



JEFFREY MACHINE INC

DRIVEN BY PRECISION



VER. 4

DRILLING TOOLS FIELD GUIDE

2

WHAT ARE CUSTOMERS?

Jeffrey Machine Inc. believes...

Customers Are the most important people we deal with in our business lives.

Customers Are not dependent on us - we are dependent on them.

Customers Are not an interruption of our work. They are the purpose of it. We are not doing customers a favor by serving them - they are doing us a favor by giving us an opportunity to do so.

Customers Are not outsiders to our business - they are business partners.

Customers Are not cold statistics. They are flesh and blood human beings with feelings and emotions like our own.

Customers Are not people to argue or match wits with. The customer is always right. Nobody ever wins an argument with a customer.

Customers Are people who bring us their needs and wants. It is our job to handle them - profitably to the customers and to ourselves.



INDEX

FOUNDATION TOOLS & ACCESSORIES..... PAGES 6-49

DERRICK AUGERS & ACCESSORIES PAGES 53-70

LIGHT DUTY AUGERS & ACCESSORIES..... PAGES 72-73

ANCHOR TOOLS & ACCESSORIES..... PAGES 75-77

UTILITY VEHICLE ACCESSORIES..... PAGES 78-79

FLIGHTING..... PAGES 80-81

FOUNDATION TOOLS AND ACCESSORIES

INDEX

FOUNDATION AUGERS

AUGER TYPES..... 9

ROCK AUGERS.....10

PILOTLESS AUGERS.....12

MULTI-PURPOSE AUGERS13

DIRT AUGERS14

CASING TWISTER AUGERS.....15

CONTINUOUS FLIGHT
AUGERS (CFA'S)16

SOIL MIXING TOOL.....17

SPLINE COUPLERS.....18

CFA HEX COUPLERS19

CFA THREADED
COUPLERS19

BOULDER EXTRACTOR.....20

CORE BARRELS
AND BUCKETS21

RETRIEVAL BUCKETS 34

BELLING TOOLS36

ROCK MILLS.....38

CASING TWISTERS..... 39

ACCESSORIES/ WEAR ITEMS

KELLY ADAPTERS40

KELLY BOXES40

DRAGON'S TOOTH41

TEETH & HOLDERS..... 42

PILOT BITS46

FOUNDATION AUGERS

Double Cut
Double Flight



Fabricated steel boxes
available in all sizes.
Manufactured in-house.

Center Shaft options
4" OD thru 12" OD
standard on all augers.
Solid stems also
available.

Standard flight thickness
up to 2", greater flight
thickness also available.

Beveled flighting
*(standard on all
of our augers)*
maximizes weld
penetration.



Double Cut
Single Flight

THE QUALITY DIFFERENCE

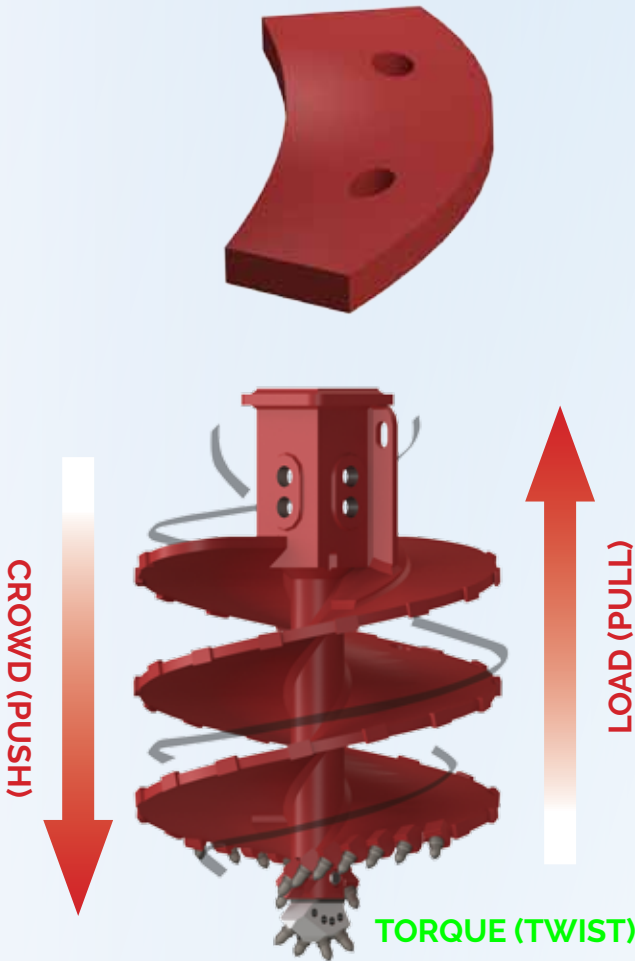
With the ever increasing power of today's drilling rigs, a high quality, well built auger is a necessity. For over three decades Jeffrey Machine has worked closely with our customers to develop tools that work well in the real world. All of our welders (including our robot) are AWS certified.



LAMINATES

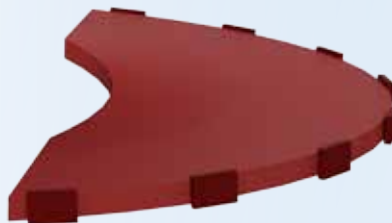
Laminates have been added to all of our 30" and larger heavy duty rock augers. (Optional for dirt augers)

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.



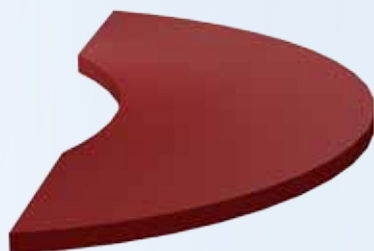
WEAR PROTECTION

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 tools, it's a great way to protect your investment.

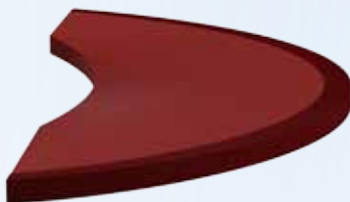


WEAR PADS

These have become extremely popular as they offer good 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.



FULL HARD SURFACE OUTER EDGE



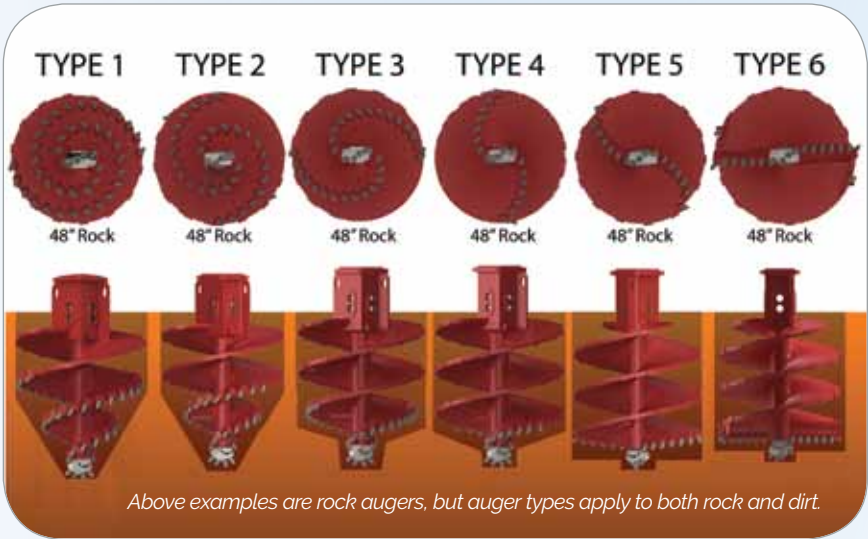
FULLY HARD SURFACE



CARBIDE STUDS

► Tooth holders and pilots can be hard surface as well.

AUGER TYPES



SIX BASIC SPIRAL AUGER TYPES



Jeffrey Machine is proud to be the “go-to” manufacturer for high quality custom-built augers. We have recognized

six basic designs in spiral augers that drillers typically call for. For your convenience and to help you in your selection, you can choose from one of these six common types when ordering.

If you need something different, we'll be happy to add our experience to your design.

ROCK AUGERS

Available in sizes up to 12' in diameter.

All of our augers are manufactured in-house, so literally hundreds of modifications can be made to specifically fit your application.

TYPE 1

Double Cut,
Double Flight



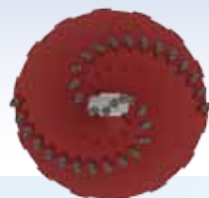
TYPE 2

Double Cut,
Double Flight



TYPE 3

Double Cut,
Double Flight



72" (1829 MM)

WHAT CAN BE MODIFIED?

Flighting Thickness
Multiple Flights
Flighting Pitch
Overall Length (OAL)
Steel Grade
Hardening

Pilot
Teeth & Holders
Tooth Angles
Kelly Box
Stem

ROCK AUGER SPECIFICATIONS

Commonly Requested Diameters:
16" - 144" *

Cut: DC/DF, DC/SF, SC/SF, TC/TF

Kelly boxes: All 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 ½" (39302)
- For additional hard surface options, see page 8

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

TYPE 4

Double Cut,
Double Flight



TYPE 5

Double Cut,
Double Flight



TYPE 6

Double Cut,
Double Flight



72" (1829 MM)

WEAR ITEMS (see pages 41-48)

.990 Rock Series Wear Parts:

- .990 Standard (30122)
- .990 Dragon's Tooth® (30145)
- .990 Tri-holder (32042)
- .990 Pilot 2½" Square (40205)

38mm Rock Series Wear Parts:

- B47K19LK80-H (30182)
- 38mm Dragon's Tooth® (30188)
- 38mm Tri-holder* (32064)
- RP-4 Machined Pilot (40285)

**All .990 and 38mm rock augers are manufactured with Tri-holders.*

***Smaller conical teeth available upon request.*

PILOTLESS AUGERS



72" (1829 MM)

PILOTLESS ROCK AUGER SPECIFICATIONS

Commonly Requested Diameters:
14" – 144" *

Type: Type 6

Cut: DC/DF, DC/SF

Kelly boxes: All 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

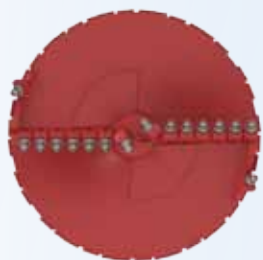
► Laminate flight on all augers 30" or larger

Wear Protection: Wear Pads

► 2" x 3" x ½" (39302)

► For additional hard surface options, see page 8

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



Auger shown is double cut, double flight with wear pads



WEAR ITEMS

(see pages 41–48)

.990 Rock Series Wear Parts:

.990 Standard (30122)

.990 Dragon's Tooth® (30145)

.990 Tri-holder (32042)

38mm Rock Series Wear Parts:

B47K19LK80-H (30182)

38mm Dragon's Tooth® (30188)

38mm Tri-holder* (32064)

**All .990 and 38mm rock augers are manufactured with Tri Holders.*

***Smaller conical teeth available upon request.*

MULTI-PURPOSE AUGERS

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 6

Cut: DC/DF, DC/SF, SC/SF

Kelly boxes: All 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

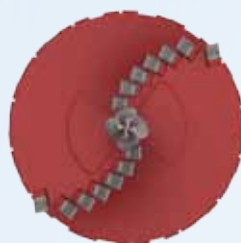
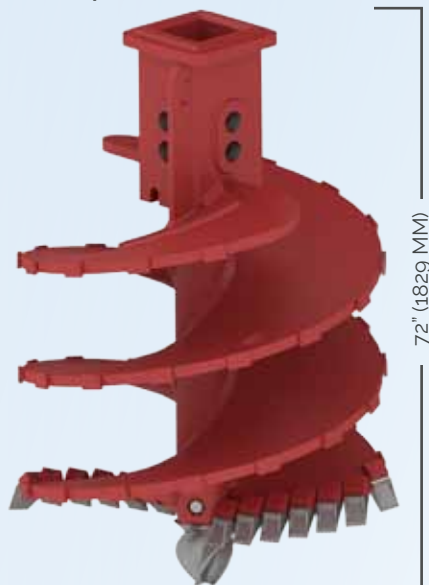
➤ Laminate flight on all augers 30" or larger

Wear Protection: Wear Pads

➤ 2" x 3" x 1/2" (39302)

➤ For additional hard surface options, see page 8

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



Auger shown is double cut, double flight with wear pads



With BFZ 100x70/2 Teeth

WEAR ITEMS

(see pages 41–48)

Multi-Purpose Rock Wear Parts

Rock Option (see pages 41–47)

Tooth: B47K19LK80-H (30182)

Holder: 38mm Tri-holder (32064)

Pilot: RP-4 Machined Pilot (40285)

Dirt Option (see pages 42–47)

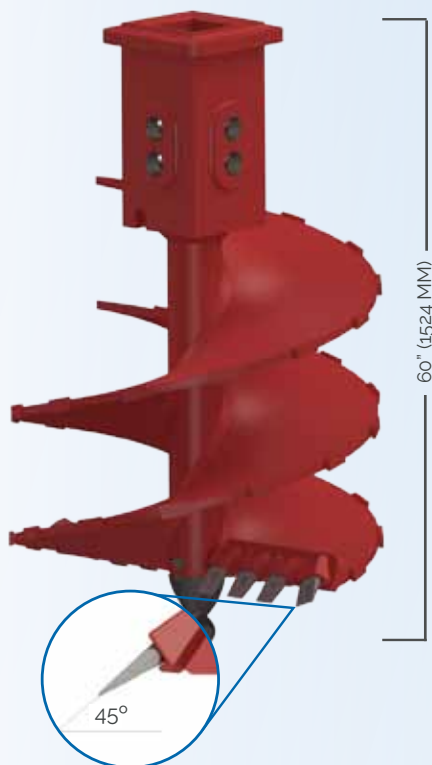
Tooth: BFZ 113x70/D (34241) - dirt

BFZ 100x70/2 (34172) - carbide

Holder: 38mm Tri-holder (32064)

Pilot: 4" SQ JM 8" Dirt Pilot (40260)

DIRT AUGERS



Skirting option
available upon
request.

WEAR ITEMS

(see pages 41-48)

Dirt Auger Wear Parts

Teeth: 201 Tooth (34100)

Holder: W0-5 Holder (36010)

Pilots:

JM-08 Pilot w/2½" sq (40470)

JM 8" Pilot w/4" sq (40260)

JM 10" Pilot w/4" sq (40262)

JM 12" Pilot w/4" sq (40264)

See pages 46-47 for more
information

**Other tooth angles available upon request.*

DIRT AUGER SPECIFICATIONS

Commonly Requested Diameters:
14" - 144" *

Type: Type 6

Cut: DC/DF, DC/SF, SC/SF

Kelly boxes: All boxes made to
customer specifications

Center Shaft: 4" OD - 12" OD

➤ Solid shaft available in some
sizes

Flight: 1" - 2" thick available

➤ All flight ID is beveled for better
weld penetration

Wear Protection:

Hard Surface Outer Edge

➤ For additional hard surface
options, see page 8

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

CASING TWISTER AUGERS



CASING TWISTER SPECIFICATIONS

Commonly Requested Diameters:
24" – 48" cut diameters

Type: 1–6

Kelly boxes: All boxes made to customer specifications

Center Shaft: 4" OD – 12" OD

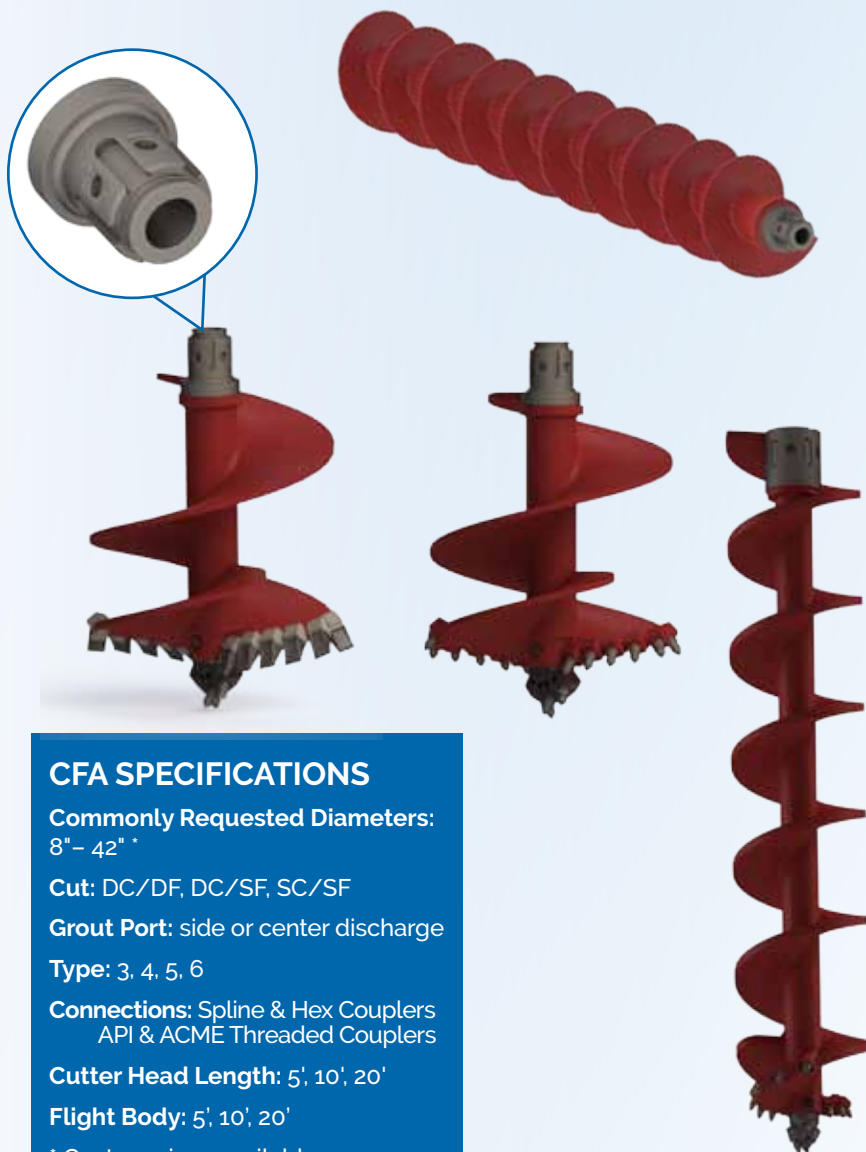
Flight: 1" – 2" thickness available
► All flight ID is beveled for better weld penetration

Wear Protection: Wear Pads
► For additional hard surface options, see page 8

Twister Configurations: 2-way
Auger is available in all tooth configurations.

72" (1829 MM)

CONTINUOUS FLIGHT AUGERS (CFA'S)



CFA SPECIFICATIONS

Commonly Requested Diameters:
8"– 42" *

Cut: DC/DF, DC/SF, SC/SF

Grout Port: side or center 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'

* Custom sizes available upon request.

SOIL MIXING TOOL



66" (1676 MM)

Shown as a 3-blade soil mixing tool.
Free-spinning center paddles
2" schedule 80 injection pipe

SOIL MIXING TOOL SPECIFICATIONS

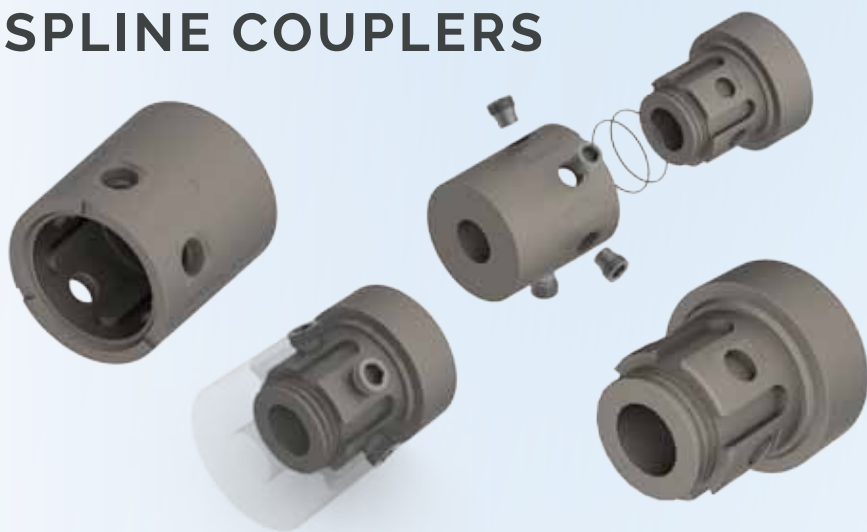
Commonly Requested Diameters:
18" – 144" *

Kelly Connections: Specified by customer

Combination of dirt teeth and dirt pilots available.

* Custom sizes greater than 144" available upon request.

SPLINE COUPLERS



Part No.	Description
27910	7" Spline Coupler Set/Torque: 49,500 ft-lbs
27915	7" Spline O Ring & Set Screw Kit
27920	9¼" Spline Coupler Set/Torque: 150,000 ft-lbs
27925	9¼" Spline O Ring & Set Screw Kit
27930	11" Spline Coupler Set/Torque: 250,000 ft-lbs
27935	11" Spline O Ring & Set Screw Kit
27940	14" Spline Coupler Set/Torque: 550,000 ft-lbs
27945	14" Spline O Ring & Set Screw Kit

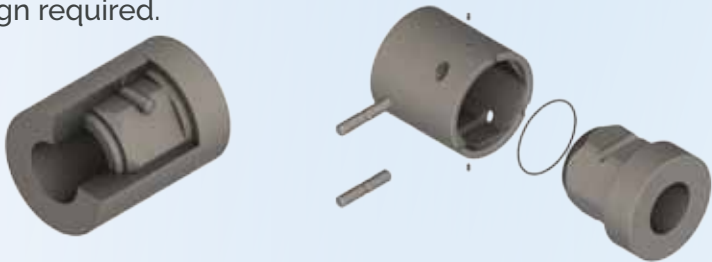
Spline couplers rated at a safety factor of two. **Male/female sold separately upon request.*

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.



CFA HEX COUPLERS

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



Part No.	Description
27500	80MM HEX COUPLER SET/TORQUE: 14,000 ft-lbs
27530	80MM HEX LOCKING PIN SET
27570	120MM HEX COUPLER SET/TORQUE: 48,000 ft-lbs
27600	120MM HEX LOCKING PIN SET
27640	160MM HEX COUPLER SET/TORQUE: 115,000 ft-lbs
27670	160MM HEX LOCKING PIN SET
27710	200MM HEX COUPLER SET/TORQUE: 250,000 ft-lbs
27740	200MM HEX LOCKING PIN SET

THREADED COUPLERS FOR CFA

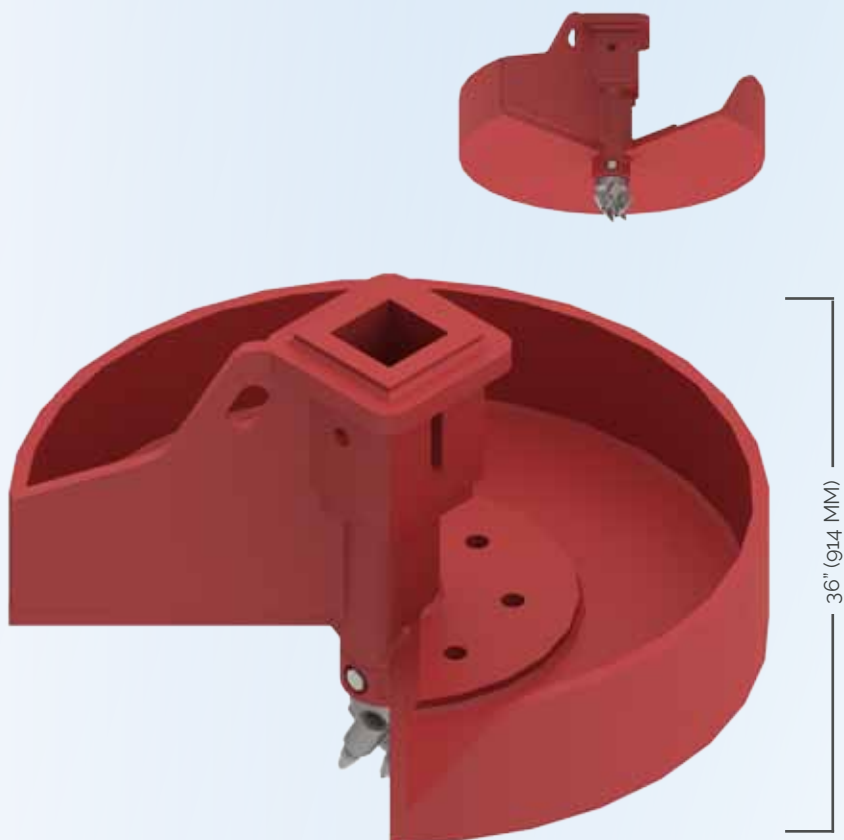
Couplers and adapters are manufactured in-house to any shape or design required.



Part No.	Description
27430	3" ACME Threaded Coupler Set
27400	4" ACME Threaded Coupler Set

Other sizes available.

BOULDER EXTRACTORS



BOLDER EXTRACTOR SPECIFICATIONS

Commonly Requested Diameters:
16" – 144"

Kelly boxes: Boxes made to customer specifications

Flight Thickness: 1½"

Options:

- Pitched or Flat
- Rock or Dirt Pilot Optional



CORE BARRELS & BUCKETS

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

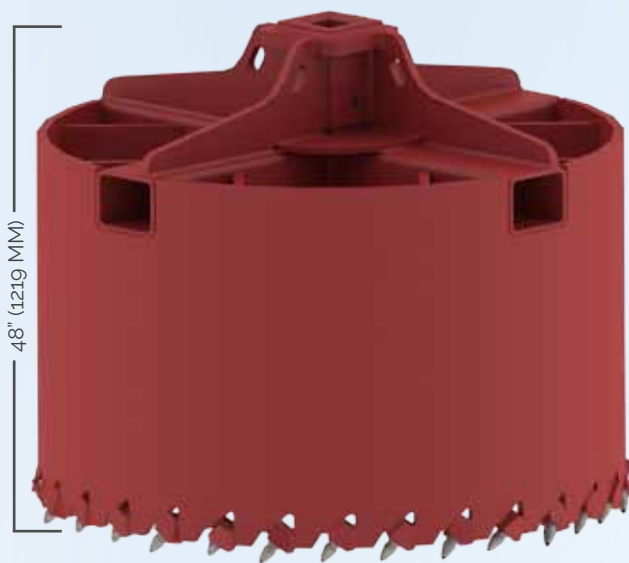
Cross Top

Standard 60" or larger



Solid Top

Standard 54" and smaller



CORE 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
- 2" undersize (.990 teeth)
- 3" undersize (38mm teeth)

Height specified by customer

Layout Pattern Options:

- 3 tooth
- 5 tooth
- 7 tooth

Custom sizes greater than 144" available upon request.

CORE BARREL PARTS OPTIONS

.990 Rock Wear Parts

(see pages 41-42)

.990 Standard (30122)

.990 Dragon's Tooth® (30145)

.990 Dragon Holder (32049)

38mm Rock Wear Parts

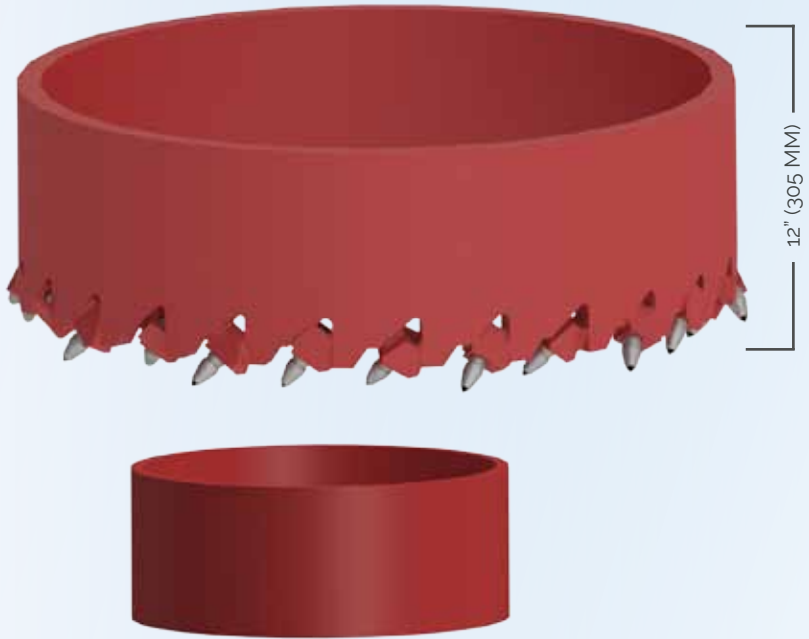
(see pages 43)

B47K19LK80-H (30182)

38mm Dragon's Tooth® (30188)

38mm Round Dragon Holder (32110)

CORE RINGS & CUSTOM PLATE ROLLING



CORE RINGS

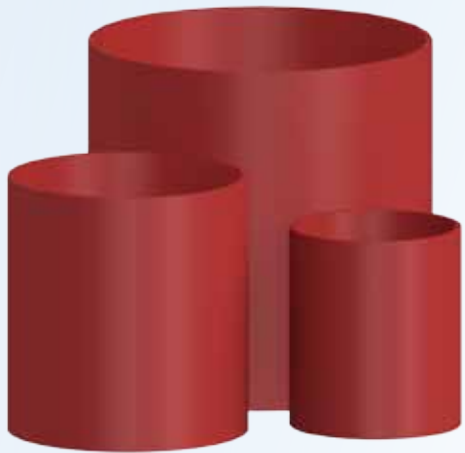
Replacement core rings are available upon request, or can be ordered as a separate item. All core rings are quoted as a minimum of 12" overall height.

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" – 144"
- Thickness: up to 2" thick plate



ROLLER CONE BARREL



ROLLER CONE BARREL SPECIFICATIONS

Commonly Requested Diameters:
16" – 144"

Kelly boxes: All boxes made to customer specifications

Gussets: 1" thick gussets standard

Barrels: Up to 2" thick

Height specified by customer



Replacement Roller Cone Kits available.

FOLLOW US

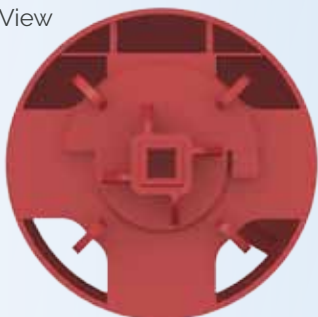
Stay up to date with all things Jeffrey Machine on social media, participate in contests and be in the know on specials we have going on.

Follow or like us on:



OPEN TOP , SPIN BOTTOM CLEAN OUT BUCKETS

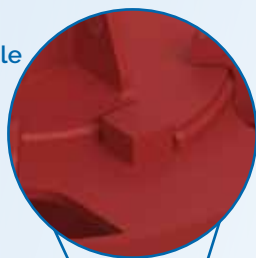
Top View



Single Opening



Double
Stop



OPEN TOP, SPIN BOTTOM CLEAN OUT BUCKET SPECIFICATIONS

Commonly Requested Diameters:
16" – 144" *

Kelly boxes*: All boxes made to customer specifications

Barrels: Up to 2" thick

➤ Height specified by customer

Top Plate: 1" thick material with 1" gussets

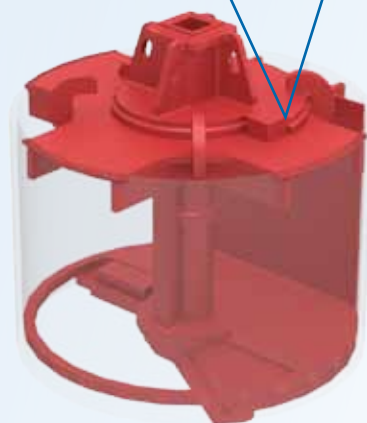
➤ Double stop

➤ Solid center shaft

➤ 1½" thick grade 50 steel on bottoms

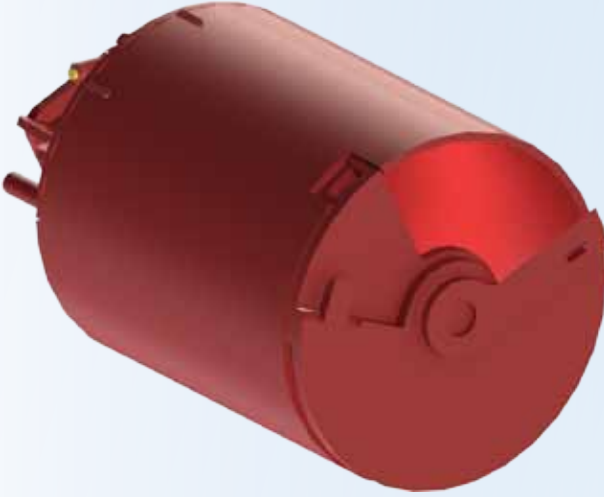
Wear Protection: Available upon request

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.

DUMP BOTTOM CLEAN OUT BUCKET



Auto and Manual Dump
Available on all Cleanout
and Drilling Buckets

DUMP BOTTOM CLEAN OUT BUCKET SPECIFICATIONS

Commonly Requested Diameters:
16" – 144" *

Kelly boxes: All Kelly boxes made
to customer specifications

Barrels:

- 1" thick (thicker upon request)
- Height specified by customer

Top Plate: 1" thick material with 1"
gussets

- Thicker material upon request

Wear Protection: For additional hard
surface options, see page 8

Bottoms: 1½" thick grade 50 steel mid
& bottom plate

Type: Spin & dump bottom

Style: Our design allows for both
auto & manual dump for all sizes
30" and larger. Manual opening
only for any tools smaller than 30".

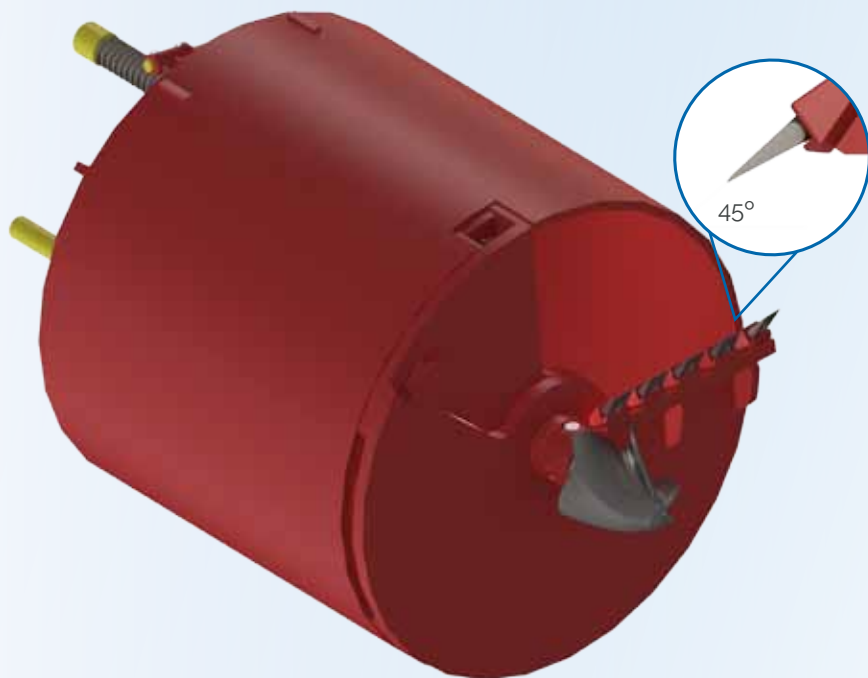
Opening Options:

- Single Opening 16" and larger
diameter
- Double Opening 60" and larger
diameter

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.

SINGLE OPEN DIRT DRILLING BUCKET



SINGLE OPEN DIRT DRILLING BUCKET SPECIFICATIONS

Dirt Teeth: 201 (34100)

Holder: WO-5 Holder (36010)

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

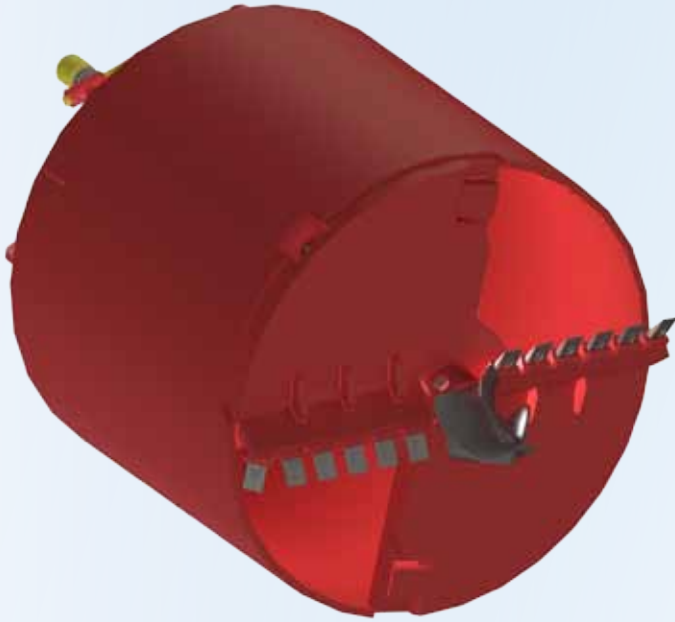
Pilots:

- 2½" SQ. JM-08 Pilot (40470)
- Pilot Adapter 2½" SQ. (42040)

Dump Bottom System (Auto or Manual) *shown on pg 27.*
Custom sizes greater than 144" available upon request.

Bucket tooth style configuration also available upon request.

DOUBLE OPEN DIRT DRILLING BUCKET



DOUBLE OPEN DIRT DRILLING BUCKET SPECIFICATIONS

Diameters: 24" – 144"

Kelly boxes: All Kelly boxes made to customer specifications

Barrels: Cylinders up to 2" wall available

Barrels undersized to meet max cut specifications

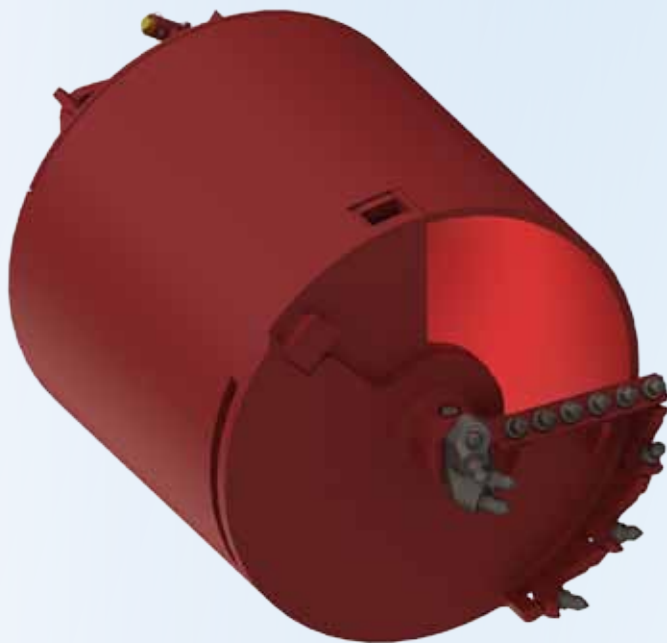
Barrel height: Specified by customer

Teeth & Pilot Options:

- Betek BFZ100X70/2 Dirt Tooth (34172)
- 2½" SQ JM-08 Pilot (40470)
- 4" SQ JM 8' Dirt Pilot (40260)

Dump Bottom System (Auto or Manual) *shown on pg 27.*
Custom sizes greater than 144" available upon request.

SINGLE OPEN & DOUBLE OPEN ROCK DRILLING BUCKET



SINGLE OPEN & DOUBLE OPEN ROCK DRILLING BUCKET SPECIFICATIONS

Commonly Requested Diameters: 14"– 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

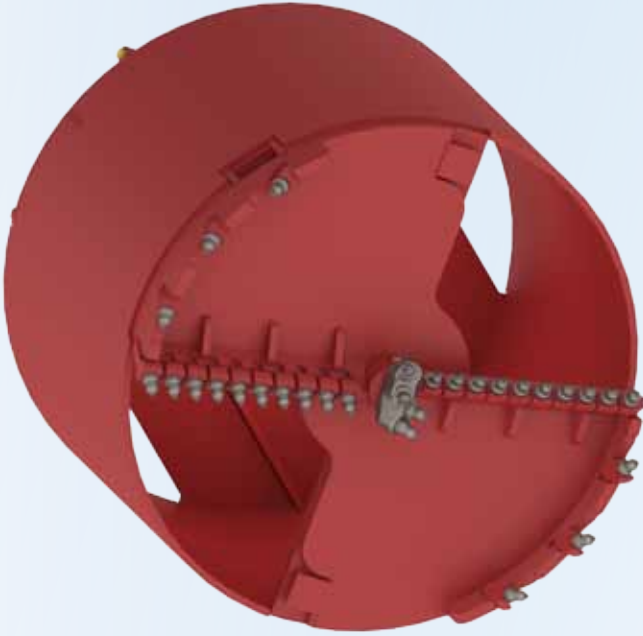
Betek Conical Carbide Teeth & Pilot Options:

- .990 Standard (30122)
- .990 Dragon's Tooth® (30145)
- .990 Tri holder (32042)
- .990 Pilot 2½" Square (40205)
- 38mm B47K19LK80-H (30182)
- 38mm Dragon's Tooth® (30188)
- 38mm Tri holder (32064)
- RP-4 Machined Pilot (40285)

Dump Bottom System (Auto or Manual) *shown on pg 27.*

Custom sizes greater than 144" available upon request.

DOUBLE OPEN ROCK DRILLING BUCKET



DOUBLE OPEN ROCK DRILLING BUCKET SPECIFICATIONS

Commonly Requested Diameters: 14"– 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

Betek Conical Carbide Teeth & Pilot Options:

- .990 Standard (30122)
- .990 Dragon's Tooth® (30145)
- .990 Tri holder (32042)
- .990 Pilot 2½" Square (40205)
- 38mm B47K19LK80-H (30182)
- 38mm Dragon's Tooth® (30188)
- 38mm Tri holder (32064)
- RP-4 Machined Pilot (40285)

Dump Bottom System (Auto or Manual) *shown on pg 27.*

Custom sizes greater than 144" available upon request.

TAPERED BOTTOM DRILLING BUCKET



TAPERED BOTTOM DRILLING BUCKET SPECIFICATIONS

Commonly Requested Diameters: 24" – 144"

Kelly boxes: All Kelly boxes made to customer specifications

Barrels: Cylinders up to 2" wall available

Barrels undersized to meet max cut specifications

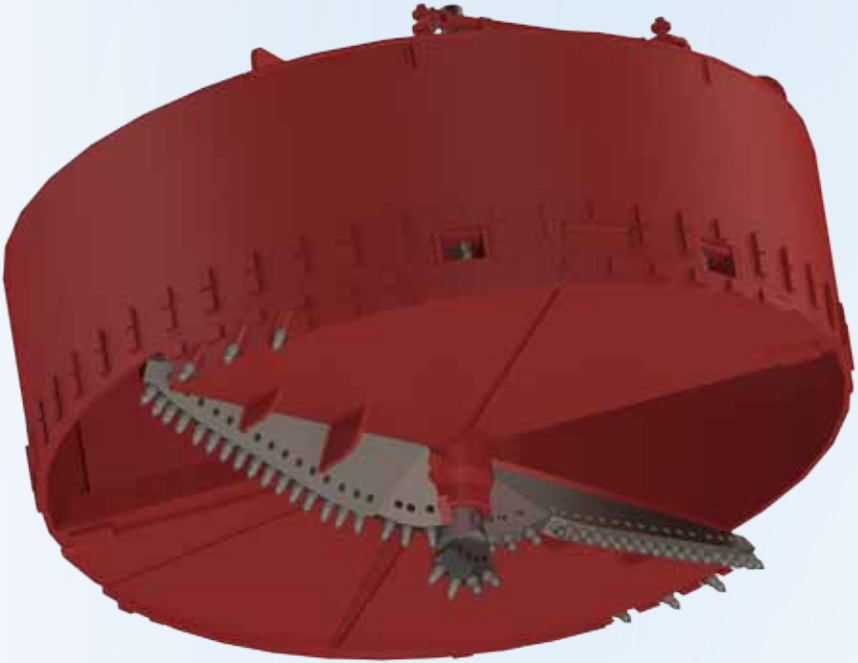
Barrel height: Specified by customer

Teeth:

- Betek BFZ100X70/2 Dirt Tooth (34172) *(As shown)*
- Also available with bucket teeth

Dump Bottom System (Auto or Manual) *shown on pg 27.*
Custom sizes greater than 144" available upon request.

HD DRILLING BUCKET CUTTER BAR STYLE



HD DRILLING BUCKET CUTTER BAR STYLE SPECIFICATIONS

Commonly Requested Diameters: 30" – 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

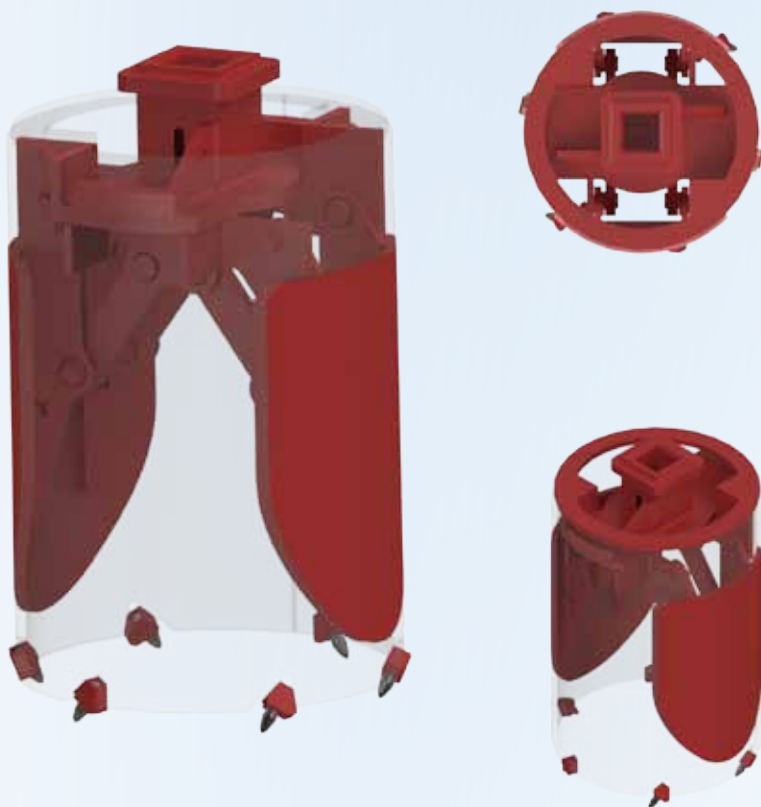
Betek Conical Carbide Teeth:

- | | |
|---------------------------------|--------------------------------|
| ➤ .990 Standard (30122) | ➤ 38mm B47K19LK80-H (30182) |
| ➤ .990 Dragon's Tooth® (30145) | ➤ 38mm Dragon's Tooth® (30188) |
| ➤ .990 Tri holder (32042) | ➤ 38mm Tri holder (32064) |
| ➤ .990 Pilot 2½" Square (40205) | ➤ RP-4 Machined Pilot (40285) |

Dump Bottom System (Auto or Manual) *shown on pg 27.*

Custom sizes greater than 144" available upon request.

TWIST-LOCK RETRIEVAL BUCKET



TWIST-LOCK RETRIEVAL BUCKET SPECIFICATIONS

Available sizes: 24" – 120"

Available with or without conical
teeth

EVEN MORE ONLINE...



**FOUNDATION
STOCK TOOLS**

Stock No.	Description
g8024CB	24" Max Cut Core Barrel
g8036CB	36" Max Cut Core Barrel
g8048CB	48" Max Cut Core Barrel
g8060CB	60" Max Cut Core Barrel
g8072CB	72" Max Cut Core Barrel
g8024RA	24" Max Cut Rock Auger
g8036RA	36" Max Cut Rock Auger
g8048RA	48" Max Cut Rock Auger
g8060RA	60" Max Cut Rock Auger
g8072RA	72" Max Cut Rock Auger

Stock Tools are built without a Kelly drive box. Available in g90 and g8mm.
Please call 205.841.8600 for details.

 **JEFFREY
MACHINE INC.**
DESIGN BY PRECISION

384 Industrial Drive - Birmingham, AL 35217
205.841.8600 - JeffreyMachine.com



FIND EVEN MORE ONLINE NOW

View our **Utility and Derrick Stock tools**

CHECK OUT OUR SPECIALS

Make sure to check out our current
deals on Pressure Stock New
Tools, Show Tools, and Used Tools

GO ONLINE TODAY

JEFFREYMACHINE.COM

FIND MORE TOOLS ONLINE

BELLING TOOLS



BELLING TOOL SPECIFICATIONS

Available sizes: 24"–72"

Wings:

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

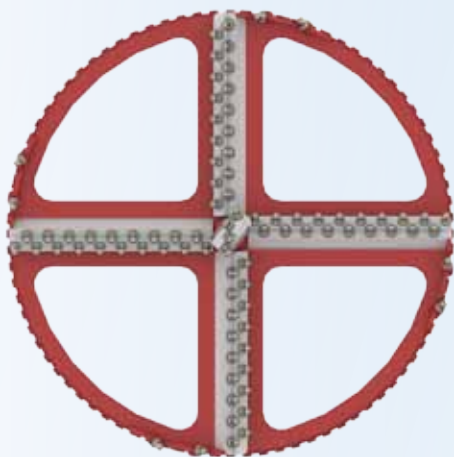
Most Commonly Used Teeth:

- .990 series
- 201 dirt teeth

BELLING TOOLS CHART

NOMINAL SIZE			APPROX. TOOL HEIGHT	
Dia.	Bell Dia.	Angle	Dump Closed	Dump Open
12	36	60	36"	43"
12	36	45	30"	36"
14	42	60	40"	48"
14	42	45	36"	46"
16	48	60	48"	60"
16	48	45	38"	48"
18	54	60	54"	69"
18	54	45	46"	61"
20	60	60	56"	73"
20	60	45	48"	65"
24	72	60	62"	83"
24	72	45	54"	75"
30	90	60	77"	104"
30	90	45	65"	92"
36	108	60	92"	125"
36	108	45	76"	109"
42	126	60	107"	146"
42	126	45	87"	126"
48	144	60	122"	167"
48	144	45	98"	143"
54	162	60	137"	188"
54	162	45	109"	160"
60	180	60	152"	209"
60	180	45	120"	177"

ROCK MILLS



ROCK MILL SPECIFICATIONS

Diameters: 24"–144"

Ring: 1½" thick

Cutter Bar: 4140 heat treated steel

Teeth: Double row configuration:

- .990 Standard (30122)
- 38mm B47K19LK80-H (30182)

Wear Protection:

2" x 3" x ½" wear pads (39302)

CASING TWISTERS

4 Way 28" - 42"
4 Way 46" - 80"
4 Way 80" - 104"

**4 WAY ADJUSTABLE
CASING TWISTER WITH
5" OD SOLID ARMS**



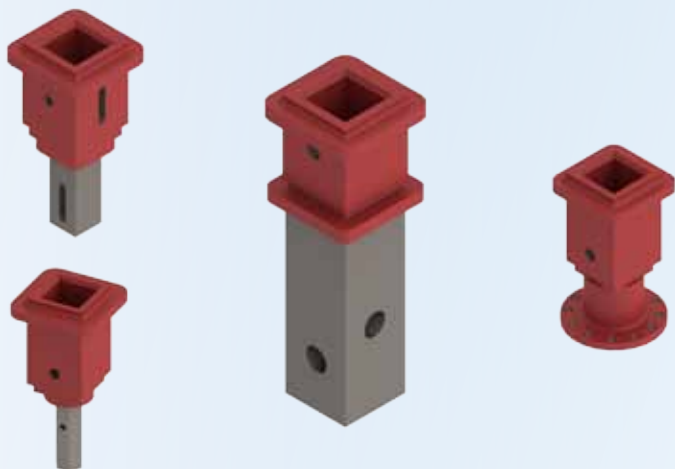
**2 WAY ADJUSTABLE
CASING TWISTER WITH
5" OD SOLID ARMS**

2 Way 28" - 42"
2 Way 46" - 80"
2 Way 80" - 104"

Custom sizes available. Fixed arm twisters available upon request.

FABRICATED KELLY ADAPTERS

We can fabricate any size Kelly box adapter.



*If female Kelly Box is greater than male adapter and exceeds the torque rating, failure 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.

FABRICATED KELLY BOXES

We can fabricate any size Kelly box.



*Jeffrey Machine boxes come standard $\frac{1}{8}$ " tolerance. Other tolerances available upon request.

DRAGON'S TOOTH®

NON-ROTATING
ROCK BIT

Sizes:

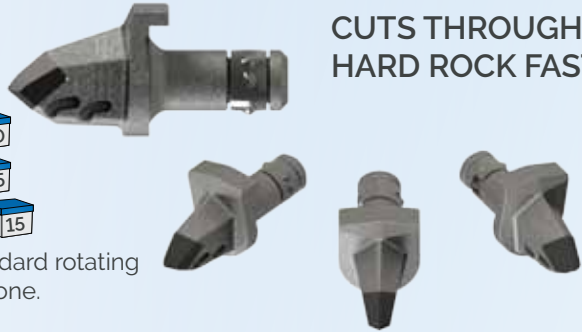
.875 P/N 30112-N 

.990 P/N 30145 

38mm P/N 30188 

Typically outlasts standard rotating
bullet teeth by five to one.

CUTS THROUGH
HARD ROCK FAST!



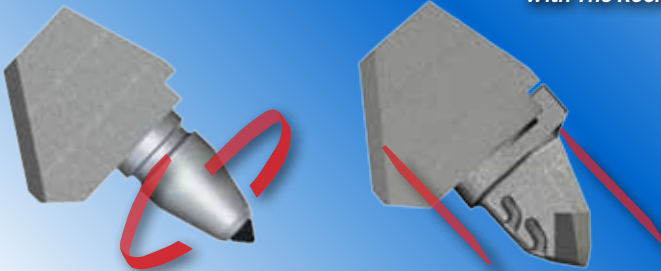
Notched Holder
Locks Tooth
From Turning



Standard Round
Bullet Teeth Will Fit In
Dragon Tooth Holders



*Keeps Sharp Carbide
Cutting Edge In Constant Contact
With The Rock*



The Dragon's Tooth® is an original design of Jeffrey Machine, Inc.


TEETH & HOLDERS

Quantity Per Bucket




P/N 30145 
(.990 Dragon's Tooth®)




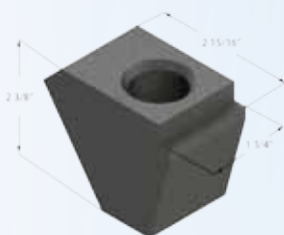
P/N 30155 
(B40HDS)



P/N 30122 
(.990HB)
(B40HDK12)



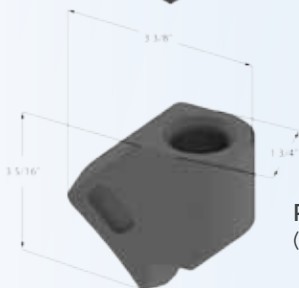
P/N 34382 
(.990 Dirt Tooth)
(BFZ81X44)



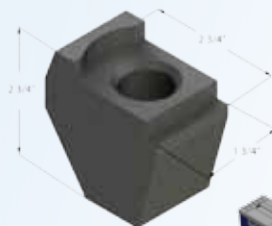
P/N 32049 
(.990 Dragon Holder)




P/N 32045 
(.990 Machined Holder)



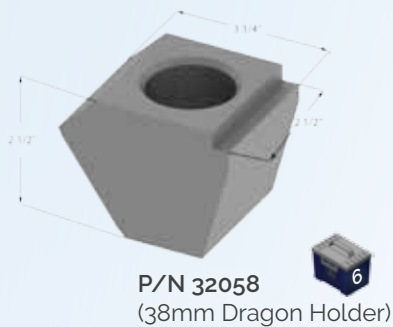
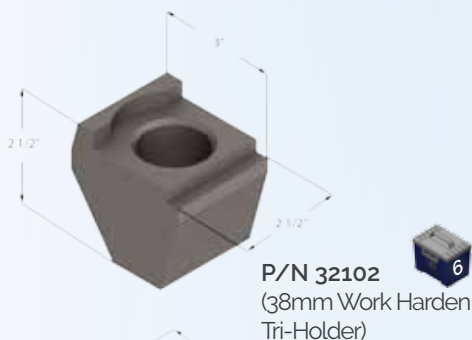
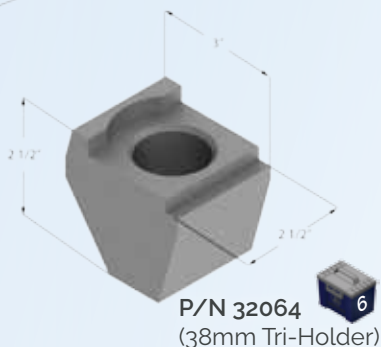
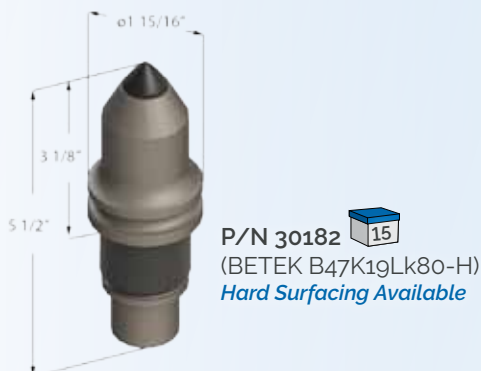
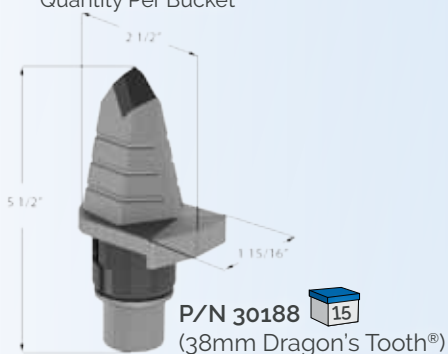
P/N 32040 
(C-30 .990 Holder)



P/N 32042 
(.990 Tri-Holder)

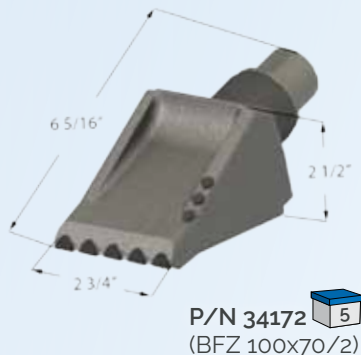
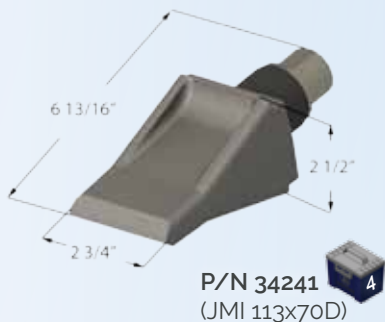
TEETH & HOLDERS (CONTINUED)

Quantity Per Bucket



TEETH & HOLDERS (CONTINUED)

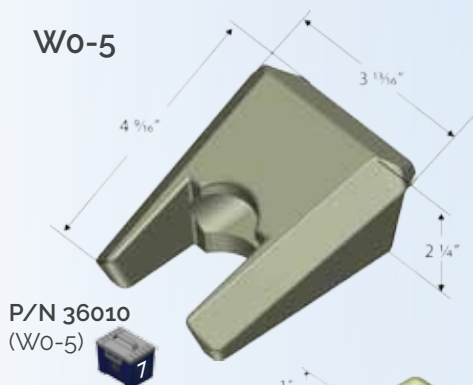
Quantity Per Bucket



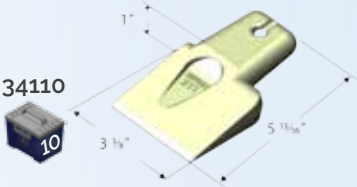
TEETH & HOLDERS (CONTINUED)

Quantity Per Bucket

W0-5



P/N 34110
(211)



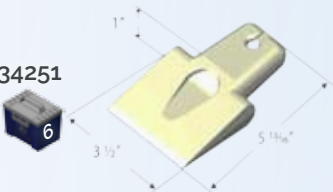
P/N 34100
(201)



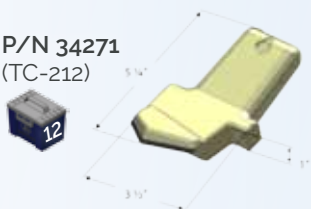
P/N 34255
(134)



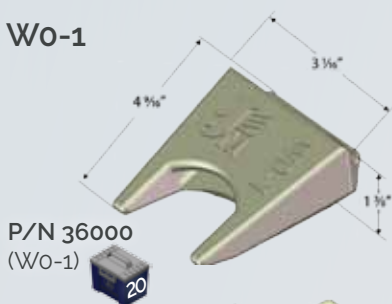
P/N 34251
(132)



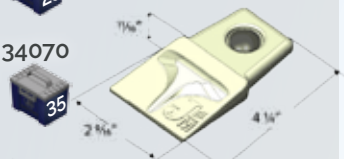
P/N 34271
(TC-212)



W0-1



P/N 34070
(101)



PILOT BITS

.990 Pilot



Part No.	Description
40206	2½" SQ .990 PILOT
40216	2½" SQ. .990 DRAGON PILOT
40410	2¾" Reg API .990 PILOT
40460	3½" Reg API .990 PILOT
40500	2¾" IF .990 PILOT
40520	3½" IF .990 PILOT

DB-6 Pilot



Part No.	Description
40220	2½" SQ. DB-6 PILOT

JM-o8 Pilot



Part No.	Description
40470	2½" SQ. JM-o8 PILOT

Pilot Adapter



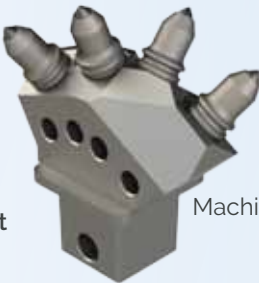
Part No.	Description
42040	2½" SQ. Pilot Adapter

PILOT BITS (CONTINUED)



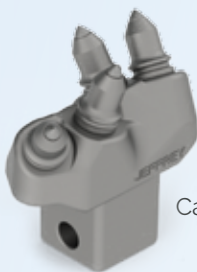
JM-12 Pilot

Part No.	Description
40260	4" SQ. JM 8" Dirt Pilot
40262	4" SQ. JM 10" Dirt Pilot
40264	4" SQ. JM 12" Dirt Pilot



RP-4 Pilot

Machined



Cast

Part No.	Description
40287	RP-4 Machined Pilot
40280	RP-4 Cast Pilot



Square Pilot Adapter

Part No.	Description
42080	177mm SQ. Pilot Adapter

MISCELLANEOUS PARTS

CJ2 Holder (36070)



CJ2 Tooth (34220)



Wear Pads

2" x 3" x 1/2" (39302)

2" x 3" x 5/8" (39304)

2" x 3" x 3/4" (39305)



Hex Weld Bars

3/4" (34350)

1 1/8" (34340)

1 3/8" (34330)



Soft Hammer (39150)



Knock Out Punch (30562)

*Recommended for Dragon Teeth



Bullet Tooth Pullers

123 Bullet Tooth Puller (30542)

.990 Bullet Tooth Puller (30512)

38mm Series Puller (30524)



Jeffrey Combination

Knock Out and Tooth Insertion
Tool (30570)



JEFFREY MACHINE WARRANTY DISCLAIMER



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.





JEFFREY MACHINE INC

DRIVEN BY PRECISION

CORPORATE OFFICE

3841 INDUSTRIAL DRIVE
BIRMINGHAM, ALABAMA 35217
PHONE (205) 841.8600
FAX (205) 841.2009

TEXAS LOCATION

2214 W. EULESS BLVD
EULESS, TEXAS 76040
PHONE (817) 545.8677

*Built by need.
In business to serve you.*

JEFFREYMACHINE.COM



JEFFREY MACHINE INC

DRIVEN BY PRECISION



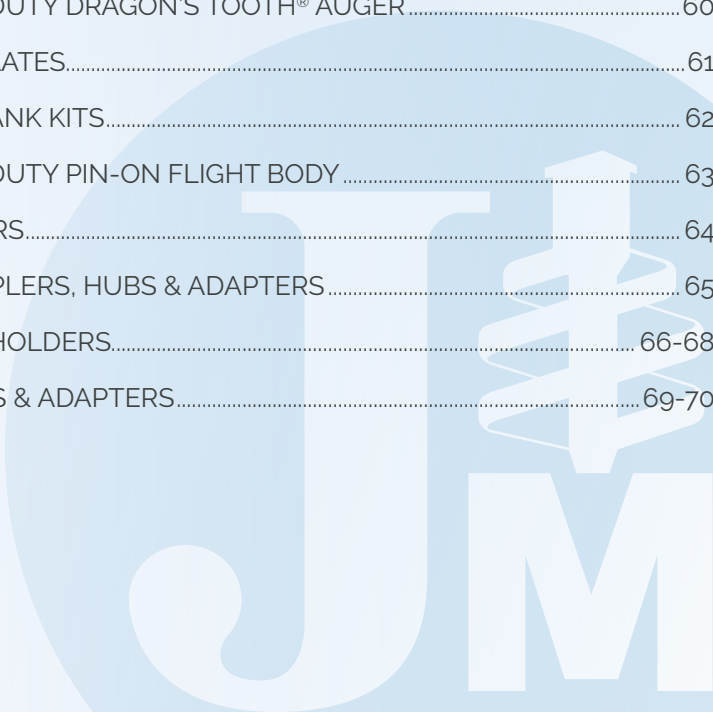
VER. 4

UTILITY DRILLING TOOLS FIELD GUIDE

DERRICK AUGERS AND ACCESSORIES

INDEX

DERRICK AUGER FEATURES AND BENEFITS	53
MEDIUM DUTY BOLT-ON - 4 BASIC SET-UPS	54
MEDIUM DUTY BOLT-ON DIRT	55
MEDIUM DUTY BOLT-ON CARBIDE	56
MEDIUM DUTY BOLT-ON BULLET	57
MEDIUM DUTY BOLT-ON DRAGON'S TOOTH® AUGER	58
MEDIUM DUTY BULLET TOOTH AUGER	59
MEDIUM DUTY DRAGON'S TOOTH® AUGER	60
SHANK PLATES	61
ROCK SHANK KITS	62
MEDIUM DUTY PIN-ON FLIGHT BODY	63
KELLY BARS	64
HEX COUPLERS, HUBS & ADAPTERS	65
TEETH & HOLDERS	66-68
PILOT BITS & ADAPTERS	69-70



FEATURES & BENEFITS

Here are a few of the reasons why Jeffrey Machine tools consistently outperform all others. 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.

Rock augers come equipped with heavy duty hex collars

$\frac{3}{8}$ " Thick prime steel flighting
(20% *thicker than most*)

▼ Prevents this



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

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

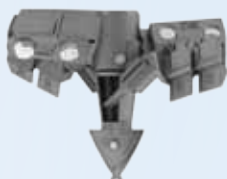


Pictured: Bolt-on auger equipped with carbide pilot and teeth. Flip to pages 59 and 60 to see our Derrick Rock Augers.

Rock augers come equipped with 1" thick lower flighting

4 BASIC SET-UPS

Mix and match shanks, bits and/or pilots for a large number of possibilities.



MEDIUM DUTY DIRT

Loose and compacted soils, stiff clays and soft shelves.



MEDIUM DUTY CARBIDE

High abrasion, frozen soil, low impact.



MEDIUM DUTY BOLT-ON BULLET

Limestone, lava rock, medium sand stone, and frozen materials. Medium to hard formations.



MEDIUM DUTY BOLT-ON DRAGON

Aggressively cuts through limestone, coral, lava rock, medium sand stone, and frozen materials. Medium to hard formations.

MEDIUM DUTY BOLT-ON DIRT AUGER



UTILITY DIRT AUGER WITH FH-205 DIRT PILOT

- 2", 2½" and 2⅝" hex hubs.
- Overall length of 104" with 40" to 60" of ⅜" thick flighting.

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



1652 Gauge
Dirt Tooth



FH-205
Dirt Pilot



1650
Dirt Tooth

Diameter	Part No.
9"	9-104-60DA
10"	10-104-60DA
12"	12-104-60DA
14"	14-104-60DA
16"	16-104-60DA
18"	18-104-60DA
20"	20-104-60DA
22"	22-104-60DA
24"	24-104-60DA
30"	30-104-48DA
36"	36-104-48DA
42"	42-104-48DA
48"	48-104-48DA

MEDIUM DUTY BOLT-ON CARBIDE AUGER

UTILITY CARBIDE AUGER WITH FH-205HFTC CARBIDE PILOT

- 2", 2½" and 2⅝" hex hubs.
- Overall length of 104" with 40" to 60" of ⅜" thick flighting.

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



1656 Carbide Tooth



FH-205 HFTC Carbide Pilot



1658 Gauge Carbide Tooth

Diameter	Part No.
9"	9-104-60CA
10"	10-104-60CA
12"	12-104-60CA
14"	14-104-60CA
16"	16-104-60CA
18"	18-104-60CA
20"	20-104-60CA
22"	22-104-60CA
24"	24-104-60CA
30"	30-104-48CA
36"	36-104-48CA
42"	42-104-48CA
48"	48-104-48CA



MEDIUM DUTY BOLT-ON BULLET

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

- 2", 2½" and 2¾" hex hubs.
- Overall length of 104", with 40" to 60" of ⅝" thick flighting.
- RCP-6.5 Rock Pilot

The right tool for limestone, lava rock, medium sand stone, and frozen materials. Medium to hard formations.



RCP-6.5
Pilot



.875 Bullet Tooth



Bolt-On Bullet
Shank Plate

Diameter	Part No.
16"	16-104-60BOB
18"	18-104-60BOB
20"	20-104-60BOB
24"	24-104-60BOB

MEDIUM DUTY BOLT-ON DRAGON'S TOOTH® AUGER

UTILITY BOLT-ON DRAGON* WITH DCP-6.5 ROCK PILOT

- 2", 2½" and 2⅝" hex hubs.
- Overall length of 104", and 40" to 60" of ⅜" thick flighting.

Consumes limestone, lava rock, coral, medium sand stone, and frozen materials, medium to hard formations.



Dragon Shank
Plate

.875 Dragon
Tooth



DCP-6.5
Pilot



Diameter	Part No.
16"	16-104-60BOD
18"	18-104-60BOD
20"	20-104-60BOD
24"	24-104-60BOD



*The Dragon's Tooth® is an original design of Jeffrey Machine, Inc.

MEDIUM DUTY BULLET TOOTH AUGER



UTILITY BULLET TOOTH AUGER WITH 1¾" SQUARE ROCK PILOT OR API ROCK PILOT

- 2", 2½" and 2⅝" hex hubs.
- Overall length of 104" with 40" to 60" of flighting.
- 1" thick lower flight, ⅜" upper flight, and standard pilot bit.

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



2⅝" API
Rock Pilot



1¾" Square
Pilot

.765 Bullet
Tooth



Diameter	Part No.
9"	9-104-60BA
10"	10-104-60BA
12"	12-104-60BA
14"	14-104-60BA
16"	16-104-60BA
18"	18-104-60BA
20"	20-104-60BA
22"	22-104-60BA
24"	24-104-60BA
30"	30-104-48BA
36"	36-104-48BA
42"	42-104-48BA
48"	48-104-48BA

MEDIUM DUTY DRAGON'S TOOTH® AUGER

UTILITY DRAGON'S TOOTH AUGER WITH 1¾" SQUARE ROCK PILOT

- 2", 2½" and 2⅝" hex hubs.
- Overall length of 104" with 40" to 60" of flighting.
- 1" thick lower flight, ⅜" upper flight and standard pilot bit

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



1¾" Square Dragon
.875 pilot

.875 Dragon
Tooth



Diameter	Part No.
9"	9-104-60DRA
10"	10-104-60DRA
12"	12-104-60DRA
14"	14-104-60DRA
16"	16-104-60DRA
18"	18-104-60DRA
20"	20-104-60DRA
22"	22-104-60DRA
24"	24-104-60DRA
30"	30-104-48DRA
36"	36-104-48DRA
42"	42-104-48DRA
48"	48-104-48DRA

PARTS: SHANK PLATES

FOR FLAT TEETH



810X



12X



145X



16X1



16X2



18X1



18X2



20X1



20X2



22X1



22X2



24X1



24X2

P/N 22000



P/N 22010



7/8" X 3" Long Plow Bolts
& Nuts

Part #	Description	Qty. Teeth
37000	810X Shank Plate	1
37020	12X Shank Plate	2
37040	145X Shank Plate	2
37050	16X1 Shank Plate	2
37060	16X2 Shank Plate	2
37070	18X1 Shank Plate	3
37080	18X2 Shank Plate	3
37090	20X1 Shank Plate	3
37100	20X2 Shank Plate	3
37110	22X1 Shank Plate	3
37120	22X2 Shank Plate	3
37130	24X1 Shank Plate	3

Part #	Description	Qty. Teeth
37140	24X2 Shank Plate	4
37150	267X1 Shank Plate	4
37160	267X2 Shank Plate	4
37170	30X1 Shank Plate	4
37180	30X2 Shank Plate	4
37190	36X1 Shank Plate	4
37200	36X2 Shank Plate	4
37210	42X1 Shank Plate	5
37220	42X2 Shank Plate	5
37230	48X1 Shank Plate	2
37240	48X2 Shank Plate	3

ROCK SHANK KITS

Includes shank plates for bullet teeth and Dragon's teeth, the teeth and pilots

ROCK SHANK KIT



Description	Quantity of Teeth per Shank
RSK16 Shank Plate Kit & Pilot (37900)	4
RSK18 Shank Plate Kit & Pilot (37910)	5
RSK20 Shank Plate Kit & Pilot (37920)	5
RSK24 Shank Plate Kit & Pilot (37930)	5

DRAGON SHANK KIT



Description	Quantity of Teeth per Shank
DSK16 DRAGON Shank Plate Kit (37940)	4
DSK18 DRAGON Shank Plate Kit (37950)	5
DSK20 DRAGON Shank Plate Kit (37960)	5
DSK24 DRAGON Shank Plate Kit (37970)	5

MEDIUM DUTY PIN-ON FLIGHT BODY

- Pin on flight bodies have an overall length of 94" with 60" of $\frac{3}{8}$ " flighting.
- Available with 2", 2½" or 2⅝" hex hubs.

Part No.	Description
POH-o8	8" Flight Body
POH-o9	9" Flight Body
POH-10	10" Flight Body
POH-12	12" Flight Body
POH-14	14" Flight Body
POH-16	16" Flight Body
POH-18	18" Flight Body
POH-20	20" Flight Body
POH-22	22" Flight Body
POH-24	24" Flight Body
POH-26	26" Flight Body
POH-27	27" Flight Body
POH-30	30" Flight Body
POH-36	36" Flight Body



PIN ON HEADS



Carbide Heads



Spiral Rock Heads



Dirt Heads



Step Rock



Rock Heads

KELLY BARS*



KELLY BAR HEX EXTENSION SHAFTS WITH HUB & HOLES

Part No.	Hub Size	Bar Size	Bar Length
25025	2"	2"	72"
25075	2½"	2½"	72"
25130	2⅝"	2⅝"	72"
25140	3"	3"	72"



KELLY BAR HEX EXTENSION SHAFTS WITH HOLES

Part No.	Bar Size	Bar Length
25005	2"	72"
25055	2½"	72"
25095	2⅝"	72"
25145	3"	72"

*Custom lengths and combinations of hubs and kelly bars available

HEX COUPLERS, HUBS & ADAPTERS



HEX COUPLERS

Part No.	Description
27000	2" Hex x 2" Hex Coupler
27010	2½" Hex x 2" Hex Coupler
27020	2⅝" Hex x 2⅝" Hex Coupler
27030	2⅝" Hex x 2" Hex Coupler
27040	2⅝" Hex x 2½" Hex Coupler
27050	2½" Hex x 2½" Hex Coupler



HEX HUBS

Part No.	Hub Size
43030	2"
43050	2½"
43070	2⅝"
43080	3"



HEX ADAPTERS

Part No.	Description
28000	2½" Hex Hub x 2" Hex Stem
28002	2½" Hex Hub x 2⅝" Hex Stem
28003	2" Hex Hub x 2½" Hex Stem
28004	2⅝" Hex Hub x 2½" Hex Stem

PARTS: TEETH

Quantity Per Bucket



STANDARD DIGGING/DIRT TOOTH

P/N 34000 (1650)



STANDARD DIGGING/GAUGE TOOTH

P/N 34010 (1652)



IMPACT, HARD FACED

- Abrasive soil
- Impact, hard faced with carbide chips on two sides

P/N 34002 (1650 HFFTC)



TUNGSTEN CARBIDE TOOTH

- Highly abrasive soil, frozen ground
- Low impact

P/N 34030 (1656)



CARBIDE GAUGE TOOTH

- Highly abrasive soil

P/N 34040 (1658)



39110	1 ft. Length Rubber Lock
39150	Soft Hammer



DRAGON'S TOOTH®

**NON-ROTATING
ROCK BIT**

Sizes:

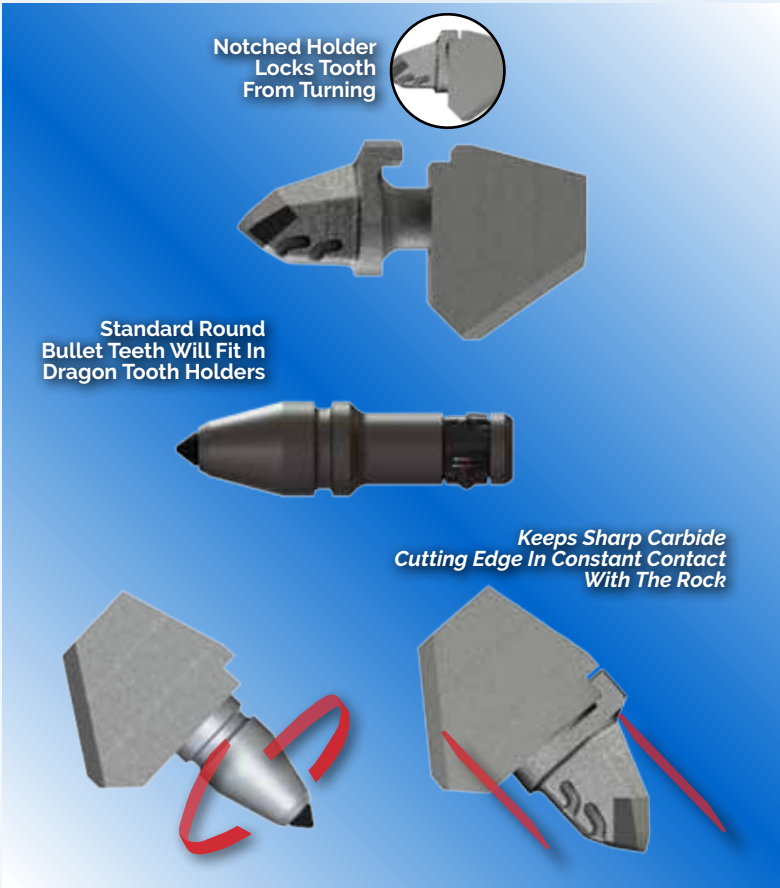
.875 P/N 30112-N 

.990 P/N 30145 

38mm P/N 30188 

Typically outlasts standard rotating
bullet teeth by five to one.

**CUTS THROUGH
HARD ROCK FAST!**



The Dragon's Tooth® is an original design of Jeffrey Machine, Inc.

PARTS: TEETH & HOLDERS

Quantity Per Bucket

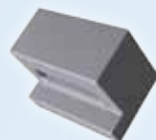


P/N 34200
(PFC-5)



CARBIDE FACED TOOTH

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



P/N 36020
(PFC-5H)



P/N 30112-N
(.875 Dragon's tooth)



DRAGON'S TOOTH® NON-ROTATING TOOTH

- Fits .875 Dragon holder
- Non-rotating design
- Large long-life carbide
- Shank plates and pilots available



P/N 32000
(.875 Dragon holder)



BULLET REPLACEMENT TEETH



P/N 30004 .735 Bullet Tooth



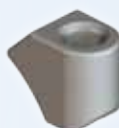
P/N 32011 .735 Holder



P/N 30072 .765 Bullet Tooth



P/N 32021 .765 Holder



P/N 30082 .875 Bullet Tooth



P/N 32035 .875 Holder



P/N 30122 .990 Bullet Tooth



P/N 32040 .990 Holder



BULLET TOOTH PULLERS

P/N 30542 123 Bullet Tooth Puller

- Fits .735, .765 and .875 teeth

P/N 30512 .990 Bullet Tooth Puller



PILOT BITS & ADAPTERS



RCP 6.5 BOLT-ON AUGER PILOT

- 6½" Cut Diameter
 - .875 Bullet Teeth and CP-18 Carbide Pilot Tip
- P/N 40240

STANDARD DIRT PILOT

- Best utilized in standard dirt applications
- P/N 40000 (FH205)



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" diameter carbide tipped drill head is best used in concrete, stone, and frozen ground
- P/N 40060 (5.0-TCH-171)

PILOT BITS & ADAPTERS



CP-18 PILOT

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 ROCK PILOT

► Works well on fractured to non-fractured rock. Also available with 2^{3/8}" API thread.

P/N 40180



PILOT ADAPTER

► Comes with a bolt and nut

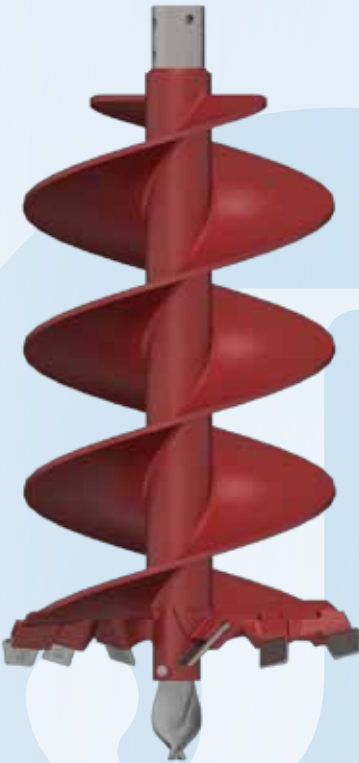
P/N 42010 (PA-183-L)

LIGHT DUTY AUGERS AND ACCESSORIES

INDEX

LIGHT DUTY ROCK AND DIRT AUGERS..... 72

LIGHT DUTY TEETH AND ACCESSORIES..... 73



LIGHT DUTY AUGERS

Available in sizes 6" to 48"



Double Cut, Single Flight

LIGHT DUTY ROCK AUGER

WITH 1 $\frac{3}{4}$ " SQUARE ROCK PILOT WITH .765 TEETH

- 2", 2 $\frac{1}{2}$ ", 2 $\frac{5}{8}$ " hex hubs
- 2", 2 $\frac{9}{16}$ " round hubs
- Overall length of 42"
- 1" thick lower flight, $\frac{3}{8}$ " upper flight

Diameter	Part No.
9"	9-42-LDRA
10"	10-42-LDRA
11"	11-42-LDRA
12"	12-42-LDRA
14"	14-42-LDRA
16"	16-42-LDRA
18"	18-42-LDRA
20"	20-42-LDRA
22"	22-42-LDRA
24"	24-42-LDRA
30"	30-42-LDRA
36"	36-42-LDRA
42"	42-42-LDRA
48"	48-42-LDRA

LIGHT DUTY DIRT/CARBIDE AUGER

WITH 35 SERIES CARBIDE TEETH

- 2", 2 $\frac{1}{2}$ ", 2 $\frac{5}{8}$ " hex hubs
- 2", 2 $\frac{9}{16}$ " round hubs
- Overall length of 42"
- $\frac{3}{8}$ " thick flighting

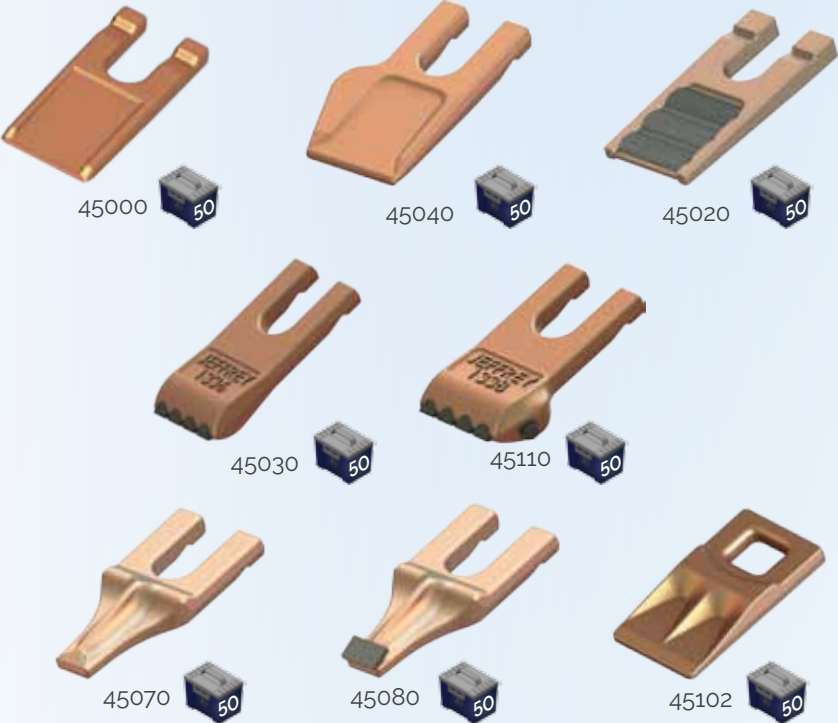
Diameter	Part No.
6"	6-42-LDDA
8"	8-42-LDDA
9"	9-42-LDDA
10"	10-42-LDDA
12"	12-42-LDDA
15"	15-42-LDDA
16"	16-42-LDDA
18"	18-42-LDDA
20"	20-42-LDDA
24"	24-42-LDDA
30"	30-42-LDDA
36"	36-42-LDDA
42"	42-42-LDDA
48"	48-42-LDDA



Double Cut, Double Flight

LIGHT DUTY TEETH & ACCESSORIES

Quantity Per Bucket



Part No.	Reference No.	Description	Application
45000	1335	Dirt tooth	Ordinary digging
45040	1337	Gauge dirt tooth	Ordinary digging
45020	1335-HFF	Carbide hard faced tooth	Abrasive frozen soil
45030	1336	Carbide insert tooth	Abrasive frozen soil
45110	1338	Carbide gauge tooth	Abrasive frozen soil
45070	5T30	Chisel Point	Loose rock, compacted soil
45080	5T30-C	Chisel point w/ carbide	Compacted rock, abrasive soil - no impact
45102	BC58F	Dirt tooth	Ordinary digging

ANCHOR PLACEMENT TOOLS

INDEX

6 BOLT KELLY BAR ADAPTERS.....75

6 BOLT LOCKING DOG75

6 & 12 HOLE BOLT CIRCLES75

SS HELICAL PIER ANCHOR75

DRIVE END WRENCHES & EXTENSIONS.....76

12 BOLT KELLY BAR ADAPTERS.....77

12 BOLT LOCKING DOG77

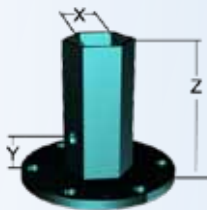
LARGE HUB DRIVE END WRENCHES & ADAPTERS77

WIRE REELS / STORAGE78-79

FLIGHTING..... 80-81



ANCHOR PLACEMENT TOOLS & ACCESSORIES

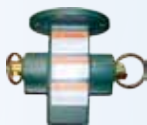


5 1/4" BOLT-CIRCLE KELLY BAR ADAPTERS

For 10,000 ft. lb. maximum installing torque

Each of these Kelly bar adapters has six holes for 1/2" bolts on a 5 1/4" bolt circle and comes with six 1/2" grade 5 bolts, nuts and lock washers, and bent arm pin with coil lock.

Part No.	Kelly Bar Shape	Kelly Bar Dimension			Weight, lb.
		X	Y	Z	
20001	Square	2 1/2"	2 1/4"	3 1/2"	10
20350	Hex	2"	5"	6 1/8"	10
20040	Hex	2 1/2"	4 1/4"	8 1/8"	12
20050	Hex	2 5/8"	4 1/4"	8 1/8"	12



STANDARD LOCKING DOG ASSEMBLY

Has six 1/2" holes on 5 1/4" bolt circle, and includes six 1/2" grade 5 bolts, nuts and lock washers.

Part No.	Description	Weight, ea.
20090	Complete standard locking dog assembly	20 lb.
20101	Locking dog replacement kit includes parts necessary to replace both locking dogs	4 lb.



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.

Part No.	SS Anchor Series Tool	Bolt Circle, Holes	Approx. Weight, lb.
20030	SS5/SS150	5 1/4", (6) 1/2" holes	7
20131	SS175	7 5/8", (12) 5/8" holes	18
20391	SS200	7 5/8", (12) 5/8" holes	18
20401	SS225	7 5/8", (12) 5/8" holes	30

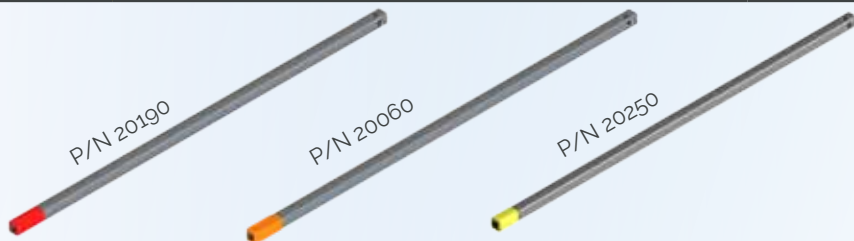
ANCHOR PLACEMENT TOOLS

7 FT. DRIVE-END WRENCH

Part No.	Description	Weight, ea.
20190	Installs 15,000 ft.lb. (large hub) drive string system anchors 8,000 ft.lb (large hub) drive string system and all 1 $\frac{1}{2}$ " core anchors	73 lb.
20060	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	57 lb.
20250	Hybrid drive-end wrench installs 8,000 ft.lb. (large hub) anchors, 6,000 ft.lb. anchors, 7,000 ft.lb. anchors	64 lb.

3½ FT. DRIVE-END WRENCH

Part No.	Description	Weight, ea.
20181	Installs 15,000 ft.lb. (large hub) drive string system anchors 8,000 ft.lb (large hub) drive string system and all 1 $\frac{1}{2}$ " core anchors	36 lb.
20071	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	29 lb.
20241	Hybrid drive-end wrench installs 8,000 ft.lb. (large hub) anchors, 6,000 ft.lb. anchors, 7,000 ft.lb anchors	28 lb.

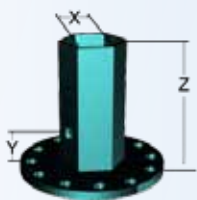


EXTENSION WRENCH FOR STANDARD AND HYBRID DRIVE-END WRENCHES

Part No.	Description	Weight, ea.
20011	3½ ft. Standard & Hybrid Drive-End Extension	42 lb.
20021	7 ft. Standard & Hybrid Drive-End Extension	70 lb.
20201	3½ ft. Extension Assemblies	53 lb.
20211	7 ft. Extension Assemblies	89 lb.

Drive Wrench Part No.	Length (ft.)	Maximum Installing Torque Rating (ft-lbs)	Outside Dimension (inches)	Inside Dimension (inches)
20190	7'	15,000	2.44	1.5
20181	3½'	15,000	2.44	1.54
20060	7'	10,000	2.16	1.46
20071	3½'	10,000	2.16	1.46
20250	7'	10,000	2.44	1.5
20241	3½'	10,000	2.44	1.54

ANCHOR PLACEMENT TOOLS & ACCESSORIES



7⁵/₈" 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 7⁵/₈" bolt circle and comes with twelve ⁵/₈" grade 2 bolts, nuts and lock washers, and bent arm pin with coil lock.

Part No.	Kelly Bar Shape	Kelly Bar Dimension			Weight, lb.
		X	Y	Z	
20140	Hex	2½"	4 ³ / ₈ "	8¼"	23
20150	Hex	2 ⁵ / ₈ "	4 ³ / ₈ "	8¼"	23
20411	Hex	3"	3½"	8"	27
20161	Square	2½"	2½"	7"	22
20451	Square	3"	3½" & 2 ¹ / ₁₆ "	7"	23



12 BOLT LOCKING DOG

Twelve ⁵/₈" holes on a 7⁵/₈" bolt circle. Includes twelve ⁵/₈" bolts, nuts and lockwashers. Also includes bent arm pin with coil lock.

P/N 20170

WIRE REELS/STORAGE

Part No.	Description
10190	Hook Rack (fixed & swivel also available)
10255	Cage Spider Reel
10260	Guy Wire Spider Reel
10265	Guy Wire Basket
10275	Wire Basket
10280	"A" frame Spider Reel
10285	Stand Up Spider Reel
10295	Double Spider Reel
10300	Duplex-Triplex Wire Basket
10305	Collapsible Reel
10330	Wire Storage Rack ("Bicycle")

SWIVEL SHEAVES

Part No.	Description
10045	16,000 LB Swivel Sheave
10050	30,000 LB Swivel Sheave

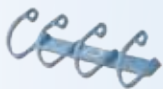
CABLE STEPS

Part No.	Description
10055	$\frac{3}{4}$ " Diameter Cable Step / Small Step
10060	1 $\frac{1}{4}$ " Diameter Cable Step / Large Step
10165	Top Load Chock Block Holder
10170	Left Load Chock Block Holder
10175	Right Load Chock Block Holder

LIGHT BAR, CONE HOLDERS, BUCKET RESTS

Part No.	Description
10000	Telescopic Light Bar Assembly
10380	Cone Holder - A Frame Style
10385	Cone Holder - Basketball Style
10390	Cone Holder - Pole with Base Style
10440	Bucket Rest Kit

WIRE REELS/STORAGE



10190 Hook Rack



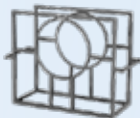
10255 Cage Spider Reel



10260 Guy Wire Spider Reel



10265 Guy Wire Basket



10275 Wire Basket



10280 "A" Frame Spider Reel



10285 Stand Up Spider Reel



10295 Double Spider Reel



10300 Duplex-Triplex Wire Basket



10305 Collapsible Reel



10330 Wire Storage Rack ("Bicycle")



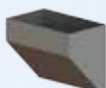
10045 16,000 LB Swivel Sheave



10050 30,000 LB Swivel Sheave



10055 3/4" Diameter Cable Step / Small Step



10165 Top Load Chock Block Holder



10000 Telescopic Light Bar Assembly



10380 Cone Holder - A Frame
10385 Cone Holder Basketball
10390 Cone Holder Pole w/Base

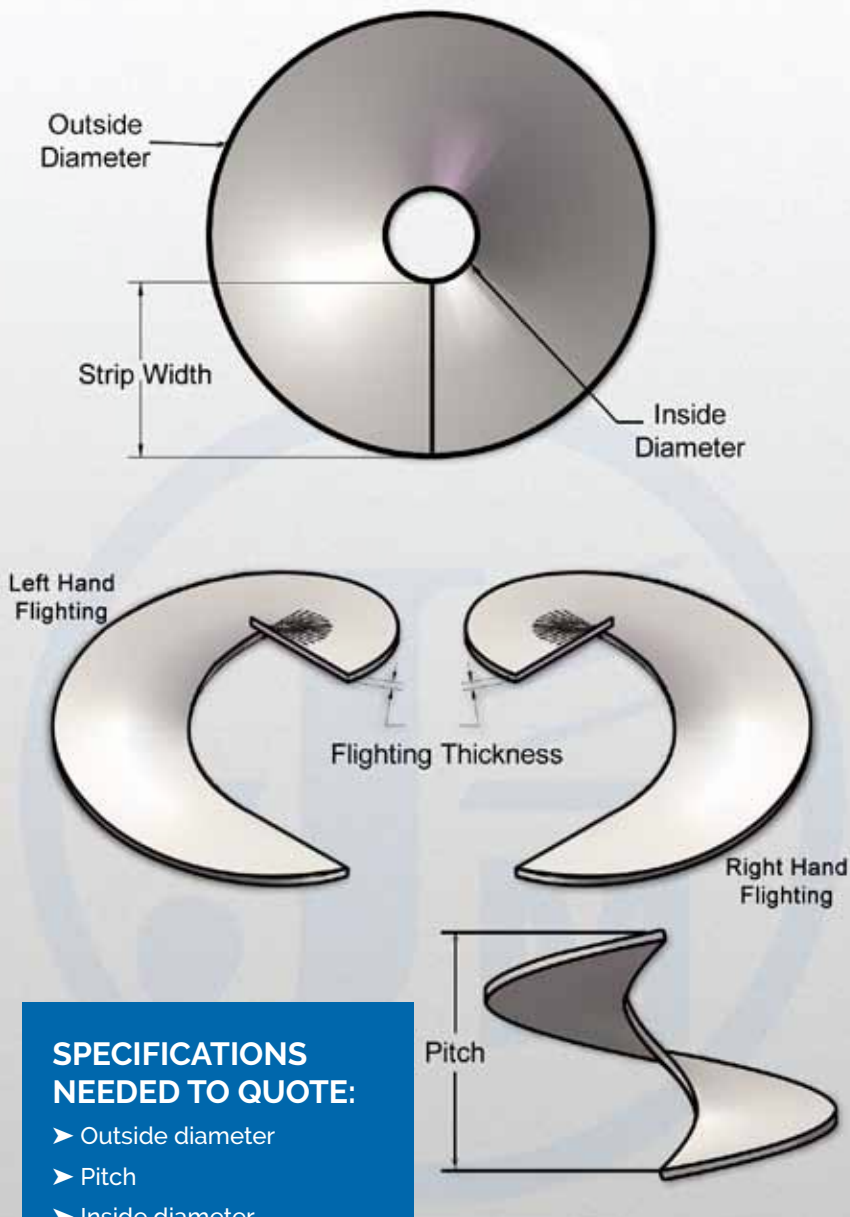


10440 Bucket Rest Kit



FLIGHTING





SPECIFICATIONS NEEDED TO QUOTE:

- Outside diameter
- Pitch
- Inside diameter
- Thickness
- Specify right or left hand flighting



JEFFREY MACHINE INC

DRIVEN BY PRECISION

CORPORATE OFFICE

3841 INDUSTRIAL DRIVE
BIRMINGHAM, ALABAMA 35217
PHONE (205) 841.8600
FAX (205) 841.2009

TEXAS LOCATION

2214 W. EULESS BLVD
EULESS, TEXAS 76040
PHONE (817) 545.8677

*Built by need.
In business to serve you.*

JEFFREYMACHINE.COM