Couplers as well as API Couplers. We operate state-of-the-art machines at our Birmingham facility to provide a timely source of supply. This enables us to make customer requested modifications.

*Male/female sold separately upon request.

*PE Certified
CFA HEX COUPLERS

Couplers and adapters are manufactured in-house to any shape or design required.

<table>
<thead>
<tr>
<th>Coupler Assembly</th>
<th>Maximum Torque</th>
<th>Maximum Pull-Out Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>80mm Hex Coupler</td>
<td>19,300 ft-lbs</td>
<td>96,400 lbs</td>
</tr>
<tr>
<td>120mm Hex Coupler</td>
<td>65,000 ft-lbs</td>
<td>217,000 lbs</td>
</tr>
<tr>
<td>150mm ABI Hex Coupler</td>
<td>263,000 ft-lbs</td>
<td>805,000 lbs</td>
</tr>
<tr>
<td>160mm Hex Coupler</td>
<td>154,000 ft-lbs</td>
<td>386,000 lbs</td>
</tr>
<tr>
<td>200mm Hex Coupler</td>
<td>292,000 ft-lbs</td>
<td>560,000 lbs</td>
</tr>
</tbody>
</table>

*PE Certified*
THREADED COUPLERS FOR CFA

Couplers and adapters are manufactured in-house to any shape or design required.

3" ACME Threaded Coupler Set
P/N 27430

4" ACME Threaded Coupler Set
P/N 27400

Other sizes available.

All Jeffrey Machine couplers are manufactured from alloy steel material for increased strength, weldability, and machinability. Due to the high carbon content of this alloy steel, special welding procedures are required to minimize cracks in the heat affected zones. Please contact your Jeffrey Machine Representative today if you have any questions regarding this procedure or would like any further information in reference to our extensive line of couplers.
BOULDER EXTRACTORS

46” Boulder Extractor with Scraper

36” Boulder Extractor with .990

36” Boulder Extractor Pitched

BOLDER EXTRACTOR SPECIFICATIONS

Commonly Requested Diameters: 16” – 144”

Kelly boxes: All kelly boxes made to customer specifications

Flight Thickness: 1½”

Options:
- Pitched or Flat
- Rock or Dirt Pilot Optional
AUGER HD REAMING ARMS

3” reaming arms increase the max total cut by 6” total. 6” reaming arms increase the max total cut by 12” total. **Only available for augers 72” and larger.**

When the over cutter arm is set at the center adjustment the outside tooth will be cutting at 3” over the max cut of the auger. This will add 6” to the overall diameter of the auger.

**No extension**

**6” HD 38mm Rock**
P/N 39354P

When the over cutter arm is set at the inner most adjustment the outside tooth will be cutting at 6” over the max cut of the auger. This will add 12” to the overall diameter of the auger.

**Increases max cut by 6”**

**6” HD 38mm Rock**
P/N 39354P

When the over cutter arm is set at the center adjustment the outside tooth will be cutting at 6” over the max cut of the auger. This will add 12” to the overall diameter of the auger.

**Increases max cut by 12”**

**6” HD 38mm Rock**
P/N 39354P
AUGER STANDARD REAMING ARMS

Available for augers 30” or larger diameter.

3” Flat .990 Rock Reaming Arm W/ Hardware
P/N 39380

3” Flat 38mm Rock Reaming Arm W/ Hardware
P/N 39383

3” Flat Dirt Tooth Reaming Arm W/ Hardware
P/N 39386
Kit includes: Reaming arm, bracket, and mounting hardware

6” Flat .990 Rock Reaming Arm W/ Hardware
P/N 39381

6” Flat 38mm Rock Reaming Arm W/ Hardware
P/N 39384

6” Flat Dirt Tooth Reaming Arm W/ Hardware
P/N 39387
WE MANUFACTURE OUR CORE BARRELS AND BUCKETS ANY WAY YOU WANT.

Although our factory has grown in size, we still maintain a machine shop mentality where every order is considered custom. As we’ve grown we’ve invested heavily in top-of-the-line machinery. These tools help us craft high quality solutions individually suited to our customers’ needs on a timely basis.

By manufacturing everything in-house we have complete control of all aspects of design, quality, and cost.
CORE BARRELS

Barrels over 60” are built with cross tops.

CORE BARREL SPECIFICATIONS

Commonly Requested Diameters: 16” – 156”

Kelly boxes: All kelly boxes made to customer specifications

Gussets: 1” thick gussets standard

Barrels:
• Up to 2” thick
• 2” undersize (.990 teeth)
• 3” undersize (38mm teeth)

Height specified by customer

Wear Protection: Available upon request

Hardened holders available upon request.

Top View

96” MC Core Barrel

38mm JeffCut® Holder with: 38mm Dragon’s Tooth® BKH113 B47K22-H B47K19L B47K19H

990 JeffCut® Holder with: B40HDS 990HB .990 Dragon’s Tooth®
48" MC Core Barrel

Layout Pattern Options:

3 TOOTH

5 TOOTH

7 TOOTH
ROLLER CONE BARREL

Best used on rock conditions over 14,500 psi.
Recommended minimum crowd is 10,000 lb. per roller.

ROLLER CONE BARREL SPECIFICATIONS

Commonly Requested Diameters: 16" – 144"

Kelly boxes: All kelly boxes made to customer specifications

Gussets: 1" thick gussets standard

Barrels: Up to 2" thick

Height specified by customer
CORE RINGS & CUSTOM PLATE ROLLING

CORE RINGS SPECIFICATIONS
Replacement core rings are available upon request, or can be ordered as a separate item. All core rings are quoted as a minimum of 12” overall height.

Specifications needed to quote
- Max Cut requirement
- OD of existing barrel
- Tooth pattern: 3, 5, or 7
- Thickness of ring

Custom Plate Rolling
- A-36 rated steel plate standard
- OD x ID x W Specifications needed to quote
- Diameters: 24” – 156”
- Thickness: up to 2” thick mild steel
BELLING TOOL SPECIFICATIONS

Available sizes: 12" – 72"

Wings:
- 3:1 ratio of cylinder
- 45 or 60 degree
- T1 Material

Most Commonly Used Teeth:
- .990 series
- 201 dirt teeth

*Barrel diameters are actual sizes.

Replacement dump mechanism parts available. Ref. Page 56 for more information.
CROSS-CUT CORE BARRELS

Cross-Cut cutter bars are made from A514 / T1 material for increased wear, durability, and long-lasting strength. (A514 T1 - 110,000 -130,000 psi Tensile Strength)

48" Cross-Cut Core Barrel
96" Cross-Cut Core Barrel
82" Cross-Cut Core Barrel

CROSS-CUT CORE BARREL SPECIFICATIONS

Commonly Requested Diameters: 20” – 144”

Kelly boxes: All kelly boxes made to customer specifications

Gussets: 1” thick gussets standard

Barrels:
- Up to 2” thick
- 2” undersize (.990 teeth)
- 3” undersize (38mm teeth)

Cutter Bar: .990 or 38mm options available

Cutter Bar Material: A514 T1 (110,000-130,000 psi Tensile Strength)

Height specified by customer

Wear Protection: Available upon request

TEETH & HOLDERS FOR OUTSIDE DIAMETER

.990 JeffCut® Holder with: B40HDS .990HB .990 Dragon’s Tooth®

38mm JeffCut® Holder with: 38mm Dragon’s Tooth® BKH113 847K22-H 847K19L 847K19H

Custom sizes greater than 144” available upon request.
ROCK MILLS

ROCK MILL SPECIFICATIONS

Diameters: 24”–144”

Ring: 1” thick

Cutter Bar: 4140 Annealed
  (95,000 psi Tensile Strength)

Teeth: Double row configuration:
  • .990 Standard (30122)
  • 38mm B47K19L80-H (30182)

Wear Protection:
  2” x 3” x ½” wear pads (39302)

Machined cutter bars for our Rock Mills are manufactured from 4140 Annealed material for increased strength and machinability. (4140 Annealed - 95,000 psi Tensile Strength)
SINGLE OPEN DIRT DRILLING BUCKET

SINGLE OPEN DIRT DRILLING BUCKET SPECIFICATIONS

Recommended Diameters: 24” – 60”

Kelly boxes: All kelly boxes made to customer specifications

Barrels: Cylinders up to 2” wall available

Barrels undersized to meet max cut specifications

Barrel height: Specified by customer

Barrel details: See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual)

Custom sizes greater than 144” available upon request.

201 Dirt Tooth
P/N 34100

WO-5 Holder
P/N 36010

2.5” SQ JM-08 Dirt Pilot
P/N 40470

4” SQ JM 8” Dirt Pilot
P/N 40260
DOUBLE OPEN DIRT DRILLING BUCKET

**DOUBLE OPEN DIRT DRILLING BUCKET SPECIFICATIONS**

**Recommended Diameters:** 60” – 144”

**Kelly boxes:** All kelly boxes made to customer specifications

**Barrels:** Cylinders up to 2” wall available
Barrels undersized to meet max cut specifications

**Barrel height:** Specified by customer

**Barrel details:** See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual). Custom sizes greater than 144” available upon request.

*Double dump mechanism recommended on barrels 100” diameter and greater.*

---

2.5” SQ. JM-08 Pilot
P/N 40470

4” SQ. JM 8” Dirt Pilot
P/N 40260

201 Dirt Tooth
P/N 34100

WO-5 Holder
P/N 36010

*Not all drive boxes available on all sizes. Please contact us to find out if a particular drive box will fit in this application.*
SINGLE OPEN ROCK DRILLING BUCKET

SINGLE OPEN ROCK DRILLING BUCKET SPECIFICATIONS

Recommended Diameters: 24” – 60”

Kelly boxes: All kelly boxes made to customer specifications

Barrels: Cylinders up to 2” wall available
Barrels undersized to meet max cut specifications

Barrel height: Specified by customer

Barrel details: See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual)
DOUBLE OPEN ROCK DRILLING BUCKET

**SPECIFICATIONS**

**Recommended Diameters:** 60” – 144”

**Kelly boxes:** All kelly boxes made to customer specifications

**Barrels:** Cylinders up to 2” wall available

Barrels undersized to meet max cut specifications

**Barrel height:** Specified by customer

**Barrel details:** See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual)

Custom sizes greater than 144” available upon request.

*Double dump mechanism recommended on barrels 100” diameter and greater.*
HD DRILLING BUCKET CUTTER BAR STYLE SPECIFICATIONS

**Diameters:** 60” – 144”

**Kelly boxes:** All kelly boxes made to customer specifications

**Barrels:** Cylinders up to 2” wall available
Barrels undersized to meet max cut specifications

**Barrel height:** Specified by customer

**Barrel details:** See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual)
Custom sizes greater than 144” available upon request.
TAPERED BOTTOM DRILLING BUCKET

Tapered bottom drilling buckets are designed to trap spoil using a simple hinged door that opens while down pressure is being applied. Emptying the bucket is hassle free with our automatic or manual dumping mechanism. For more information contact one of our sales representatives today.

TAPERED BOTTOM DRILLING BUCKET SPECIFICATIONS

Commonly Requested Diameters: 36” – 144”
Kelly boxes: All kelly boxes made to customer specifications
Barrels: Cylinders up to 2” wall available
Barrels undersized to meet max cut specifications
Barrel height: Specified by customer

Dump Bottom System (Auto or Manual)
Custom sizes greater than 144” available upon request.
SINGLE OPEN CLEAN OUT BUCKET

SINGLE OPEN CLEAN OUT BUCKET SPECIFICATIONS

Recommended Diameters: 24” – 60”
Kelly boxes: All kelly boxes made to customer specifications
Barrels: Cylinders up to 2” wall available
Barrels undersized to meet max cut specifications
Barrel height: Specified by customer
Barrel details: See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual)
DOUBLE OPEN CLEAN OUT BUCKET

SPECIFICATIONS

Recommended Diameters: 60” – 144”
Kelly boxes: All kelly boxes made to customer specifications
Barrels: Cylinders up to 2” wall available
Barrels undersized to meet max cut specifications
Barrel height: Specified by customer
Barrel details: See page 58 for material specifications and pin-on options.

Dump Bottom System (Auto or Manual)
Custom sizes greater than 144” available upon request.
ARROWHEAD DUMP ASSEMBLY

Arrowhead Male
- LARGE P/N 10865
- MEDIUM P/N 10864
- SMALL P/N 10863

Clevis End
P/N 10899 & 10900

Plunger Cap
P/N 10890

Plunger Pin
P/N 10892 & 10894

Plunger Shaft
P/N 10891 & 10893

Plunger Spring
P/N 10895

Plunger Tube
P/N 10889

Pull Handle Receiver
P/N 10867 & 10886

Slide Wedge
P/N 10896, 10897, 10898 & 10901

Spring
P/N 10883

Hinges

Barrel Hinge Plates
- LARGE P/N 10841 & 10845
- MEDIUM P/N 10840 & 10843

Bottom Hinge Plates Large
P/N 10813 & 10814

Bottom Hinge Plates Medium
P/N 10811 & 10812

Hinge Pin

ARROWHEAD FEMALE

Hinge Assembly - Small

DRILLING BUCKET PARTS
**J-Hook Dump Assembly**

- Guide Sleeve: P/N 10918
- Hook: P/N 10920
- Hook Pin: P/N 10919 & 10925
- Hook Shaft: P/N 10917
- Plunger Pin: P/N 10909 & 10916
- Plunger Shaft: P/N 10908 & 10938
- Plunger Spring: P/N 10914
- Plunger Tube: P/N 10906
- J-Hook Dump Assembly

**J-Hook Latch Assembly**

- Latch Bar: P/N 10904
- Side Plate: P/N 10905
- Wrench for Spin Bottom Pin Assembly

**Spin Bottom Pin Assembly**

- Boss: 10819
- Manganese Bronze Bushing: 10822
- Spin Bottom Pin: 10825
- Castle Nut: 10828
- Hex Bolt: 10831
- Hex Nut: 10834

<table>
<thead>
<tr>
<th>ITEM</th>
<th>LARGE P/N</th>
<th>MEDIUM P/N</th>
<th>SMALL P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Boss</td>
<td>10819</td>
<td>10818</td>
<td>10817</td>
</tr>
<tr>
<td>2 Manganese Bronze Bushing</td>
<td>10822</td>
<td>10821</td>
<td>10820</td>
</tr>
<tr>
<td>3 Spin Bottom Pin</td>
<td>10825</td>
<td>10824</td>
<td>10823</td>
</tr>
<tr>
<td>4 Castle Nut</td>
<td>10828</td>
<td>10827</td>
<td>10826</td>
</tr>
<tr>
<td>5 Hex Bolt</td>
<td>10831</td>
<td>10830</td>
<td>10829</td>
</tr>
<tr>
<td>6 Hex Nut</td>
<td>10834</td>
<td>10833</td>
<td>10832</td>
</tr>
</tbody>
</table>

LARGE P/N 10888
MEDIUM P/N 10837
DRILLING BUCKET PARTS

ROCK DRILLING BOTTOM
- Hinge Pin – High Strength Alloy
- Hinge Bushings – Manganese Bronze
- Hinge Plates – A514 T1
- Mid Plate – A572 GR50
- Spin Bottom Pin – 4140 Annealed
- Bottom Plate – A572 GR50
- Cutter Bar – A514 T1

DIRT DRILLING BOTTOM
- Spin Bottom Pin – 4140 Annealed
- Bottom Plate – A572 GR50
- Dirt Cutter Bar – A514 T1

CLEAN OUT BOTTOM
- Spin Bottom Pin – 4140 Annealed
- Bottom Plate – A572 GR50
- Scraper Blade – A514 T1

<table>
<thead>
<tr>
<th>Material Grade</th>
<th>Tensile Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>A572 GR50</td>
<td>58,000 – 80,000 psi</td>
</tr>
<tr>
<td>A514 T1</td>
<td>110,000 – 130,000 psi</td>
</tr>
<tr>
<td>4140 Annealed</td>
<td>95,000 psi</td>
</tr>
<tr>
<td>High Strength Alloy</td>
<td>175,000 psi</td>
</tr>
<tr>
<td>Manganese Bronze</td>
<td>66,700 psi</td>
</tr>
</tbody>
</table>

Pin-on style bottoms allow any of the three options shown above to be used with the same JM bucket. Please contact a Jeffrey Machine Representative with any questions regarding our Drilling & Cleanout Buckets.
OPEN TOP SPIN BOTTOM CLEAN OUT BUCKET

SPECIFICATIONS

Commonly Requested Diameters: 24” – 144” *

Kelly boxes**: All kelly boxes made to customer specifications

Barrels: Up to 2” thick

Barrel height specified by customer

Top Plate: 1” thick material with 1” gussets
• Double stop
• Solid center shaft
• 1½” T-1 scraper blade

Wear Protection: Available upon request

*Custom sizes greater than 144” available upon request

** Not all drive boxes available on all sizes. Please contact us to find out if a particular drive box will fit in this application.
TWIST-LOCK RETRIEVAL BUCKET

TWIST-LOCK RETRIEVAL BUCKET SPECIFICATIONS
Available sizes: 24” – 120”

TEETH & HOLDERS FOR OUTSIDE DIAMETER

<table>
<thead>
<tr>
<th>Teeth &amp; Holders</th>
<th>.990 JeffCut® Holder with:</th>
<th>B40HDS</th>
<th>.990HB</th>
<th>.990 Dragon’s Tooth®</th>
</tr>
</thead>
<tbody>
<tr>
<td>38mm JeffCut®</td>
<td>38mm Dragon’s Tooth®</td>
<td>BKH113</td>
<td>B47K22-H</td>
<td>B47K19L</td>
</tr>
</tbody>
</table>

JEFFREYMACHINE.COM
### FABRICATED DRIVE BOX RATINGS

<table>
<thead>
<tr>
<th>Drive Box</th>
<th>Standard Pin Diameter</th>
<th>Maximum Torque</th>
<th>Maximum Pull-Out Force</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.000&quot; Drive Box</td>
<td>7/8”</td>
<td>40,800 ft-lbs</td>
<td>54,100 lbs</td>
</tr>
<tr>
<td>3.500&quot; Drive Box</td>
<td>7/8”</td>
<td>52,500 ft-lbs</td>
<td>54,100 lbs</td>
</tr>
<tr>
<td>4.000&quot; Drive Box</td>
<td>7/8”</td>
<td>65,500 ft-lbs</td>
<td>54,100 lbs</td>
</tr>
<tr>
<td>4.250&quot; Drive Box</td>
<td>1”</td>
<td>123,000 ft-lbs</td>
<td>70,700 lbs</td>
</tr>
<tr>
<td>4.500&quot; Drive Box</td>
<td>1 1/2”</td>
<td>135,000 ft-lbs</td>
<td>110,000 lbs</td>
</tr>
<tr>
<td>5.000&quot; Drive Box</td>
<td>1 1/2”</td>
<td>160,000 ft-lbs</td>
<td>159,000 lbs</td>
</tr>
<tr>
<td>5.250&quot; Drive Box</td>
<td>1 1/2”</td>
<td>174,000 ft-lbs</td>
<td>159,000 lbs</td>
</tr>
<tr>
<td>6.000&quot; Drive Box</td>
<td>1 1/2”</td>
<td>217,000 ft-lbs</td>
<td>159,000 lbs</td>
</tr>
<tr>
<td>7.000&quot; Drive Box</td>
<td>(2x) 1 1/2”</td>
<td>284,000 ft-lbs</td>
<td>(Double Pin) 318,000 lbs</td>
</tr>
<tr>
<td>130mm Drive Box</td>
<td>1 1/2”</td>
<td>167,000 ft-lbs</td>
<td>159,000 lbs</td>
</tr>
<tr>
<td>150mm Drive Box</td>
<td>1 3/4”</td>
<td>210,000 ft-lbs</td>
<td>216,000 lbs</td>
</tr>
<tr>
<td>200mm Drive Box 18in Short Hole</td>
<td>2 3/8”</td>
<td>359,000 ft-lbs</td>
<td>(Double Pin) 797,000 lbs</td>
</tr>
<tr>
<td>200mm Drive Box HD 18in Short Hole</td>
<td>2 3/8”</td>
<td>511,000 ft-lbs</td>
<td>(Double Pin) 797,000 lbs</td>
</tr>
<tr>
<td>200mm Drive Box 18in Tall Hole</td>
<td>2 3/8”</td>
<td>359,000 ft-lbs</td>
<td>(Double Pin) 797,000 lbs</td>
</tr>
<tr>
<td>200mm Drive Box HD 18in Tall Hole</td>
<td>2 3/8”</td>
<td>511,000 ft-lbs</td>
<td>(Double Pin) 797,000 lbs</td>
</tr>
<tr>
<td>200mm Drive Box 21.500in</td>
<td>2 3/8”</td>
<td>359,000 ft-lbs</td>
<td>(Double Pin) 797,000 lbs</td>
</tr>
<tr>
<td>200mm Drive Box HD 21.500in</td>
<td>2 3/8”</td>
<td>511,000 ft-lbs</td>
<td>(Double Pin) 797,000 lbs</td>
</tr>
</tbody>
</table>

Jeffrey Machine Drive Boxes are *PE Certified.
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**DRIVE BOX ADAPTERS**

**200mm Drive Box HD 21.5”**
P/N 43678

**200mm Drive Box to 4.000in Sq. Male Adapter**
P/N  28500DBX400SM

**5.000in Drive Box to 4.000in Sq. Male Adapter**
P/N 28500DBX400SM

**200mm Drive Box to 7.000in Sq. Male Adapter**
P/N 28200DBX700SM

**ADAPTER DISCLAIMER:** This adapter exceeds the torque rating. Failure can and may occur. Jeffrey Machine will not be held responsible for failure due to over torque. Jeffrey Machine reserves the right to inspect if failure occurs.

*Jeffrey Machine Drive Boxes are *PE Certified.*
SHIM BOXES

If you have multiple size kelly bars you can buy 1 tool and 3 shim boxes instead of buying 4 different tools.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>98525X350SB</td>
<td>5-1/4” to 3-1/2” SHIM BOX</td>
</tr>
<tr>
<td>98525X400SB</td>
<td>5-1/4” to 4” SHIM BOX</td>
</tr>
<tr>
<td>98525X425SB</td>
<td>5-1/4” to 4-1/4” SHIM BOX</td>
</tr>
<tr>
<td>98700X130SB</td>
<td>7” to 130mm SHIM BOX</td>
</tr>
<tr>
<td>98700X525SB</td>
<td>7” to 5-1/4” SHIM BOX</td>
</tr>
<tr>
<td>98700X600SB</td>
<td>7” to 6” SHIM BOX</td>
</tr>
<tr>
<td>98200SX700SB</td>
<td>200mm to 7” SHIM BOX</td>
</tr>
<tr>
<td>98200TX700SB</td>
<td>200mm TALL SHIM BOX</td>
</tr>
</tbody>
</table>

SHIM BOX CLAUSE: Shim boxes are made to fit Jeffrey Machine manufactured Kelly Drive boxes. Our shim boxes are fabricated then machined for a precise fit. Jeffrey Machines shim boxes are not guaranteed to fit in other manufactures boxes, for true measurements on shims please contact one of our sales representatives for more information.
**TEETH**

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**.990 Teeth**

- **.990 Dragon's Tooth®**
  - P/N 30145
  - 9/16" (15mm)
  - 7/8" (22mm)

- **.990HB Conical Tooth**
  - P/N 30122
  - 1" (25mm)
  - 3/4" (19mm)

- **.990 Dirt Tooth**
  - P/N 34380
  - 1/2" (12mm)
  - 9/16" (15mm)

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**38mm Teeth**

- **38mm Dragon's Tooth®**
  - P/N 30188
  - 7/8" (22mm)

- **BKH113 30mm Carbide**
  - (80mm Gauge)
  - P/N 30225
  - 1 3/16" (30mm)
  - 1 3/16" (30mm)

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**.990 Teeth**

- **B40 HDS**
  - P/N 30155
  - 1" (25mm)
  - 1 1/2" (38mm)

- **.990 Dirt Tooth**
  - P/N 34380
  - 1/2" (12mm)
  - 9/16" (15mm)
38mm Teeth

B47K19H
P/N 30162

B47K19L
P/N 30182

BFZ 100X70/2
Tooth
P/N 34172

JMI 113X70
P/N 34241

B47K22-H
P/N 30212

55-1S / C4-1
P/N 30242

1 1/2" (38mm)

3/4" (19mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

2 1/2" (63mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

2 1/2" (63mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

2 1/2" (63mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)

3/4" (19mm)

1 1/8" (29mm)

1 3/16" (30mm)

1 1/2" (38mm)

1 15/16" (50mm)
Hard Surfaced Teeth

B47K19-L
Hard Surfaced
P/N 30185

B47K19-H
Hard Surfaced
P/N 30164

BKH113 30mm
Carbide
Hard Surfaced
P/N 30226

.990HB Conical Tooth
Hard Surfaced
P/N 30126
38mm Holders

38mm Dragon's Tooth® Holder
P/N 32058

JeffCut® 38mm Holder
P/N 32152

JM43 Holder
P/N 32050

JM48 Holder
P/N 32061

JM85 Machine Holder
P/N 32060

JM85 Machine Holder for C4-1
P/N 32092
DIRT TEETH & HOLDERS

#201 Dirt Tooth
P/N 34100

#211 Dirt Tooth
P/N 34110

#132 Dirt Tooth
P/N 34251

#134 Dirt Tooth
P/N 34255

W0-5 Holder
P/N 36010

#299 Dirt Tooth
P/N 34131

TC-212 Tooth
P/N 34274
#101 Dirt Tooth
P/N 34070

W0-1 Holder
P/N 36000

#111 Dirt Tooth
P/N 34080
PILOT BITS

2 1/2” (63.5mm) 7 1/4” (184mm) CUT DIAMETER 2 1/2” SQ. .990 Dragon’s Tooth® Pilot P/N 40216

2 3/8” (60.3mm) 7 1/4” (184mm) CUT DIAMETER 2 3/8” Reg API .990 Pilot P/N 40410

3 1/2” (88.9mm) 7 1/4” (184mm) CUT DIAMETER 3 1/2” Reg API .990 Pilot P/N 40460

3 1/2” (88.9mm) 7 1/4” (184mm) CUT DIAMETER 3 1/2” IF .990 Pilot P/N 40520

3 1/2” (88.9mm) 7 1/4” (184mm) CUT DIAMETER 3 1/2” (88.9mm)

2 7/8” (73mm) 3 1/2” (88.9mm)

3 1/2” (88.9mm) 7 1/4” (184mm) CUT DIAMETER 3 1/2” (88.9mm)

3 1/2” (88.9mm) 7 1/4” (184mm) CUT DIAMETER 2 3/8” (60.3mm) REGULAR API

2 1/2” (63.5mm) 7 1/4” (184mm) CUT DIAMETER 2 1/2” SQ. DB-6 Pilot P/N 40220

5 3/4” (146mm) 10 3/8” (264mm) CUT DIAMETER 2 1/2” SQ. .990 Dragon’s Tooth® Pilot P/N 40216

3” (77mm) 2 7/8” (73mm) REGULAR API

2 1/2” (63.5mm) 7 1/4” (184mm) CUT DIAMETER 2 9/16” (65mm)

2.1/2” SQ. BP-08 Pilot P/N 40470

2 1/2” SQ. Pilot Adapter P/N 402040
4” SQ. JM 8” Dirt Pilot
P/N 40260

4” SQ. JM 12” Dirt Pilot
P/N 40264

RP-4 Cast Pilot
P/N 40280

RP-4 Machined Pilot
P/N 40287

177mm SQ. Pilot Adapter
P/N 42080
MISCELLANEOUS PARTS

CJ2 Holder
P/N 36070

CJ2 Tooth
P/N 34220

2” x 3” x 1/2” Wear Pads
P/N 39302

2” x 3” x 5/8” Wear Pads
P/N 39304

1 1/2” X 3” X 1/2” Wear Pads
P/N 39303

2” x 3” x 1/2” Wear Pads
P/N 39302

2” x 3” x 5/8” Wear Pads
P/N 39304

1 1/2” X 3” X 1/2” Wear Pads
P/N 39303

3/4” Hex Weld Bars
P/N 34350

1 1/8” Hex Weld Bars
P/N 34340

1 3/8” Hex Weld Bars
P/N 34330

Soft Hammer
P/N 39150

Knock Out Punch
P/N 30562
Recommended for Dragon’s Teeth®

BULLET TOOTH PULLERS

123 Bullet Tooth Puller
P/N 30542

.990 Bullet Tooth Puller
P/N 30512

38mm Series Puller
P/N 30524

Jeffrey Combination
Knock Out & Tooth Insertion Tool
P/N 30570
Products manufactured by Jeffrey Machine are subject to wear; and occasional breakage should, therefore, be expected.

Jeffrey Machine products are warranted from defects in material and workmanship for a period of 30 days from the date of invoice.

Jeffrey Machine reserves the right to inspect all failure that may occur before any repairs or modifications from original manufacturing design are performed.

Any repairs or modifications performed without written permission from Jeffrey Machine will void all warranty.

In no event shall Jeffrey Machine be liable for consequential or incidental damages.
Derrick augers come equipped with heavy duty hex collars.

D.O.M. Hydraulic Tube 85,000 P.S.I.

It’s important to note that we manufacture all of our own tools so we can tightly control the quality. We can also customize as needed.

Gusset (extra flighting start) for better balanced cut and added strength means less wear and tear on your rig.

Augers come equipped with 1” thick lower flighting.
SELECT YOUR MODIFICATIONS
Mix and match shanks, bits and pilots for a large number of possibilities that can be made to specifically fit your application.

HEX COUPLERS, HUBS & ADAPTERS
Available in multiple sizes, SEE PAGE 94.

AUGER LENGTH
Overall length of 104”.

FLIGHTING
40” to 60” of 3/8” flighting available. SEE PAGE 121.

MEDIUM DUTY CENTER HEADS
Available from 8” to 48”, SEE PAGE 95.

SHANK PLATES
Available in multiple teeth type and quantities, SEE PAGES 96-97.

TEETH
For a list of available teeth for Derrick Augers, SEE PAGE 99.

PILOT ADAPTERS
For a pilot adapter available, SEE PAGE 105.

PILOT BITS
For a list of all available, SEE PAGES 104-105.

Custom orders cannot be refunded, canceled, or returned for any reason.
4 BASIC SET-UPS

MEDIUM DUTY DIRT
Loose and compacted soils, stiff clays and soft shelves. (SHOWN ABOVE)

MEDIUM DUTY BOLT-ON BULLET
Limestone, lava rock, medium sandstone and frozen materials. Medium to hard formations. (SEE PAGE 90)

MEDIUM DUTY CARBIDE
High abrasion, frozen soil, low impact. (SHOWN ABOVE)

MEDIUM DUTY BOLT-ON DRAGON’S TOOTH®
Aggressively cuts through limestone, coral, lava rock, medium sandstone and frozen materials. Medium to hard formations. (SEE PAGE 91)
UTILITY DIRT TOOTH AUGER

The right tool for loose and compacted soils, stiff clays, and soft shales.

UTILITY DIRT AUGER WITH FH-205 DIRT PILOT

- 2”, 2 1/2”, and 2 5/8” hex hubs.
- Overall length of 104”, with 40” to 60” of 3/8” thick flighting.

<table>
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<tr>
<th>Diameter</th>
<th>Part No.</th>
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MEDIUM DUTY BOLT-ON CARBIDE AUGER

The right tool for high abrasion, frozen soil, and low impact.

MEDIUM DUTY BOLT-ON CARBIDE AUGER WITH FH-205HFTC CARBIDE PILOT PILOT

- 2", 2 1/2", and 2 5/8" hex hubs.
- Overall length of 104", with 40” to 60” of 3/8” thick flighting.

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1656 Carbide Tooth
P/N 34030

FH-205HFTC
P/N 40010

1658 Carbide Tooth
P/N 34040
MEDIUM DUTY BULLET TOOTH AUGER

The right tool for solid rock, fracturable rock, and compacted soils.

MEDIUM DUTY BULLET TOOTH AUGER WITH 1 3/4” SQUARE ROCK PILOT OR API ROCK PILOT

- 2”, 2 1/2”, and 2 5/8” hex hubs.
- Overall length of 104”, with 40” to 60” of flighting.
- 1” thick lower flight, 3/8” upper flight, and standard pilot bit.

<table>
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<tr>
<th>Diameter</th>
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MEDIUM DUTY DRAGON’S TOOTH® AUGER

The right tool for solid rock, fracturable rock, and compacted soils.

MEDIUM DUTY DRAGON’S TOOTH® AUGER WITH 1 3/4” SQUARE ROCK PILOT

- 2”, 2 1/2”, and 2 5/8” hex hubs.
- Overall length of 104”, with 40” to 60” of 3/8” thick flighting.
- 1” thick lower flight, 3/8” upper flight, and standard pilot bit.

<table>
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* The Dragon’s Tooth® is an original design of Jeffrey Machine, Inc.
MEDIUM DUTY BOLT-ON BULLET TOOTH AUGER

The right tool for limestone, lava rock, medium sandstone, and frozen materials. Best used in medium to hard formations.

UTILITY BOLT-ON BULLET AUGER WITH RCP-6.5 ROCK PILOT

- 2”, 2 1/2”, and 2 5/8” hex hubs.
- Overall length of 104”, with 40” to 60” of 3/8” thick flighting.
- RCP-6.5 Rock Pilot

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Part No.</th>
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RCP-6.5 Pilot
P/N 40240

.875 Bullet Tooth
P/N 30082

Rock Shank Plate
Reference page 96 for available sizes
MEDIUM DUTY BOLT-ON DRAGON’S TOOTH® AUGER

Consumes limestone, lava rock, coral, medium sandstone, and frozen materials. Excels in medium to hard formations.

UTILITY BOLT-ON DRAGON’S TOOTH® WITH DCP-6.5 ROCK PILOT

- 2”, 2 1/2”, and 2 5/8” hex hubs.
- Overall length of 104”, with 40” to 60” of 3/8” thick flighting.

<table>
<thead>
<tr>
<th>Diameter</th>
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*The Dragon’s Tooth® is an original design of Jeffrey Machine, Inc.*
SPIRAL DRAGON’S TOOTH® ROCK AUGER

The right tool for solid rock, fracturable rock, and compacted soils.

• 2”, 2 1/2”, and 2 5/8” hex hubs.
• Overall length of 104”, with 40” to 60” of 3/8” thick flighting.
• 1” thick lower flight, 3/8” upper flight, and standard pilot bit.

<table>
<thead>
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<th>Diameter</th>
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<td>42-104-48SDA</td>
</tr>
<tr>
<td>48”</td>
<td>48-104-48SDA</td>
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</table>
HEX COUPLERS, HUBS & ADAPTERS

HEX ADAPTERS

- **2.5” Hex Hub X 2” Hex Male**
  - P/N 28000

- **2.5” Hex Hub X 2.625” Hex Male**
  - P/N 28002

- **2” Hex Hub X 2.5” Hex Male**
  - P/N 28003

- **2.625” Hex Hub X 2.5” Hex Male**
  - P/N 28004

HEX COUPLERS

- **2” Hex X 2” Hex Coupler**
  - P/N 27000F

- **2.5” Hex X 2” Hex Coupler**
  - P/N 27010

- **2.625” Hex X 2.625” Hex Coupler**
  - P/N 27020F

- **2.625” Hex X 2” Hex Coupler**
  - P/N 27030

- **2.625” Hex X 2.5” Hex Coupler**
  - P/N 27040

- **2.5” Hex X 2.5” Hex Coupler**
  - P/N 27050

HEX HUBS

- **2” Hex Hub**
  - P/N 43030

- **2 1/2” Hex Hub**
  - P/N 43040

- **2 5/8” Hex Hub**
  - P/N 43050

- **3” Hex Hub**
  - P/N 43060
# MEDIUM DUTY CENTER HEADS

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8" MD Center Head
P/N 38000

12" MD Center Head
P/N 38030

18" MD Center Head
P/N 38060

24" MD Center Head
P/N 38090

30" MD Center Head
P/N 38100

48" MD Center Head
P/N 38130
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*Only outside shank. Must be used with a 36 x 1 or 36 x 2 shank sold separately.
ROCK SHANK KITS

Includes shank plates for bullet teeth and Dragon’s Teeth®, the teeth and pilots.

ROCK SHANK KIT

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<th>Quantity of Teeth per Shank</th>
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<td>RSK20 Shank Plate Kit &amp; Pilot (37920)</td>
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<td>RSK24 Shank Plate Kit &amp; Pilot (37930)</td>
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DRAGON’S TOOTH® SHANK KIT

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<td>DSK24 Dragon’s Tooth® Shank Plate Kit (37970)</td>
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TWIN HELIX AUGER

SPECIFICATIONS

Commonly Requested Diameters: 18” – 36”

Type: Medium Duty Boring Head (type-6)

Cut: DC/DF or DC/SF

Kelly boxes: All kelly boxes made to customer specifications

Center Shaft: 4” Solid Shaft

Flight: 3/8” - 1” thickness available

CONSOLIDATED ROCK / ABRASIVE SOIL PILOT

Carbide - 1656 / 1658 teeth
PIN 40050 (P1656)

Dirt - 1650 / 1652 teeth
PIN 40040 (P1650)
TEETH & HOLDERS

16 Series

Standard Digging 1650 Dirt Tooth
- P/N 34000

Standard Digging 1652 Gauge Tooth
- P/N 34010

Tungsten Carbide Tooth 1656
- Highly abrasive soil
- Low impact
- P/N 34030

Carbide Gauge Tooth 1658
- Highly abrasive soil
- P/N 34040

1650 HFFTC Tooth
- Abrasive soil
- Impact, hard faced with carbide chips on two sides
- P/N 34002

1ft. Length Rubber Lok
- P/N 39110

1 X S Holder
- P/N 36040

WT50 Holder
- P/N 36050
TEETH & HOLDERS

20 Series

2077 Carbide Tooth
P/N 34050

2 7/8" (72mm)
5" (128mm)

2078 Carbide Tooth
P/N 34060

2 7/8" (72mm)
5" (128mm)

WA-70
P/N 36030

2 1/2" (64mm)
5" (128mm)
**TEETH & HOLDERS**

**CARBIDE FACED TOOTH**
- Carbide faced tooth for the step rock auger
- Best used in solid, non-fracturable rock

**ACCESSORIES**

**BULLET TOOTH PULLERS**

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<th>Code</th>
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<td>39110</td>
<td>1 ft. Length Rubber Lock</td>
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<td>39150</td>
<td>Soft Hammer</td>
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**123 Bullet Tooth Puller**
Fits .735, .765 and .875 Teeth
P/N 30542

**Knock Out Punch**
P/N 30562
TEETH & HOLDERS

.735CB Conical Tooth
P/N 30012

.735HB Conical Tooth
P/N 30022

.765CB Conical Tooth
P/N 30042

.765HB Conical Tooth
P/N 30062

.765HS Conical Tooth
P/N 30072

.875CS Conical Tooth
P/N 30082
**DRAGON’S TOOTH® NON-ROTATING TOOTH**

- Fits .875 Dragon’s Tooth® holder
- Non-rotating design
- Large long-life carbide
- Shank plates and pilots available
PILOT BITS & ADAPTERS

**RCP 6.5 BOLT-ON AUGER PILOT**
- 6 1/2" Cut Diameter
- .875 Bullet Teeth and CP-18 Carbide Pilot Tip
- P/N 40240

**STANDARD DIRT PILOT - FH205**
- Best utilized in standard dirt applications
- P/N 40000

**CONSOLIDATED ROCK / ABRASIVE SOIL PILOT**
- Carbide - 1656 / 1658 teeth
  - P/N 40050 (P1656)
- Dirt - 1650 / 1652 teeth
  - P/N 40040 (P1650)

**CONSOLIDATED ROCK / ABRASIVE SOIL PILOT**
- Hard faced both sides
- Impact possible
- P/N 40010 (FH205-HFTC)

**5" CARBIDE TIPPED DRILL HEAD 5.0-TCH-171**
- 5" diameter carbide tipped drill head is best used in concrete, stone, and frozen ground
- P/N 40060

**CP-18 PILOT**
- 1 1/8" - 4 UNC
- P/N 40390

**4 3/4" CARBIDE PILOT (2 3/8" API THREAD)**
- Best used in solid, non-fracturable rock
- P/N 40080 (P6000)

**1 3/4" SQUARE .765 ROCK PILOT**
- Works well on fractured to non-fractured rock. Also available with 2 3/8" API thread.
- P/N 40180

**PILOT ADAPTER PA-183-L**
- Comes with a bolt and nut
- P/N 42010
# KELLY BARS

## KELLY BAR HEX EXTENSION SHAFTS WITH HUB & HOLES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Hub Size</th>
<th>Bar Size</th>
<th>Bar Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>25025</td>
<td>2&quot;</td>
<td>2&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>25075</td>
<td>2 1/2&quot;</td>
<td>2 1/2&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>25130</td>
<td>2 5/8&quot;</td>
<td>2 5/8&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>25140</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>72&quot;</td>
</tr>
</tbody>
</table>

## KELLY BAR HEX EXTENSION SHAFTS WITH HOLES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Bar Size</th>
<th>Bar Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>25005</td>
<td>2&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>25055</td>
<td>2 1/2&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>25095</td>
<td>2 5/8&quot;</td>
<td>72&quot;</td>
</tr>
<tr>
<td>25145</td>
<td>3&quot;</td>
<td>72&quot;</td>
</tr>
</tbody>
</table>

*Custom lengths and combinations of hubs and kelly bars available*
DERRICK CORE BARREL

DERRICK CORE BARREL SPECIFICATIONS

Common Diameters: 16”, 18”, 20”, 24” (Other sizes available upon request.)

Hex Hubs: 2”, 2 1/2”, 2 5/8” and 3”

Extensions: Standard length approx. 83”. Hex connecting pin and hardware included. (Length can be specified by customer.)

Barrels: 1” wall. Solid, single or double window available.

Barrel Height: Standard height is 36”. (Height can be specified by customer.)

*.990 Conical and .990 Dragon’s Tooth® available for Derrick Core Barrels using 3” Hex.

*.875 JeffCut® Holder
P/N 32004

.735 Holder
P/N 32011

.765 Holder
P/N 32021

.875 Holder
P/N 32004

.735CB Conical Tooth
P/N 30012

.765CB Conical Tooth
P/N 30042

.875CS Conical Tooth
P/N 30082

.875 Dragon’s Tooth®
P/N 30112-N

.875 Holder
P/N 32004
LIGHT DUTY AUGERS

Available in sizes 6” to 48”

LIGHT DUTY ROCK AUGER
WITH 1¾” SQUARE ROCK PILOT WITH .765 TEETH
• 2”, 2 1/2”, 2 5/8” hex hubs
• 2”, 2 9/16” round hubs
• Overall length of 42” - 48”
• 1” thick lower flight, 3/8” upper flight

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6”</td>
<td>9706LDRA</td>
</tr>
<tr>
<td>8”</td>
<td>9708LDRA</td>
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<tr>
<td>9”</td>
<td>9709LDRA</td>
</tr>
<tr>
<td>10”</td>
<td>9710LDRA</td>
</tr>
<tr>
<td>12”</td>
<td>9712LDRA</td>
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<tr>
<td>14”</td>
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<tr>
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<tr>
<td>20”</td>
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<td>42”</td>
<td>9742LDRA</td>
</tr>
<tr>
<td>48”</td>
<td>9748LDRA</td>
</tr>
</tbody>
</table>

LIGHT DUTY DIRT/CARBIDE AUGER
WITH 35 SERIES DIRT OR CARBIDE TEETH
• 2”, 2 1/2”, 2 5/8” hex hubs
• 2”, 2 9/16” round hubs
• Overall length of 42” - 48”
• 3/8” thick flighting

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Dirt P/N</th>
<th>Carbide P/N</th>
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</thead>
<tbody>
<tr>
<td>6”</td>
<td>9706LDDA</td>
<td>9706LDC</td>
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<tr>
<td>8”</td>
<td>9708LDDA</td>
<td>9708LDC</td>
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<tr>
<td>9”</td>
<td>9709LDDA</td>
<td>9709LDC</td>
</tr>
<tr>
<td>10”</td>
<td>9710LDDA</td>
<td>9710LDC</td>
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<tr>
<td>12”</td>
<td>9712LDDA</td>
<td>9712LDC</td>
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<tr>
<td>15”</td>
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<tr>
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<tr>
<td>42”</td>
<td>9742LDDA</td>
<td>9742LDC</td>
</tr>
<tr>
<td>48”</td>
<td>9748LDDA</td>
<td>9748LDC</td>
</tr>
</tbody>
</table>

18” LD Boring Head  P/N 47070
24” LD Boring Head  P/N 47090
36” LD Boring Head  P/N 47110
42” LD Boring Head  P/N 47120
48” LD Boring Head  P/N 47130
LIGHT DUTY TEETH, PILOTS & ACCESSORIES

13 Series

1335 Dirt Tooth
Application: Ordinary digging
P/N 45000

1335-HFF Carbide Hard Faced Tooth
Application: Abrasive frozen soil
P/N 45020

1336 Carbide Insert Tooth
Application: Abrasive frozen soil
P/N 45030

1337 Gauge Dirt Tooth
Application: Ordinary digging
P/N 45040

1338 Carbide Gauge Tooth
Application: Abrasive frozen soil
P/N 45110

5T30 Chisel Point Tooth
Application: Loose rock, compacted
P/N 45070

5T30-C Chisel Point Tooth with Carbide
Application: Compacted rock, abrasive soil - no impact
P/N 45080

BC58F Dirt Tooth
Application: Ordinary digging
P/N 45102

1.250in Dirt Pilot (82-P2-35)
P/N 46070

82-P2-34 LD 1.250in Sq. Pilot Adapter
P/N 46090

2 9/16in Round Hex Hub
P/N 43060

0.625in Plow Bolt and Nut
P/N 45125
The light duty auger rack can hold up to eight augers in sizes ranging from a 3” Hex Hub to a 2” Hex Hub. Also, if you need storage space you can have up to six drawers installed for parts and pieces. It is meant to be mobile, so put it in the back of your work truck to have all your tools and pieces ready to go at the jobsite.
**5 ¼” BOLT CIRCLE KELLY BAR ADAPTERS**
For 10,000 ft. lb. maximum installing torque

Each of these Kelly bar adapters has six holes for ½” bolts on a 5¼” bolt circle and comes with six ½” grade 5 bolts, nuts and lock washers, and a bent arm pin with coil lock.

- **2” Kelly Bar Adapter**
  - Shape: Hex
  - Weight: 10 lb.
  - Dimensions: X: 2” Y: 5” Z: 6 1/8”
  - P/N 20350

- **2 1/2” Kelly Bar Adapter**
  - Shape: Hex
  - Weight: 10 lb.
  - Dimensions: X: 2 1/2” Y: 4 1/4” Z: 8 1/4”
  - P/N 20040

- **2 5/8” Kelly Bar Adapter**
  - Shape: Hex
  - Weight: 10 lb.
  - Dimensions: X: 2 5/8” Y: 4 1/4” Z: 8 1/4”
  - P/N 20050

**STANDARD LOCKING DOG ASSEMBLY**
For 10,000 ft. lb. maximum installing torque

Has six ½” holes on 5¼” bolt circle, and includes six ½” grade 5 bolts, nuts and lock washers.

- **Standard Locking Dog**
  - P/N 20090

- **6 Bolt Locking Dog Replacement Kit**
  - P/N 20101

**FOR SS HELICAL PIER ANCHORS**
These drive tools require the appropriate Kelly bar adapter. Each comes with bolts, nuts and lock washers, and a bent arm retaining pin with coil lock.

- **SS5/SS150 Anchor Series**
  - Bolt Circle: 5 1/4”
  - 6 Holes: 1/2”
  - Approx. Weight: 7 lb.
  - P/N 20030

- **SS175 Anchor Series**
  - Bolt Circle: 7 5/8”
  - 12 Holes: 5/8”
  - Approx. Weight: 18 lb.
  - P/N 20131

- **SS5/SS150/RR Drive Tool Fits 6 Bolt Locking Dog**
  - Approx. Weight: 8 lb.
  - P/N 20081

- **SS5/SS150/RR Drive Tool Fits 12 Bolt Locking Dog**
  - Approx. Weight: 11 lb.
  - P/N 20231
7 5/8” BOLT CIRCLE KELLY BAR ADAPTERS
For 15,000 ft. lb. maximum installing torque

Each of these Kelly Bar Adapters has twelve holes for 5/8” bolts on a 7 5/8” bolt circle and comes with twelve 5/8” grade 2 bolts, nuts and lock washers, and bent arm pin with coil lock.

2 1/2” Kelly Bar Adapter
Shape: Hex
Weight: 23 lb.
Dimensions: X: 2 1/2” Y: 4 3/8” Z: 8 1/4”
P/N 20140

2 5/8” Kelly Bar Adapter
Shape: Hex
Weight: 23 lb.
Dimensions: X: 2 5/8” Y: 4 3/8” Z: 8 1/4”
P/N 20150

3” Kelly Bar Adapter
Shape: Hex
Weight: 23 lb.
Dimensions: X: 3” Y: 3 1/2” Z: 8”
P/N 20411

3” Kelly Bar Adapter
Shape: Square
Weight: 27 lb.
Dimensions: X: 3” Y: 3 1/2” & 2 1/16” Z: 7”
P/N 20451

STANDARD LOCKING DOG ASSEMBLY
For 15,000 ft. lb. maximum installing torque

12 Bolt Locking Dog
P/N 20170

12 Bolt Locking Dog Replacement Kit
P/N 20221

ANCHOR INSTALLATION TOOLS

SAT-1
P/N 20345

SAT-80
P/N 20340
### Part No. Description Weight, ea.

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight, ea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20190</td>
<td>Installs 15,000 ft.lb. (large hub) drive string system anchors 8,000 ft.lb. (large hub) drive string system and all 1 1/2&quot; core anchors</td>
<td>73 lb.</td>
</tr>
<tr>
<td>20250</td>
<td>Hybrid drive-end wrench installs 8,000 ft.lb. (large hub) anchors, 6,000 ft.lb. anchors, 7,000 ft.lb. anchors</td>
<td>64 lb.</td>
</tr>
<tr>
<td>20060</td>
<td>Standard drive-end wrench installs 8,000 ft.lb. (small hub) anchors, 10,000 ft.lb. (small hub) anchors, 4,000 ft.-lb. anchors, 6,000 ft.lb. anchors</td>
<td>57 lb.</td>
</tr>
<tr>
<td>20321M</td>
<td>Reduced drive-end wrench installs 8,000 ft.lb. (small hub) anchors, 10,000 ft.lb. (small hub) anchors, 4,000 ft.lb. anchors, 6,000 ft.lb. anchors (Fits 12 Bolt Locking Dog)</td>
<td>73 lb.</td>
</tr>
</tbody>
</table>
3½ FT. DRIVE-END WRENCH

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight, ea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20180</td>
<td>Installs 15,000 ft.lb. (large hub) drive string system anchors 8,000 ft.lb.</td>
<td>36 lb.</td>
</tr>
<tr>
<td></td>
<td>(large hub) drive string system and all 1½&quot; core anchors</td>
<td></td>
</tr>
<tr>
<td>20240</td>
<td>Hybrid drive-end wrench installs 8,000 ft.lb. (large hub) anchors, 6,000 ft.lb.</td>
<td>28 lb.</td>
</tr>
<tr>
<td></td>
<td>anchors, 7,000 ft.lb. anchors</td>
<td></td>
</tr>
<tr>
<td>20070</td>
<td>Standard drive-end wrench installs 8,000 ft.lb. (small hub) anchors, 10,000 ft.lb.</td>
<td>29 lb.</td>
</tr>
<tr>
<td></td>
<td>(small hub) anchors, 4,000 ft.lb. anchors, 6,000 ft.lb. anchors</td>
<td></td>
</tr>
</tbody>
</table>

EXTENSION WRENCHES

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Description</th>
<th>Weight, ea.</th>
</tr>
</thead>
<tbody>
<tr>
<td>20200</td>
<td>3½ ft. Extension Wrench</td>
<td>53 lb.</td>
</tr>
<tr>
<td></td>
<td>Red Bar</td>
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</tr>
<tr>
<td>20010</td>
<td>3½ ft. Extension Wrench</td>
<td>42 lb.</td>
</tr>
<tr>
<td></td>
<td>Orange Bar</td>
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</tr>
<tr>
<td>20070</td>
<td>7 ft. Drive-End Wrench</td>
<td>28 lb.</td>
</tr>
<tr>
<td></td>
<td>Orange Bar</td>
<td></td>
</tr>
<tr>
<td>20020</td>
<td>7 ft. Extension Wrench</td>
<td>70 lb.</td>
</tr>
<tr>
<td></td>
<td>Yellow Bar</td>
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</tbody>
</table>
PERFORMANCE TEAM SET-UP (PTS)

It’s quick and easy – that’s why our customers love it.

No more hunting down the anchor installation parts, or swapping the kelly bar because you no longer need one! Everything stays pinned up to the digger drive and runs off the locking dog.
PERFORMANCE TEAM SET-UP AUGER:
- Available in 16”, 18”, and 24” sizes (Other sizes available upon request)
- Dirt or carbide teeth
- Special PTS square drive box

PERFORMANCE TEAM SET-UP:
- 2 1/2” or 2 5/8” Kelly Bar adapter
- 12 Bolt Locking Dog
- Reduced end or red end anchor bar
- Bolt with click pin for Kelly Bar connection
- Chain with bolt and click pin
- Pin 5/8” x 6” with click pin, lanyard, swivel handle, for auger connection
TRUCK ACCESSORIES

Telescopic Light Bar Assembly
P/N 10000

Threaded Pole Extractor
P/N 10020

Swivel Sheave 16,000lbs
P/N 10045

Swivel Sheave 30,000lbs
P/N 10050

3/4" Diameter Cable Step
Small Cable Step (4-3/4" X 12")
P/N 10055

1 1/4" Diameter Cable Step
Large Cable Step (12" X 12")
P/N 10060

Swivel Sheave 30,000lbs
P/N 10050

Hook Rack Fixed
P/N 10180

Hook Rack Swivel
(3 Hooks)
P/N 10185

Hook Rack Fixed
(6 Hooks)
P/N 10210

Hook Rack Swivel
(6 Hooks)
P/N 10215

Utility Pole Safety Light
P/N 10130

Top Load Chock Block Holder
P/N 10165

Chock Block Holder
Left Side
P/N 10170

Chock Block Holder
Right Side
P/N 10175

Pull Out Step (14" X 24")
P/N 10070

Ladder Step
P/N 10125

CLOSED

OPEN
- **Cage Spider Reel** (4-3/4" X 12")  P/N 10255
- **Guy Wire Spider Reel** (11" Wide)  P/N 10260
- **Guy Wire Basket** (6" Wide)  P/N 10266
- **“A” Frame Spider Reel**  P/N 10280

- **Stand Up Spider Reel**  P/N 10285
- **Stand Up Spider Reel Base**  P/N 10290
- **Double Spider Reel**  P/N 10295
- **Duplex-Triplex Wire Basket**  P/N 10300

- **CB Draw Bar**  P/N 10310
- **Wire Storage Rack (Bicycle)**  P/N 10330
- **Outrigger Pad Rack Double**  P/N 10395
- **Trailer Jack Pivot Set**  P/N 10510

- **Bucket Rest Kit**  P/N 10440
- **4 Tube Scud Launcher**  P/N 10475
- **CR Reel**  P/N 10305

**Explosion View**

**JeffreyMachine.com**
FLIGHTING

SPECIFICATIONS NEEDED TO QUOTE:

- Outside diameter
- Pitch
- Inside diameter
- Thickness
- Specify right or left hand flighting
CORPORATE OFFICE
3841 Industrial Drive
Birmingham, AL
205.841.8600

TEXAS
817.545.8677

JeffreyMachine.com

Specifications are subject to change without notice.