



Wireline Tools and Equipment Catalog

[Click to view](#)

- A) Locking Mandrels & Landing Nipples
- B) Bailers
- C) Fishing Equipment
- D) Gas lift Equipment
- E) Downhole Equipment
- F) Probes & Prongs
- G) Stops
- H) Surface Equipment
- I) Packoff Tools
- J) Tool String
- K) Pulling Tools
- L) Running Tools
- M) Test Tools
- N) Shifting Tools
- O) Miscellaneous

[GO TO TABLE OF CONTENTS](#)

[Press Esc to Exit](#)

TABLE OF CONTENTS

A	E
Aluminum Dummy ----- O-1	Equalizing Subs
FMS Anti-Blow Up Tool ----- O-2	FMSRR Equalizing Sub ----- E-3
	FMSXX Equalizing Sub ----- E-3
B	Type "B" ----- E-4
Bailers	Type "H" ----- E-4
Dump Bailer ----- B-1	
Sand Bailer	G
One Piece ----- B-2	Go Devils ----- C-4
Two Piece ----- B-3	
Drive Down Bailer ----- B-4, B-5	I
Sample Bailer ----- B-6	Impression Blocks ----- J-9
Hydrostatic Bailer ----- B-7	
Bar Fishing Clamp ----- C-1	J
Blind Box ----- J-1	Jars
Bottom Hole Pressure Soft	Tubular Jars ----- J-10
Release ----- J-2	Junk Baskets
Broaches	For Hydrostatic Bailer ----- B-6
Diamond Broach ----- J-3	
Paddle Broach ----- J-3	K
Pineapple Broach ----- J-4	Kickover Tools
Bull Dog Spear ----- C-2	Type "AK" ----- D-1
	Type "K" ----- D-1
C	Knuckle Jars ----- J-11
Center Spear ----- C-3	Knuckle Joints ----- J-12
Centralizers	
Steel Centralizer ----- J-5	L
Teflon Centralizer ----- J-6	Locking Mandrel
Adjustable Bow Spring	D Locking Mandrel ----- A-1
Centralizer ----- J-7	FMSR Locking Mandrel ----- A-2
Check Set Tool "FMS" ----- J-8	FMSRN Locking Mandrel ----- A-2
Circulating Plugs	FMSX Locking Mandrel ----- A-3
Type "A" ----- E-1	FMSXN Locking Mandrel ----- A-3
Crossover Subs ----- O-3	Lubricators ----- H-1
	Lubricator Clamp ----- H-2
D	
FMS Down Hole Choke ----- E-2	

TABLE OF CONTENTS

M		Pulling Tools	
Heavy Duty Fishing Magnets	C-5	GG Pulling Tool	K-1
Skirted Magnets	C-6	GS Pulling Tool	K-2
		GS Pulling Tool Core	
N		Extensions	K-3
No Go Subs	J-13	GR Adapter	K-4
FMSX Landing Nipple	A-4	JD Pulling Tool	K-5
FMSXN Landing Nipple	A-4	JU Pulling Tool	K-6
FMS Nipple Locator	J-14	R Pulling Tool	K-7
		S Pulling Tool	K-8
P		2 Legged Pulling Tool	K-9
Packoffs		3 Legged Pulling Tool	K-9
G Packoff	I-1	Pump In Sub with Weco Union	H-3
Paraffin Cutter (Gauge Ring)	J-15		
Paraffin Scratcher	J-16	Q	
Pinning Tools	O-4	Quick Unions	H-4
Plugs			
FMSPR Plug Packing Type	E-5	R	
FMSPX Plug Grommet Type	E-6	Releasing Tool	O-4
FMSPX Plug Packing Type	E-5	Rope Sockets	
FMSRR Plug	E-7	Single Strand	J-17
FMSXX Plug	E-7	Brass Wedge	J-18
FMSXR Pump Through Plug	E-8	Multi Strand	J-19
Probes		Running Tools	
A Probe	F-1	C-1 Running Tool	L-1
B Probe	F-1	Collar Stop Running Tool	L-2
Prongs		D Running Tool Collet Type	L-3
Prongs	F-2	GA-2 Running Tool	L-4
DD Bridge Plug Pulling		G Stop Running Tool	L-5
Prongs	F-3	JC-3 Running Tool	L-6
DX Prongs	F-4	JK Running Tool	L-4
DXX Prongs	F-2	J Running Tool	L-7
HX Prongs	F-4	PS Running Tool	L-8
FMSRR Prongs	F-5	RK-1 Running Tool	L-9
FMSXX Prongs	F-5	W Running Tool	L-10
Prong Crossovers	F-3	FMSR Running Tool	L-11
		FMSX Running Tool	L-11



TABLE OF CONTENTS



S		Wirefinder Top Sub -----	C-8
Shifting Tools		Wiregrabs	
B Shifting Tools -----	N-1	2 Prong Wireline Grab -----	C-9
Shock Absorders -----	O-5	3 Prong Wireline Grab -----	C-10
Standing Valves		Wire Tester -----	H-9
Type A Standing Valve -----	E-9		
Star Drill -----	O-4		
Stems			
Stem -----	J-20		
Leaded Stem -----	J-21		
Roller Stem -----	J-22		
Stops			
Type A Tubing Stop -----	G-1		
Collar Stops -----	G-2		
Stuffing Boxes			
FMS Stuffing Box -----	H-5		
5,000 PSI -----	H-5		
10,000 PSI -----	H-5		
15,000 PSI -----	H-5		
Stuffing Box Staff Assembly -----	H-6		
Hydraulic Packing Nut -----	H-7		
Swab Mandrels -----	O-6		
Swivels -----	O-7		

T	
Test Tools	
N Test Tool -----	M-1
FMSX Selective Test Tool -----	M-2
Tree Connections -----	H-8
Tubing End Locator -----	J-23
Tubing Swedge -----	J-24

W	
Wirefinders	
Wirefinder Retriever (Less Skirt) -----	C-7
Wirefinder Split Skirt -----	C-8



Section A

Locking Mandrels

Description	Size
FMSS Locking Mandrel	1.500" - 2.875"
FMSS Locking Mandrel Adapter Sub	2" - 3" Assembly
FMSX Certified Locking Mandrel	1.875" - 2.813" Assy.
FMSXN Certified Locking Mandrel	1.875" - 2.813" Assy.
FMSX Locking Mandrel	1.250" - 3.813" Assy
FMSXN Locking Mandrel	1.250" - 3.813" Assy
B Locking Mandrel	2" - 3" Assembly
D Locking Mandrel	2" - 3" Assembly
D Locking Mandrel	2 1/2" - 3" Assy.
M Locking Mandrel	2" - 2 1/2" Assembly
T Locking Mandrel	2.750" - T1 Key - T-5 Key
W Locking Mandrel	1.250" - 3" Assy.
FMSR Locking Mandrel	1.710" - 3.688" Assy.
FMSX Landing Nipple	1.875" to 2.813 "
FMSX Certified Landing Nipple	1.875" to 2.813 "
FMSXN Landing Nipple	1.875" to 2.813 "
FMSXN Landing Nipple	1.875" to 2.813 "



Frederick's Machine and Tool Shop, Inc. (FMS), located in New Iberia, Louisiana, specializes in the machining and manufacturing of wireline service tools and equipment. All wireline tools manufactured by FMS are equivalent to and completely interchangeable with major service company tools. This offers our customers an alternative means of providing quality service with quality equipment at an affordable cost. Once the manufacturing process of a tool or component of a tool assembly is completed, it is carefully inspected to assure its reliability. The parts are then placed in our computerized inventory system, ensuring that our customers are able to receive the equipment they want, when they want it.

At FMS, Quality Control is an issue we do not take lightly. It is of the utmost importance to us that we supply our customers with the best products possible. Our commitment to quality starts with the verification of incoming materials, and continues through all phases of production, up to the final release of the product. A strict, detailed step-by-step procedure ensures that all service and manufacturing processes we perform are of the highest quality possible. As testimony to our true commitment to quality, we are licensed under API specification 14L, as well as API's ISO 9001:2000 register.

We at FMS realize the needs for reliable and specialized wireline tools and equipment. As these needs increase so does the need for qualified manufacturers. With the combination of many valuable years of experience in the machine shop and wireline service fields, and our highly skilled work force, we are capable of ensuring our customers of meeting these needs. You will find a complete and diversified line of wireline tools and equipment in our Product Catalog. However, if we can be of assistance to your specialized machine tool needs, please feel free to contact us at any time.



ISO 9001:2000

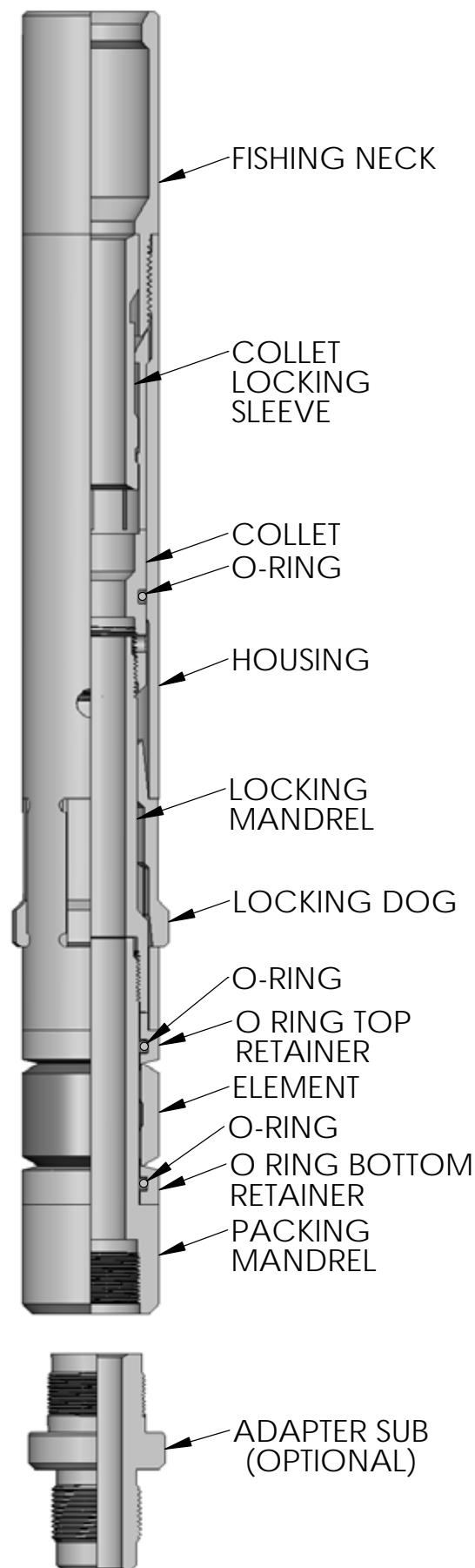
GO BACK HOME

D LOCKING MANDREL



The Type "D" Collar Lock Mandrel is used to land and lock in any collar recess of API collared tubing. The sealing element is mechanically locked in the set position so that pressure differentials can be held from above or below the locking mandrel. It can be used in conjunction with pump through plugs, positive plug, safety valves, standing valves, and packoffs.

BACK



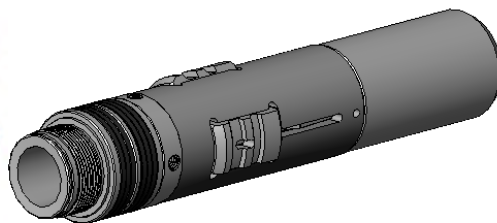
SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHINGNECK I.D.	1.375"	1.812"	2.312"
MAX O.D.	1.840"	2.281"	2.844"
MINIMUM I.D.	.938"	1.375"	1.750"
BOTTOM THREAD	1 5/16"-18	1 21/32"-14	2 1/8"-12
RUNNING TOOL	2" D	2 1/2" D	3" D
PULLING TOOL	2" GS	2 1/2" GS	3" GS

OTHER SIZES AVAILABLE ON REQUEST

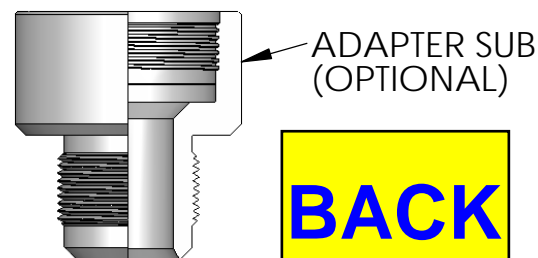
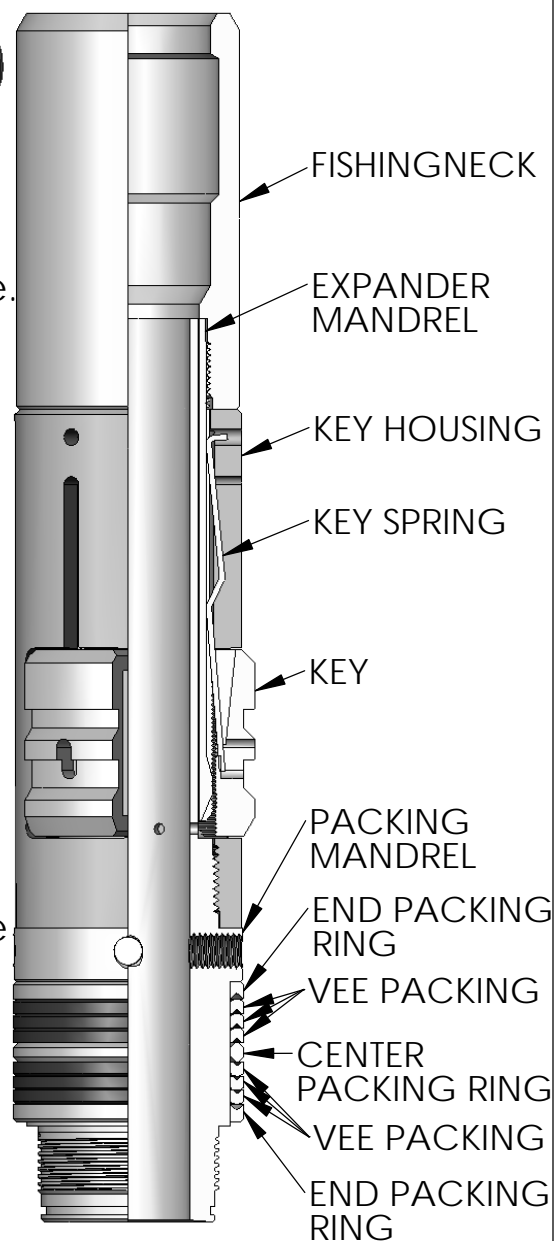
FMSR / FMSRN LOCKING MANDREL

*Frederick's
Machine*



The FMSR Locking Mandrel is a selective lock that can be installed in the FMSR Landing Nipple. They are used in heavier weight tubing due to higher well pressure. These locking mandrels use keys that lock into a profile in the landing nipple that allow it to hold pressure differential from either above or below. This lock can be used in conjunction with pump through plugs, positive plugs, safety valves, and standing valves.

The FMSRN Locking Mandrel is the "no go" version of the usually selective locks. The keys have an angled shoulder on them instead of the square shoulder of the selective locks. A "no go" shoulder of an equalizing sub or a crossover sub made up the bottom of the lock must make contact with a bore restriction in the "no go" nipple in order to lock this mandrel in the appropriate nipple. This locking mandrel can be used in conjunction with pump through plugs, positive plugs, safety valves, bottom hole chokes, and standing valves.



BACK

SPECIFICATIONS

SIZE	1.710"	1.781"	1.875"			
MINIMUM I.D.	.750"	.875"	.875"			
FISHINGNECK I.D.	1.062"	1.375"	1.375"			
BOTTOM THREAD CONNECTION	1 1/8"-16	1 3/8"-14	1 3/8"-14			
RUNNING TOOL	*	*	1 7/8" FMSR			
PULLING TOOL	1 1/2" GS	2" GS	2" GS			
SIZE	2.000"	2.125"	2.188"	2.313"	2.562"	3.688"
MINIMUM I.D.	.875"	.875"	1.125"	1.125"	1.375"	2.375"
FISHINGNECK I.D.	1.375"	1.375"	1.812"	1.812"	1.812"	3.125"
BOTTOM THREAD CONNECTION	1 3/8"-14	1 3/8"-14	1 3/4"-12	1 3/4"-12	2"-12SLB	3 1/16"-12SLB
RUNNING TOOL	2" FMSR	2 1/8" FMSR	2 3/16" FMSR	2 5/16" FMSR	2 9/16" FMSR	3 11/16" FMSR
PULLING TOOL	2" GS	2" GS	2 1/2" GS	2 1/2" GS	2 1/2" GS	4" GS

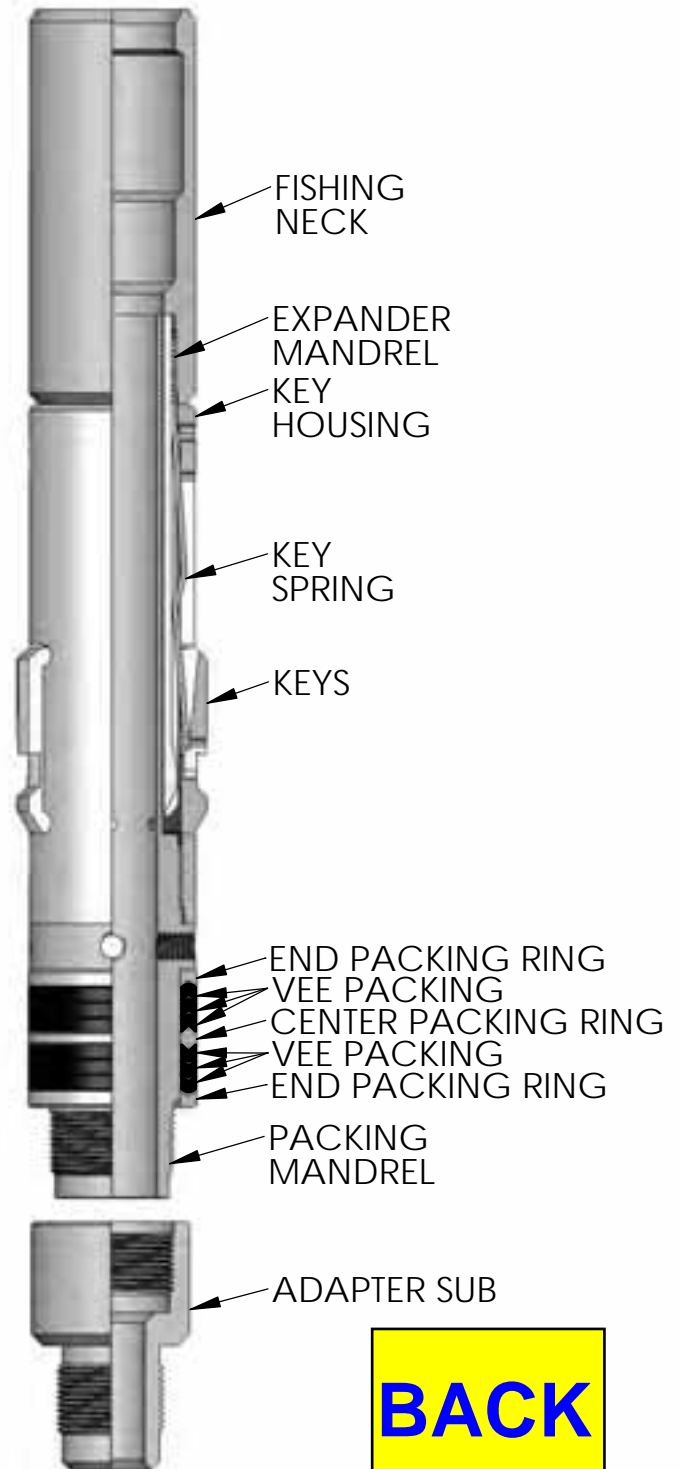
OTHER SIZES AVAILABLE ON REQUEST

FMSX / FMSXN LOCKING MANDREL



The FMSX Locking Mandrel operates in the same way as the FMSR Locking Mandrel. The FMSX Locking Mandrel is used in standard weight tubing. The FMSR Locking Mandrel is used in heavy weight tubing.

The FMSXN Locking Mandrel is the "no go" version of the usually selective locks. The keys have an angled shoulder on them instead of the square shoulder of the selective locks. A "no go" shoulder of an equalizing sub or a crossover sub made up on the bottom of the lock must make contact with a bore restriction in the "no go" nipple in order to lock this mandrel in the appropriate nipple. This locking mandrel can be used in conjunction with pump through plugs, positive plugs, safety valves, bottom hole chokes, and standing valves.



BACK

SPECIFICATIONS

SIZE	1.875"	2.313"	2.750"	2.813"
MINIMUM I.D.	1.000"	1.375"	1.750"	1.750"
FISHINGNECK I.D.	1.375"	1.812"	2.313"	2.313"
BOTTOM THREAD CONNECTION	1 3/8"-14	1 3/4"-12	2 1/4"-12SLB	2 1/4"-12SLB
RUNNING TOOL	2" FMSX	2 1/2" FMSX	3" FMSX	2.81" FMSX
PULLING TOOL	2" GS	2 1/2" GS	3" GS	3" GS

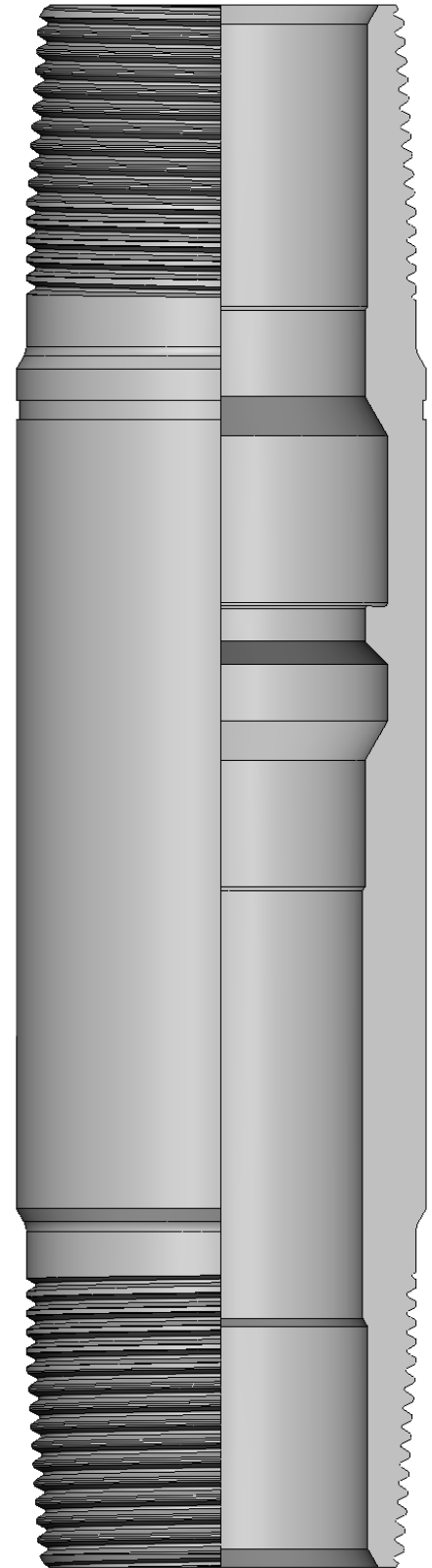
OTHER SIZES AVAILABLE ON REQUEST

PAGE A-3

FMSX / FMSXN LANDING NIPPLE



The FMSX/FMSXN Landing Nipple is designed for the FMSX/FMSXN Locking Mandrel to lock into the profile of the nipple.



BACK

FMSX SPECIFICATIONS	FMSXN SPECIFICATIONS
1.875"	1.875"
2.313"	2.313"
2.750"	2.750"
2.813"	2.813"

OTHER SIZES AVAILABLE ON REQUEST



Section B

Bailers

Description	Size
Dump Bailers	1 1/4" - 2 1/4"
1 Pc. Sand Bailer w/ Ball Bottom	1" to 3"
2 Pc. Sand Bailer w/ Ball Bottom	1" to 3"
Drive Down Bailer	1" - 2 1/4" (Ball Bottom) (Flapper Bottom)
Sample Bailer	1" - 2 1/2"
Hydrostatic Bailer	1 1/4" - 3"
Junk Basket for Hydrostatic Bailer	2" to 3" Assy
Junk Basket w/ Collar Stop	2" to 3" Assy
Junk Basket w/ Solid Bottom	2" to 3" Assy

GO BACK HOME

DUMP BAILER

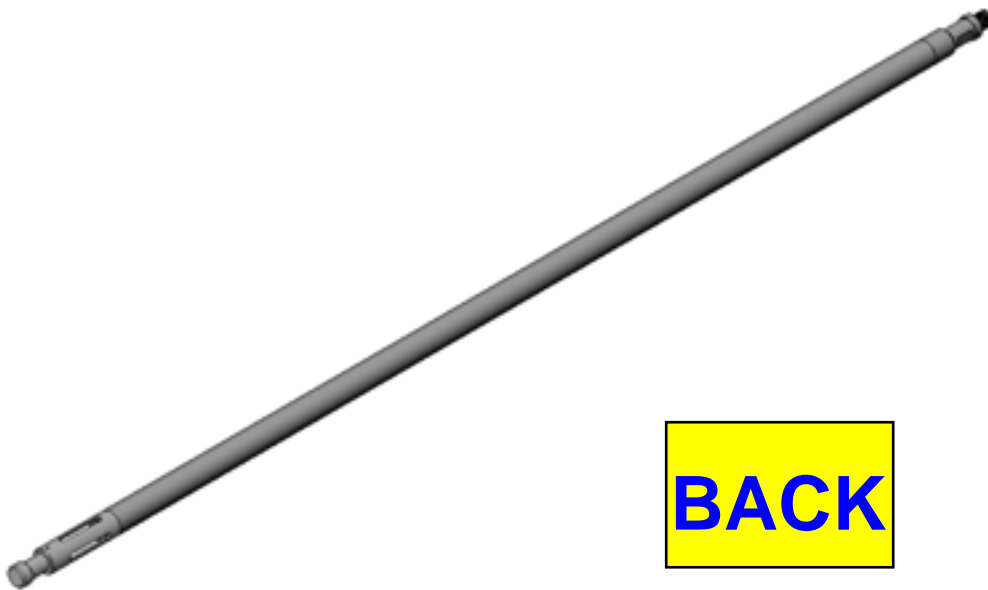
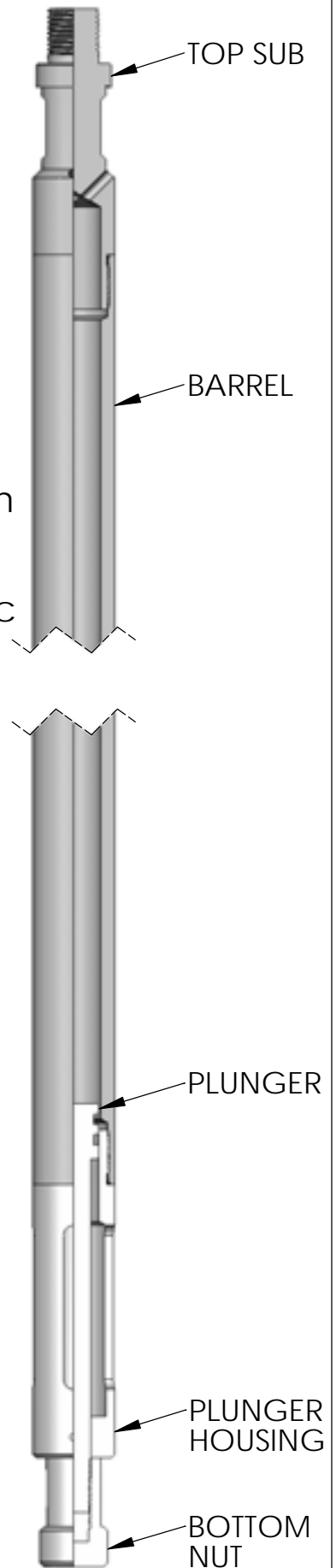


The FMS Dump Bailer is designed to allow a variety of fluids to be dumped within the well on top of any sub-surface device.

Wireline Dump Bailers are available in a variety of sizes.

The bottom shoe of the Wireline Dump Bailer should always be matched with the downhole device upon which fluid is to be dumped.

Bottom assemblies are available with glass shear disc or O-Ring seal piston.



BACK

ONE PIECE SAND BAILER

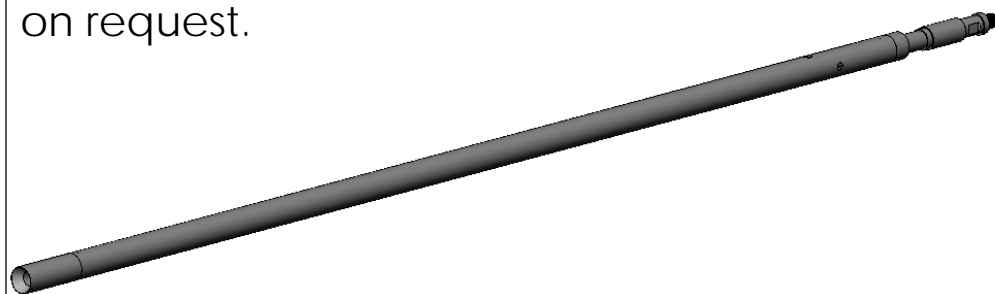
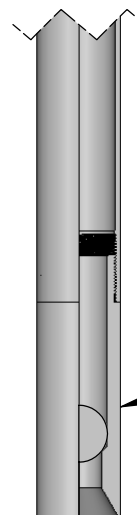
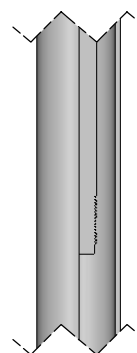
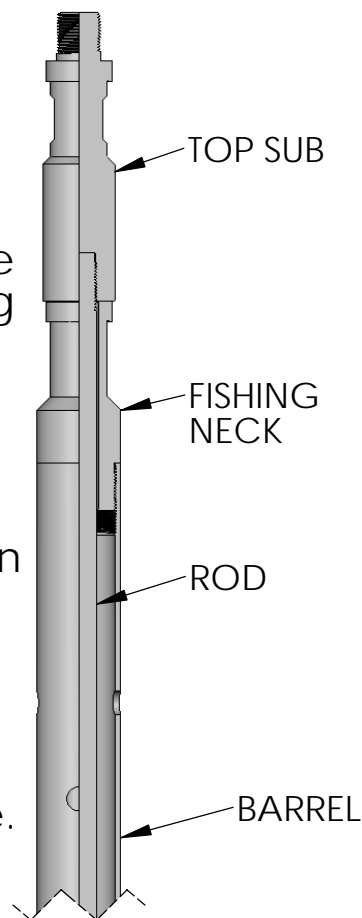


The FMS Bailer is a wireline service tool used to remove sand, mud, salt, or small pieces of junk from the tubing or casing. The Sand Bailer is also used to clear debris which has settled on top of sub-surface equipment, preventing the recovery of the equipment by regular wireline operations.

The Sand Bailer is a pump-type tool which operates on the principle of a conventional lift pump with piston.

The Sand Bailer consists of a piston and check valve encased in an outer cylinder. At the lower end of the bailer there is a ball check valve or a flapper-type valve, which allows sand and debris to enter the tube. By lightly stroking up and down with the wireline tool string the bailer acts to suck sand or debris into the cylinder through the ball or flapper bottom and trapping the substances inside the tube.

Various bottom shoe sizes and configurations, as well as extension tubes for the Sand Bailer are available on request.

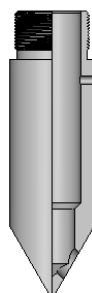


SIZES
1" O.D.
1 1/4" O.D.
1 1/2" O.D.
1 5/8" O.D.
1 3/4" O.D.
2" O.D.
2 1/8" O.D.
2 1/4" O.D.
3" O.D.

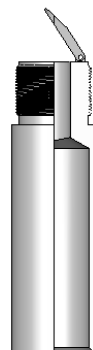
BACK

AVAILABLE IN
FINE THREAD
OR
COARSE THREAD

CHISEL
BOTTOM



FLAPPER
BOTTOM



BALL
BOTTOM

OTHER SIZES AVAILABLE ON REQUEST

TWO PIECE SAND BAILER

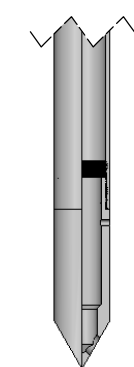
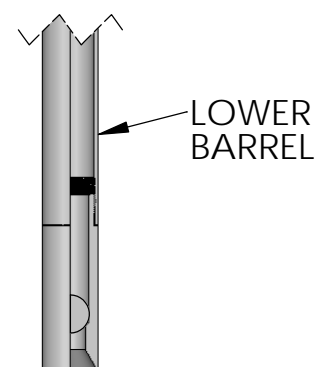
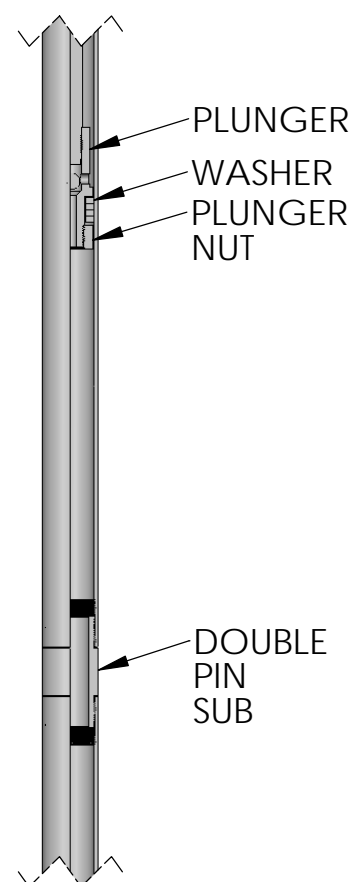
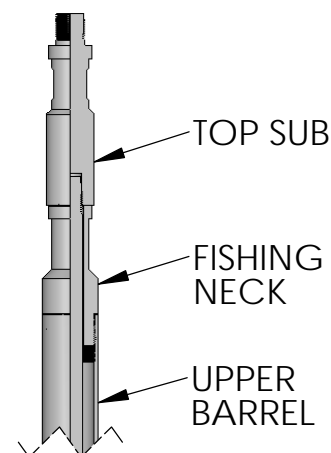
*Frederick's
Machine*



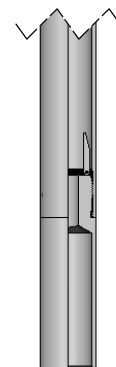
The Sand Bailer is a pump action type bailer designed to remove sand and small debris in the tubing string, through the upward stroking motion of the pump section. Sand and debris are held in the load barrel through the use of different style check bottoms. A large percentage of wireline service involves sand bailing prior to the actual pulling or setting of subsurface flow controls.

SPECIFICATIONS

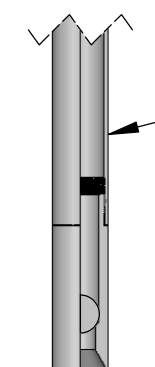
SIZE	1"	1 1/4"	1 3/8"	1 1/2"
FISHINGNECK O.D.	1.000"	1.188"	1.188"	1.188"
MAX O.D.	1.000"	1.250"	1.375"	1.500"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10
LENGTH-OPENED	144.875"	146.688"	146.438"	146.438"
CLOSED (BALL)	108.875"	110.688"	110.438"	110.438"
LENGTH-OPENED	144.563"	150.000"	145.125"	146.250"
CLOSED (FLAPPER)	108.563"	114.000"	109.125"	110.250"
PLUNGER STROKE	36.000"	36.000"	36.000"	36.000"
BALL (PISTON)	3/8"	1/2"	1/2"	1/2"
BALL	5/8"	3/4"	3/4"	1"
COARSE THREAD	*****	3/16" X 1 1/4"	*****	3/16" X 1 1/2"
FINE THREAD	3/16" X 1"	1/4" X 1 1/4"	3/16" X 1 3/8"	1/4" X 1 1/2"
SIZE	1 3/4"	2"	<div data-bbox="875 1446 1105 1583" data-label="Text"> <p>BACK</p> </div>	
FISHINGNECK O.D.	1.375"	1.375"		
MAX O.D.	1.750"	2.000"		
PIN CONNECTION	15/16"-10	15/16"-10		
LENGTH-OPENED	147.500"	112.500"		
CLOSED (BALL)	111.500"	112.500"		
LENGTH-OPENED	146.625"	146.625"		
CLOSED (FLAPPER)	110.625"	110.625"		
PLUNGER STROKE	36.000"	36.000"		
BALL (PISTON)	5/8"	5/8"		
BALL	1 1/8"	1 1/4"		
COARSE THREAD	3/16" X 1 3/4"	*****		
FINE THREAD	1/4" X 1 3/4"	3/16" X 2"		



CHISEL
BOTTOM



FLAPPER
BOTTOM



BALL
BOTTOM

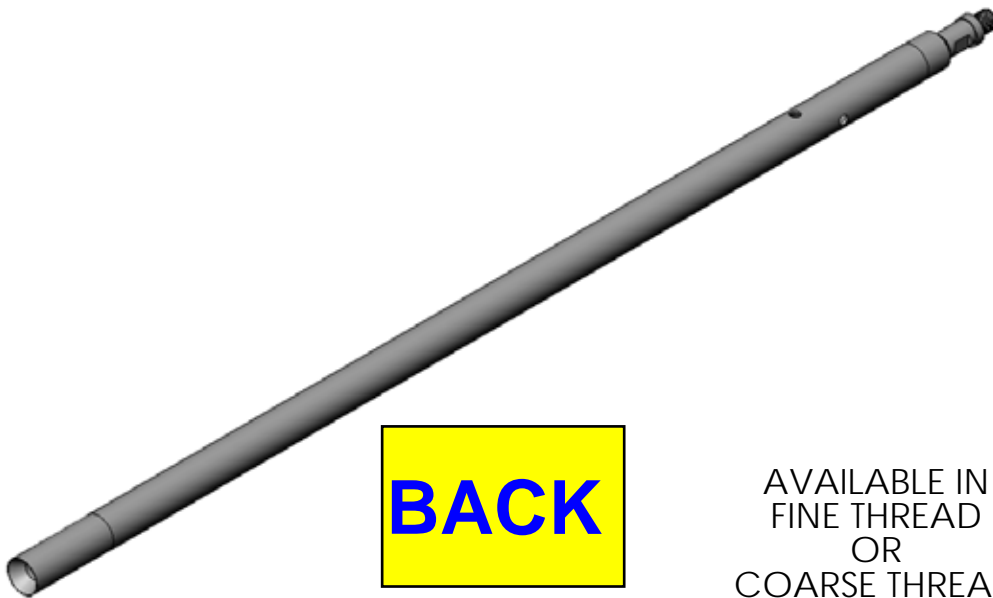
OTHER SIZES AVAILABLE ON REQUEST

PAGE B-3

DRIVE DOWN BAILER (BALL BOTTOM)

*Frederick's
Machine*

Drive Down Bailers are made of a barrel to hold the sand and a ball or flapper type check valve on the bottom. Usually, the very bottom of these bailers are cut off at an angle to make a horseshoe shape. They are used successfully in bailing mud and shale and are loaded merely by running them down in the mud and pulling back out.



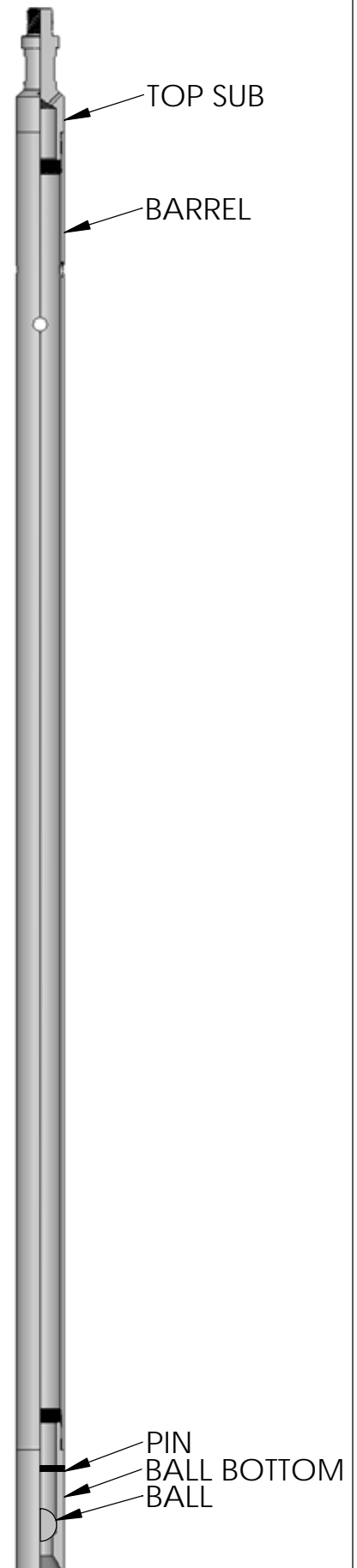
BACK

AVAILABLE IN
FINE THREAD
OR
COARSE THREAD

SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 5/8"	1 3/4"
FISHING NECK O.D.	1.188"	1.188"	1.375"	1.375"
MAX O.D.	1.250"	1.500"	1.625"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	60.938"	60.875"	60.938"	60.938"
BALL	3/4"	1"	1"	1 1/8"
STEEL PIN	3/16 X 1 1/4"	3/16 X 1 1/2"	3/16 X 1 5/8"	3/16 X 1 3/4"

OTHER SIZES AVAILABLE ON REQUEST

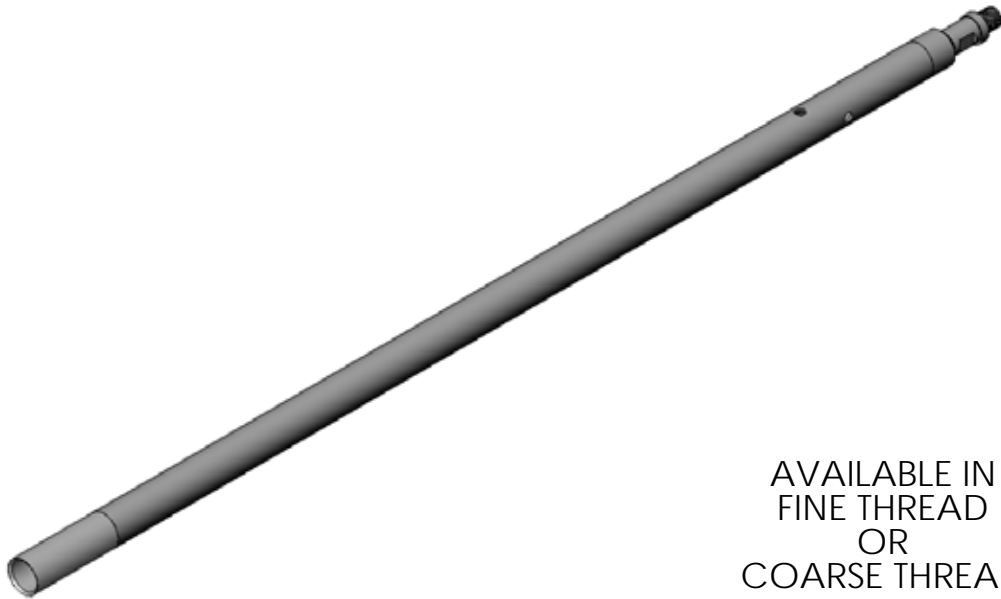


DRIVE DOWN BAILER (FLAPPER BOTTOM)

*Frederick's
Machine*

Drive Down Bailers are made of a barrel to hold the sand and a ball or flapper type check valve on the bottom. Usually, the very bottom of these bailers are cut off at an angle to make a horseshoe shape. They are used successfully in bailing mud and shale and are loaded merely by running them down in the mud and pulling back out.

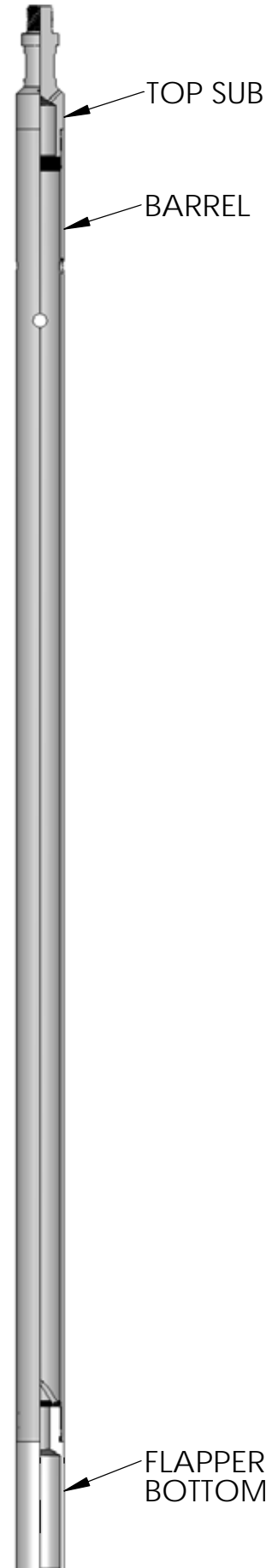
BACK



AVAILABLE IN
FINE THREAD
OR
COARSE THREAD

SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 5/8"	1 3/4"
FISHING NECK O.D.	1.188"	1.188"	1.375"	1.375"
MAX O.D.	1.250"	1.500"	1.625"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	59.625"	60.688"	60.563"	61.063"

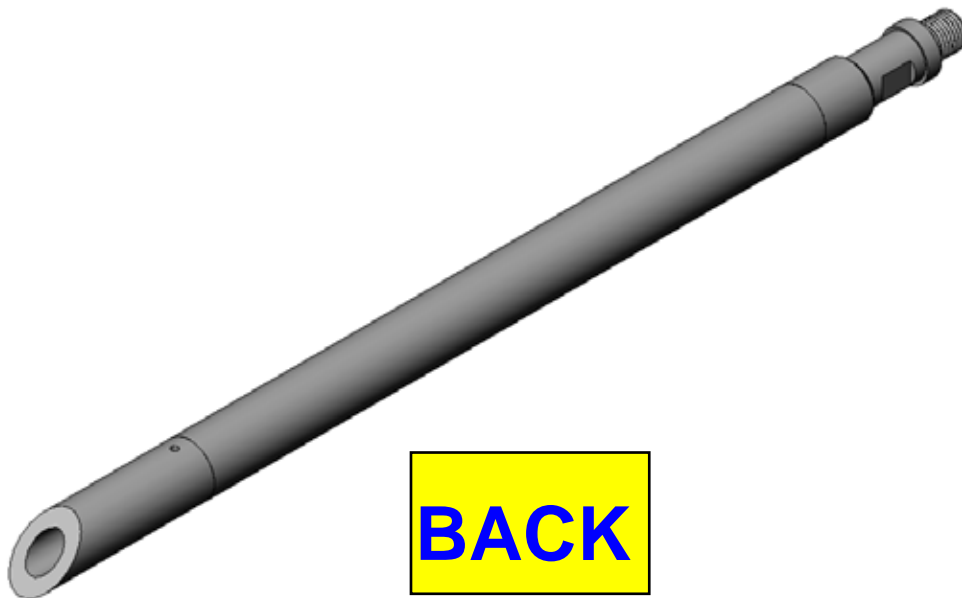


OTHER SIZES AVAILABLE ON REQUEST

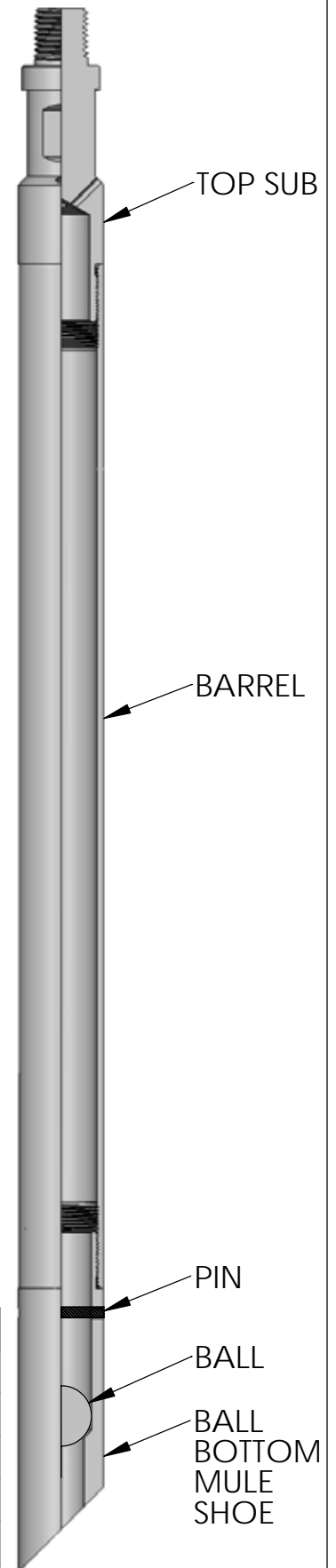
SAMPLE BAILER

*Frederick's
Machine*

The Sand Bailer is normally attached to the bottom of a Tubing End Locator to retrieve samples of fluids and solids from the well bottom. This tool can be modified to accept a Drive Down Fishingneck.



BACK



SPECIFICATIONS

SIZE	1"	1 1/4"	1 1/2"	1 5/8"	1 3/4"
FISHINGNECK O.D.	1.000"	1.188"	1.188"	1.375"	1.375"
MAX O.D.	1.000"	1.250"	1.500"	1.625"	1.750"
PIN CONNECTIONS	5/8"-11	15/16"-10	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	22.250"	22.563"	23.625"	23.688"	23.688"
BALL	5/8"	3/4"	7/8"	1"	1 1/4"
STEEL PIN	1/8" X 1"	3/16" X 1 1/4"	3/16" X 1 1/2"	3/16" X 1 5/8"	3/16" X 1 3/4"

OTHER SIZES AVAILABLE ON REQUEST

PAGE B-6

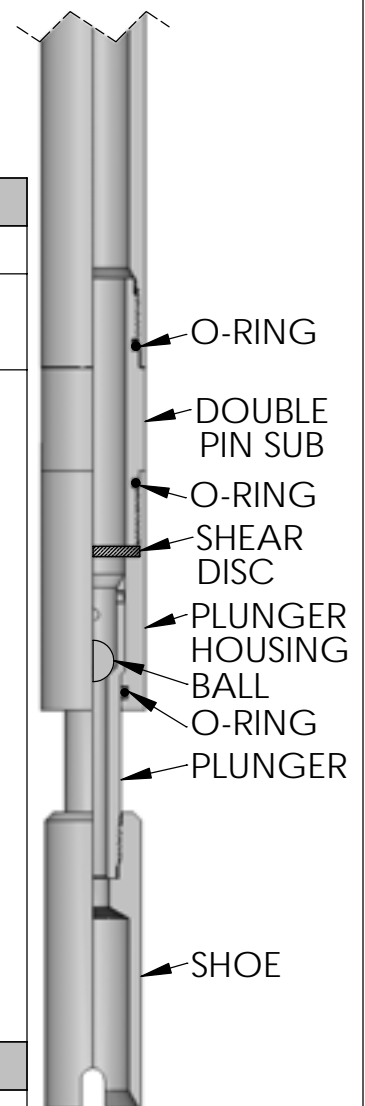
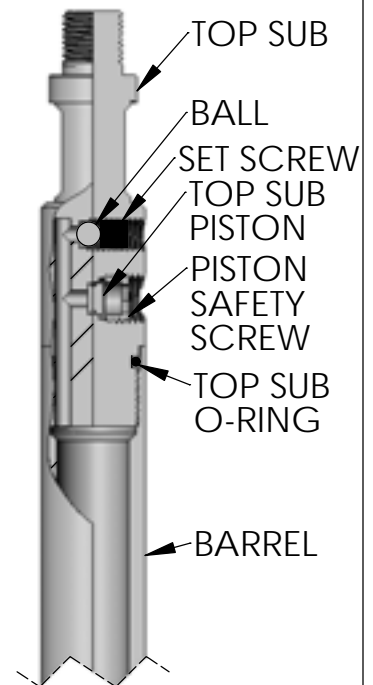
HYDROSTATIC BAILER



The FMS Hydrostatic Bailer is a wireline service tool used when substances to be bailed cannot be removed by a pump bailer. This sometimes occurs when small metallic particles or other type debris become lodged on top of the dogs of a lock mandrel, etc.

The Hydrostatic Bailer is made of a cylinder, about 5 feet long, with a shear disc mechanism at the bottom. The cylinder is at atmospheric pressure, sealed off from well pressure with an O-ring. When the obstruction is reached, the disc is sheared by downward jarring.

Different skirt sizes can be fitted for various tubing and tool sizes. Brass shear discs are available in different thicknesses for various well pressures.

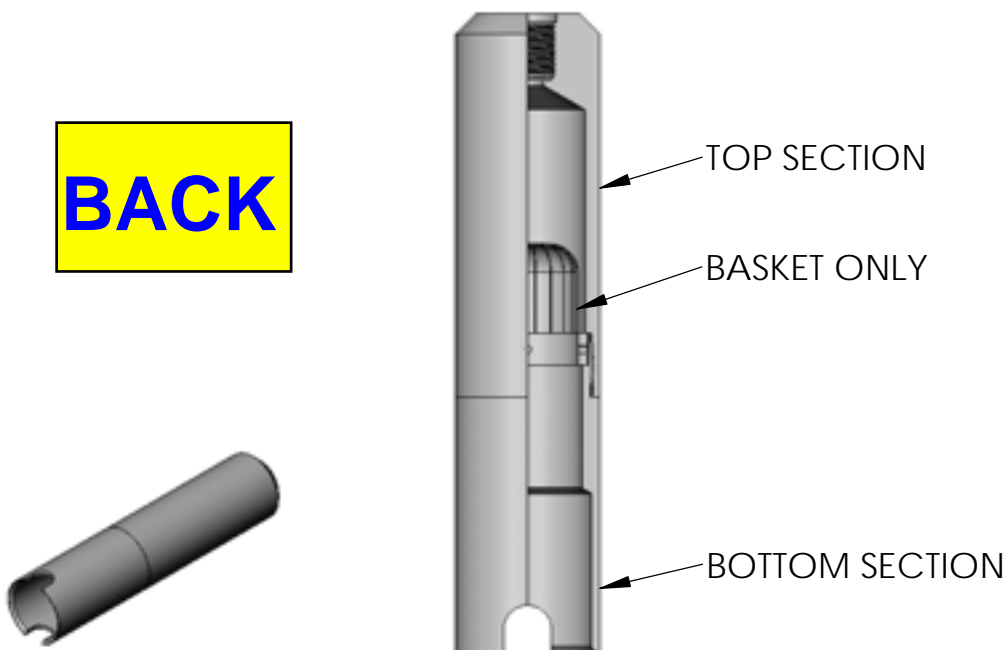


HYDROSTATIC BAILER SIZE

1 1/4" O.D.	1 1/2" O.D.	1 5/8" O.D.	2" O.D.	2 1/2" O.D.	3" O.D.
-------------	-------------	-------------	---------	-------------	---------

JUNK BASKET BOTTOM

BACK



JUNK BASKET FOR HYDROSTATIC BAILER SIZES

2"	2 1/2"	3"
----	--------	----

OTHER SIZES AVAILABLE ON REQUEST



Section C

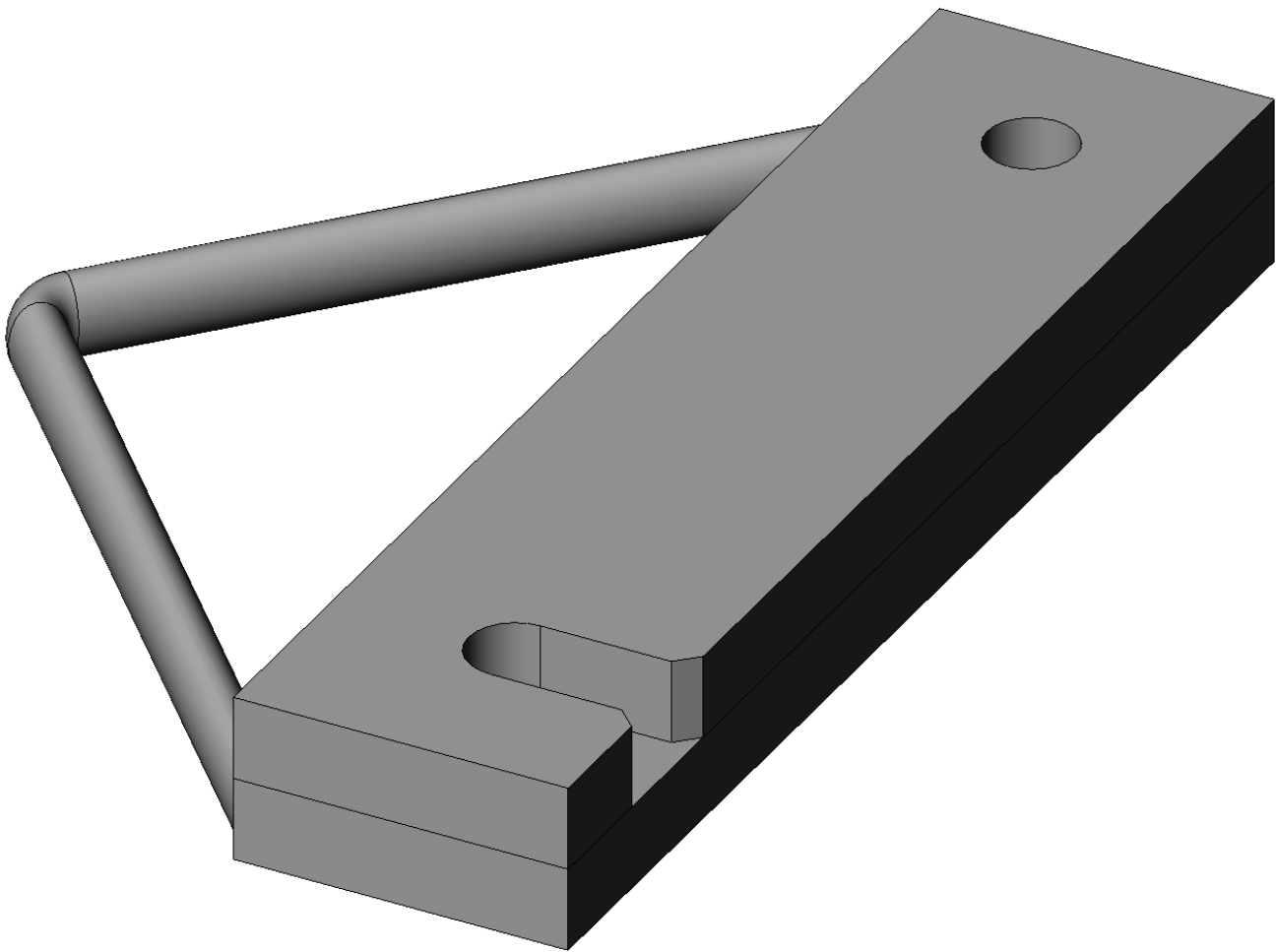
FISHING EQUIPMENT

Description	Size
Bar Fishing Clamp	Assembly
Bull Dog Spear	2" - 3"
Center Spear	Assembly
Go Devil	(1 1/4" x 2') - (2 1/8" x 5')
Heavy Duty Fishing Magnet	1 1/2" - 2.800"
Magnet	1" - 3 1/2"
Skirted Magnet	1 3/4" - 2.700"
Overshot	Asssembly
Wirefinder Retreiver (Less Skirt)	1 1/2" - 3"
Wirefinder Top Sub	Top Sub
Wirefinder Split Skirts	1.450" - 8.000"
Solid Wirefinder	1.843" - 3.820"
2 Prong Wireline Grab	1.843" - 3.500"
3 Prong Wireline Grab	1.843" - 3.500"
4 Prong Wireline Grab	1.250" - 5.500"
Cable Grab	2" - 2 1/2"
Wire Stripper	Assembly, Body & Nut

GO BACK HOME

BAR FISHING CLAMP

*Frederick's
Machine*



BACK

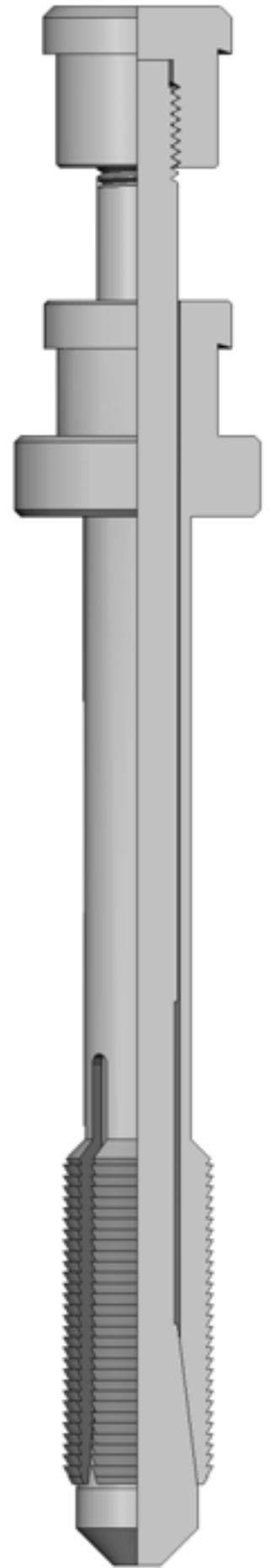
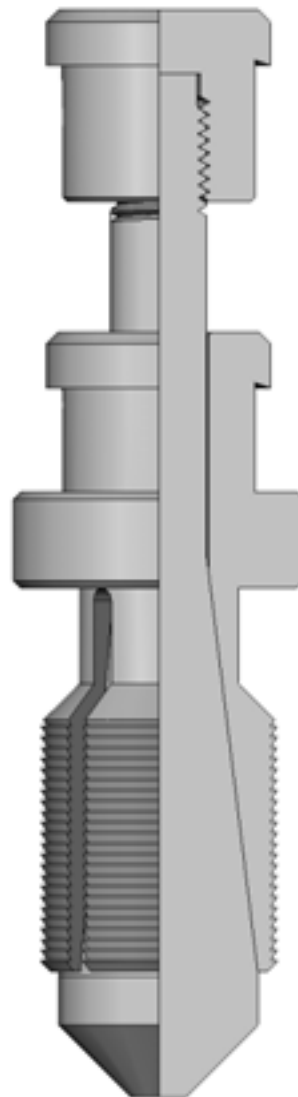
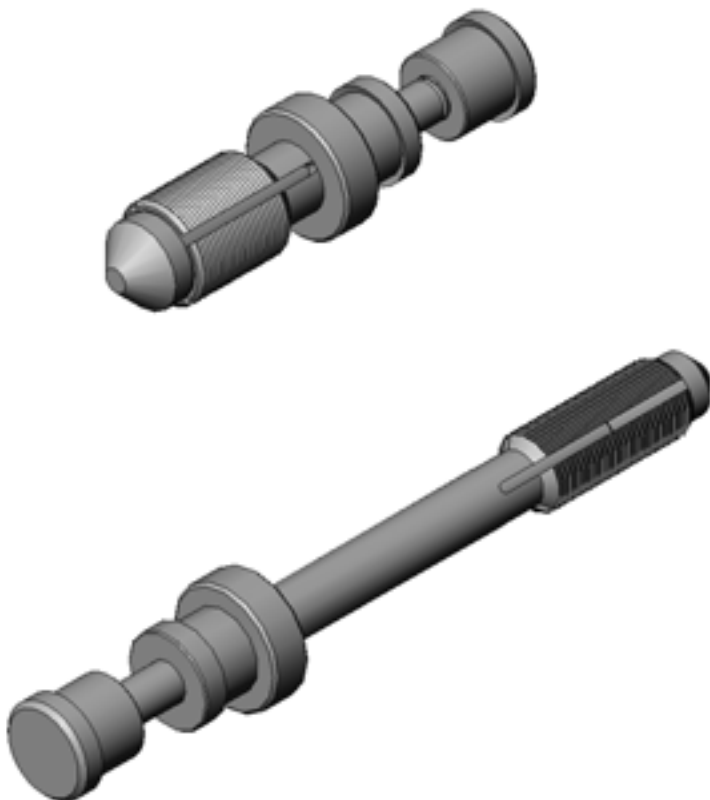
BULL DOG SPEAR



The FMS Bulldog Spear is a wireline fishing tool designed to catch the internal diameter of a wireline tool or other type "fish" requiring an internal latch.

The FMS Bulldog spear is made especially for wireline operations and is available with a wide range of hardened and tempered slips to withstand heavy fishing operations.

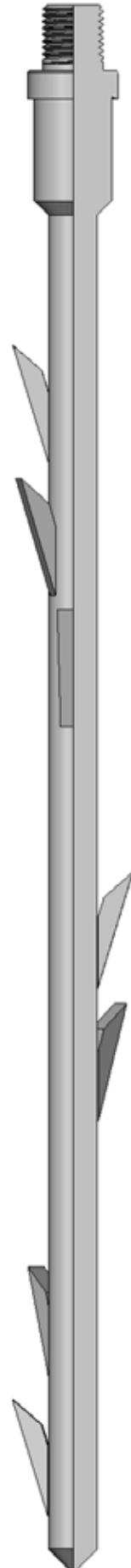
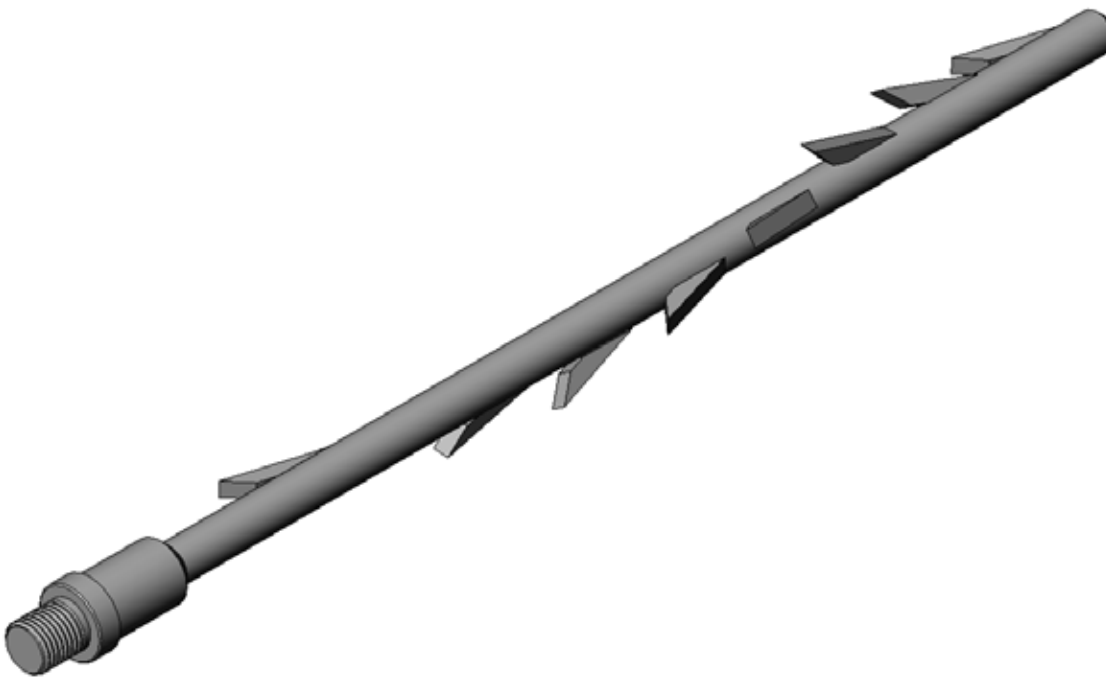
BACK



CENTER SPEAR

*Frederick's
Machine*

The Center Spear is made by welding barbs on a pointed rod. It is most commonly used when the wire is balled up and stuck in the tubing. It can be driven into the tangled wire to loosen it and facilitate the use of a two prong wire grab for final wire retrieval.



SPECIFICATIONS

SIZE	2"	2 1/2"
FISHINGNECK O.D.	1.188"	1.188"
PIN CONNECTION	15/16"-10	15/16"-10
MADE UP LENGTH	22.000"	22.000"

BACK

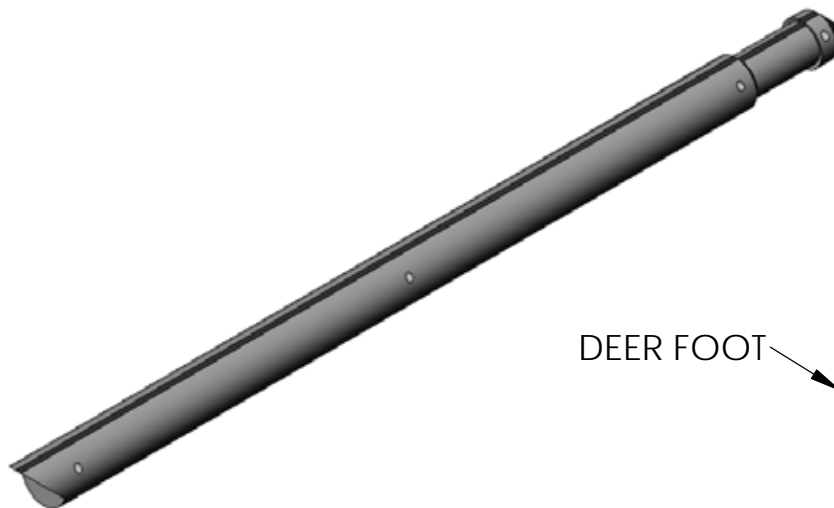
OTHER SIZES AVAILABLE ON REQUEST

GO DEVIL

*Frederick's
Machine*

The Go Devil is dropped to cut the wireline at the rope socket when the tool string becomes stuck.

BACK



DEER FOOT



MULE SHOE



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 3/4"	1 7/8"
FISHINGNECK O.D.	1.188"	1.375"	1.750"	1.750"
MAX O.D.	1.250"	1.500"	1.750"	1.875"
MADE UP LENGTH	3'	36.000"	36.000"	36.000"
	5'	60.000"	60.000"	60.000"

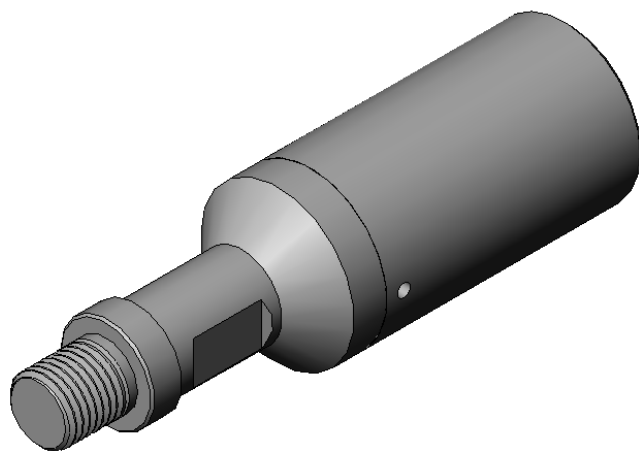
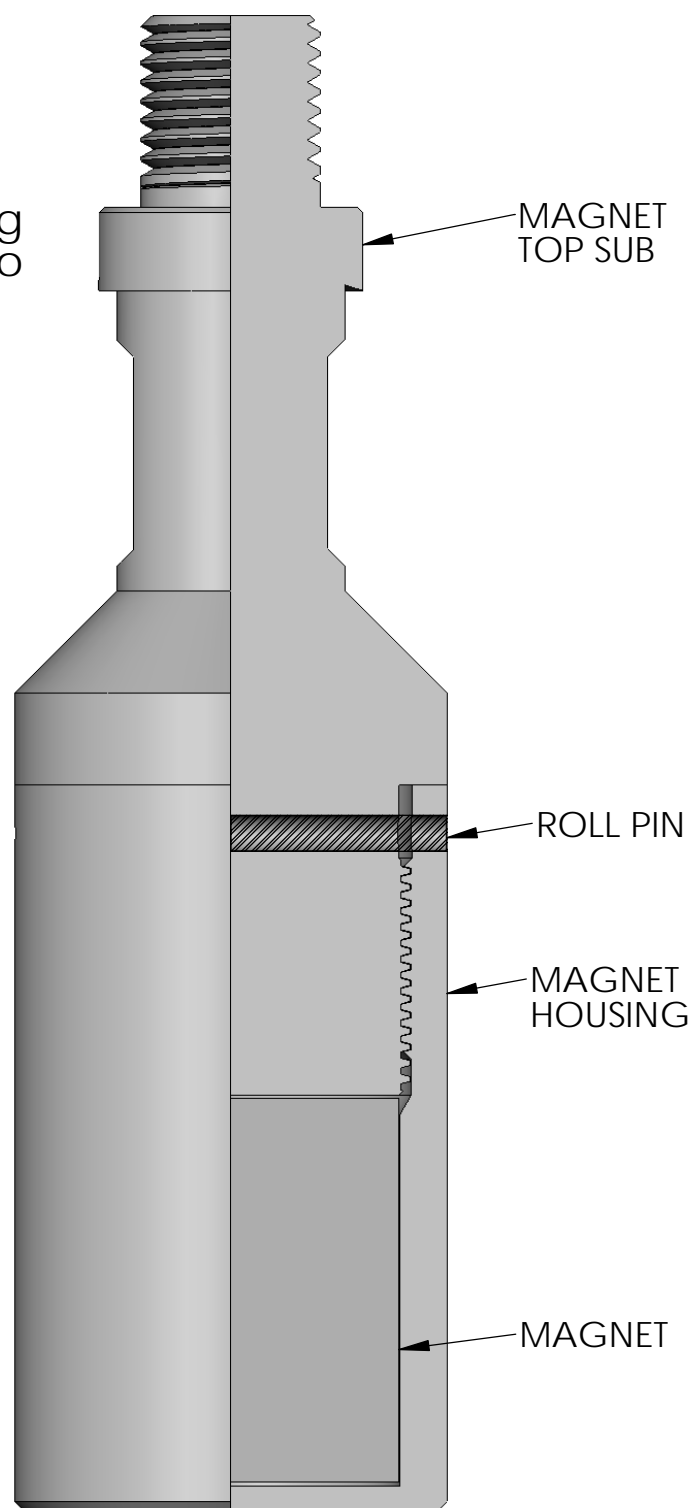
OTHER SIZES AVAILABLE ON REQUEST

PAGE C-4

HEAVY DUTY FISHING MAGNET

*Frederick's
Machine*

The FMS Heavy Duty Magnet Fishing Tool is a wireline service tool used to magnetically attract and retrieve ferrous debris lost in the well bore.



MAX O.D.

1 1/2"

1 3/4"

2 1/4"

2.700"

BACK

OTHER SIZES AVAILABLE ON REQUEST

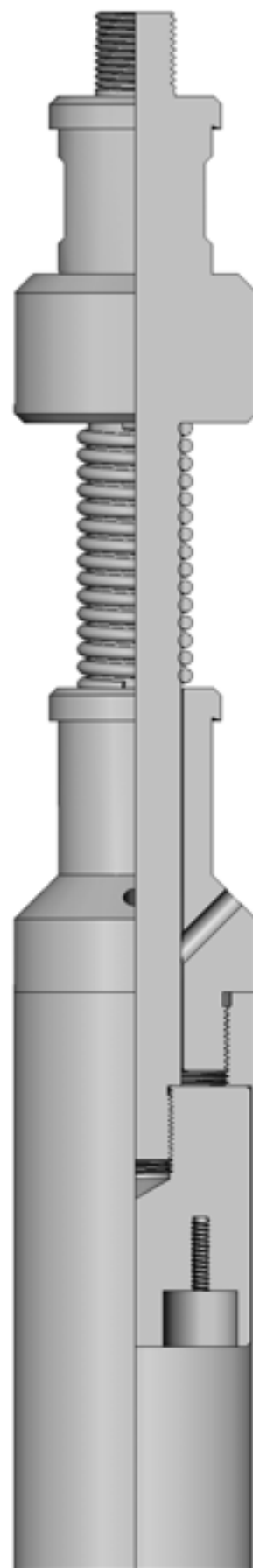
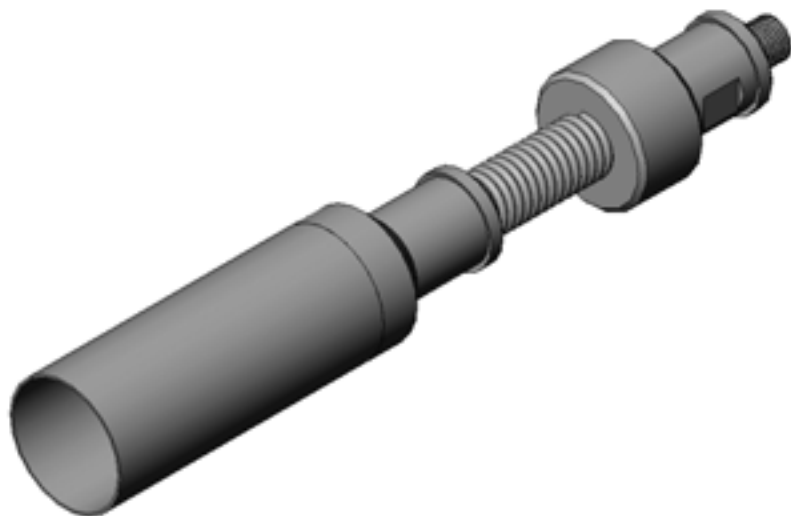
PAGE C-5

SKIRTED MAGNET



The Skirted Magnet is used to remove metal particles and debris from the tubing, which may impede normal wireline operations and prevent tools from functioning properly.

BACK



SPECIFICATIONS

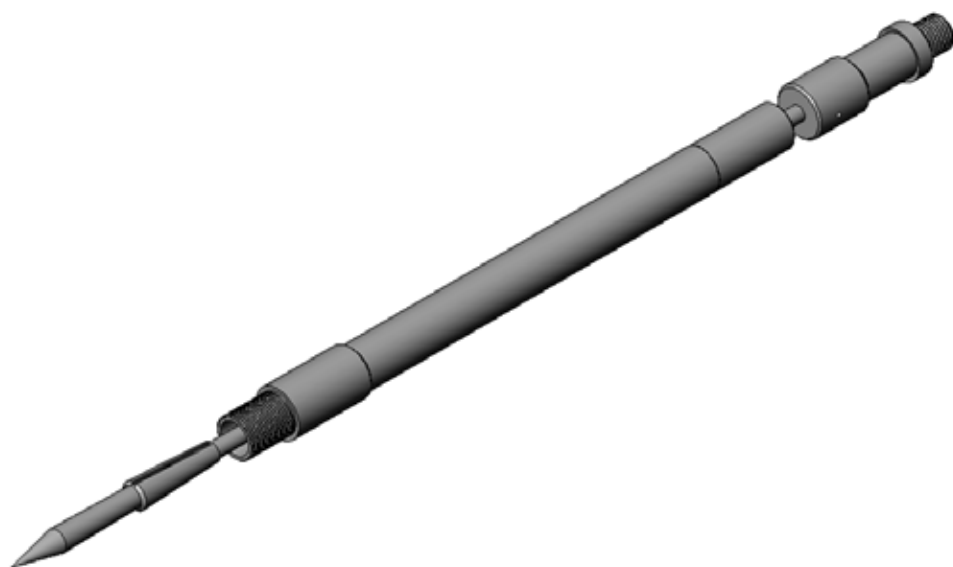
SIZE	1 3/4"	2"	2 1/4"
FISHINGNECK O.D.	1.375"	1.375"	1.375"
MAX O.D.	1.750"	2.000"	2.250"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	13.500"	13.500"	13.500"

OTHER SIZES AVAILABLE ON REQUEST

WIREFINDER RETRIEVER

*Frederick's
Machine*

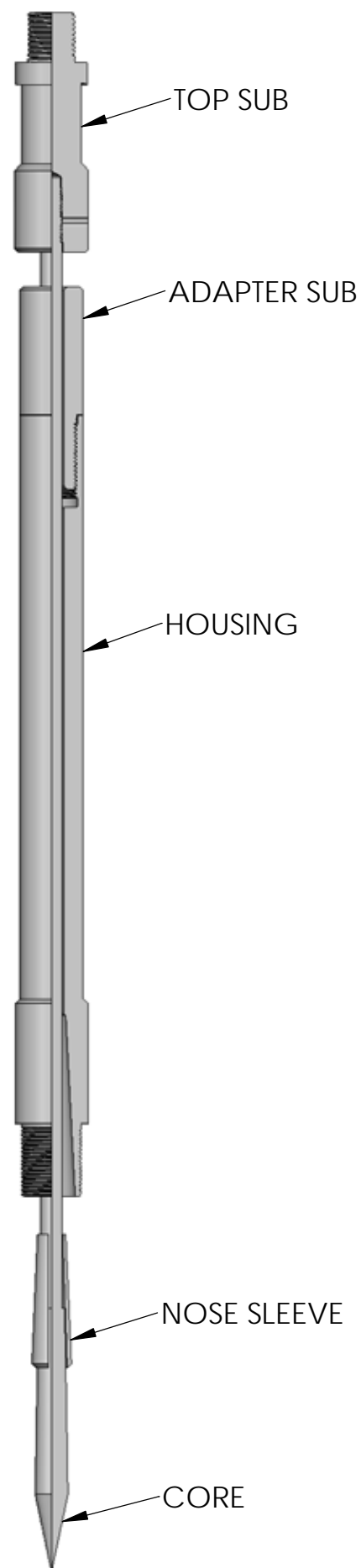
The Wireline Retriever is designed to retrieve broken or cut slickline from the tubing. It locates and balls the broken wire with the aid of the Split Skirt (located at the bottom of the tool). The wire is then trapped in between the spear point and the Split Skirt. Pulling up on the tool spring wedges the broken line within the tool and the retrieving process can begin.



SPECIFICATIONS

SIZE	2-3"
FISHINGNECK O.D.	1.375"
MAX O.D.	1.813"
PIN CONNECTION	15/16"-10
MADE UP LENGTH	29.938"

BACK



WIREFINDER SPLIT SKIRT

*Frederick's
Machine*

The Wirefinder Top Sub is used to bend or ball the uppermost part of the wire so that retrieving applications may be used.



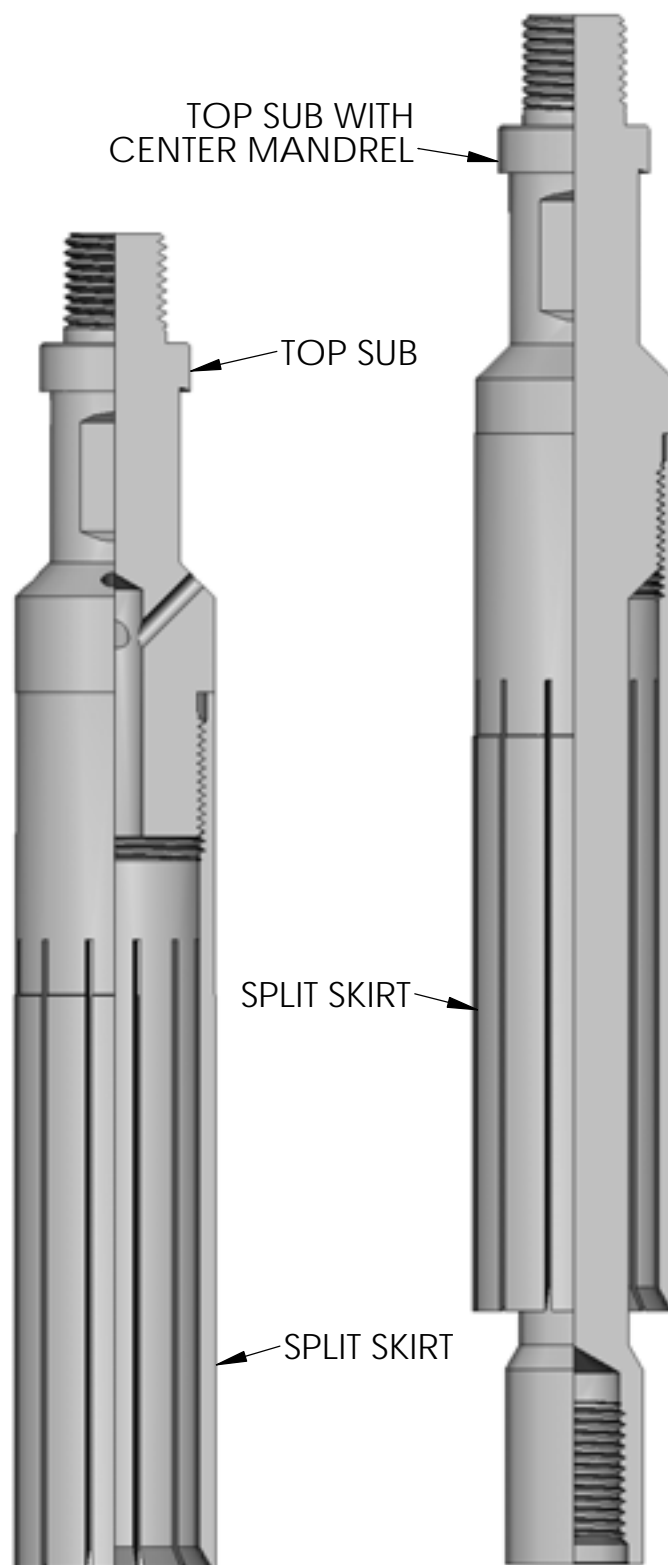
BACK

TOP SUB WITH
CENTER MANDREL

TOP SUB

SPLIT SKIRT

SPLIT SKIRT



SPECIFICATIONS WITH CENTER MANDREL

FISHINGNECK O.D.	1.375"	1.750"
MAX O.D.	1.687"	1.812"
PIN CONNECTION	15/16"-10	1 1/16"-10
BOX CONNECTION	15/16"-10	1 1/16"-10
MADE UP LENGTH	14.125"	14.125"

SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHINGNECK O.D.	1.375"	1.375"	1.375"
MAX O.D.	1.813"	2.400"	2.740"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	10.938"	11.313"	10.938"

OTHER SIZES AVAILABLE ON REQUEST

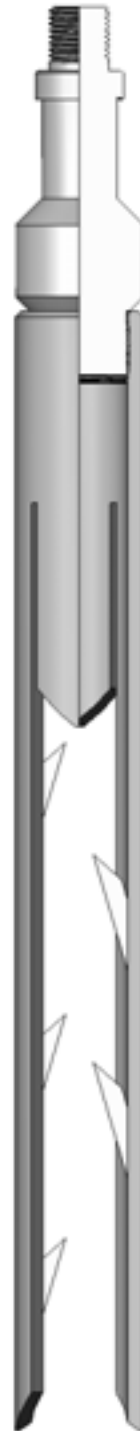
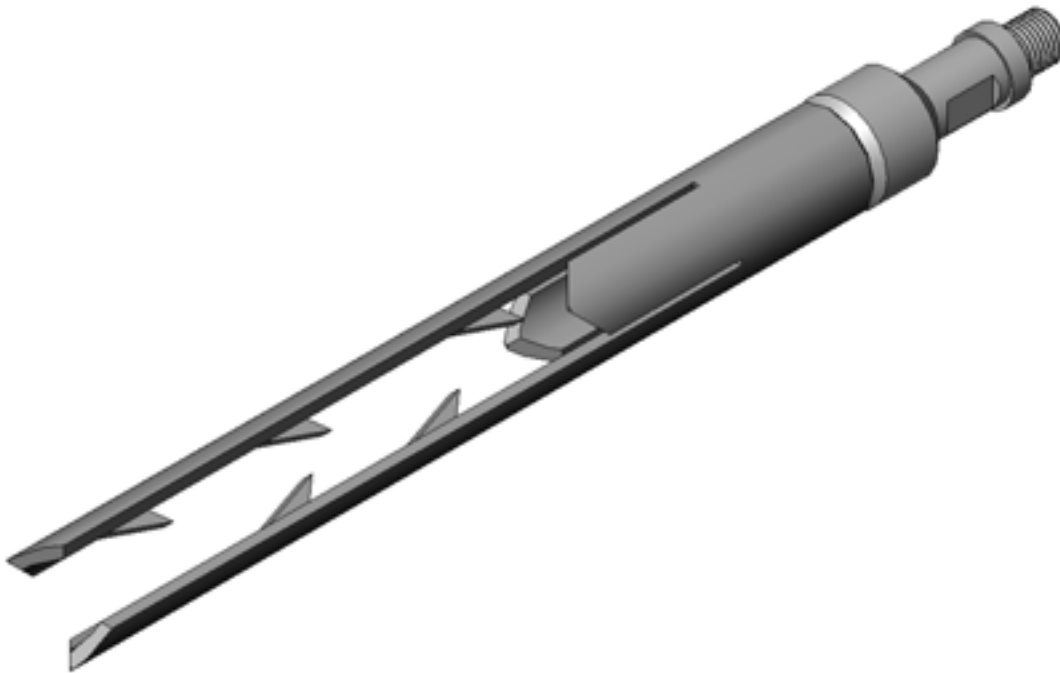
PAGE C-8

2 PRONG WIRELINE GRAB

*Frederick's
Machine*

The Two Prong Wireline Grab is used to retrieve broken wire from the tubing string. The arms include welded bards which catch the wire.

BACK



SPECIFICATIONS

SIZES	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"
FISHING NECK O.D.	1.000"	1.188"	1.375"	1.375"	1.375"	1.750"
MAX O.D.	1.230"	1.490"	1.740"	1.750"	2.250"	2.625"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	23.875"	23.938"	23.938"	23.938"	25.250"	24.500"

OTHER SIZES AVAILABLE ON REQUEST

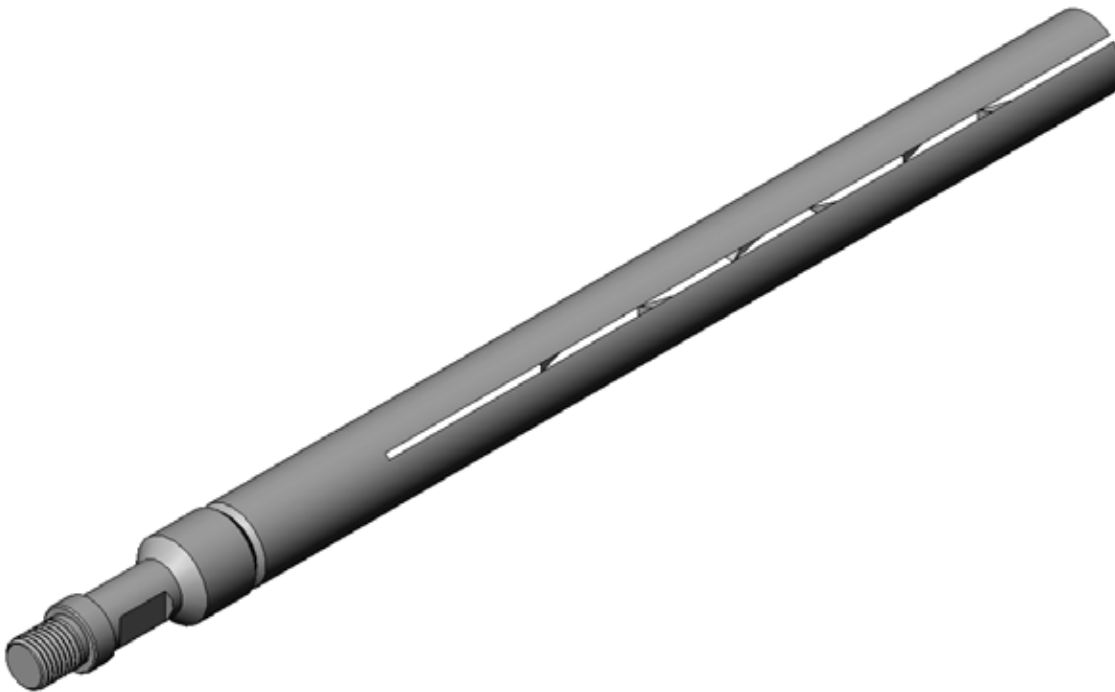
PAGE C-9

4 PRONG WIRELINE GRAB



The Four Prong Wireline Grab is used to retrieve broken wire from the tubing string. The arms include welded barbs which catch the wire.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHINGNECK O.D.	1.375"	1.375"	1.750"
MAX O.D.	1.750"	2.250"	2.625"
PIN CONNECTION	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	20.438"	20.750"	21.000"

OTHER SIZES AVAILABLE ON REQUEST

PAGE C-10



Section D

Gas Lift Equipment

Description	Size
BK-2 Latch	Assembly
RK Latch	Assembly
R Latch	Assembly
RA Latch	Assembly
DK Dummy Valve	Assembly
RD Dummy Valve	Assembly
Gas Lift Straightening Tool	2" - 3" Assembly
Junk Basker With Collar Stop	2" - 3" Assembly
Junk Basker With Solid Bottom	2" - 3" Assembly
"Ak" Kickover Tool	3 Spring
"Ak" Kickover Tool	4 Spring
"K" Kickover Tool	3 Spring
"K" Kickover Tool	4 Spring
"L" Kickover Tool	Assembly
"L2D" Kickover Tool	Assembly
"OK-1" Kickover Tool	2" - 3"
"OK-5" Kickover Tool	2" - 3"
"OM-1" Kickover Tool	2" - 3"
"R" Kickover Tool	2" - 3"

GO BACK HOME

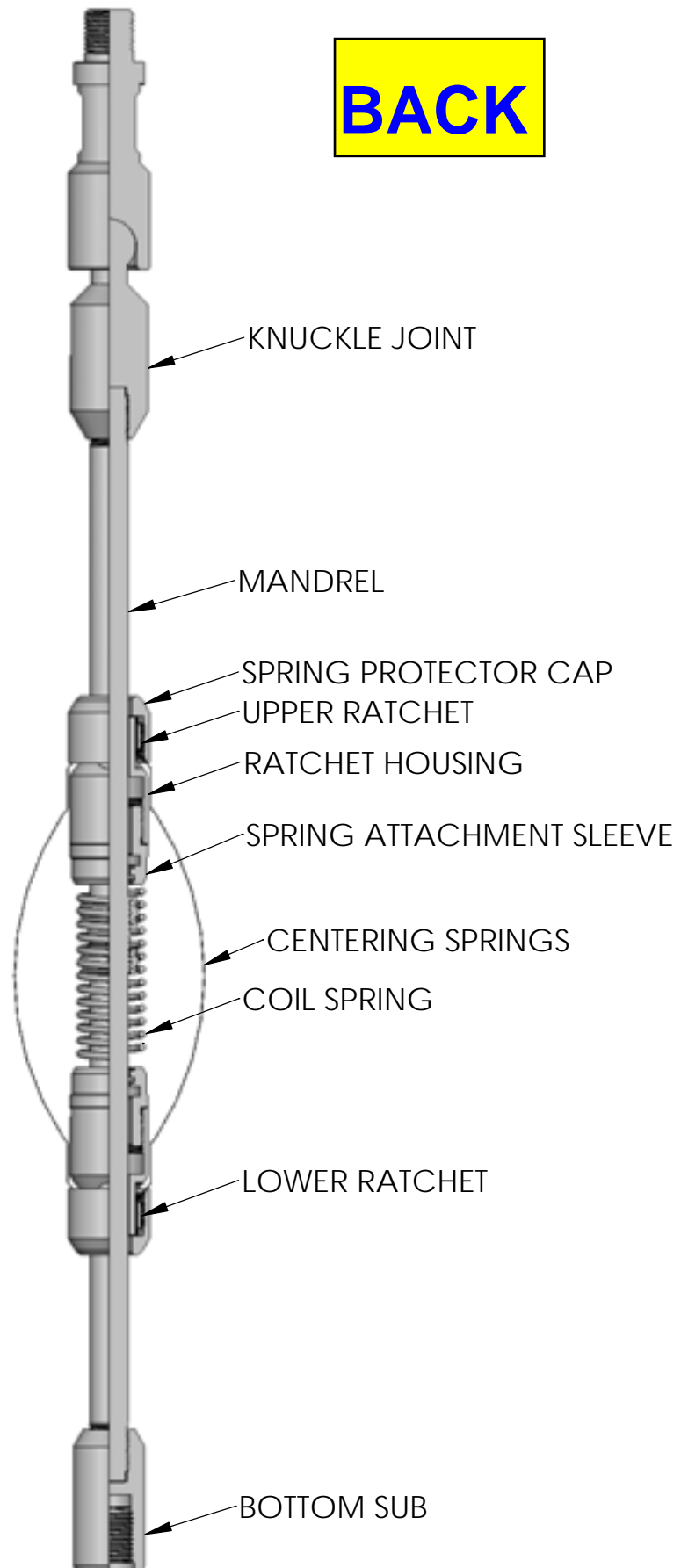
K/AK KICKOVER TOOL



The K/KA Kickover Tools are used in selectively locating 1" retrievable wireline devices in side pocket mandrels.



BACK



SPECIFICATIONS -K -ALL SIZES

FISHINGNECK O.D.	1.375"
MAX O.D.	1.563"
OVERALL LENGTH	29.718"
STEEL PINS (4)	3/16" X 1.375"
TOP PIN THREAD	15/16"-10
BOTTOM BOX THREAD	15/16"-10
VALVE	1"
MANDREL TYPE	KBM, KBMG, *MM, *MMG

*REQUIRES 4.062" SPACER

SPECIFICATIONS -AK

FISHINGNECK O.D.	1.187"
MAX O.D.	1.313"
OVERALL LENGTH	29.938"
STEEL PINS (4)	3/16" X 1.313"
TOP PIN THREAD	15/16"-10
BOTTOM BOX THREAD	15/16"-10
VALVE	1"
MANDREL TYPE	KBU, KBUW, KA

OTHER SIZES AVAILABLE ON REQUEST



Section E Downhole Equipment

Description	Size
Type A Circulating Plug	1 1/2" - 3"
Type W Circulating Plug	1 3/4" - 3"
Downhole Choke	1.875" - 2.750"
" B " Equalizing Sub	1 1/2" - 3"
" H " Equalizing Sub	1 1/2" - 3"
DD Bridge Plug	2" - 3"
Kobe Knockout Plug	2" - 3"
PS Plug	1 1/2" - 3"
PN Plug	1 1/2" - 3"
S Plug	2" - 2 1/2"
FMSPR Plug	1.710" - 2.562"
FMSPX Plug (Packing Type)	1.500" - 3.813"
FMSPX Plug (Grommet Type)	1.500" - 2.813"
FMSRR Plug	FMSR Equalizing Sub 1.710" - 2.562"
FMSXX Plug	FMSX Equalizing Sub 1.500" - 3.813"
FMSXR Plug	2" - 4"
D Plug	1 1/2" - 3"
Type A Standing Valve	1 1/2" - 3"
FMSS Lock Standing Valve	2" - 3"
FMSS Lock Standing Valve With Kobe Knockout Plug	2" - 3"
T Input Valve	2" to 3" Assembly
T Input valve	Assembly

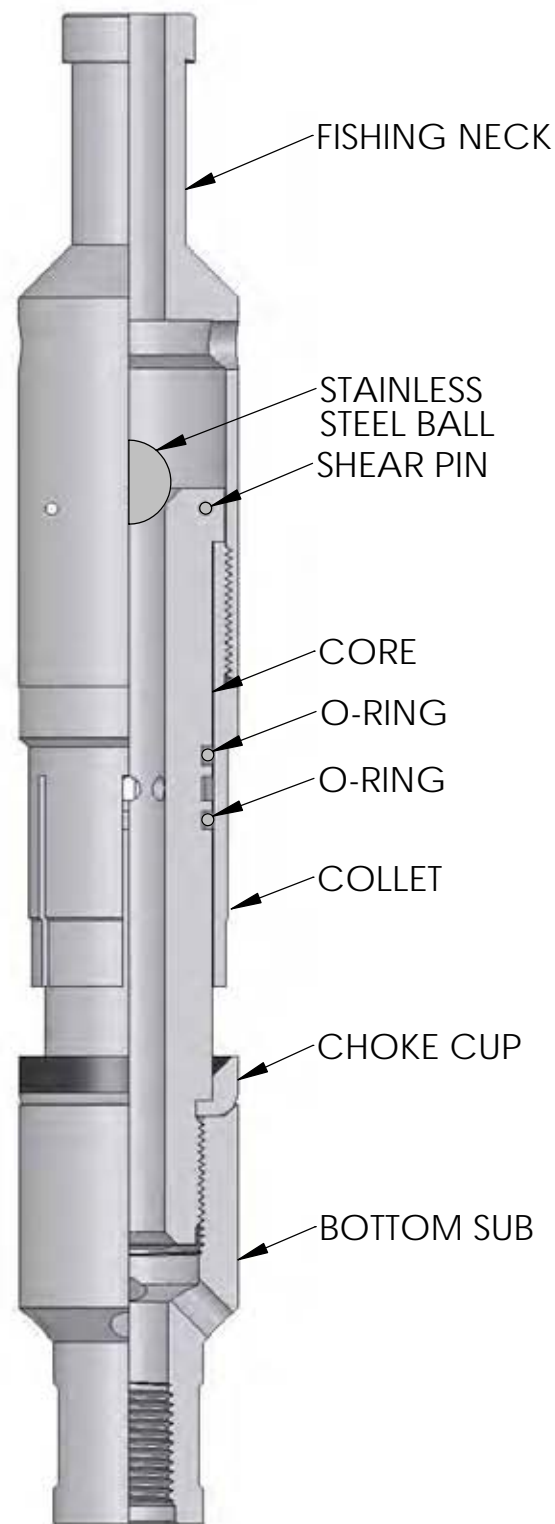
[GO BACK HOME](#)

TYPE A CIRCULATING PLUG

*Frederick's
Machine*

The Type "A" Circulating Plug is a removable check valve that can be installed below a perforation. It may also be used to test the tubing from above.

BACK



SPECIFICATIONS

SIZE	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.188"	1.375"	1.375"	2.313"
OVERALL LENGTH	12.750"	14.125"	15.625"	17.563"
SHEAR PIN	1/8" X 5/8"	1/8" X 1 3/8"	1/8" X 1 1/2"	3/16" X 1 5/8"
STAINLESS STEEL BALL	3/4"	7/8"	7/8"	1 5/8"
FLOW AREA	0.135"	0.159"	0.159"	0.280"
BOTTOM THREAD	15/16"-10	15/16"-10	15/16"-10	NONE

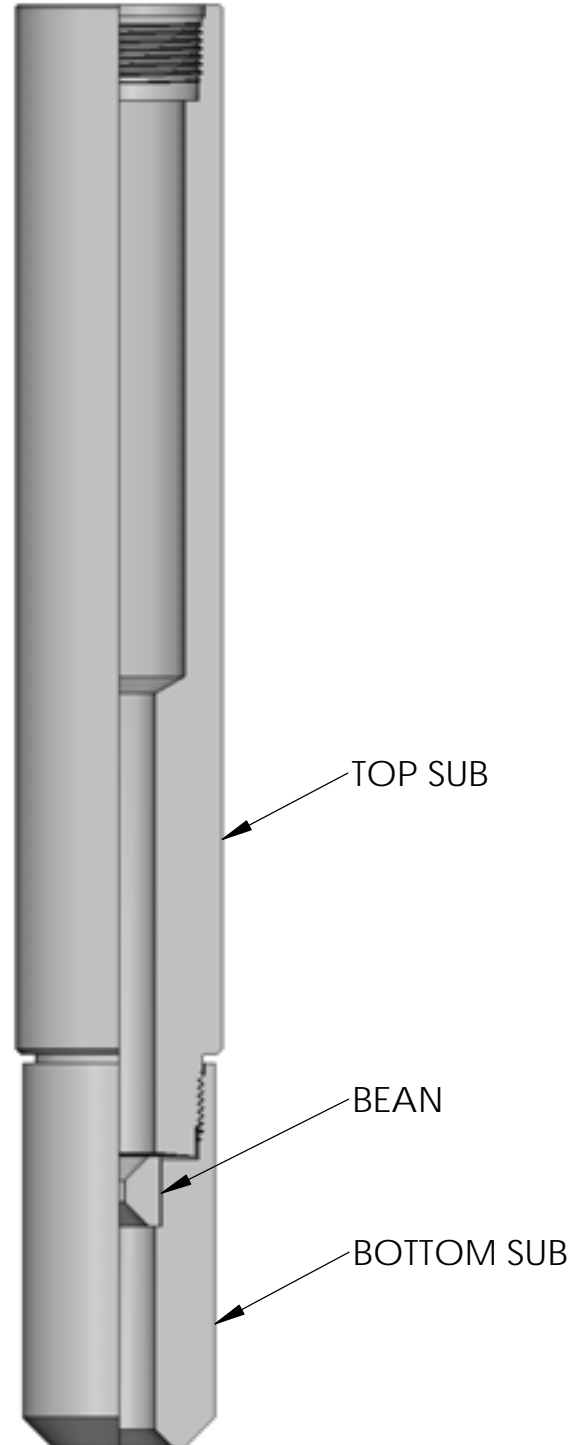
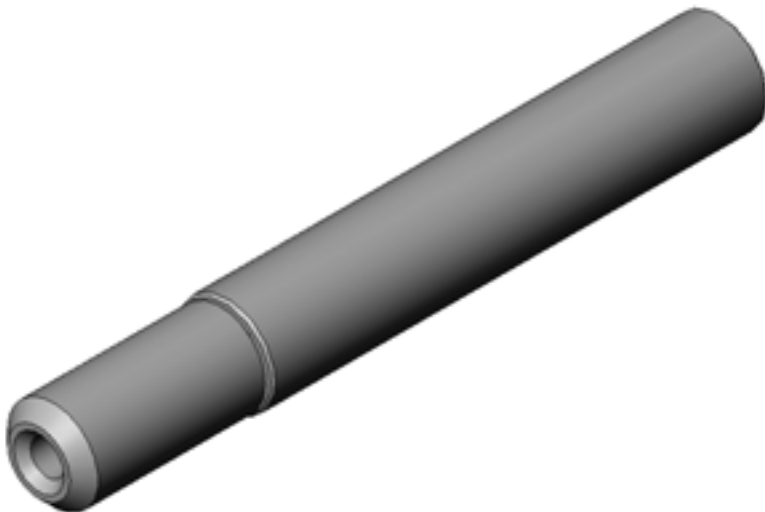
OTHER SIZES AVAILABLE ON REQUEST

PAGE E-1

DOWNHOLE CHOKE

*Frederick's
Machine*

BACK



SPECIFICATIONS

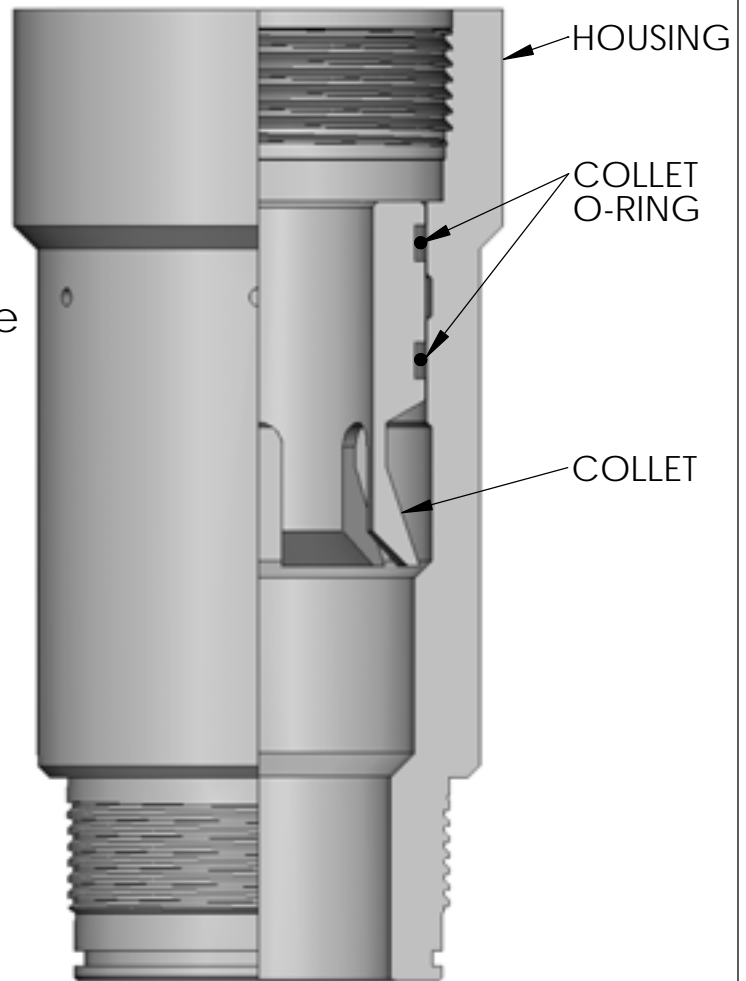
SIZES	1.875"	2.313"	2.750"
OTHER SIZES AVAILABLE ON REQUEST			

FMSX / FMSR EQUALIZING SUB



The FMSX Equalizing Subs are used as a means of equalizing pressure differentials across a flow control device. They are designed to be used with large bore mandrels such as FMSX Locking Mandrel. The maximum O.D. ring on the FMSX Equalizing Sub serves as a no-go ring for type FMSXN Locking Mandrels. FMSR Equalizing Sub are available for use with FMSR Locking Mandrels.

BACK



FMSX - SPECIFICATIONS

SIZE	1.875"	2.313"	2.750"	2.813"
MAX O.D.	1.870"	2.305"	2.745"	2.745"
MIN. I.D.	.875"	1.218"	1.625"	1.625"

**GO TO
FMSXX/FMSRR PLUGS**

FMSR - SPECIFICATIONS

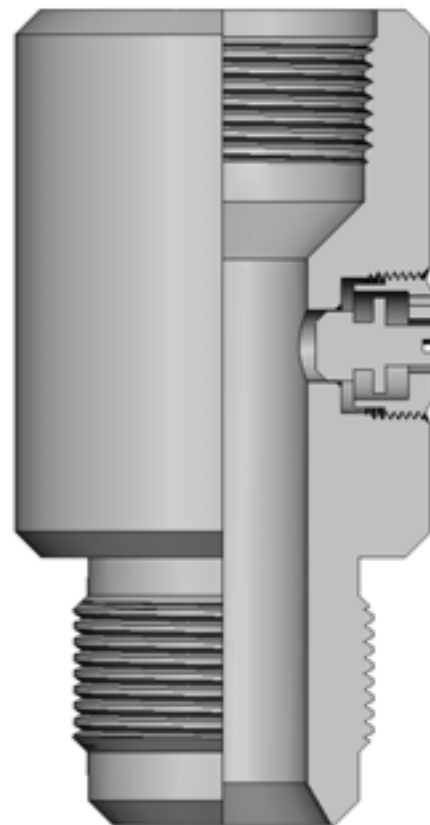
SIZE	1.710"	1.781"	1.875"	2.125"	2.188"	2.313"	2.562"
MAX O.D.	1.706"	1.776"	1.870"	2.120"	2.183"	2.308"	2.557"
MIN. I.D.	.625"	.780"	.780"	.780"	1.000"	1.000"	1.190"

OTHER SIZES AVAILABLE ON REQUEST

B / H EQUALIZING SUB



The Type "B" and "H" Equalizing Subs allow an equalization of a pressure differential across a locking mandrel so that the locking mandrel can be safely and properly retrieved. It also provides a means to allow fluid to bypass around a locking mandrel as it is lowered into a landing nipple. A running prong and pulling prong are needed to equalize these subs. The prong lifts a spring loaded equalizing dart off "seat" which will allow either fluid bypass or pressure equalizing. The Type "B" and "H" subs are identical except the internal diameters of the "H" subs are larger than the "B" subs.



BACK

SPECIFICATIONS - "B"

SIZE	2"	2 1/2"	3"
O.D.	1.750"	2.150"	2.625"
I.D.	.531"	.719"	1.156"
THREAD SIZE	1 3/16"-14	1 9/16"-12	2"-12
FLOW AREA (SQ. IN.)	.003"	.003"	.003"

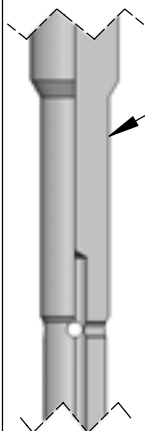
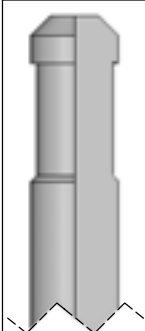
SPECIFICATIONS - "H"

SIZE	1 1/2"	2"	2 1/2"	3"
O.D.	1.418"	1.750"	2.150"	2.710"
I.D.	.563"	.688"	.875"	1.50"
THREAD SIZE	7/8"-14	1 3/16"-14	1 9/16"-12	2"-12
FLOW AREA (SQ. IN.)	.003"	.003"	.003"	.003"

OTHER SIZES AVAILABLE ON REQUEST

FMSPR / FMSPX PLUG (PACKING TYPE)

*Frederick's
Machine*



PRONG

BACK



HOUSING
BACK UP RING
PACKING
DOUBLE MALE ADAPTER
PACKING
SPACER RING
PACKING
DOUBLE MALE ADAPTER
PACKING
BACK UP RING
NOSE

SPECIFICATIONS - FMSPX

SIZE	1.500"	1.625"	1.875"
FISHINGNECK O.D.	1.000"	1.000"	1.375"
NO GO O.D.	1.490"	1.615"	1.865"
THREAD CONNECTION	1 1/8"-16	1 1/8"-16	1 3/8"-14
PRONG RUNNING/ PULLING TOOL	1 3/8" JDC OR 1 1/4" SB	1 3/8" JDC OR 1 1/4" SB	2" JDC OR 2" SB
EQUALIZING FLOW AREA (SQ. IN.)	.049"	.049"	.070"
SIZE	2.313"	2.750"	2.813"
FISHINGNECK O.D.	1.375"	1.375"	1.375"
NO GO O.D.	2.300"	2.740"	2.800"
THREAD CONNECTION	1 3/4"-12	2 1/4"-12SLB	2 1/4"-12SLB
PRONG RUNNING/ PULLING TOOL	2" JDC OR 2" SB	2" JDC OR 2" SB	2" JDC OR 2" SB
EQUALIZING FLOW AREA (SQ. IN.)	.175"	.175"	.175"

The Type FMSPX Plug is a positive plug used in conjunction with the Type FMSX Landing Nipple. This plug might be used to test tubing or to plug tubing to perform repairs or replacement of surface equipment. Equalization is achieved by pulling the equalizing prong from the plug assembly.



The Type FMSPR Plug is a positive plug used in conjunction with the Type FMSPR Landing Nipple. This plug might be used to test tubing or to plug tubing to perform repairs or replacement of surface equipment. Equalization is achieved by pulling the equalizing prong from the plug assembly.

SPECIFICATIONS - FMSPR

SIZE	1.710"	1.781"	1.875"	2.125"	2.188"	2.313"	2.562"
FISHINGNECK O.D.	1.187"	1.187"	1.187"	1.187"	1.375"	1.375"	1.375"
NO GO O.D.	1.700"	1.770"	1.865"	2.115"	2.175"	2.300"	2.550"
THREAD CONNECTION	1 1/8"-16	1 3/8"-14	1 3/8"-14	1 3/8"-14	1 3/4"-12	1 3/4"-12	2"-12SLB
PRONG RUNNING/ PULLING TOOL	1 1/2" JDC OR 1 1/2" SB	1 1/2" JDC OR 1 1/2" SB	1 1/2" JDC OR 1 1/2" SB	1 1/2" JDC OR 1 1/2" SB	2" JDC OR 2" SB	2" JDC OR 2" SB	2" JDC OR 2" SB
EQUALIZING FLOW AREA (SQ. IN.)	.049"	.049"	.049"	.049"	.049"	.049"	.049"

OTHER SIZES AVAILABLE ON REQUEST

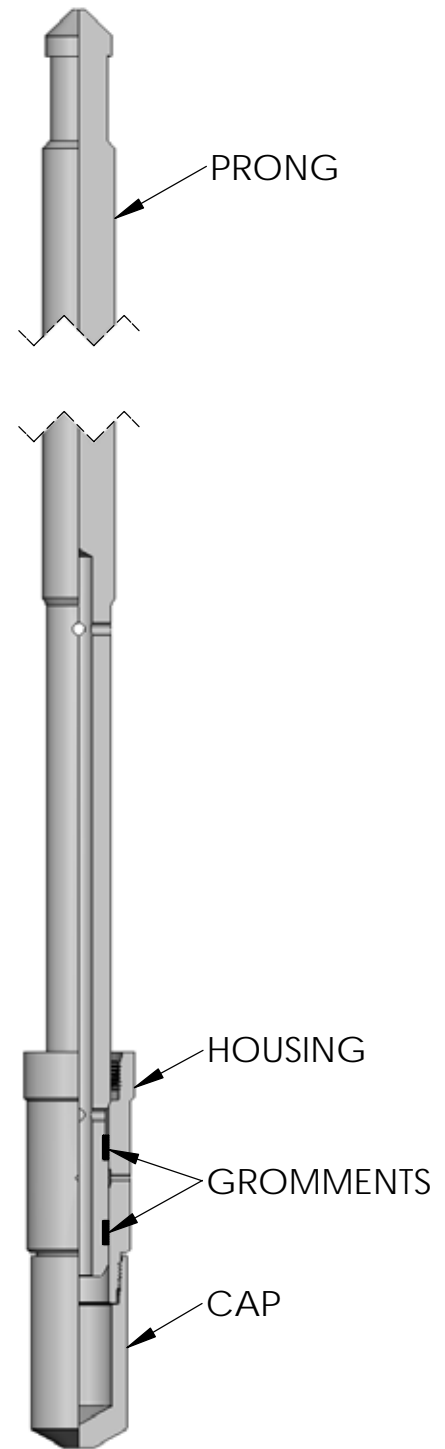
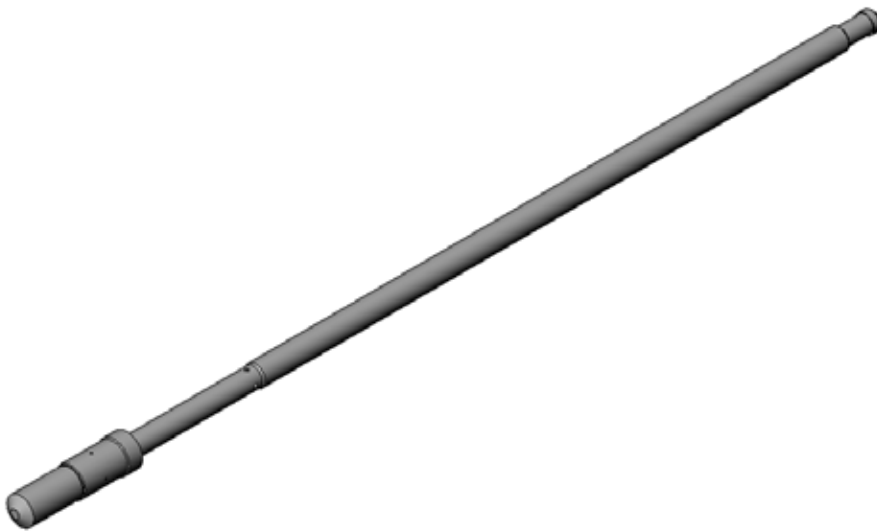
PAGE E-5

FMSPX PLUG (GROMMET TYPE)



The Type FMSPX Plug is a positive plug used in conjunction with the Type FMSX Locking Mandrel to hold pressure from above and below in a Type FMSX Landing Nipple. This plug might be used to test tubing or to plug tubing to perform repairs or replacement of surface equipment. Equalization is achieved by pulling the equalizing prong from the plug assembly.

BACK



SPECIFICATIONS

SIZE	1.500"	1.625"	1.875"	2.313"	2.750"	2.813"
FISHINGNECK O.D.	1.00"	1.00"	1.375"	1.375"	1.375"	1.375"
NO GO O.D.	1.490"	1.615"	1.865"	2.300"	2.740"	2.795"
THREAD CONNECTION	1 1/8"-16	1 1/8"-16	1 3/8"-14	1 3/4"-12	2 1/4"-12SLB	2 1/4"-12SLB
PRONG RUNNING/ PULLING TOOL	1 3/8"JDC OR 1 1/4" SB	1 3/8"JDC OR 1 1/4" SB	2"JDC OR 2" SB	2"JDC OR 2" SB	2"JDC OR 2" SB	2"JDC OR 2" SB
EQUALIZING FLOW AREA (SQ. IN.)	.049"	.049"	.070"	.175"	.175"	.175"

OTHER SIZES AVAILABLE ON REQUEST

FMSRR / FMSXX PLUGS

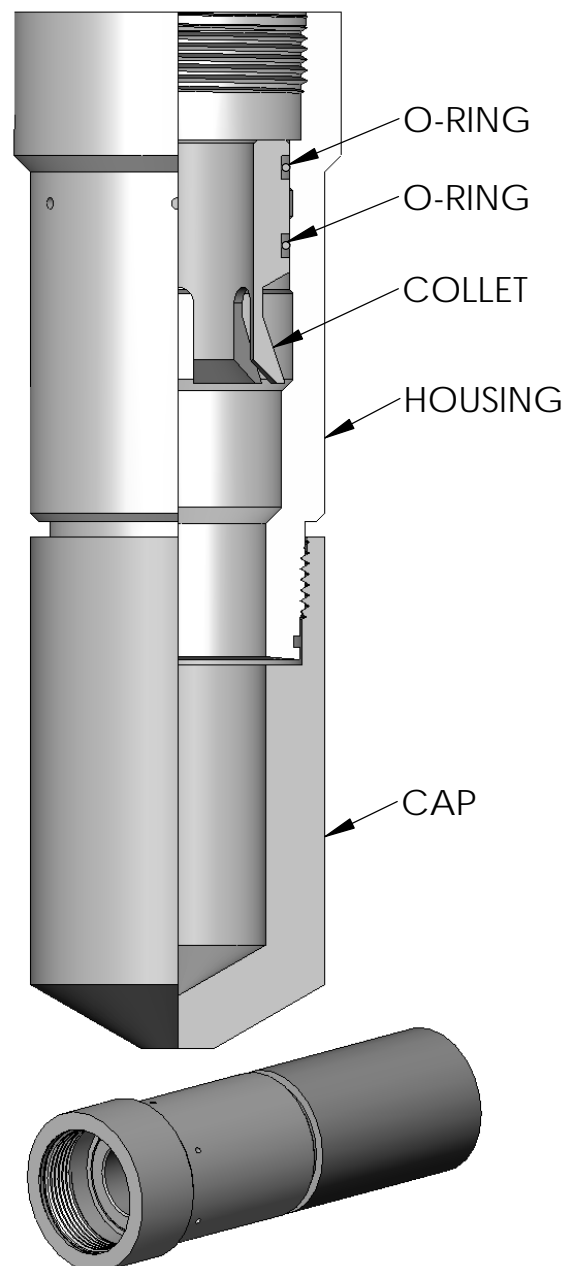
*Frederick's
Machine*

BACK

The Type "FMSRR" Plug is a positive plug used in conjunction with the Type "FMSR" Locking Mandrel to hold pressure from above and below in a Type "FMSR" Landing Nipple. This plug might be used to test tubing or to plug tubing to perform repairs or replacement of surface equipment. Equalization is achieved by shifting an equalizing valve into the open position before the mandrel is unlocked.

The Type "FMSXX" Plug is a positive plug used in conjunction with the Type "FMSX" Locking Mandrel to hold pressure from above and below in a Type "FMSX" Landing Nipple. This plug might be used to test tubing or to plug tubing to perform repairs or replacement of surface equipment. Equalization is achieved by shifting an equalizing valve into the open position before the mandrel is unlocked.

GO TO FMSX/FMSR EQUALIZING



SPECIFICATIONS - FMSRR		
SIZE	1.710"	1.781"
NO GO O.D.	1.700"	1.770"
MINIMUM I.D.	.625"	.781"
THREAD CONNECTION	1 1/8"-16	1 3/8"-14
EQUALIZING FLOW AREA (SQ. IN.)	.049"	.028"

SIZE	1.875"	2.000"	2.125"	2.188"	2.313"	2.562"
NO GO O.D.	1.865"	1.990"	2.115"	2.175"	2.300"	2.550"
MINIMUM I.D.	.781"	.781"	.781"	1.005"	1.005"	1.190"
THREAD CONNECTION	1 3/8"-14	1 3/8"-14	1 3/8"-14	1 3/4"-12	1 3/4"-12	2"-12SLB
EQUALIZING FLOW AREA (SQ. IN.)	.028"	.028"	.028"	.049"	.049"	.041"

SPECIFICATIONS - FMSXX						
SIZE	1.500"	1.625"	1.875"	2.313"	2.750"	2.813"
NO GO O.D.	1.490"	1.615"	1.865"	2.300"	2.740"	2.800"
MINIMUM I.D.	.625"	.625"	.875"	1.223"	1.630"	1.630"
THREAD CONNECTION	1 1/8"-16	1 1/8"-16	1 3/8"-14	1 3/4"-12	2 1/4"-12SLB	2 3/4"-12SLB
EQUALIZING FLOW AREA (SQ. IN.)	.014"	.049"	.028"	.014"	.055"	.055"

OTHER SIZES AVAILABLE ON REQUEST

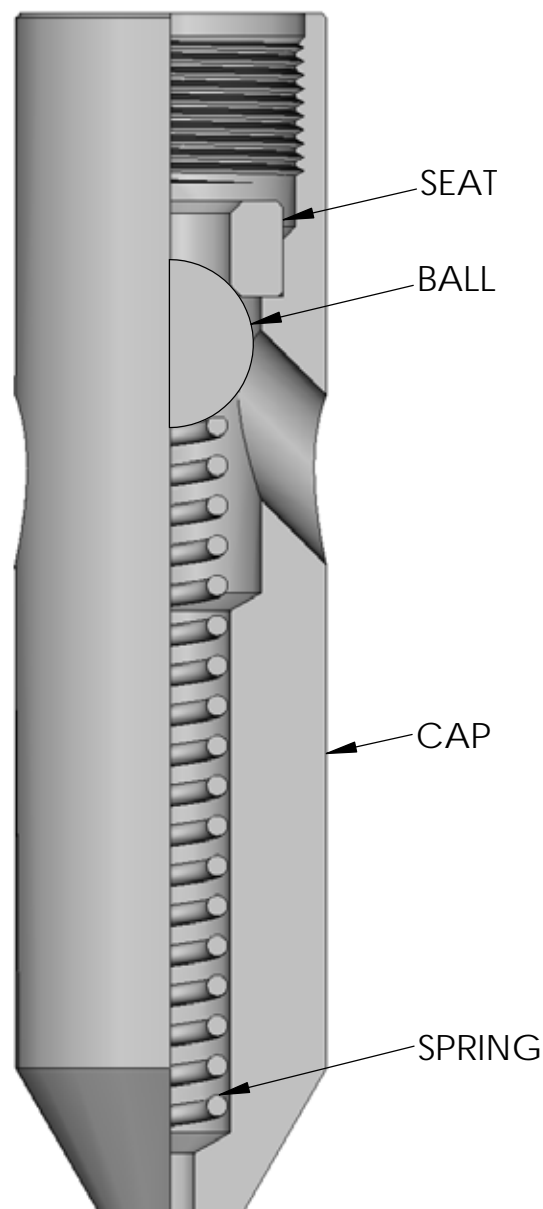
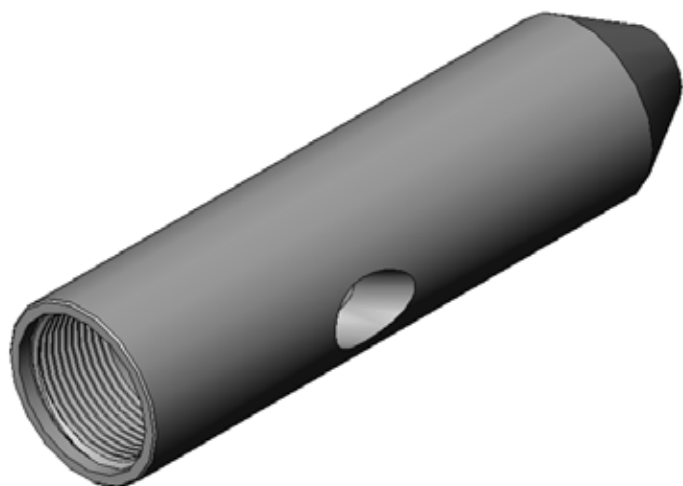
PAGE E-7

FMSR PUMP THROUGH PLUG



The Type FMSR Pump Through Plug is used in conjunction with the Type FMS Locking Mandrel and the Type FMSX Equalizing Sub Assembly to hold pressure from below in a Type FMSX Landing Nipple. The plug has pump through capabilities that would allow an operator to pump fluids into well bore.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
MAX O.D.	1.750"	2.000"	2.570"
THREAD CONNECTION	1 3/8"-14	1 3/4"-12	2 1/4"-12 SLB
FLOW AREA (SEAT HOLE) (SQ. IN.)	.371"	.690"	1.107"

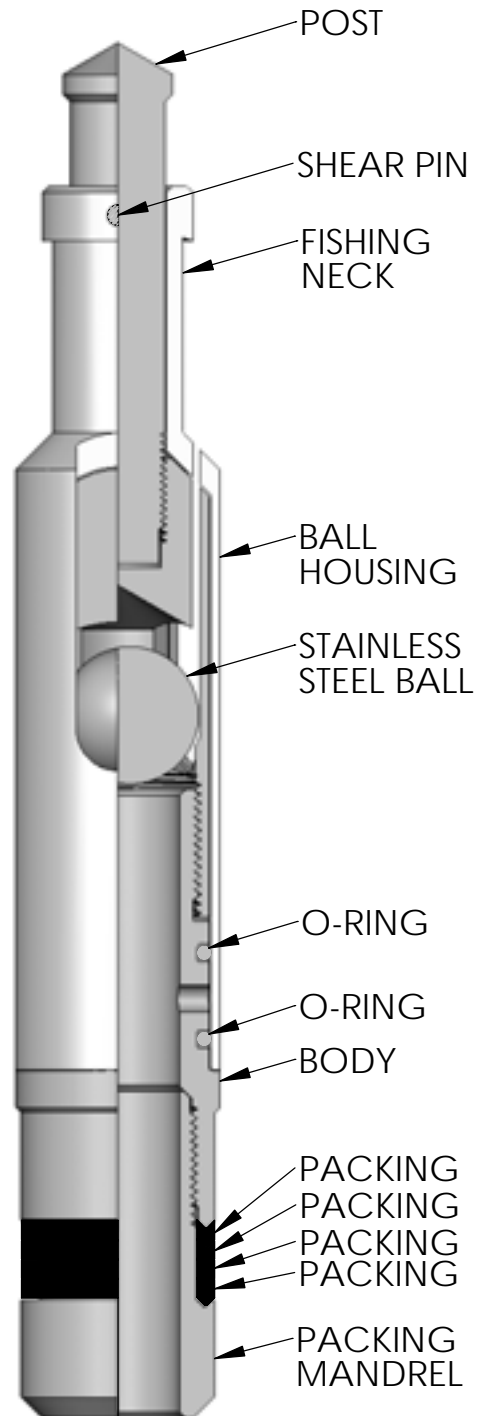
OTHER SIZES AVAILABLE ON REQUEST

TYPE A STANDING VALVE

*Frederick's
Machine*

The "A" Series Equalizing Standing Valves are designed to hold pressure from above for use in intermittent gas lift wells to contain fluid in the tubing during an injection cycle.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	2"	2 1/2"
FISHINGNECK O.D.	0.875"	0.875"	1.375"	1.375"
OVERALL LENGTH	10.500"	10.750"	12.625"	12.875"
SHEAR PIN	3/16" X 7/8"	3/16" X 7/8"	3/16" X 1 3/8"	3/16" X 1 3/8"
S.S. BALL	3/4"	3/4"	1 1/4"	1 1/2"
NO GO O.D.	1.313"	1.480"	1.860"	2.295"
FLOW AREA	0.135"	0.071"	0.233"	0.282"
RUNNING TOOL	1 1/4" JDC	1 1/4" JDC	2" JDS	2" JDS
PULLING TOOL	1 1/4" JDC	1 1/4" JDC	2" JDS	2" JDS

OTHER SIZES AVAILABLE ON REQUEST

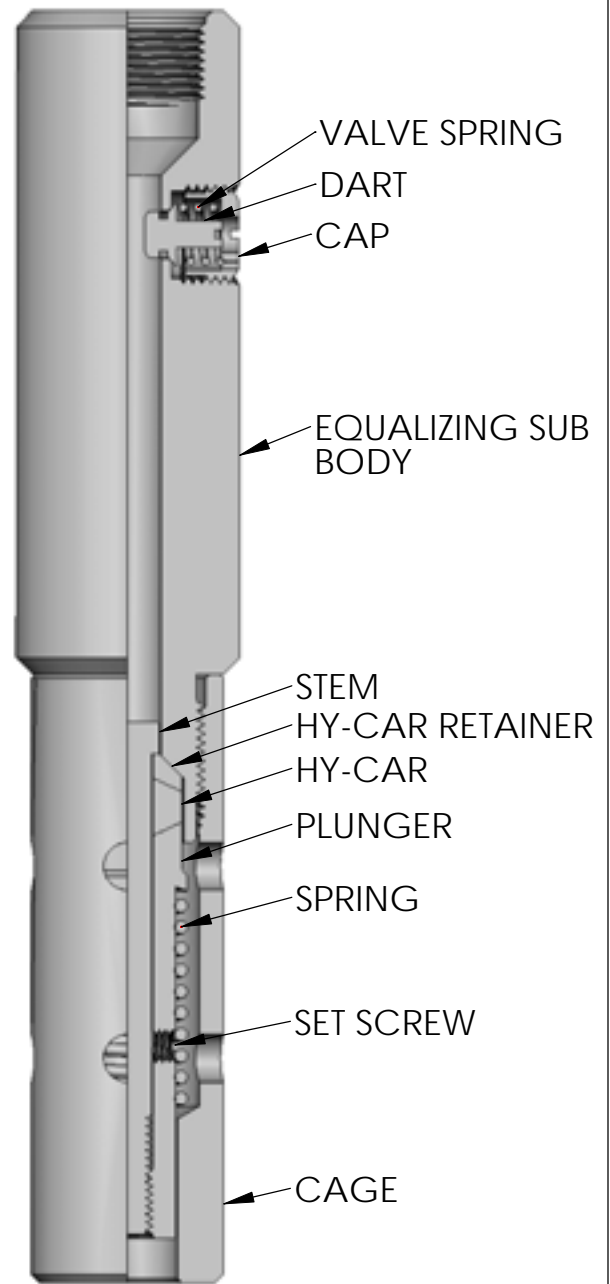
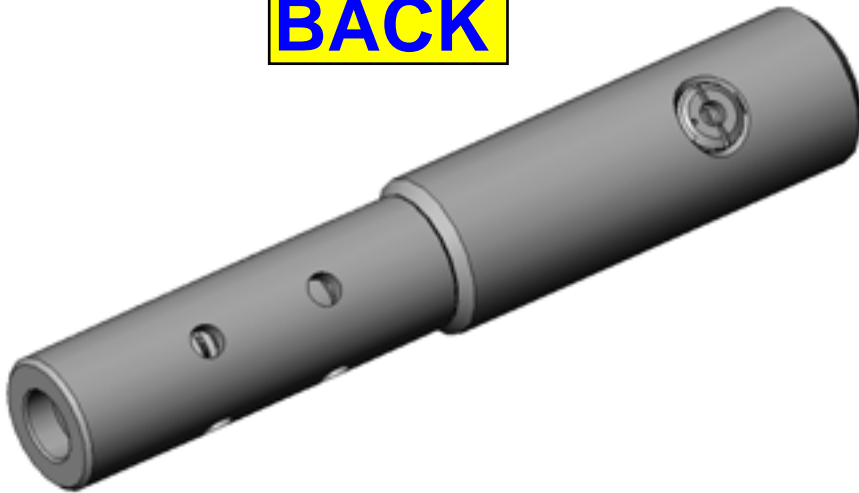
PAGE E-9

"D" PLUG (2" - 3")



The Type "D" Equalizing Plug is a plug that is designed to hold pressure from below. It can be used in conjunction with many locking devices to bleed off a well in order to perform repairs or replacement of surface equipment. It also has pump through capabilities that would allow an operator to kill a well. A pulling prong is needed to equalize these subs. The prong lifts a spring loaded equalizing dart off "seat" which allows either fluid bypass or pressure equalizing.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
MAX O.D.	1.750"	2.125"	2.625"
I.D. BORE	.531	.719	1.156"
THREAD CONNECTION	1 3/16"-14	1 9/16"-12	2"-12
FLOW AREA PUMP DOWN (SQ.IN.)	.221	.406"	1.049"
FLOW AREA EQUALIZING BUTTON (SQ.IN.)	.003"	.003"	.003"
SET SCREW	1/4"-12 X 1/4"	1/4"-12 X 1/4"	1/4"-12 X 1/4"

OTHER SIZES AVAILABLE ON REQUEST



Section F

Probes & Prongs

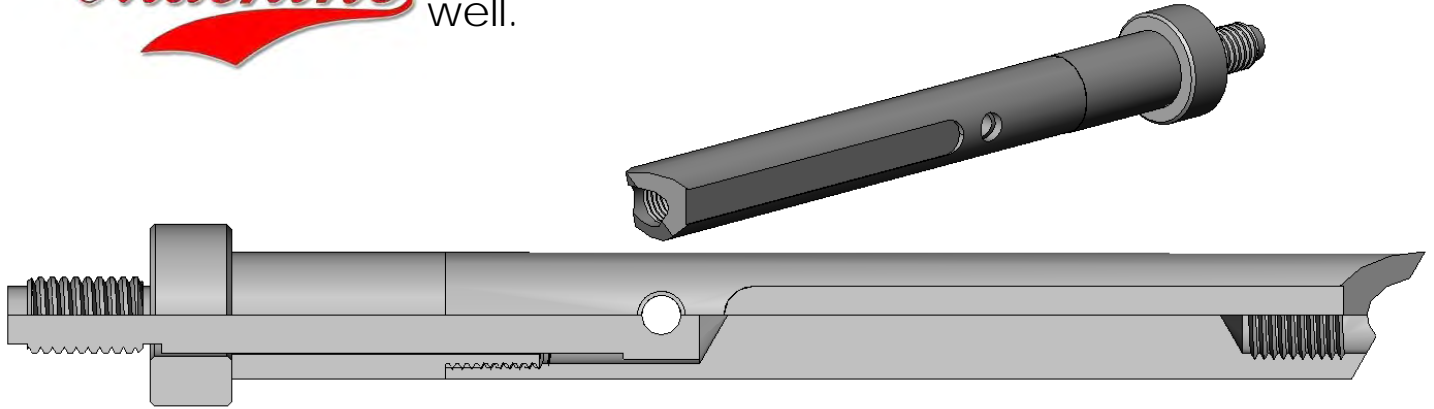
Description	Size
A Probe	1 3/4" - 3"
AC Probe	2" - 3"
B Probe	1 1/2" - 3"
N-1 Probe	2" - 2 1/2"
Prongs	P-100 Thru. P-572
DD Bridge Plug Pulling Prong	2" - 3"
DK Ball Valve Pulling Prong	2" & 2 1/2"
DK Ball Valve Running Prong	2" - 3"
DER - XL Pulling Prong	2" - 3"
DX Pulling Prong	2" - 3"
DX Running Prong	2" - 3"
HX Pulling Prong	2" - 3"
HX Running Prong	2" - 3"
FMSSR Pulling Prong	1.710" - 3.688"
FMSSR Running Prong	1.710" - 3.688"
FMSXX Pulling Prong	1.500" - 3.813
FMSXX Running Prong	1.500" - 3.813
Prong Crossover	3/8" - 3/4"
A Shanks	1 3/4" to 3" Assy
N - 1 Shanks	2" & 2 1/2" Assy

[GO BACK HOME](#)

A PROBE



The A Probe is a wireline manipulated device that is used to close the dogs (or lock) on a Baker Style Locking Mandrel in order to remove it from the well.



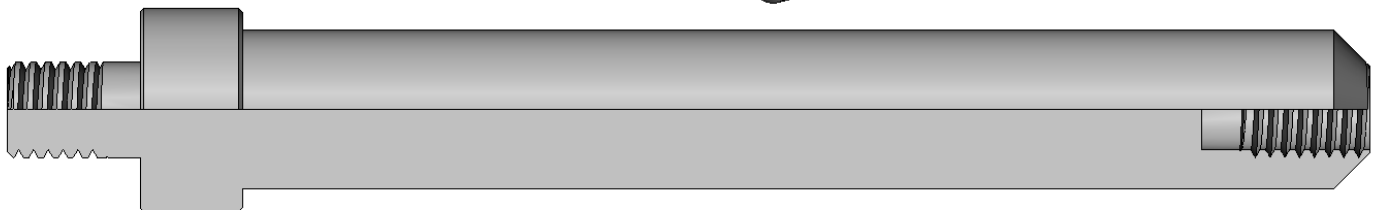
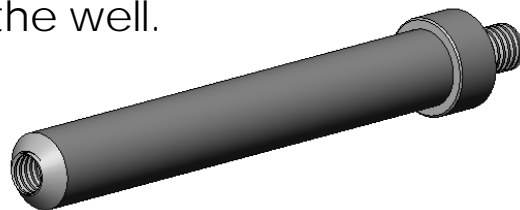
SPECIFICATIONS

SIZE	1 1/2"	2"	2 1/2"	3"
PIN CONNECTION	3/8"-16	1/2"-13	1/2"-13	5/8"-11
BOX CONNECTION	7/16"-14	1/2"-13	1/2"-13	5/8"-11
O.D.	0.724"	0.832"	1.137"	1.387"
OVERALL LENGTH	7.469"	9.063"	9.063"	10.656"
NECK	0.938"	1.188"	1.500"	2.063"

B PROBE



The B Probe is a wireline manipulated device that is used to close the dogs (or locks) on a Baker top or bottom No Go Style lock mandrel in order to remove it from the well.



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	2"	2 1/2"	3"
PIN CONNECTION	3/8"-16	1/2"-13	1/2"-13	1/2"-13	5/8"-11
BOX CONNECTION	1/4"-20	7/16"-14	1/2"-13	1/2"-13	5/8"-11
O.D.	.4956"	0.698"	0.832"	1.137"	1.387"
OVERALL LENGTH	6.281"	6.281"	7.094"	7.219"	7.750"
NECK	.6888"	0.938"	1.063"	1.500"	2.000"

DXX PRONG



FMS running and equalizing prongs are commonly screwed into running and pulling tools to perform functions necessary in manipulating subsurface devices.

BACK



DXX PULLING PRONG



DXX RUNNING PRONG

P- PRONG



SPECIFICATIONS

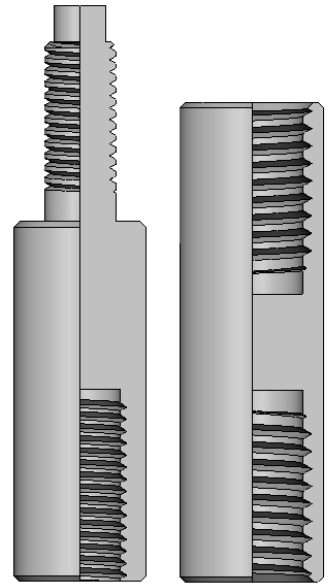
	THREAD	O.D.	OVERALL LENGTH
P-100	1/2"-13	0.500"	21.375"
P-104	1/2"-13	0.688"	21.625"
P-141	5/8"-11	1.125"	23.375"
P-145	1/2"-13	0.844"	22.500"
P-176	1/2"-13	0.500"	25.188"
P-242	1/2"-13	0.688"	22.500"
P-420	3/8"-16	0.531"	18.000"
P-478	3/8"-16	0.531"	17.750"
P-479	1/2"-13	1.656"	21.375"
P-480	1/2"-13	0.844"	21.750"
P-481	5/8"-11	1.344"	22.375"
P-572	5/8"-11	1.469"	23.000"

OTHER SIZES AVAILABLE ON REQUEST

PRONG CROSSOVER



FMS running and equalizing prongs are commonly screwed into running and pulling tools to perform functions necessary in manipulating subsurface devices.



SPECIFICATIONS

PIN CONNECTION	3/8"-16	1/2"-13	5/8"-11	3/4"-10	*	*	*
BOX CONNECTION	1/2"-13	5/8"-11	1/2"-13	5/8"-11	1/2"-13 X 1/2"-13	5/8"-11 X 5/8"-11	3/4"-10 X 3/4"-10
O.D.	.687"	.813"	.625"	.750"	.687"	.750"	.937"
OVERALL LENGTH	3.000"	3.250"	3.500"	3.250"	2.500"	2.500"	2.500"

DD BRIDGE PLUG PULLING PRONG



BACK

SPECIFICATIONS

SIZE	2"	2 1/2"
THREAD CONNECTION	1/2"-13	5/8"-11
O.D.	0.609	0.618"
OVERALL LENGTH	8.844"	8.813"

OTHER SIZES AVAILABLE ON REQUEST

DX / HX PRONG



FMS running and equalizing prongs are commonly screwed into running and pulling tools to perform functions necessary in manipulating subsurface devices.

BACK



DX PULLING PRONG



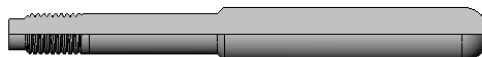
DX RUNNING PRONG

SPECIFICATIONS

SIZE	2"		2 1/2"		3"	
	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING
THREAD CONNECTION	1/2"-13	1/2"-13	5/8"-11	5/8"-11	5/8"-11	3/4"-10
O.D.	0.500"	0.500"	0.688"	0.688"	1.125"	1.125"
OVERALL LENGTH	16.500"	6.500"	16.500"	6.500"	16.500"	6.500"



HX PULLING PRONG



HX RUNNING PRONG

SPECIFICATIONS

SIZE	2"		2 1/2"		3"	
	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING
THREAD CONNECTION	1/2"-13	1/2"-13	5/8"-11	5/8"-11	5/8"-11	5/8"-11
O.D.	0.650"	0.650"	0.844"	0.844"	1.480"	1.480"
OVERALL LENGTH	16.500"	6.500"	16.500"	6.500"	17.250"	7.500"

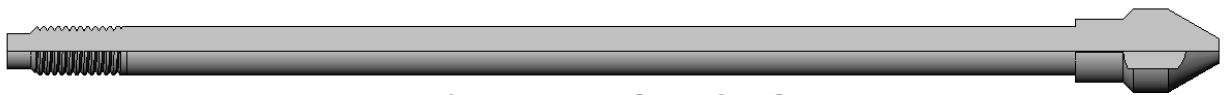
OTHER SIZES AVAILABLE ON REQUEST

FMSRR / FMSXX PRONG

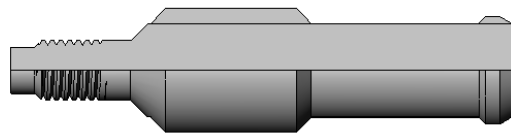


FMS running and equalizing prongs are commonly screwed into running and pulling tools to perform functions necessary in manipulating subsurface devices.

BACK



FMSRR PULLING PRONG



FMSRR RUNNING PRONG

SPECIFICATIONS

SIZE	1.710"		1.781"/2.125"		2.188"/2.313"		2.562"	
	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING
THREAD LENGTH	1/2"-13	3/8"-16	1/2"-13	1/2"-13	5/8"-11	5/8"-11	5/8"-11	5/8"-11
O.D.	0.715"	0.712"	0.870"	0.865"	1.093"	1.109"	1.300"	1.340"
OVERALL LENGTH	12.438"	4.844"	12.625"	5.225"	13.938"	5.750"	12.813"	5.281"



FMSXX PULLING PRONG



FMSXX RUNNING PRONG

SPECIFICATIONS

SIZE	1.500"		1.625"		1.875"		2.313"		2.750"/2.813"	
	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING	PULLING	RUNNING
THREAD LENGTH	1/2"-13	3/8"-16	1/2"-13	3/8"-16	1/2"-13	1/2"-13	5/8"-11	5/8"-11	5/8"-11	3/4"-10
O.D.	0.715"	0.712"	0.715"	0.712"	0.969"	0.962"	1.300"	1.340"	1.710"	1.710"
OVERALL LENGTH	12.438"	4.844"	12.438"	4.844"	12.250"	4.938"	12.813"	5.125"	13.000"	5.500"

OTHER SIZES AVAILABLE ON REQUEST



Section G

Stops

Description	Size
Type A Tubing Stop	1 3/4" - 4"
Spring Loaded Tubing Stop	2" - 4"
Type " A-1 " Tubing Stop	2" & 2 1/2"
G Stop	2" - 3"
Collar Stop	2" - 4"

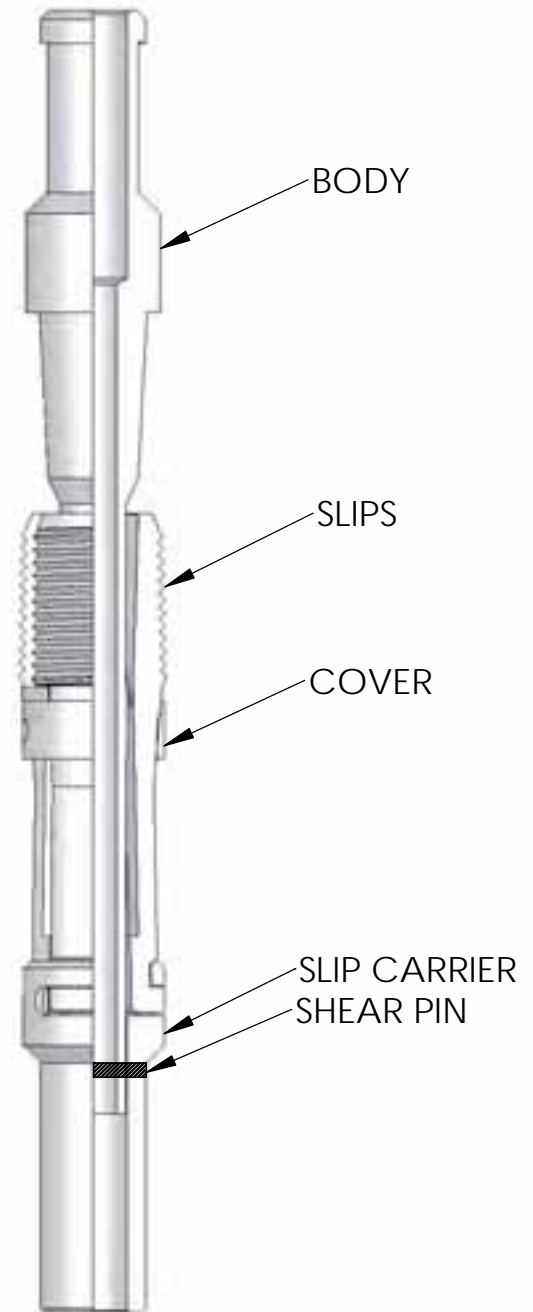
GO BACK HOME

TYPE A TUBING STOP

*Frederick's
Machine*

The Type "A" Tubing Stop is designed for use in integral joint tubing strings where a coupling recess is not available. It is used primarily as an anchoring device in packoff applications.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	2"	2 1/16"	2 1/2"	3"
MIN. I.D.	.438"	.625"	.703"	.625"	1.047"	1.500"
FISHING NECK O.D.	.875"	1.188"	1.375"	1.188"	1.750"	2.313"
MAX O.D. SLIPS RETRACTED	1.234"	1.438"	1.750"	1.438"	2.188"	2.719"
RUNNING TOOL	1 1/4"JDC	1 1/2"JDC	2"JDC	1 1/2"JDC	2 1/2"JDC	3"JDC
PULLING TOOL	1 1/4"JDC	1 1/2"JDC	2"JDC	1 1/2"JDC	2 1/2"JDC	3"JDC
SHEAR PIN SIZE	1/8"	3/16"	3/16"	3/16"	1/8"	3/16"

OTHER SIZES AVAILABLE ON REQUEST

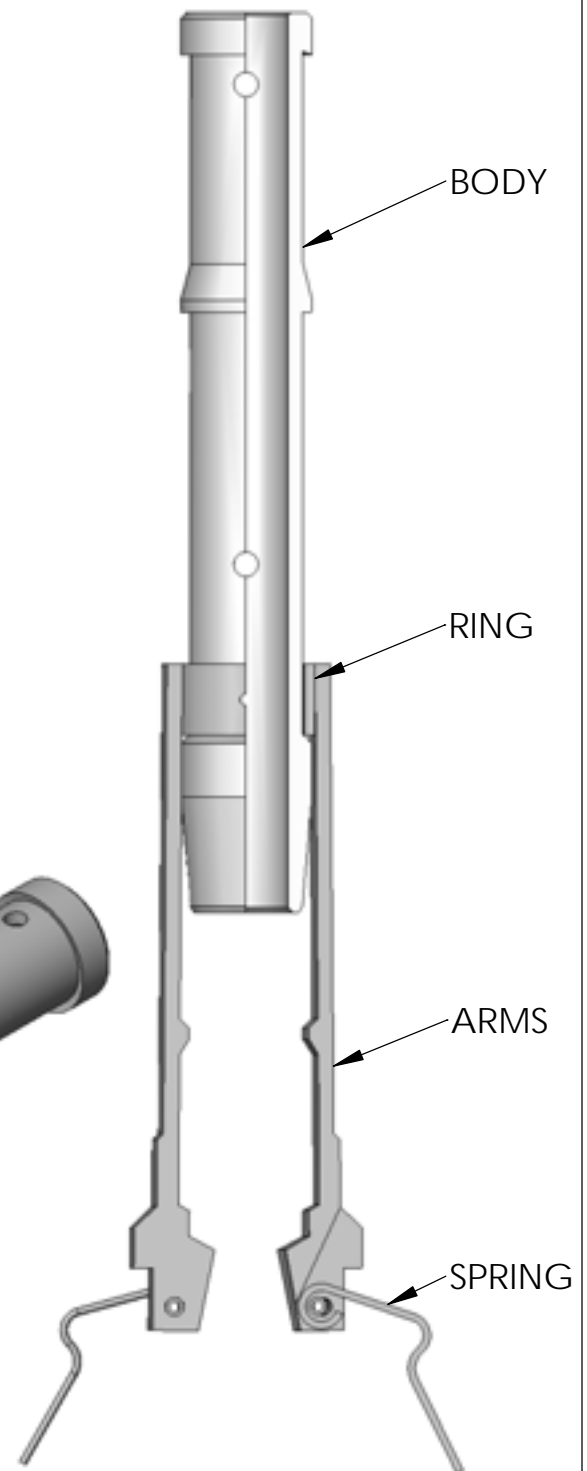
PAGE G-1

COLLAR STOP



The Collar Stop is designed to locate in the collar recess of API upset and non-upset tubing. By lowering the stop to the desired depth and lifting upward, the latch springs are tripped allowing the stop arms to expand into the collar recess. Downward jarring on the inner mandrel pushes it down behind the collar stop arms locking them into places in the collar recess.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
MIN. I.D.	0.875"	1.125"	1.625"
FISHINGNECK O.D.	1.375"	1.750"	2.313"
RUNNING TOOL	2 1/2" "F"	2 1/2" "F"	3" "F"
PULLING TOOL	2" "JDC"	2 1/2" "JDC"	3" "JDC"

OTHER SIZES AVAILABLE ON REQUEST



Section H

Surface Equipment

Description	Size
Gin Pole	Assembly
Gin Pole Step	Assembly
FMS Hay Pulley	7", 12" & 16"
Line Wiper	FMS Assembly
Lubricators	5,000 & 10,000 PSI.
Lubricator Clamp	2" to 3" Assy.
Pump in Sub with Weco Union	2 1/2" - 3"... 5,000 PSI
Pump in Sub with Weco Union	2 1/2" - 3"... 10,000 PSI
Quick Union	2" to 5" Assembly
Stuffing Box with Staff Assy.	5,000 PSI ... 7", 12" & 16"
Stuffing Box with Staff Assy.	10,000 PSI ... 12" & 16"
Stuffing Box with Staff Assy.	15,000 PSI ... 12" & 16"
Hydrolic Packing Nut - BT	Assembly
Hydrolic Packing Nut - FMS	Assembly
Tree Connections	
Aluminum Bronze Parts	Glands & Sleeves
Aluminum Bronze Kits	Kits
Wire Clamp	Assembly
Wire Tester	Assembly

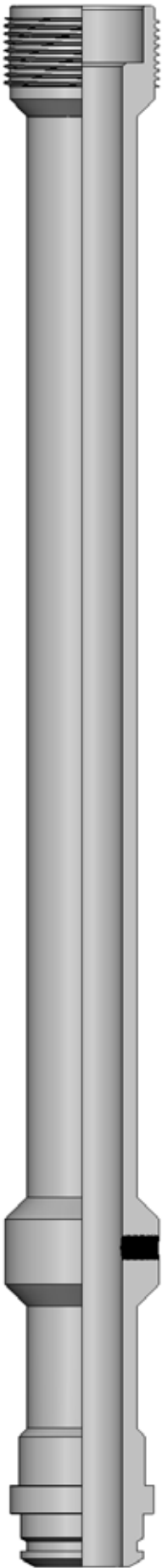
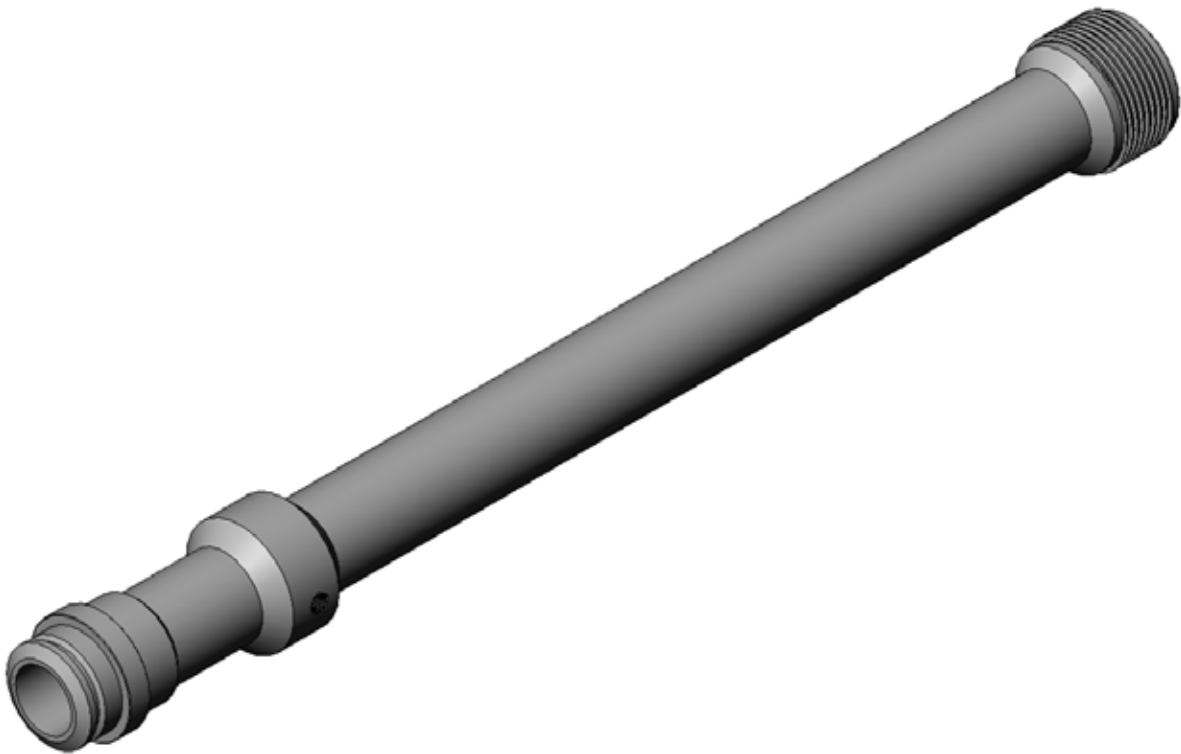
GO BACK HOME

LUBRICATOR



The Lubricator is a device to allow the weight bars and equipment you are attempting to lower into the well to be first subjected to well pressure.

BACK

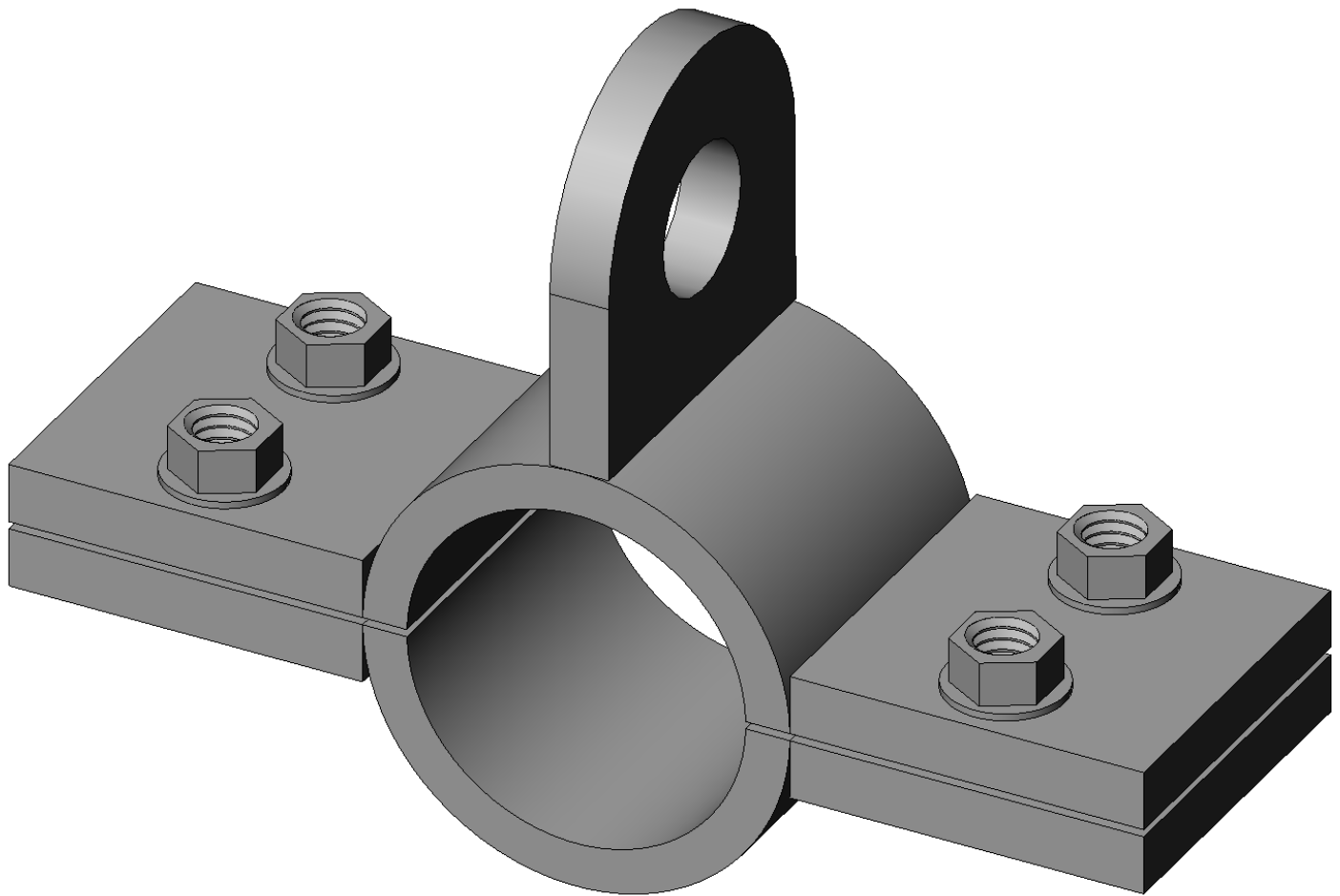


SPECIFICATIONS	
5,000 PSI LUBRICATOR ASSEMBLY W/ 2 1/2" Q.U. CONNECTIONS	10,000 PSI LUBRICATOR ASSEMBLY W/ 2 1/2" Q.U. CONNECTIONS
2" X 8' W/ 2 1/2" UNION	2" X 8' W/ 2 1/2" UNION
2 1/2" X 8' W/ 2 1/2" UNION	2 1/2" X 8' W/ 2 1/2" UNION
3" X 4' W/ 2 1/2" UNION	3" X 4' W/ 2 1/2" UNION
3" X 8' W/ 2 1/2" UNION	3" X 8' W/ 2 1/2" UNION
2 7/8" 8RD BLEED OFF SUB	
3 1/2" 8RD BLEED OFF SUB	

OTHER SIZES AVAILABLE ON REQUEST

LUBRICATOR CLAMPS

*Frederick's
Machine*



BACK

PUMP IN SUB

*Frederick's
Machine*

2 1/2" QUICK UNION
THREAD HALF

1502 WECO

SPLIT NUT

2 1/2" QUICK UNION
PIN SECTION

NUT

BACK

SPECIFICATIONS

2 1/2" I.D. - 5,000 PSI W.P.

3" I.D. - 5,000 PSI W.P.

2 1/2" I.D. - 10,000 PSI W.P.

3" I.D. - 10,000 PSI W.P.

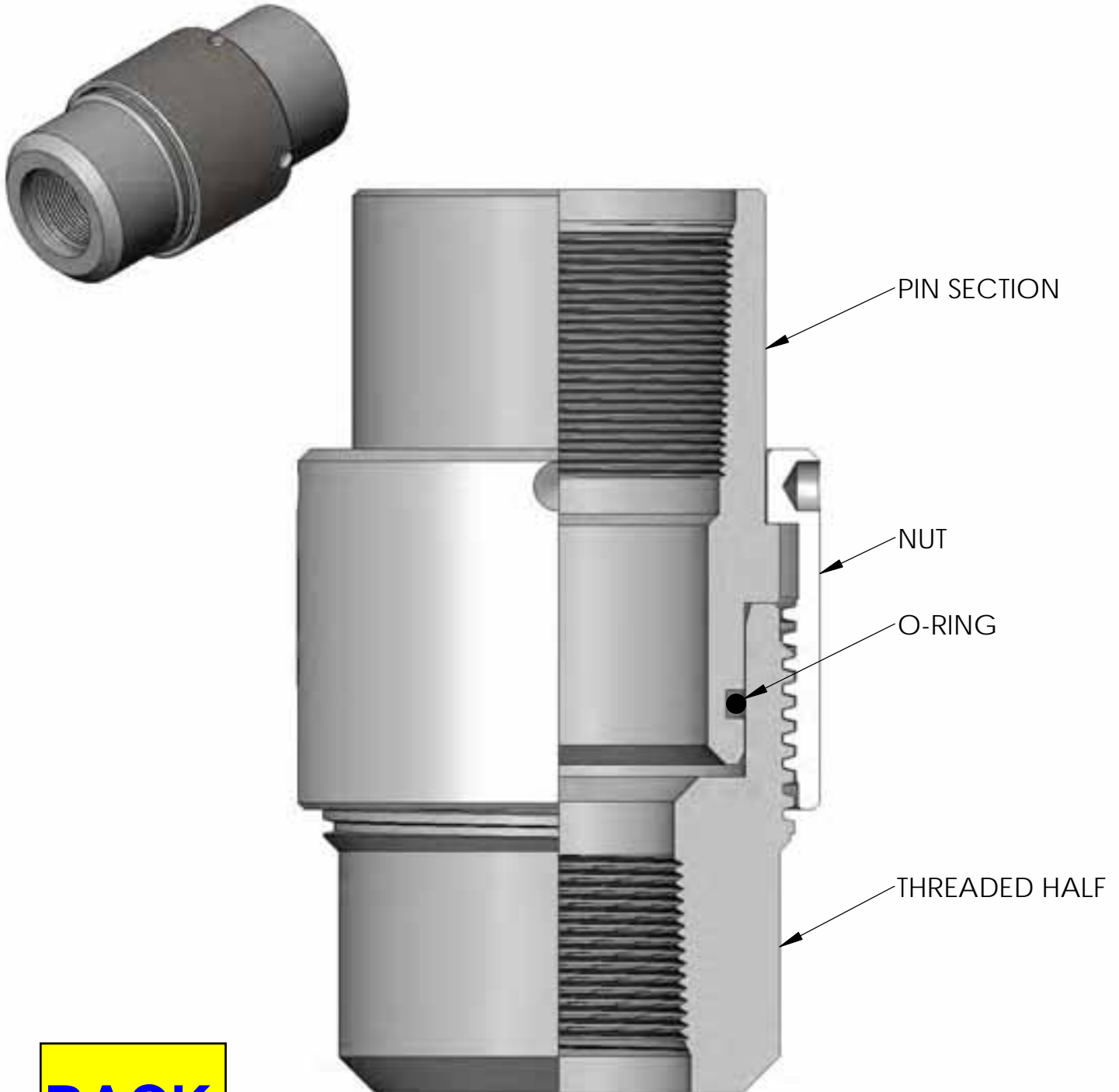
OTHER SIZES AVAILABLE ON REQUEST

PAGE H-3

QUICK UNION

*Frederick's
Machine*

Quick Unions are screwed onto Pup-Joints to form a Lubricator. They are used to attach sections of lubricator together to accommodate the required tool string length. The Quick Union is designed to hold pressure using an o-ring type seal.



BACK

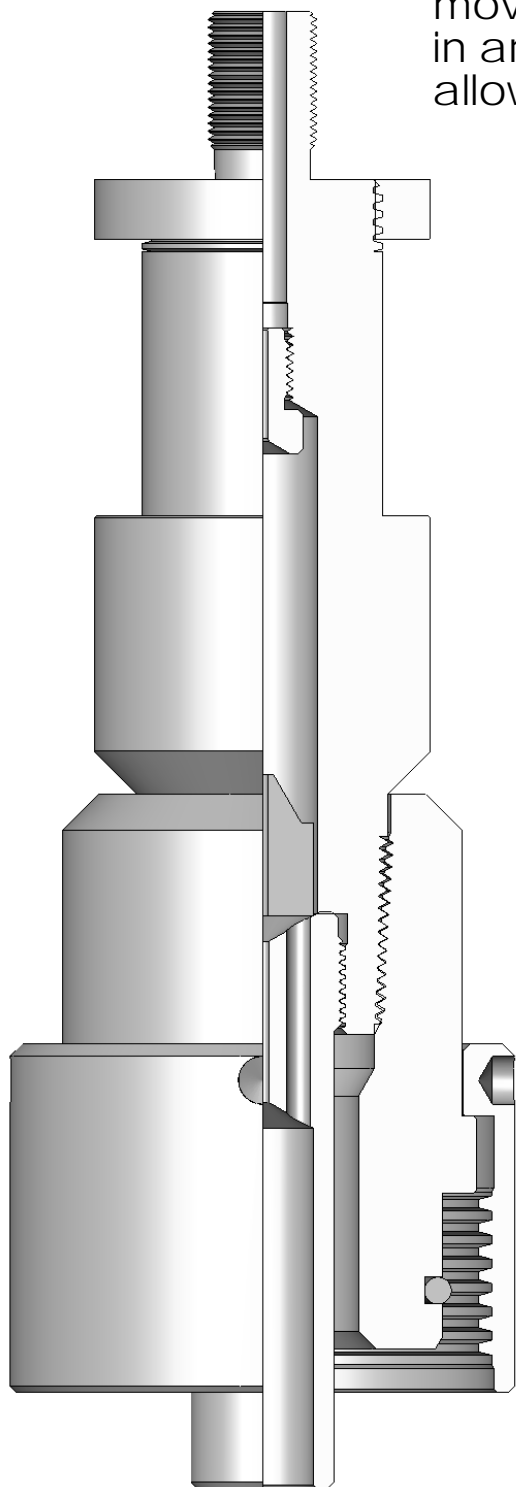
FMS STUFFING BOX

BACK

*Frederick's
Machine*

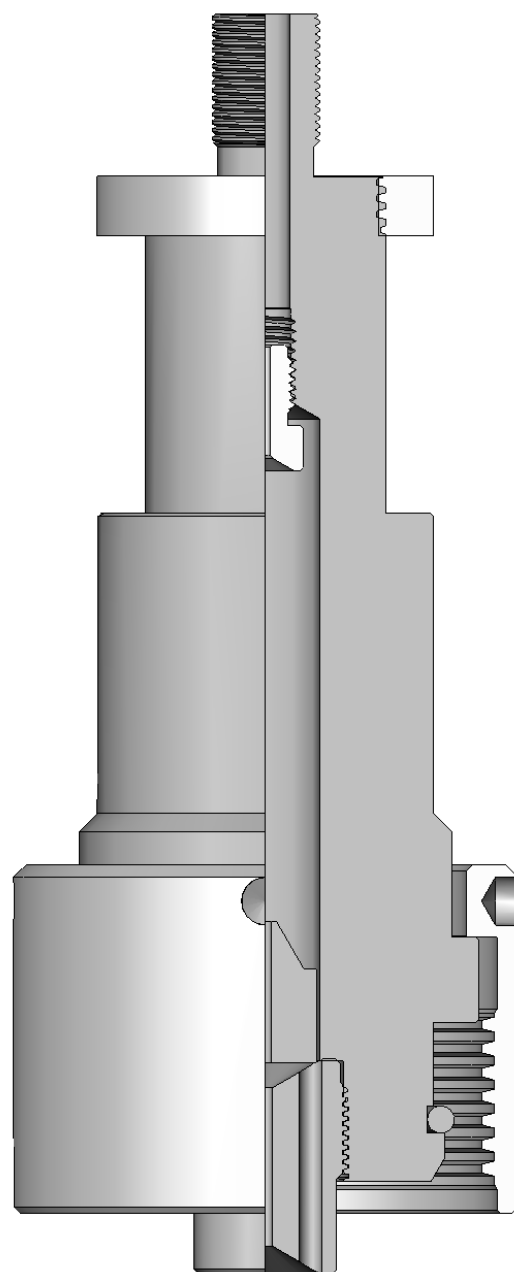
**GO TO
STAFF ASSEMBLY**

(5,000 PSI)



The Wireline Stuffing Box is designed to allow the movement of solid wireline in and out of the well without allowing well pressure to escape.

(10,000 PSI)



The FMS Stuffing Box is also available in 15,000 PSI

OTHER SIZES AVAILABLE ON REQUEST

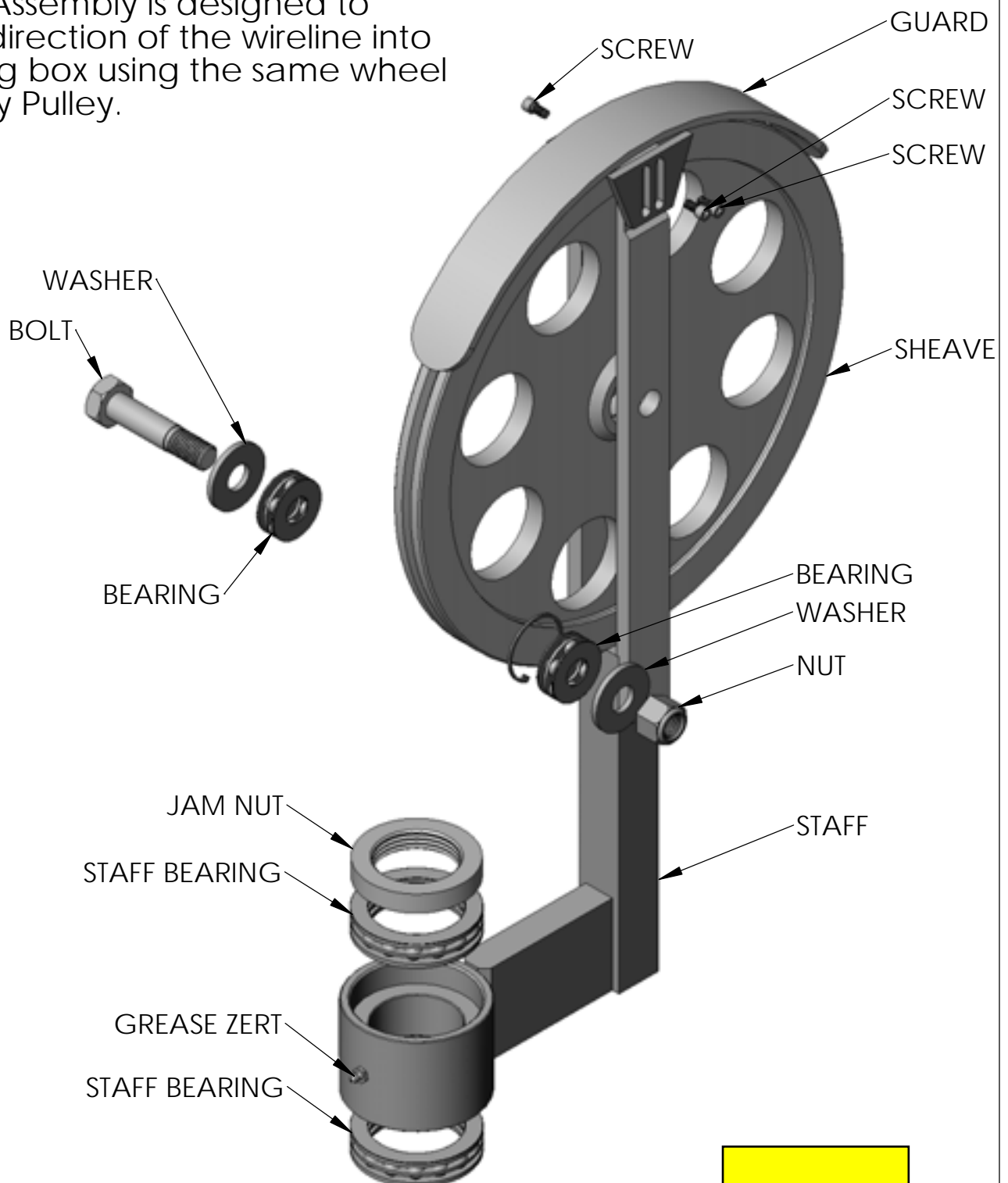
PAGE H-5

STAFF ASSEMBLY

*Frederick's
Machine*

GO TO
STUFFING BOX

The Staff Assembly is designed to alter the direction of the wireline into the stuffing box using the same wheel as the Hay Pulley.



BACK

SPECIFICATIONS

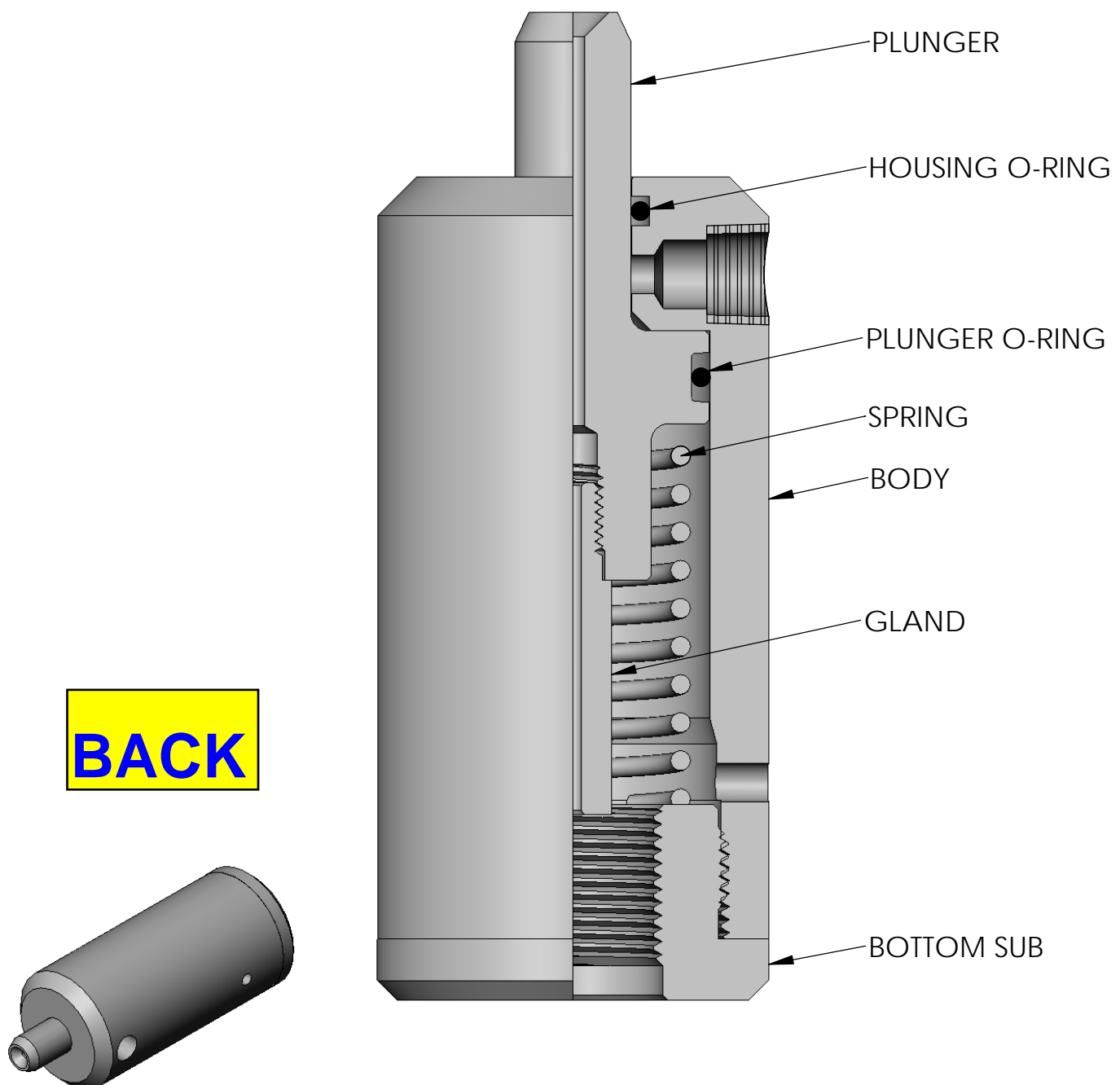
SIZE	7"	12"	16"
------	----	-----	-----

OTHER SIZES AVAILABLE ON REQUEST

HYDRAULIC PACKING NUT - BT



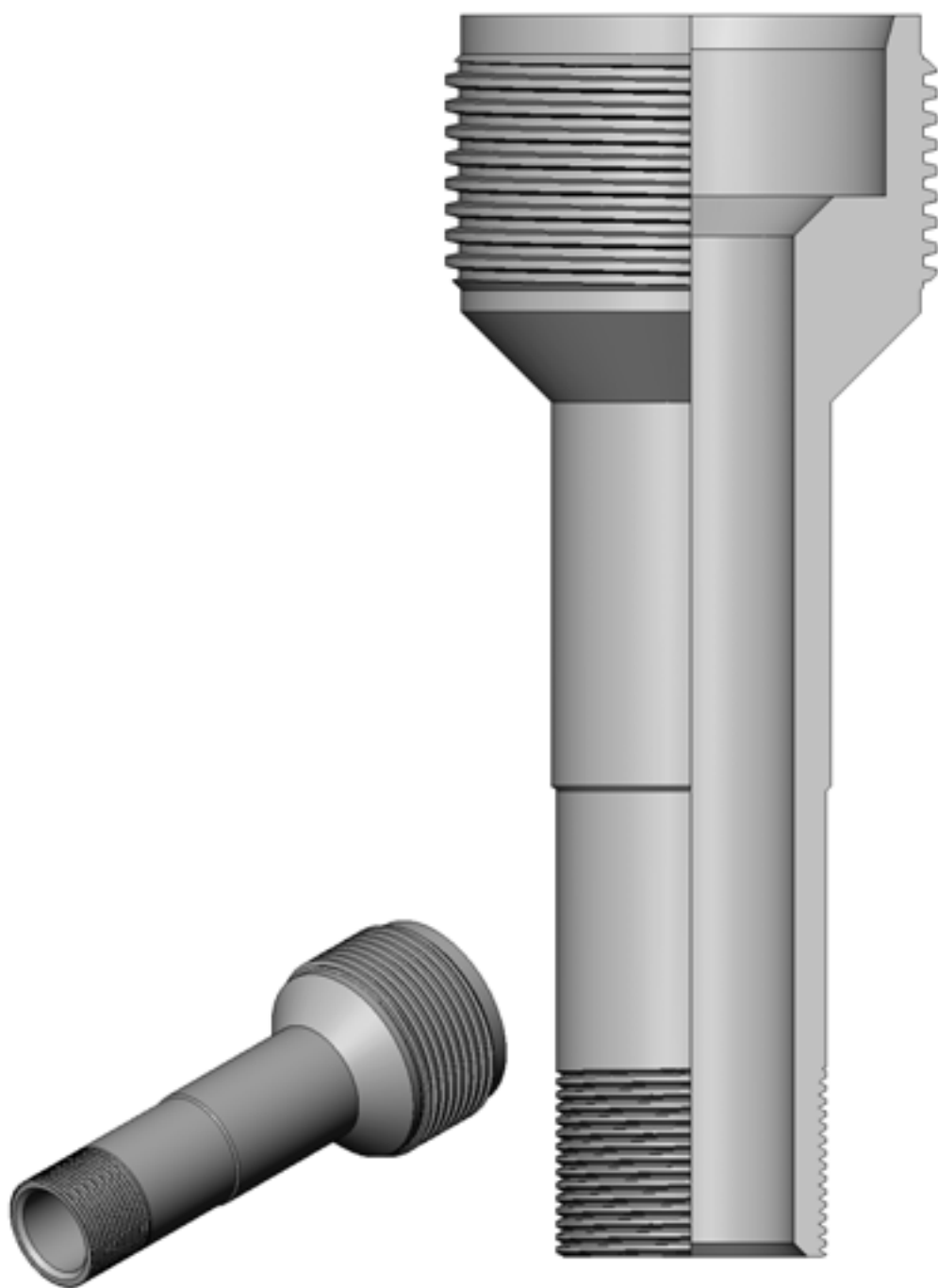
The Stuffing Box Hydraulic Packing Nut allows you to operate the packing nut from a remote location for convenience as well as a safer way to packoff the wireline.



TREE CONNECTION



Tree Connections are used to connect the bottom of the wireline valve to the connection on top of the tree.



BACK

WIRE TESTER

*Frederick's
Machine*

The Wireline Tester was designed as a field testing procedure to identify deterioration of wire mechanical properties.



BACK



Section I

Packoff Tools

Description

Size

"G" Packoff 2" to 3" Assembly

"K-3" Packoff 2" to 2 1/2" Assy.

O Ring Type Landing Shoe 2" to 3" Assembly

O Ring Type Receptacle 2" NU, LP to 3" NU, LP Assy

"A-4" Packoff 2" to 3" Assembly

Packing Type Landing Shoe 2" to 3" Assembly

Packing Type Receptacle 2" to 3" Assembly

Spacer Pipe 1" X 5" to 1 1/2" X 10"

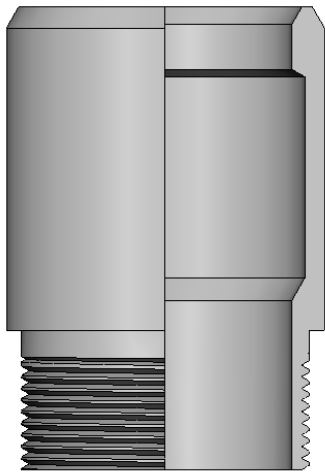
GO BACK HOME

G PACKOFF

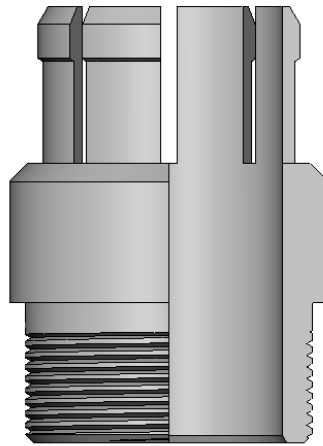


The Type "G" Packoff is used to straddle and seal off holes in the tubing. The upper and lower Type "G" Packoffs are usually joined by spacer pipe. Upper and lower tubing stops are used to keep the packoff assemblies in the locked position. In special applications, an upper or lower can be used as a tubing plug in situations where during well completion, landing nipples were not installed.

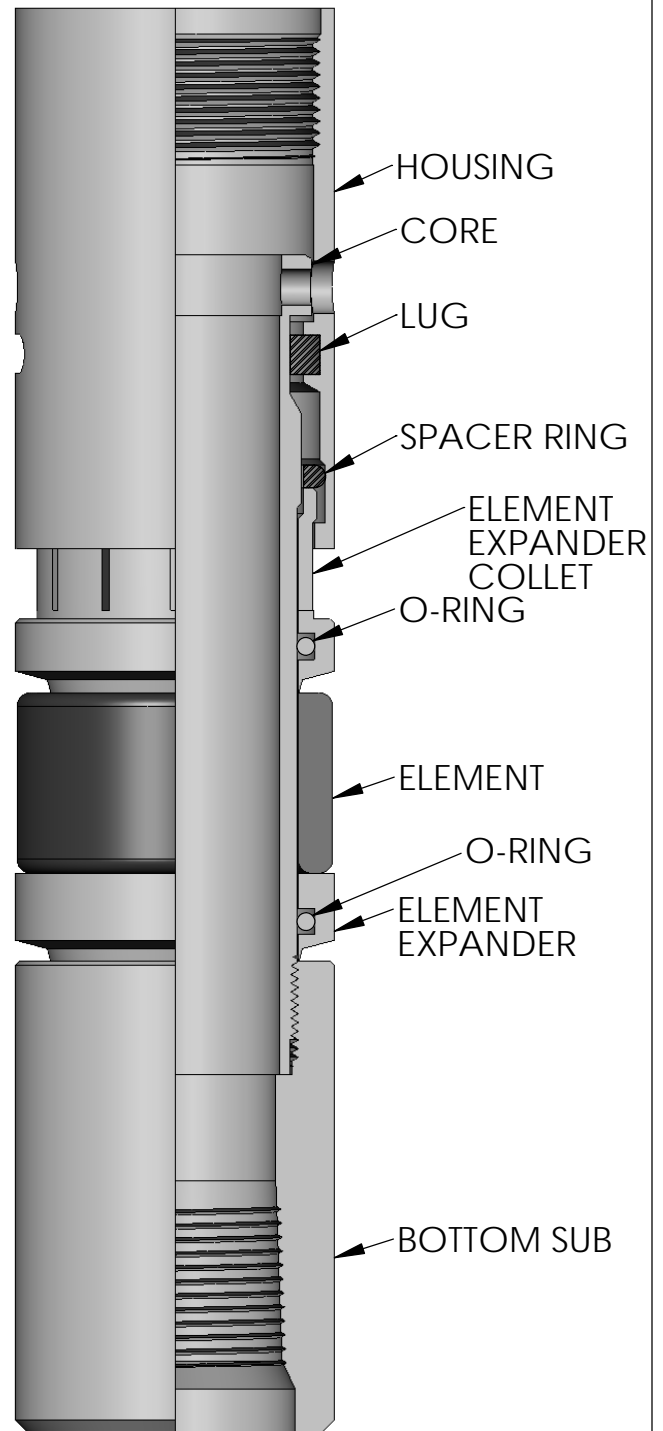
BACK



FISHINGNECK
(OPTIONAL)



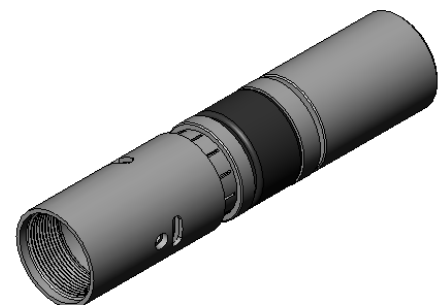
COLLET
(OPTIONAL)



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
UPPER CONNECTION	1 5/8"-12	2 1/16"-12	2 1/2"-12
LOWER CONNECTION	1"-10RD	1 1/2"-10RD	2"-10RD
MAX O.D.	1.840"	2.275"	2.695"
MINIMUM I.D.	1.063"	1.500"	1.672"
FISHING NECK I.D. (OPTIONAL)	1.375"	1.81"	2.31"

OTHER SIZES AVAILABLE ON REQUEST





Section J

Tool String

(Page 1)

Description	Size
Blind Box	3/4" to 5 1/2"
Bottom Hole Pressure Soft Release	1 1/2" Assembly
Broaches	2" to 4" Assemblies
Bull Dog Spear	2" to 3"
Center Spear	Assembly
Steel Centralizer	1 1/2" to 3.750"
Teflon Centralizer	2" to 3" Assembly
Adjustable Bow Spring Centralizer	
FMS Check Set Tool	1.250" to 3.813" Assy.
Impression Block	3/4" to 8"
Spang Jars	1"X18" to 2 1/2"X30"
Tubular Jars	3/4" to 2 1/2"X30"
Knuckle Jar	1 1/4" to 2 1/8"
Knuckle Joint	3/4" to 2 1/2"
Paraffin Cutter (gauge ring)	.750" to 6.00"
Paraffin Scratcher	Assembly
Single Strand Rope Sockets	3/4" to 2 1/8" Assy.
Brass Wedge Rope Socket	.092" Wire to .187" Wire
Multi Strand Rope Socket	1 1/4" to 2 1/8" Assy.
Stem	3/4"X2' to 2 1/8"X5'
Leaded Stem	1"X2' to 1 7/8"X5'
Roller Stem with Teflon Wheels	1 1/4"X3' to 1 7/8"X5'
Tubing End Locator	1 1/4" OD to 2 1/4" OD
Tubing Brushes	2" to 3" Assembly

Diamond Paddle Pineapple

GO TO PAGE 2

GO BACK HOME



Section J

Tool String

(Page 2)

Description

Size

Tubing Swedge

1.250" to 3.800"

Nipple Locator

1.875" To 2.813" Assy + Collet

No Go Subs

1 1/4" to 3"

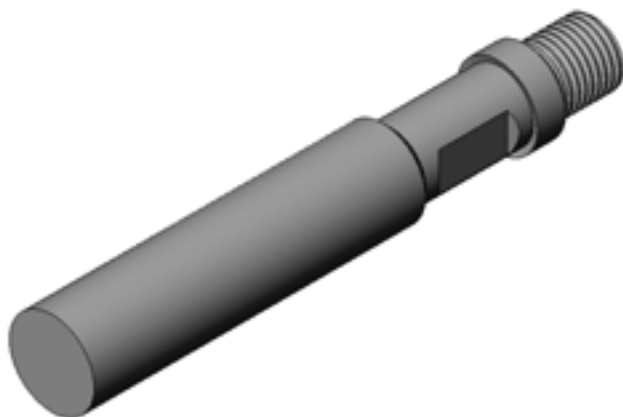
[GO TO PAGE 1](#)

[GO BACK HOME](#)

BLIND BOX

*Frederick's
Machine*

The Blind Box is a one piece wireline tool made from solid bar alloy steel that has a fishingneck and threads on one end, to facilitate attachment to the wireline string, and a flat bottom on the other end for delivering blows. The Blind Box is actually used as a downhole "hammer," striking objects or bedris with jarring force.



BACK

SPECIFICATIONS

SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.	0.688"	0.875"	1.188"	1.188"	1.375"	1.375"	1.750"
MAX O.D.	0.750"	1.000"	1.250"	1.500"	1.750"	2.250"	2.625"
PIN CONNECTION	1/2"-13	5/8"-11	15/16"-10	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	8.375"	8.250"	8.000"	8.875"	8.875"	9.875"	9.875"

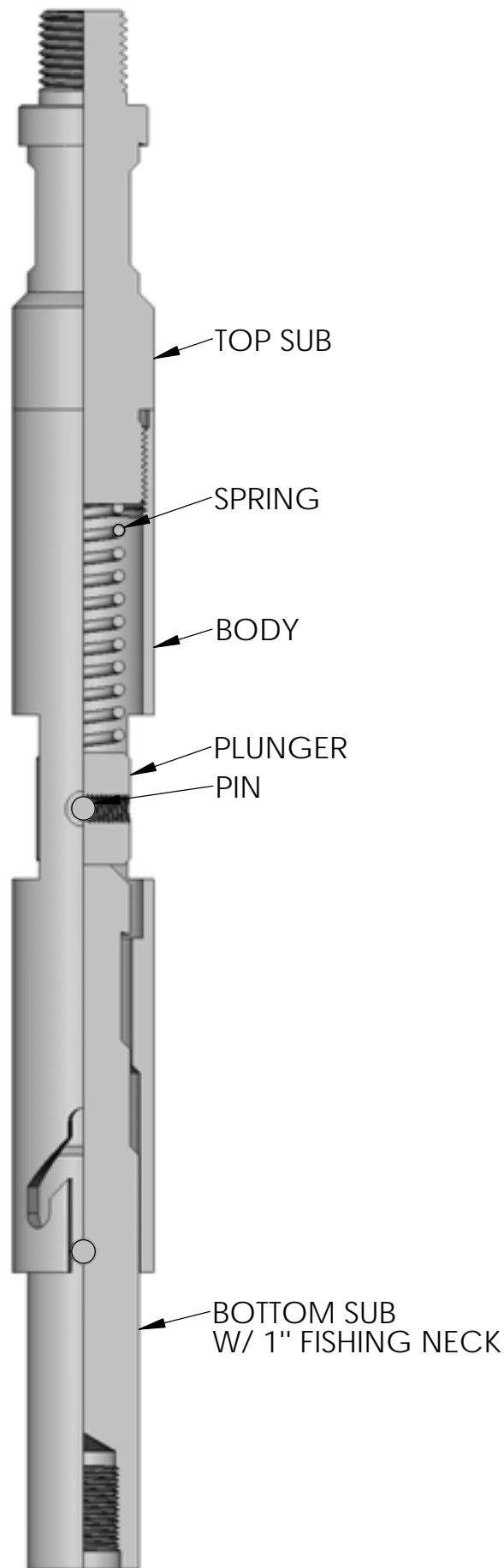
OTHER SIZES AVAILABLE ON REQUEST

PAGE J-1

BOTTOM HOLE PRESSURE SOFT RELEASE

*Frederick's
Machine*

BACK



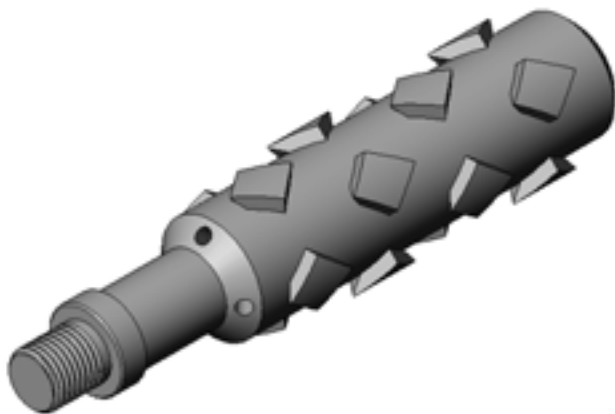
SPECIFICATIONS
1 1/2" O.D. ASSEMBLY

OTHER SIZES AVAILABLE ON REQUEST

DIAMOND BROACH

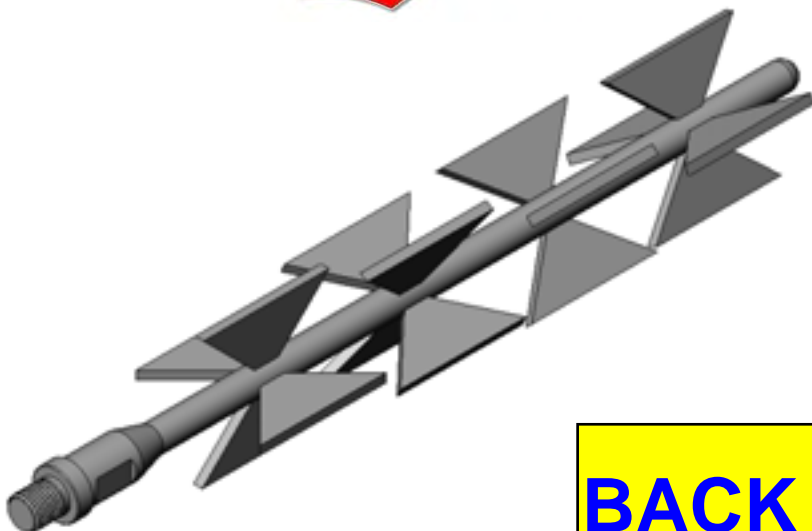
*Frederick's
Machine*

The FMS Broaching Tool is a wireline service tool designed to remove excess cement, salt, barium, or other deposits that have accumulated on the tubing wall, restricting the I.D. and flow area.



PADDLE BROACH

*Frederick's
Machine*



BACK

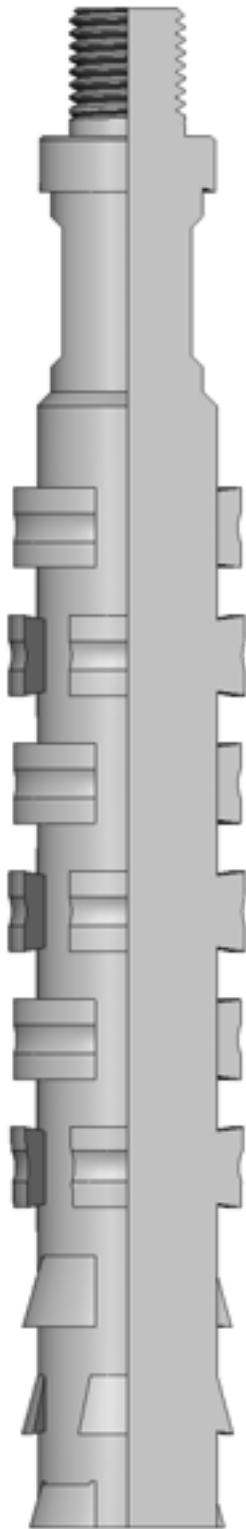
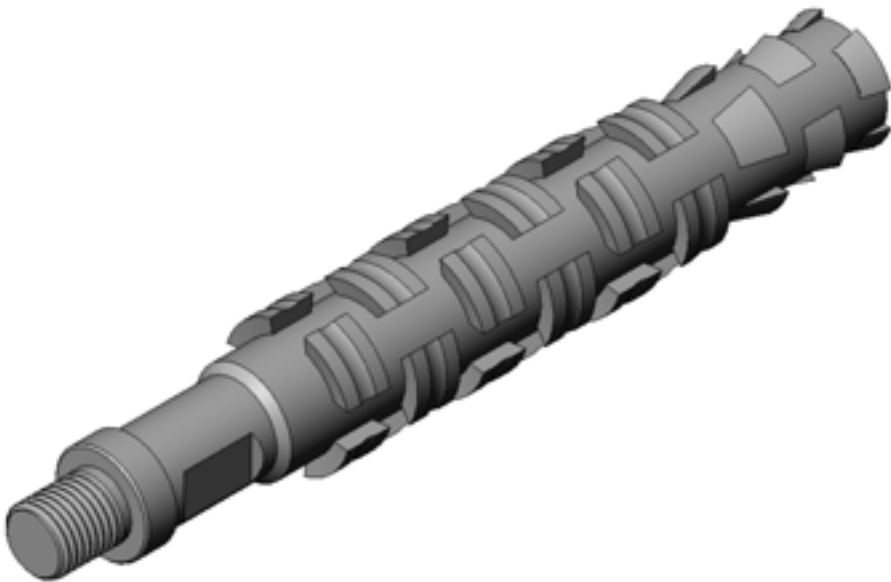


PINEAPPLE BROACH



The Pineapple Broach is used to cut burrs in the tubing I.D. caused by perforation, rust, bent tubing, etc.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHING NECK	1.375"	1.375"	1.750"
MAX O.D.	1.910"	2.347"	2.897"
PIN CONNECTION	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	11.500"	11.500"	15.000"

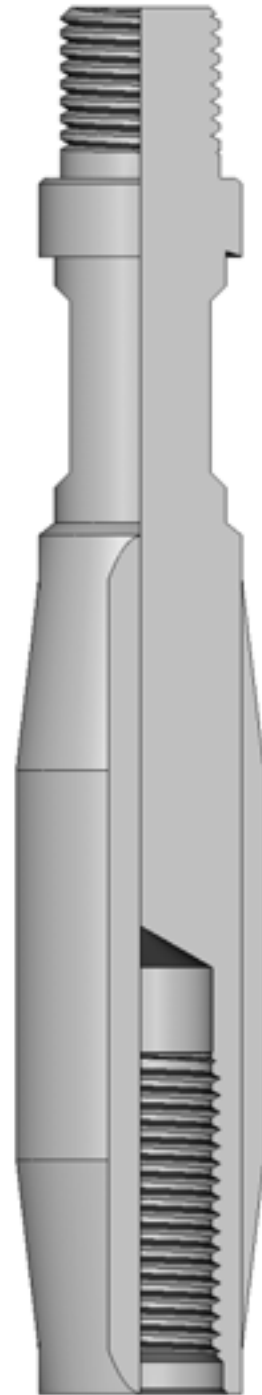
OTHER SIZES AVAILABLE ON REQUEST

STEEL CENTRALIZER



The Tubing Centralizer is used to help keep the tool string in the center of the tubing. The diameter is machined near the tubing drift specification. Fluid bypass slots are machined to assist the tool string downhole.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHING NECK O.D.	1.375"	1.375"	1.750"
MAX O.D.	1.843"	2.281"	2.718"
PIN & BOX CONNECTIONS	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	10.000"	10.000"	10.000"

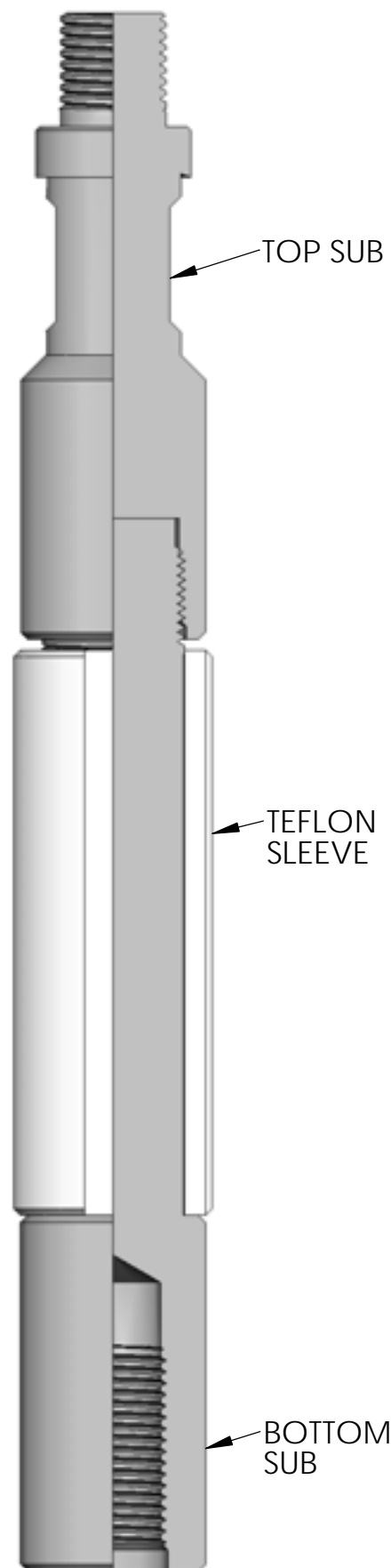
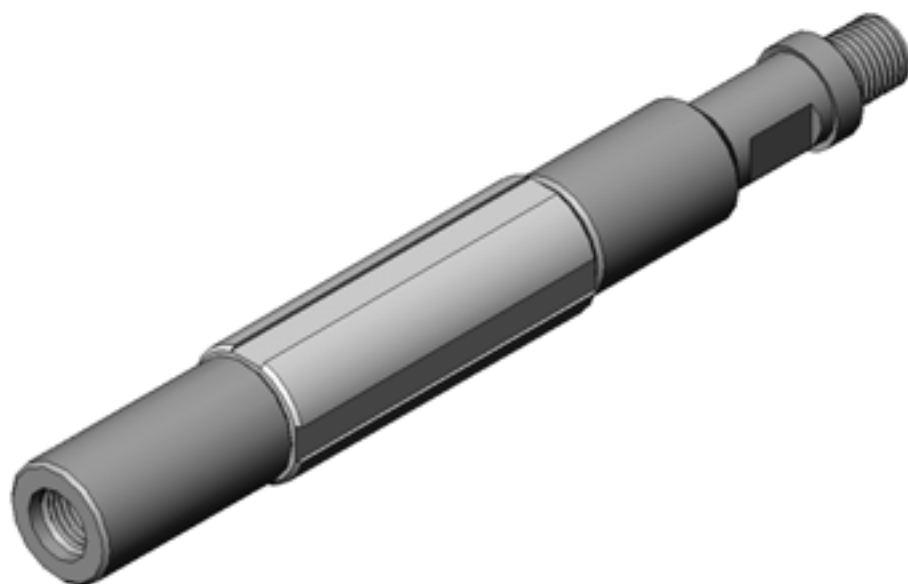
OTHER SIZES AVAILABLE ON REQUEST

TEFLON CENTRALIZER

*Frederick's
Machine*

The Teflon Centralizer is used to help keep the tool string in the center of coated tubing. The diameter is machined near the the tubing drift specification. Fluid bypass slots are machined to assist the tool string downhole.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHINGNECK O.D.	1.375"	1.375"	1.750"
MAX O.D.	1.843"	2.281"	2.718"
PIN & BOX CONNECTIONS	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	11.500"	11.500"	12.000"
SET SCREW	1/4"-20 X 1/4"	1/4"-20 X 1/4"	1/4"-20 X 3/8"

OTHER SIZES AVAILABLE ON REQUEST

ADJUSTABLE BOW SPRING CENTRALIZER



The Adjustable Wireline Centralizer comes in two models, one with a range from 1 1/2" to 8 1/2" O.D., and one with a range from 1 7/8" to 9" O.D. Through the use of an adjustment nut and coil spring, the O.D. of the centralizer springs can be adjusted to fit your specific application.

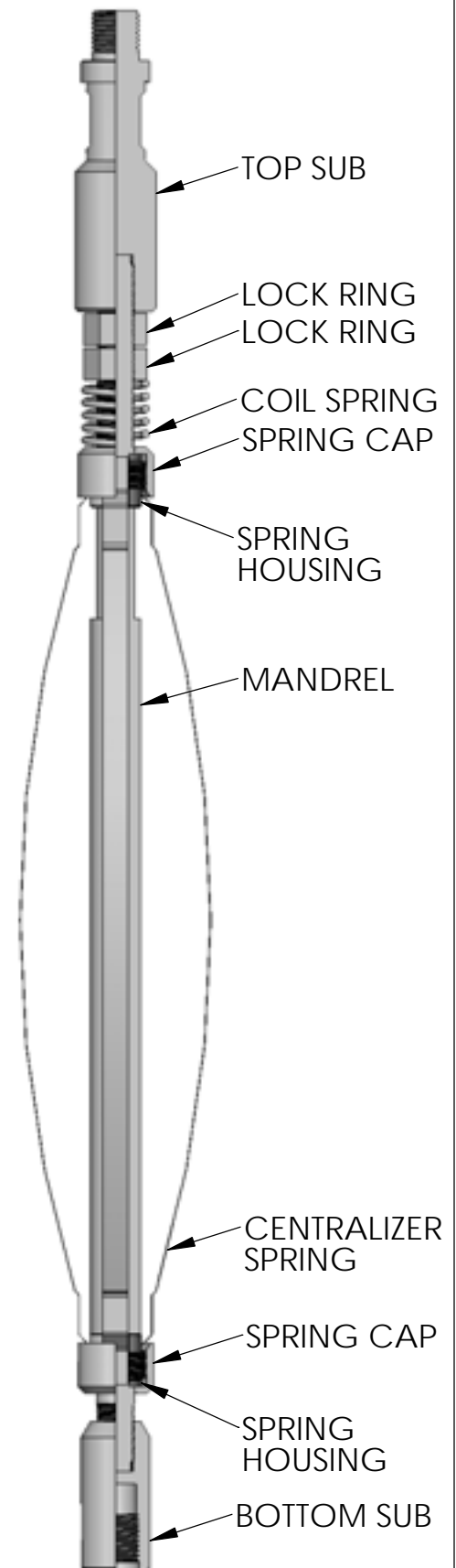
BACK



SPECIFICATIONS

SIZE	1 1/2"	1 7/8"
FISHING NECK O.D.	1.375"	1.375"
PIN & BOX CONNECTIONS	15/16"-10	15/16"-10
MAX O.D.	1.500"	1.875"
BOW SPRING RANGE	1 1/2" TO 8 1/2"	1 1/2" TO 9"
MADE UP LENGTH	45.750"	45.750"
LOCKING SET SCREWS	(3) 1/4"-20 X 1/4"	(3) 1/4"-20 X 1/4"
ADJUSTING SET SCREWS	(2) 1/4"-20 X 3/16"	(2) 1/4"-20 X 3/16"

OTHER SIZES AVAILABLE ON REQUEST

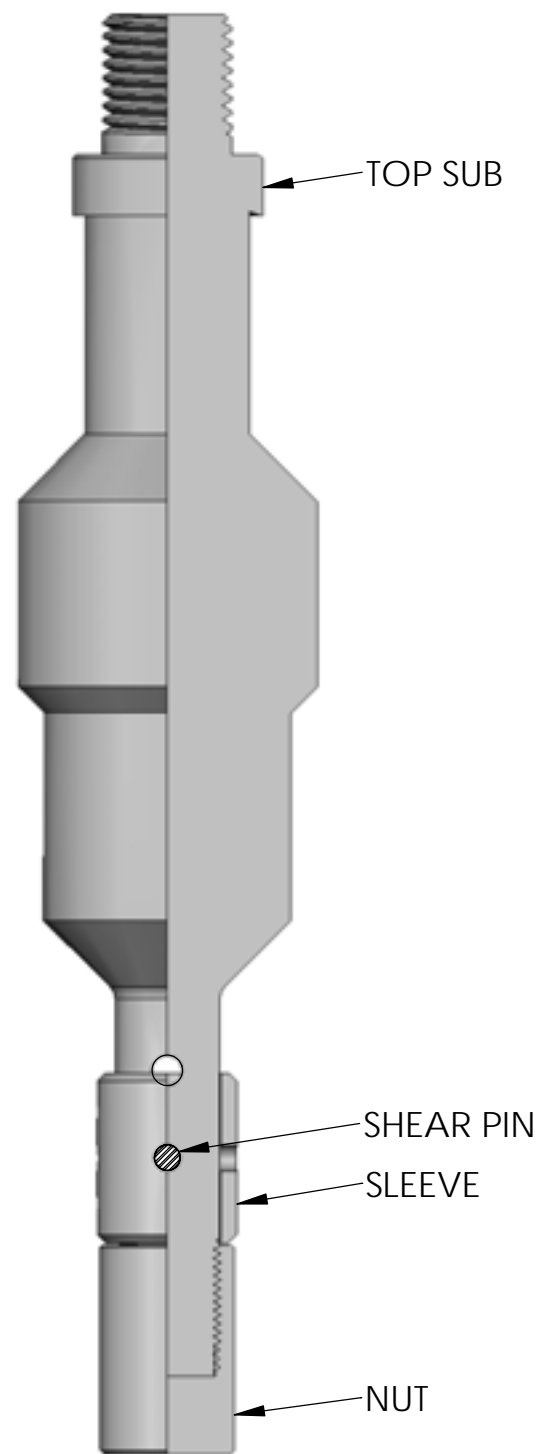
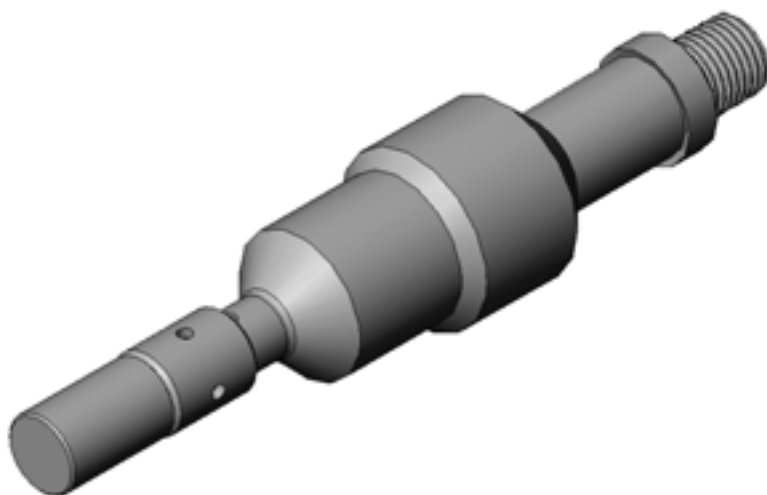


FMS CHECK TOOL SET



These tools are used to insure that the FMSX and FMSR Locking Mandrels have properly been set in the appropriate landing nipple. A sheared pin in the tool, once it has been run, indicates that the lock has been properly set. It is lowered downhole to the locking mandrel using stander wireline tools.

BACK



SPECIFICATIONS

SIZE	1 1/2",1.710"	2"	2.125"	2.188"	2 1/2",2.562"	3"
FISHINGNECK O.D.	1.188"	1.375"	1.375"	1.375"	1.375"	1.750"
THREAD CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10
BRASS SHEAR PIN	3/16" X 1 1/4"	1/4" X 1 5/8"	1/4" X 1 5/8"	1/4" X 1 7/8"	1/4" X 1 7/8"	1/4" X 2 1/2"

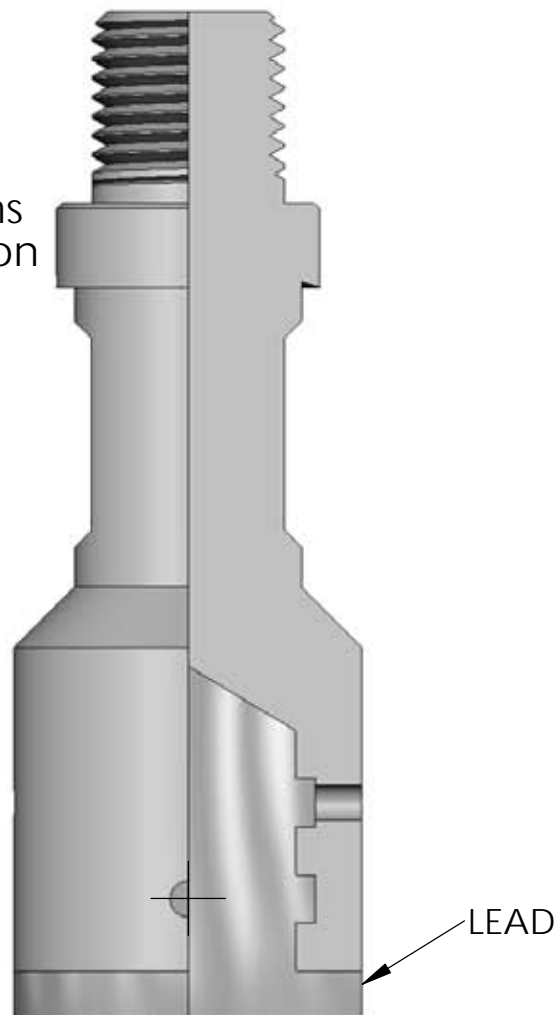
OTHER SIZES AVAILABLE ON REQUEST

PAGE J-8

IMPRESSION BLOCK



The Impression Block consists of a steel housing with a lead insert. Impression Blocks are used during fishing operations to determine the shape, size and position of the object being fished.



BACK

SPECIFICATIONS

SIZE	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.	0.688"	0.875"	1.188"	1.188"	1.375"	1.375"	1.750"
MAX O.D.	0.750"	1.000"	1.250"	1.500"	1.750"	2.250"	2.625"
PIN CONNECTION	1/2"-13	5/8"-11	15/16"-10	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	4.875"	5.250"	5.500"	5.500"	6.000"	6.000"	6.000"

OTHER SIZES AVAILABLE ON REQUEST

PAGE J-9

TUBULAR JARS



The Tubular Jar, through wireline manipulation, can be used to provide an upward or downward impact. The intensity of the jarring impact depends on the weight of the wireline stem above the jar, the stroke length of the jar, and the density of the well fluid. The perforated body of the Tubular Jar allows fluid bypass, reducing the effects of the well fluid density on the jarring impact.

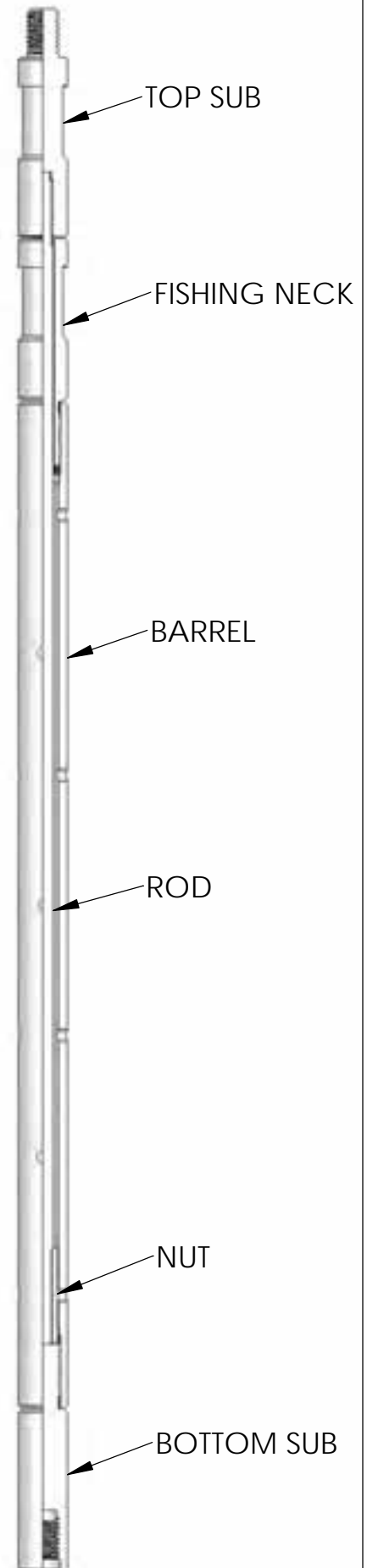
BACK



SPECIFICATIONS

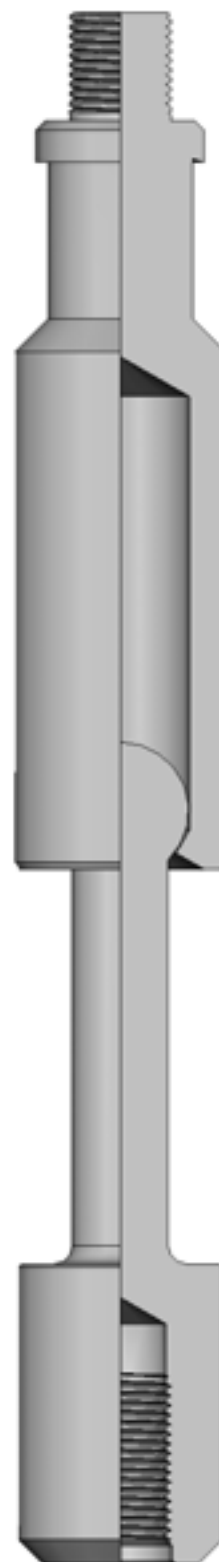
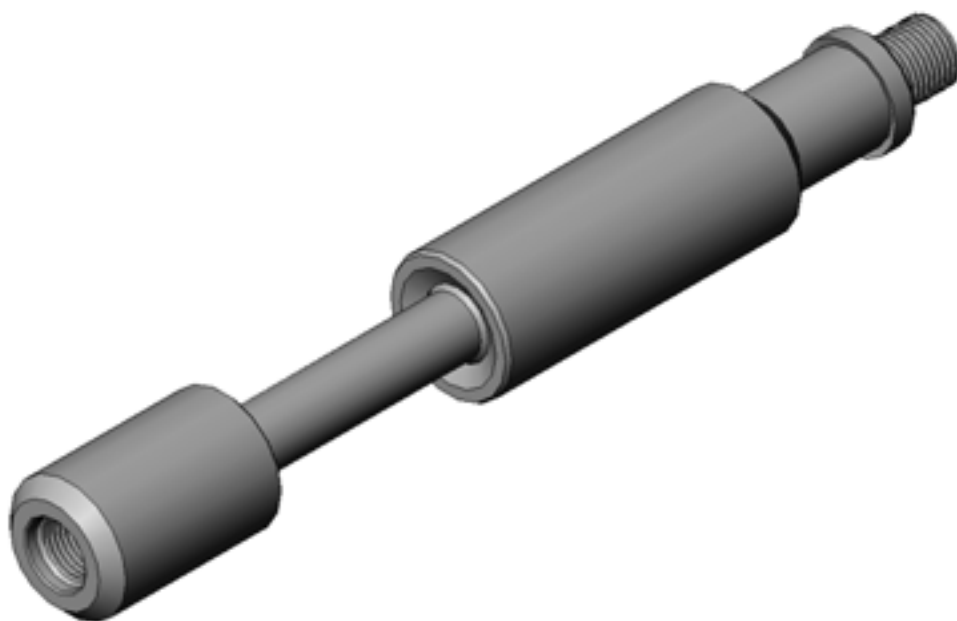
SIZE	3/4"	7/8"	1"	1 1/4"
FISHINGNECK O.D.	0.688"	0.750"	0.875"	1.188"
MAX O.D.	0.750"	0.875"	1.000"	1.250"
PIN & BOX CONNECTIONS	1/2"-13	1/2"-13	5/8"-11	15/16"-10
MADE UP LENGTH (CLOSED)	20.813"	20.813"	31.438"	32.563"
MADE UP LENGTH (OPENED)	34.813"	34.813"	51.438"	52.563"
STEEL LOCKING PIN	1/8" x 3/4"	1/8" x 7/8"	1/8" x 1"	1/8" x 1 1/4"

SIZE	1 1/2"	1 3/4"	1 7/8"	2 1/8"
FISHINGNECK O.D.	1.375"	1.750"	1.750"	1.750"
MAX O.D.	1.500"	1.750"	1.875"	2.125"
PIN & BOX CONNECTIONS	15/16"-10	1 1/16"-10	1 1/16"-10	1 1/16"-10
MADE UP LENGTH (CLOSED)	32.563"	32.563"	32.563"	32.688"
MADE UP LENGTH (OPENED)	52.563"	52.563"	52.563"	52.688"
STEEL LOCKING PIN	1/8" x 1 1/2"	1/8" x 1 3/4"	1/8" x 1 7/8"	1/8" x 2 1/8"



*Frederick's
Machine*

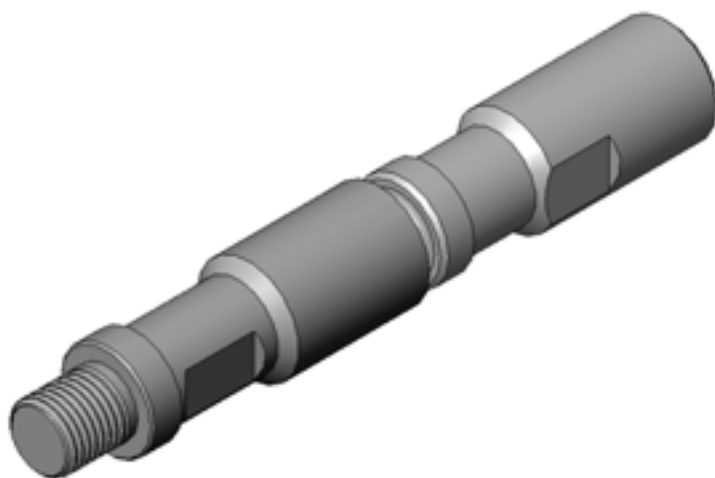
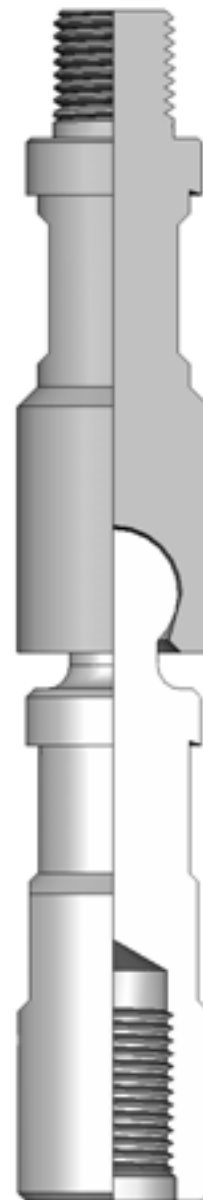
BACK



OTHER SIZES AVAILABLE ON REQUEST

*Frederick's
Machine*

BACK



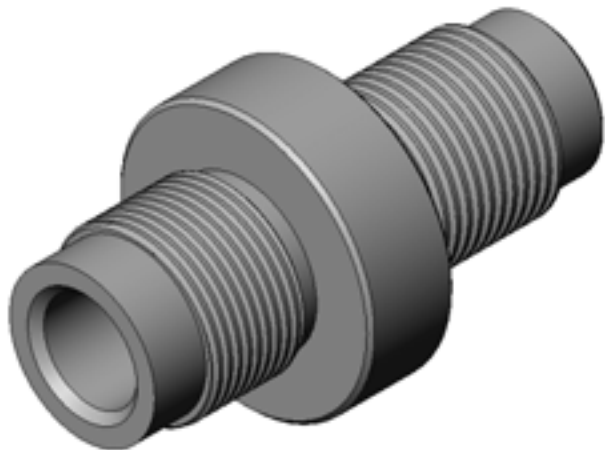
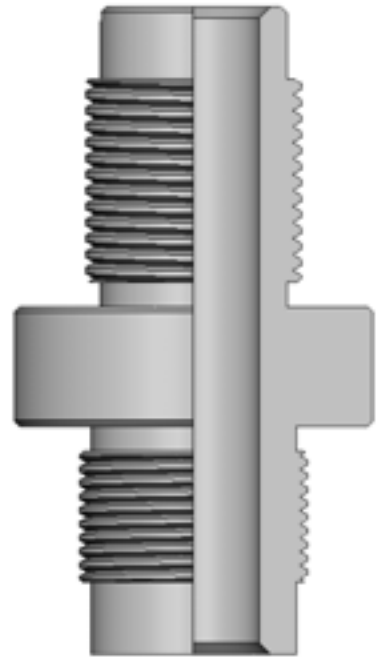
SIZE	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2 1/2"
FISHINGNECK O.D.	0.688"	0.688"	1.000"	1.188"	1.375"	1.750"	1.750"	2.313"
MAX O.D.	0.750"	0.875"	1.000"	1.250"	1.500"	1.750"	1.875"	2.500"
PIN & BOX CONNECTIONS	1/2"-13	1/2"-13	5/8"-11	15-16"-10	15/16"-10	1 1/16"-10	1 1/16"-10	1 9/16"-10
MADE UP LENGTH	4.438"	4.438"	5.250"	7.313"	9.000"	9.125"	9.125"	11.313"

NO GO SUB



The Type N No Go sub is used in conjunction with the FMSS Locking Mandrel when a Type N No Go Mandrel is to be used. The N No Go Sub is screwed on to the locking section of the FMSS Mandrel just below the packing section to convert into the Type N No Go Mandrel.

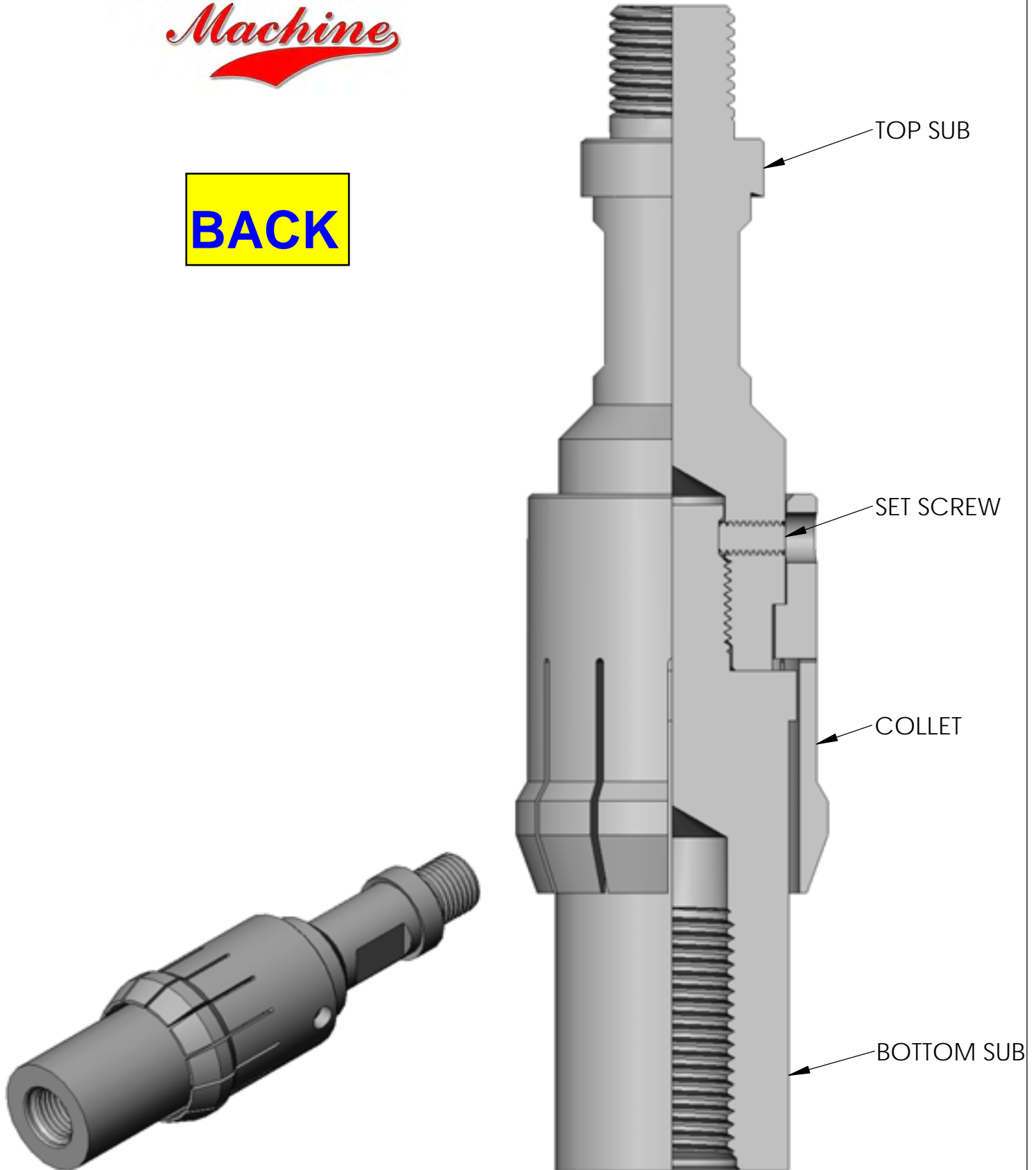
BACK



NIPPLE LOCATOR

*Frederick's
Machine*

BACK



SPECIFICATIONS

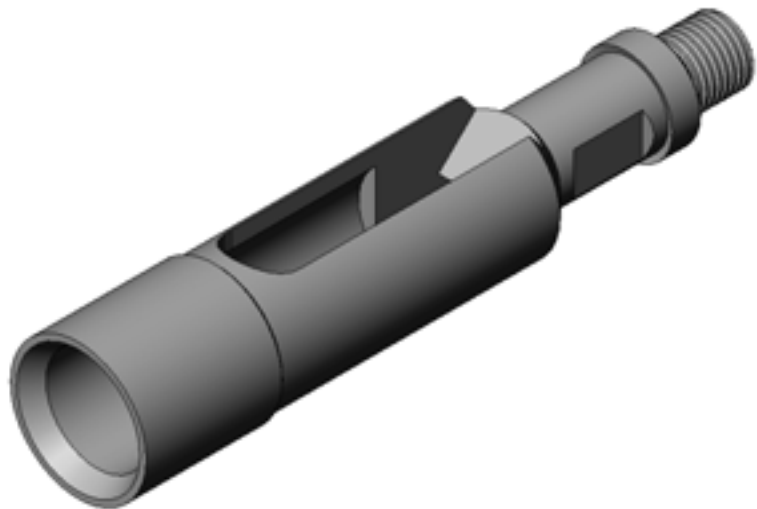
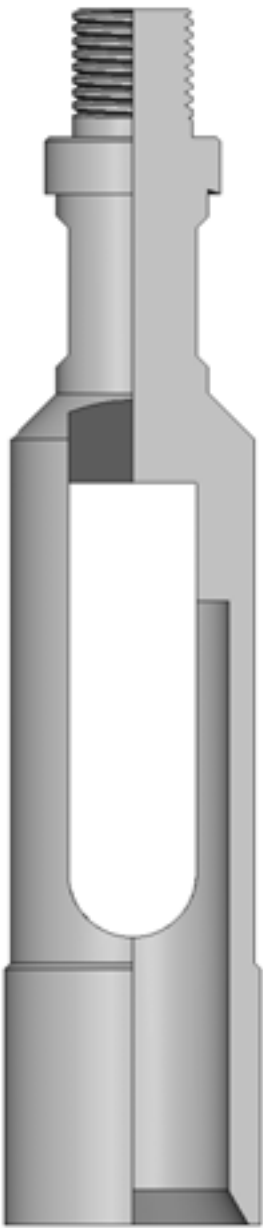
SIZES	1.875"	2.313"	2.750"	2.813"
OTHER SIZES AVAILABLE ON REQUEST				

PARAFFIN CUTTER (GAUGE RING)



The Paraffin Cutter (Gauge Ring) has many different purposes. It can be used to calibrate tubing, locate landing nipples, and remove paraffin and other deposits from the tubing wall.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.000"	1.188"	1.188"	1.375"	1.375"	1.750"
MAX O.D.	1.240"	1.483"	1.750"	1.906"	2.343"	2.906"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	6.500"	6.500"	8.000"	8.500"	8.500"	8.500"

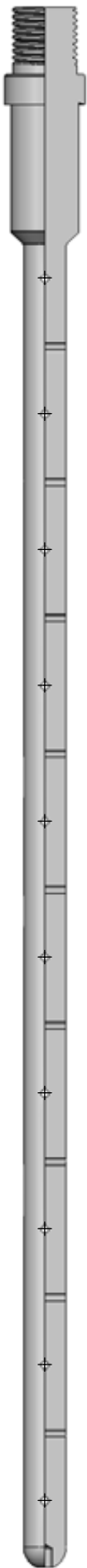
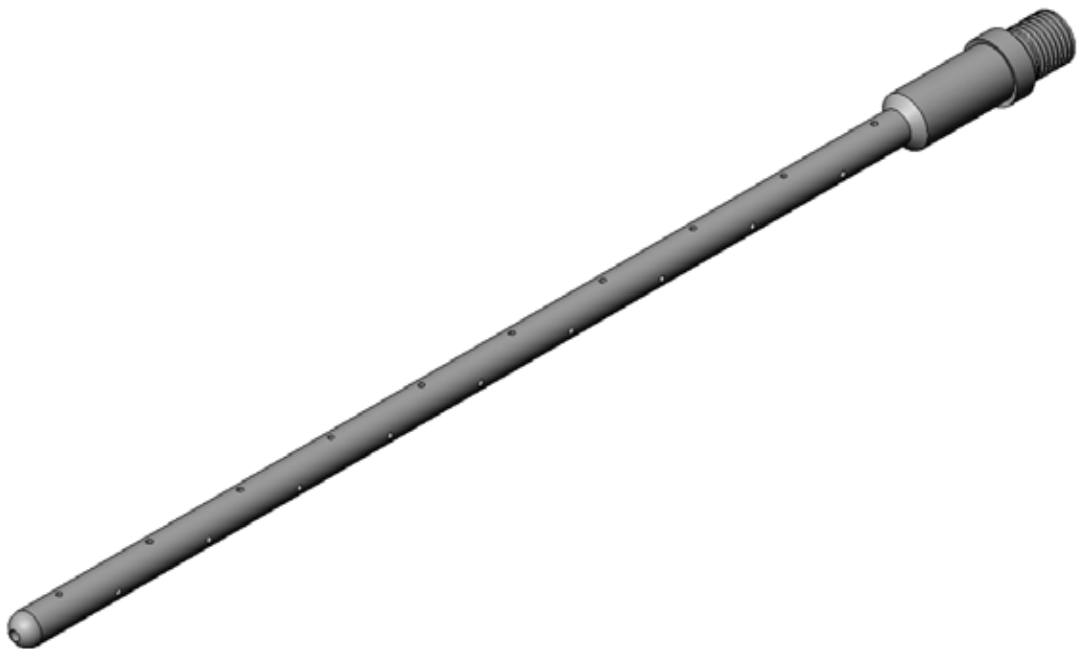
OTHER SIZES AVAILABLE ON REQUEST

PARAFFIN SCRATCHER

*Frederick's
Machine*

The Paraffin Scratcher is designed to scratch paraffin and scale from the I.D. of tubing by placing pieces of wireline, cut to specific lengths and threaded through a number of spirally drilled holes, along its 5/8" diameter body and running it up and down inside the tubing.

BACK



SPECIFICATIONS			
SIZE	2"	2 1/2"	3"
FISHING NECK O.D.	1.188"	1.188"	1.188"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	22.000"	22.000"	22.000"

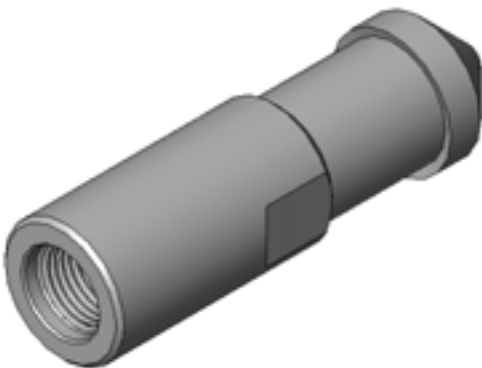
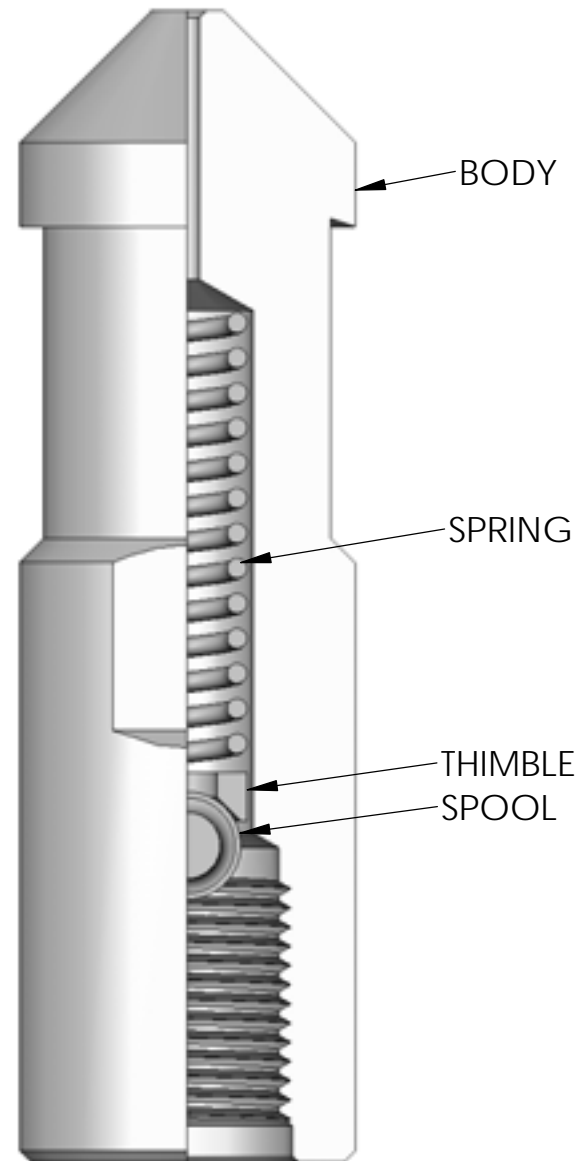
OTHER SIZES AVAILABLE ON REQUEST

SINGLE STRAND ROPE SOCKET

*Frederick's
Machine*

The Single Strand Rope Socket is the means used to attach single strand wireline with the wireline tool string. The spool type rope socket is recommended for use with .066"-.092" line.

BACK



SPECIFICATIONS

SIZE	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2 1/8"
FISHING NECK O.D.	0.688"	0.750"	1.000"	1.188"	1.375"	1.750"	1.750"	1.750"
MAX O.D.	0.750"	0.875"	1.000"	1.250"	1.500"	1.750"	1.875"	2.125"
THREAD CONNECTION	1/2"-13	1/2"-13	5/8"-11	15/16"-10	15/16"-10	1 1/16"-10	1 1/16"-10	1 1/16"-10
LENGTH	5.688"	5.688"	5.688"	6.188"	6.188"	7.000"	7.000"	7.000"

OTHER SIZES AVAILABLE ON REQUEST

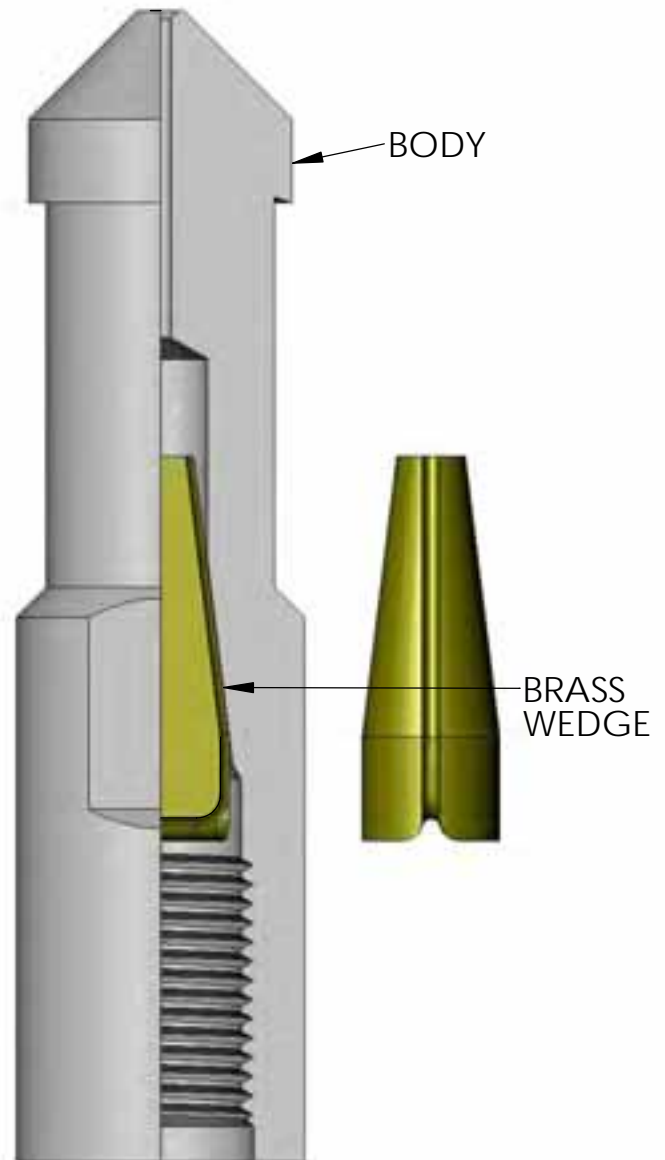
PAGE J-17

BRASS WEDGE ROPE SOCKET

*Frederick's
Machine*

The Brass Wedge Rope Socket is used as a means of connecting the wireline to the wireline tool string. The line is run through the body and around the brass wedge. With the line set in the provided groove of the brass wedge, the line and brass wedge are pulled tightly into the taper of the body. Recommended for use with .092"-.187" line.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 3/4"	1 7/8"
FISHINGNECK O.D.	1.188"	1.375"	1.750"	1.750"
MAX O.D.	1.250"	1.500"	1.750"	1.875"
THREAD CONNECTION	15/16"-10	15/16"-10	1 1/16"-10	1 1/16"-10
OVERALL LENGTH	5.250"	4.813"	5.125"	5.125"

OTHER SIZES AVAILABLE ON REQUEST

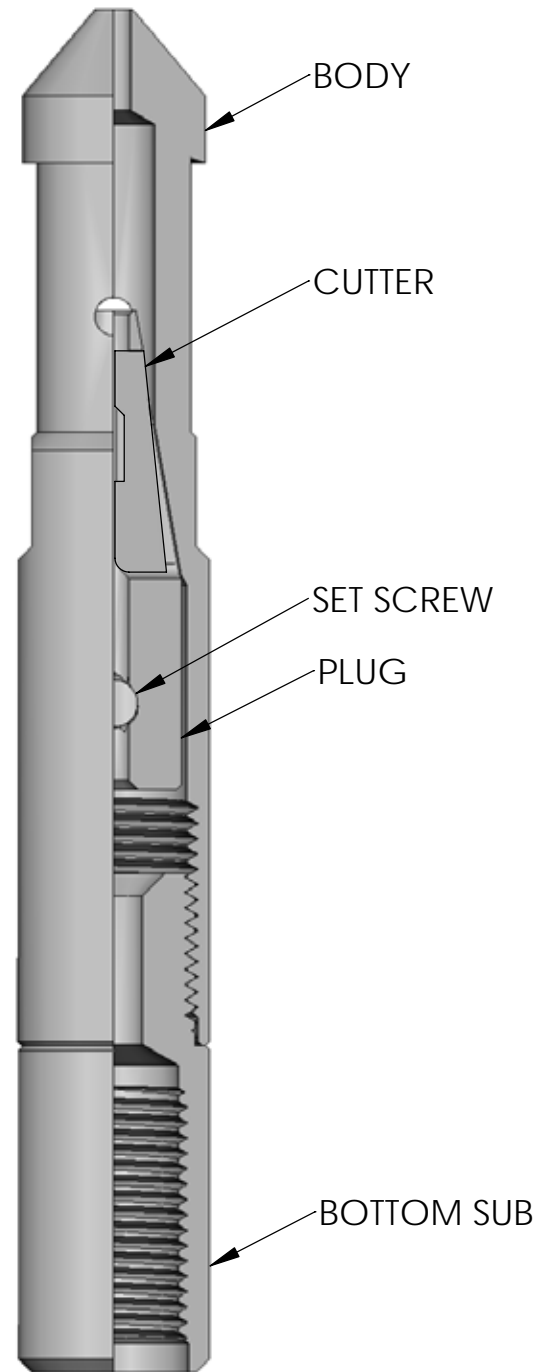
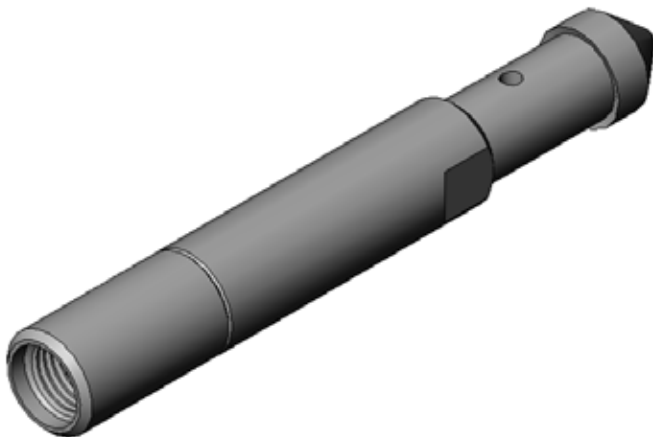
PAGE J-18

MULTI STRAND ROPE SOCKET



The Multi-Strand Rope Socket is the means used to attach multi-strand lines with the wireline tool string. The slip type rope socket is designed for use with small stranded lines up through 3/16" diameter.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 3/4"	1 7/8"
FISHINGNECK O.D.	1.188"	1.375"	1.750"	1.175"
MAX O.D.	1.250"	1.500"	1.750"	1.875"
THREAD CONNECTION	15/16"-10	15/16"-10	1 1/16"-10	1 1/16"-10
OVERALL LENGTH	8.750"	9.000"	9.188"	9.188"
SET SCREW	3/8"-16 X 5/16"	3/8"-16 X 5/16"	3/8"-16 X 5/16"	3/8"-16 X 5/16"

OTHER SIZES AVAILABLE ON REQUEST

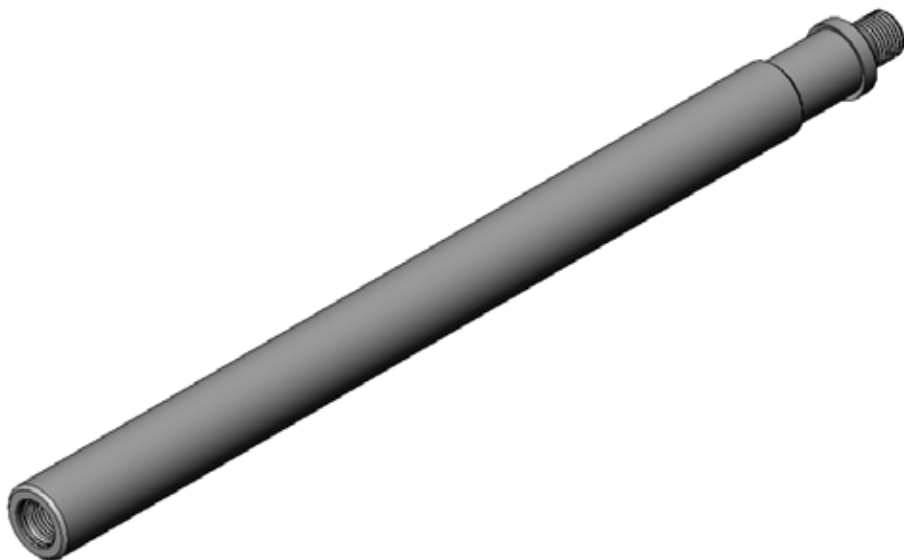
PAGE J-19

STEM



The Wireline Stem, also called a weight bar, is used to add weight to the wireline tool string to counteract the wellbore pressure allowing the easy descent of the tool string. It is also used to increase the effectiveness of jarring operations.

BACK



SPECIFICATIONS

SIZE	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	1 7/8"	2 1/8"
FISHINGNECK O.D.	0.688"	0.875"	1.188"	1.375"	1.750"	1.750"	1.750"
MAX O.D.	0.750"	1.000"	1.250"	1.500"	1.750"	1.750"	2.125"
PIN & BOX CONNECTIONS	1/2"-13	5/8"-11	15/16"-10	15/16"-10	1 1/16"-10	1 1/16"-10	1 1/16"-10
MADE UP LENGTH	2'	24.000"	24.000"	24.000"	24.000"	24.000"	24.000"
	3'	36.000"	36.000"	36.000"	36.000"	36.000"	36.000"
	5'	60.000"	60.000"	60.000"	60.000"	60.000"	60.000"

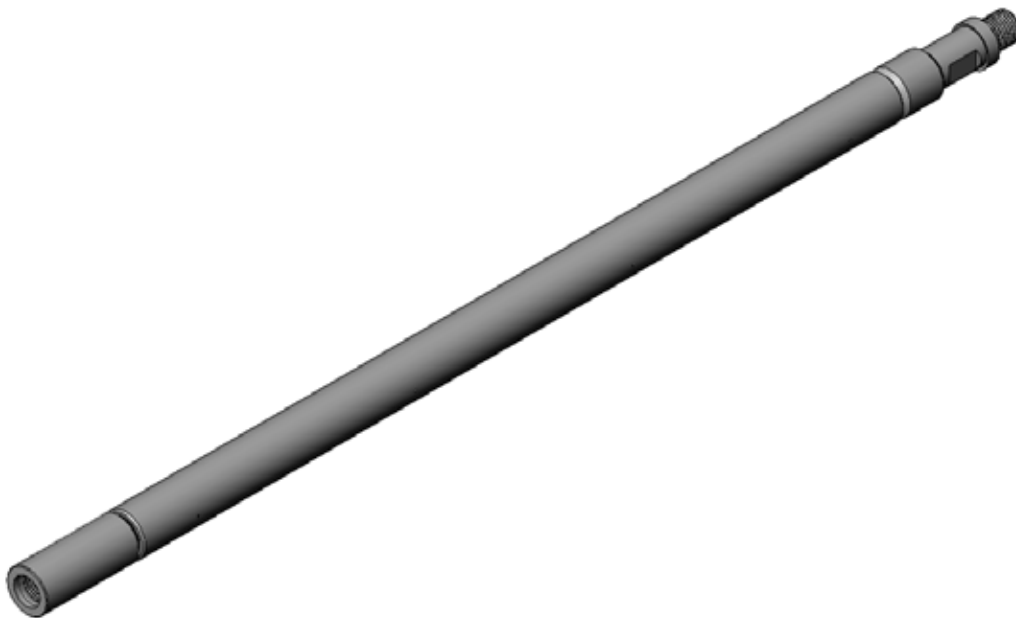
OTHER SIZES AVAILABLE ON REQUEST

LEADED STEM



The Wireline Stem, also called a weight bar, is used to add weight to the wireline tool string to counteract the wellbore pressure allowing the easy descent of the tool string. It is also used to increase the effectiveness of jarring operations.

BACK



SPECIFICATIONS

SIZE	1"	1 1/4"	1 1/2"	1"	1 7/8"
FISHING NECK O.D.	1.000"	1.188"	1.375"	1.375"	1.000"
MAX O.D.	1.000"	1.250"	1.500"	1.750"	1.875"
PIN & BOX CONNECTIONS	5/8"-11	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	2'	24.000"	24.000"	24.000"	24.000"
	3'	36.000"	36.000"	36.000"	36.000"
	5'	60.000"	60.000"	60.000"	60.000"

OTHER SIZES AVAILABLE ON REQUEST

ROLLER STEM



The Roller Stem is incorporated into the wireline tool string to facilitate maneuverability within the tubing. The rollers on the stem also allow the tool string to move easier through deviated tubing. The wheels are available in steel and teflon.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 3/4"	1 7/8"
FISHING NECK O.D.	1.188"	1.375"	1.750"	1.750"
MAX O.D.	1.250"	1.500"	1.750"	1.875"
PIN & BOX CONNECTIONS	15/16-10"	15/16-10"	1 1/16-10"	1 1/16-10"
ROLLERS O.D.	1.438"	1.844"	2.625"	2.625"
ROLL PIN	3/8"x1 1/4"	3/8"x1 1/2"	3/8"x1 3/4"	3/8"x1 3/4"
MADE UP LENGTH	2'	24.000"	24.000"	24.000"
	3'	36.000"	36.000"	36.000"
	5'	60.000"	60.000"	60.000"

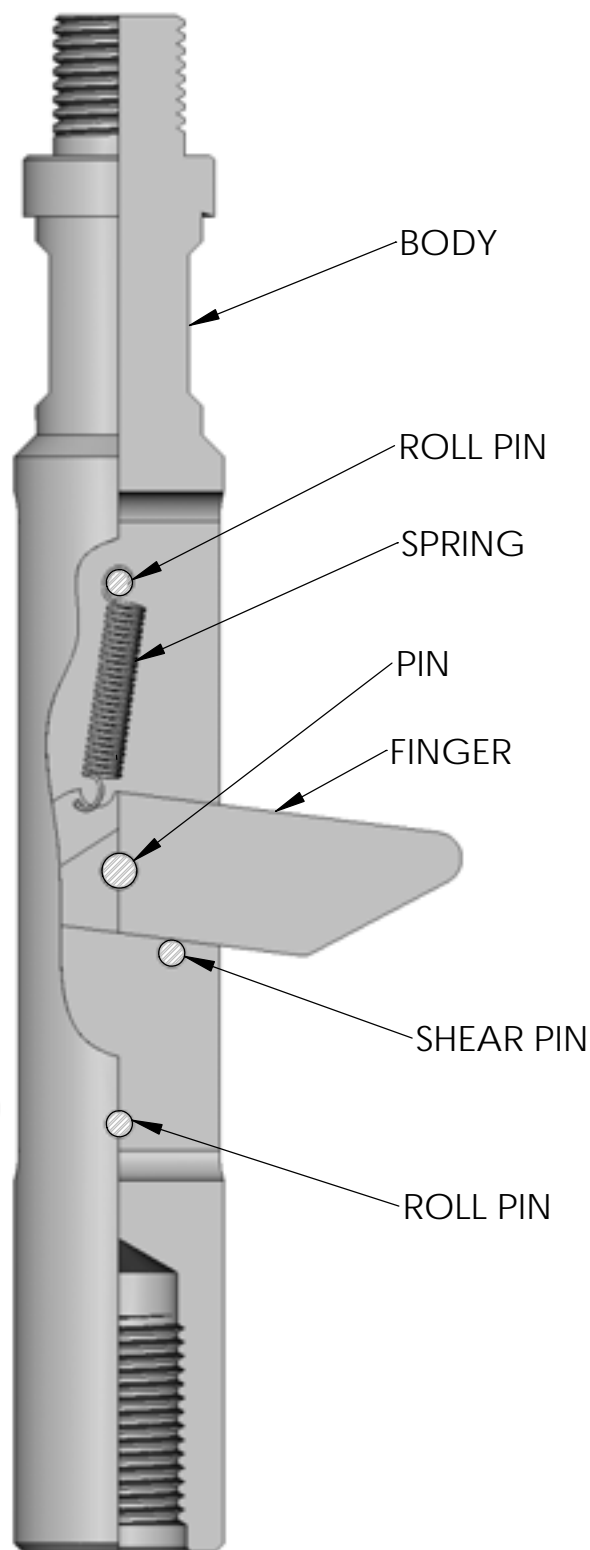
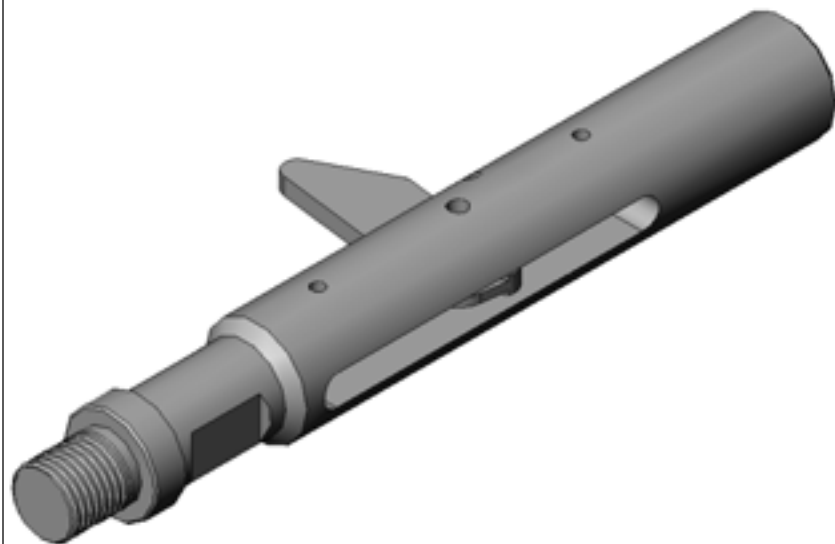
OTHER SIZES AVAILABLE ON REQUEST

TUBING END LOCATOR

*Frederick's
Machine*

The Tubing End Locator is used to determine the depth of the tubing through the use of a spring loaded finger. The spring loaded finger catches the end of the tubing when pulled upward, registering a reading on the surface weight indicator.

BACK



SPECIFICATIONS

SIZE	1 1/4", 1 1/2"	2", 2 1/2"	3"
FISHING NECK O.D.	1.188"	1.375"	1.375"
MAX O.D.	1.250"	1.750"	2.500"
PIN CONNECTION	15/16"-10	15/16" - 10	15/16" - 10
MADE UP LENGTH	10.625"	10.438"	10.438"
SHEAR PIN	3/16" X 1 1/4"	3/16" X 1 3/4"	3/16" X 1 3/4"

OTHER SIZES AVAILABLE ON REQUEST

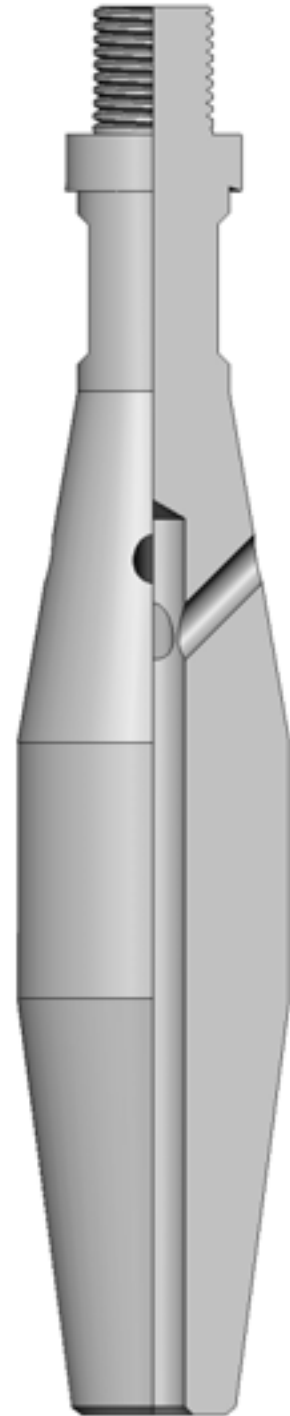
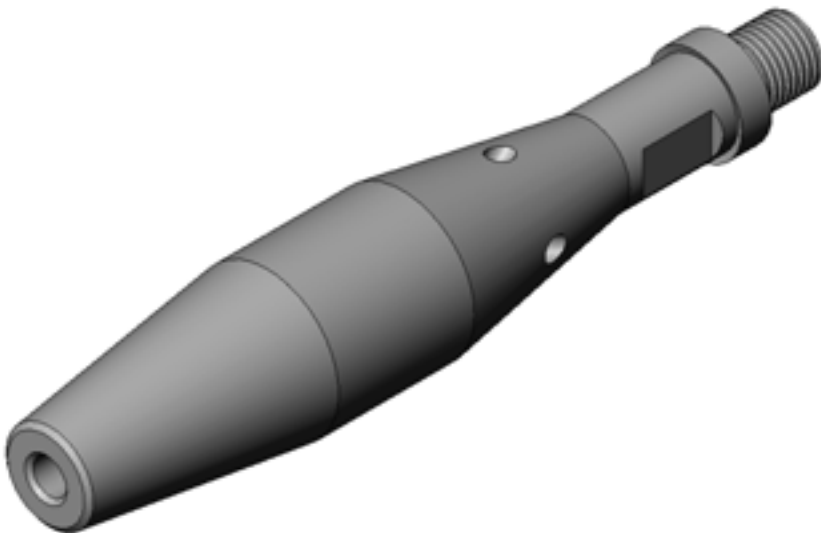
PAGE J-23

TUBING SWEDGE

*Frederick's
Machine*

The Tubing Swedge is used to bend out irregular places and other obstructions within the tubing string. It is equipped with a central bore and angled fluid ports for ample fluid bypass.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHING NECK O.D.	1.000"	1.188"	1.375"	1.375"	1.750"
MAX O.D.	1.230"	1.531"	1.906"	2.343"	3.870"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	6.250"	7.000"	8.000"	9.250"	9.250"

OTHER SIZES AVAILABLE ON REQUEST

PAGE J-24



Section K

Pulling Tools

Description	Size
GG Pulling Tool	2"X1" to 3"X 2 5/16"
GG Pulling Tool for BK Latch	Assembly
GS Pulling Tool	1 1/4" to 7" Assembly
GS Pulling Tool Core Extension	2" to 3" Assembly
GS Pinning Tool	2" to 3" Assembly
GR Adapter	1 1/2" to 3" Assembly
JD & JU Pulling Tool	1 1/4" to 4" Assy.
PRS Pulling Tool	2" to 5" Assembly
R Pulling Tool	1 1/4" to 4" Assy.
S Pulling Tool	1 3/16" to 4" Assy.
SB Heavy Wall Pulling Tool	2" Assembly
SB Core Wrench Combination	2 & 2 1/2"
2 Legged Pulling Tool	2" to 3" Assembly
3 Legged Pulling Tool	2" to 3" Assembly
Pump In Sub with Weco Union	2 1/2" ID 5,000 psi to 3" ID 10,000 psi

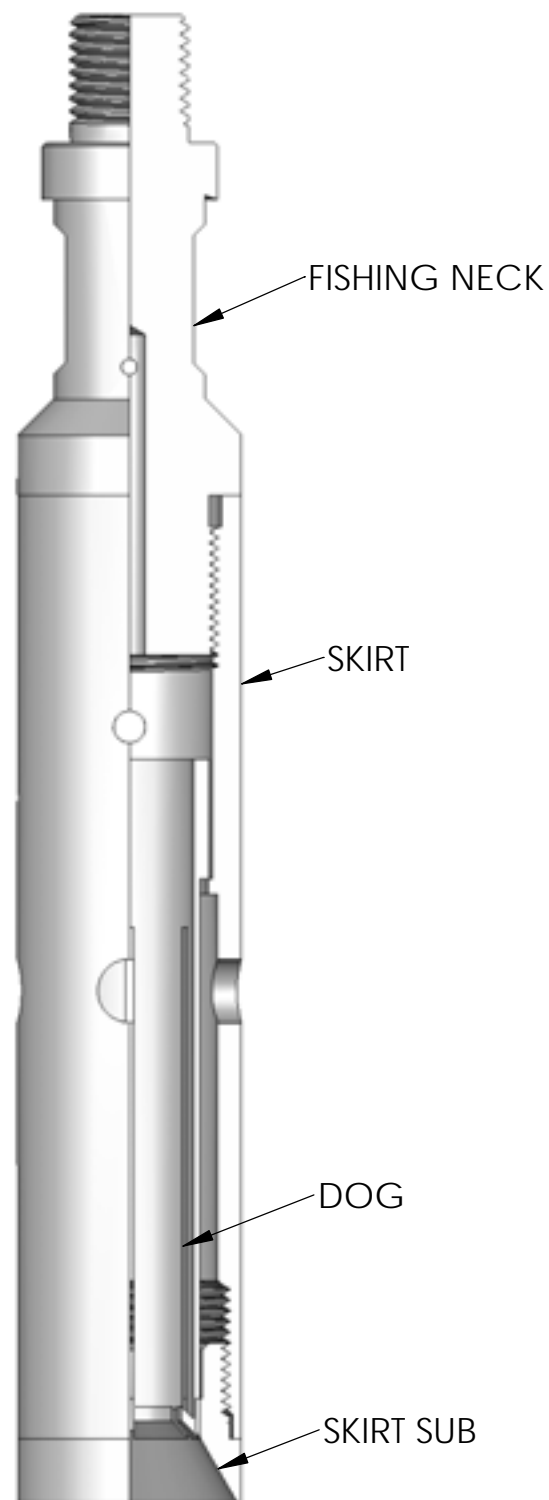
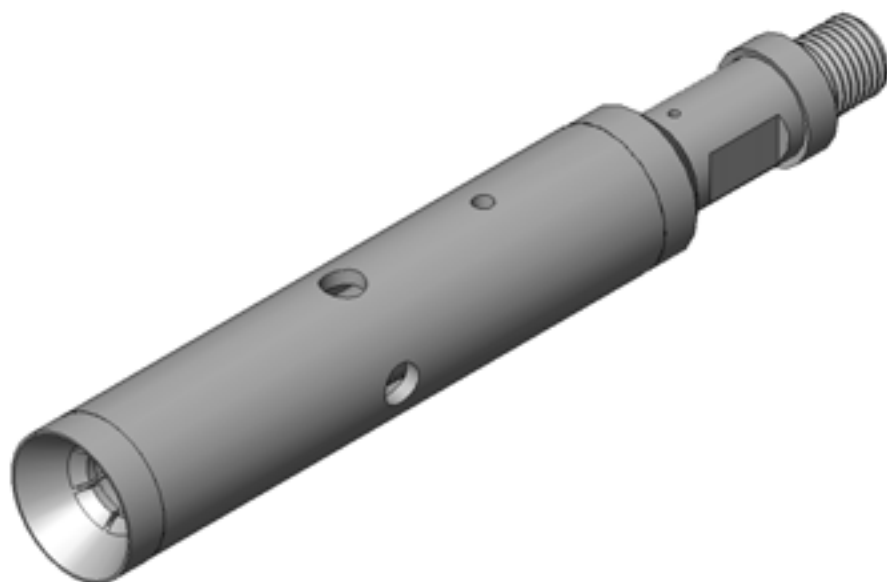
[GO BACK HOME](#)

GG PULLING TOOL

*Frederick's
Machine*

The FMS "GG" Pulling Tool is a nonreleasable pulling tool primarily used to extract prongs from "PS" and "PN" Plugs.

BACK



SPECIFICATIONS

SIZE	2" X 1"	2" X 1 3/16"	2" X 1 3/8"
FISHINGNECK O.D.	1.375"	1.375"	1.375"
MAX O.D.	1.750"	1.750"	1.843"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10
MADE UP LENGTH	10.813"	8.813"	9.563"
GRABS (FISHINGNECK SIZE)	1" FN	1 3/16" FN	1 3/8" FN

OTHER SIZES AVAILABLE ON REQUEST

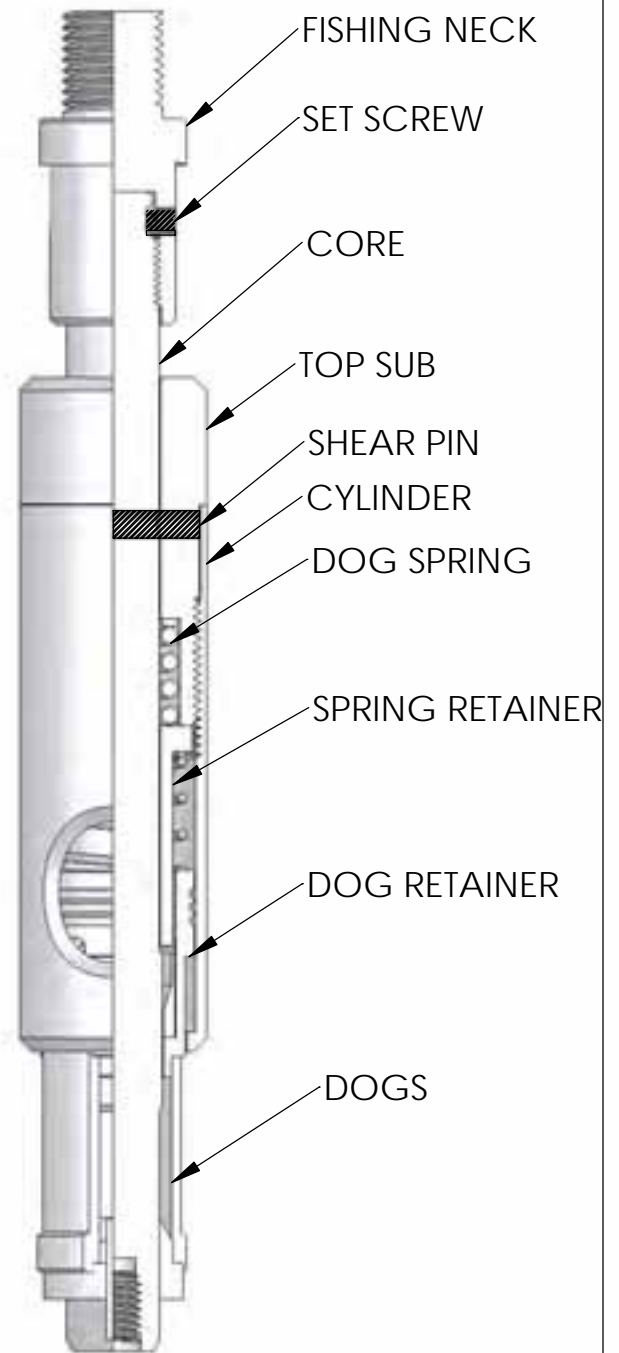
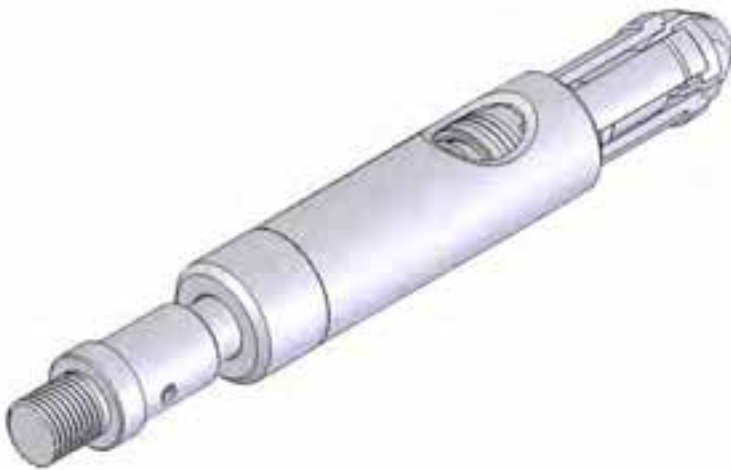
PAGE K-1

GS PULLING TOOL



The FMS "GS" Running/Pulling Tool is a shear down releasing tool used to run or pull subsurface devices which have internal fishing necks.

BACK



SPECIFICATIONS

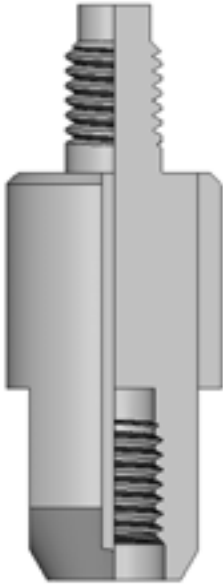
SIZE	1 1/2"	2"	2 1/2"	3"
FISHNECK O.D.	1.188"	1.375"	1.750"	2.313"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MAX O.D.	1.469"	1.750"	2.160"	2.719"
BOTTOM CONNECTION	1/2"-13	1/2"-13	5/8"-11	5/8"-11
SHEAR PIN	3/16" X 1 7/32"	1/4" X 1 39/64"	1/4" X 1 31/32"	1/4" X 2 31/64"
FISHINGNECK ENGAGES	1.062"	1.375"	1.812"	2.313"
REACH	1.656"	1.687"	1.625"	1.651"
MADE UP LENGTH	10.750"	11.625"	11.875"	12.125"
SET SCREW	1/4"-20 X 1/4"	1/4"-20 X 1/4"	1/4"-20 X 1/4"	1/4"-20 X 5/16"

OTHER SIZES AVAILABLE ON REQUEST

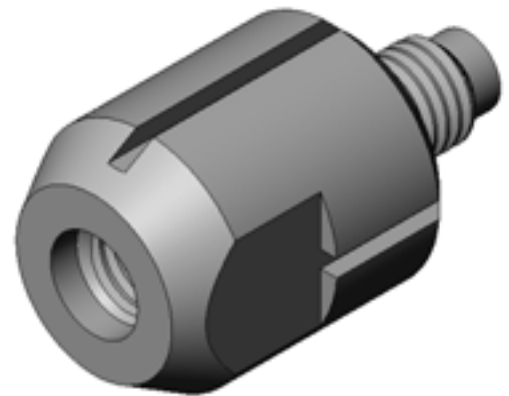
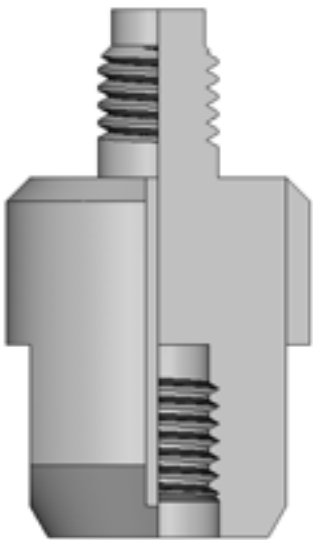
PAGE K-2

GS PULLING TOOL CORE EXTENSION

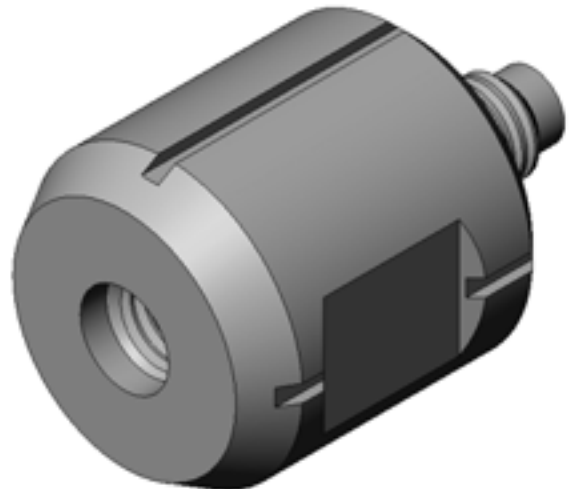
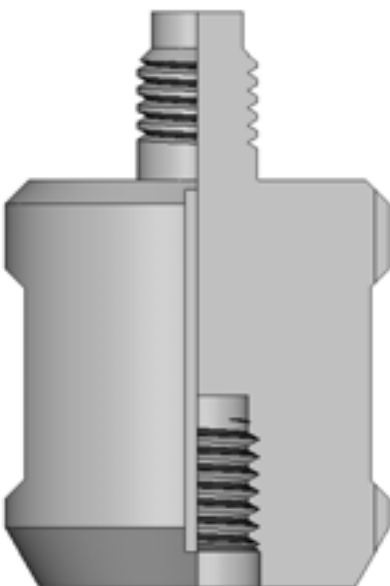
*Frederick's
Machine*



2" ASSEMBLY



2 1/2" ASSEMBLY



BACK

3" ASSEMBLY

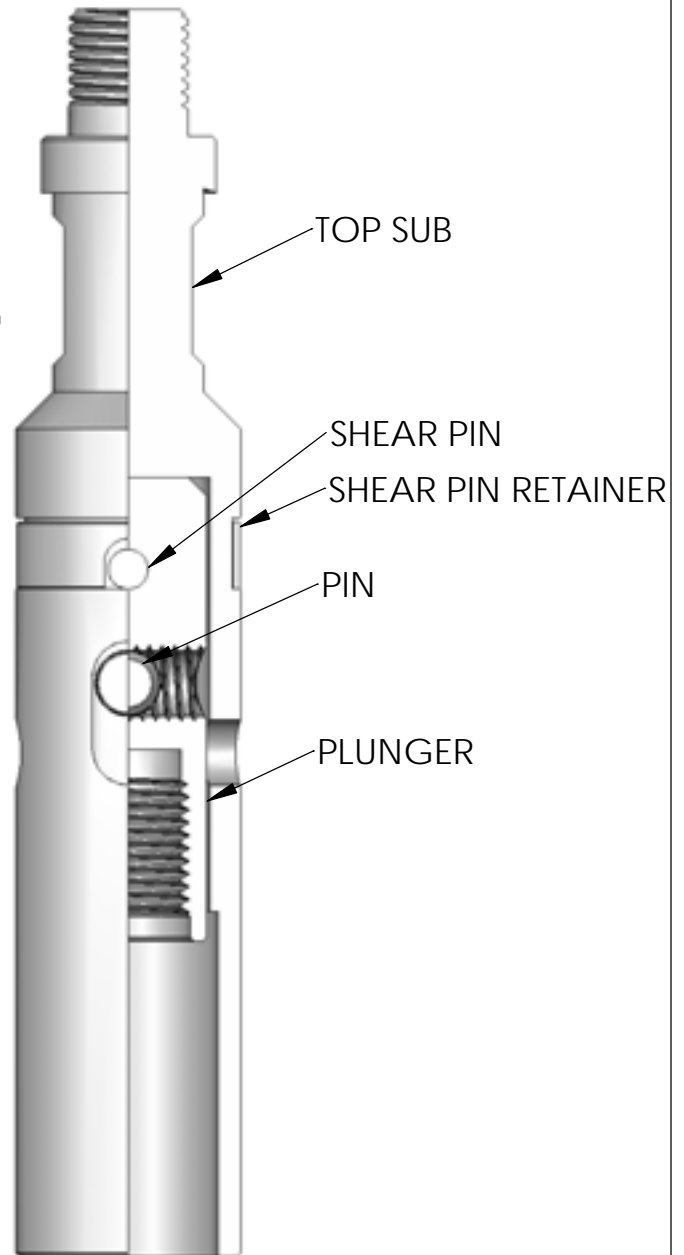
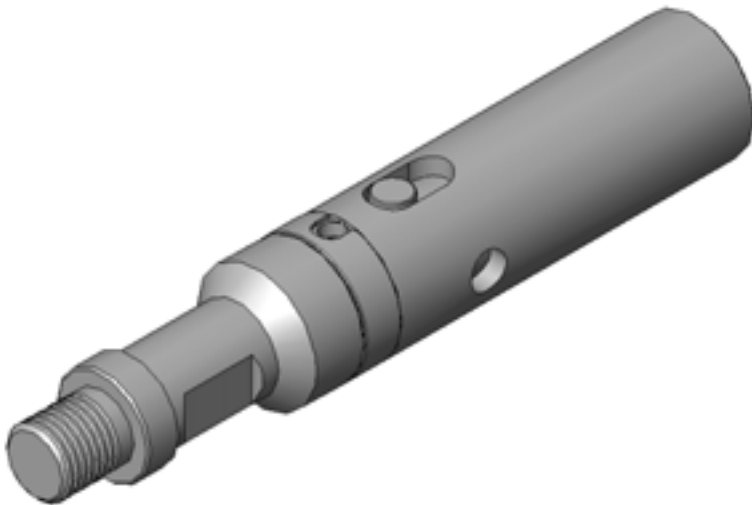
OTHER SIZES AVAILABLE ON REQUEST

GR ADAPTER



The FMS "GR" Adapter is used in conjunction with the "GS" Pulling Tool to convert it into a "jar up to released" type tool.

BACK



SPECIFICATIONS

SIZE	1 1/2"	2"	2 1/2"	3", 4"
FISHINGNECK O.D.	1.188"	1.375"	1.750"	2.313"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MAX O.D.	1.460"	1.813"	2.125"	2.725"
SHEAR PIN	1/4" X 1 5/16"	5/16" X 1 11/16"	5/16" X 2"	3/8" X 2 1/2"
BOX CONNECTION	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	8.375"	8.375"	8.875"	9.313"

OTHER SIZES AVAILABLE ON REQUEST

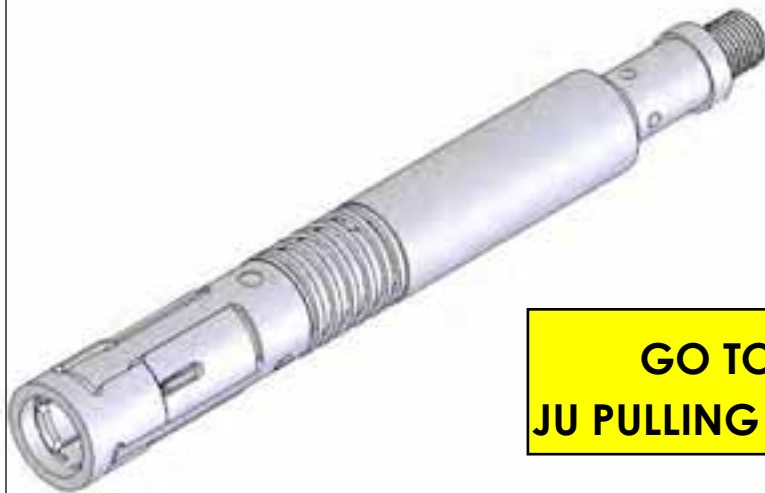
PAGE K-4

JD PULLING TOOL

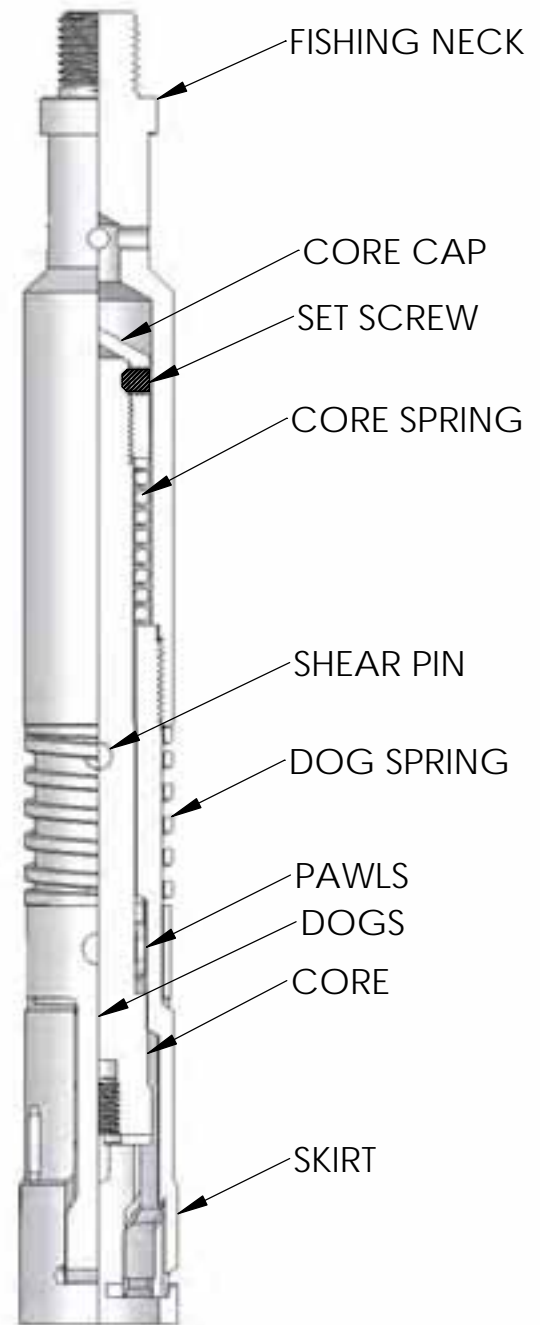


The FMS "J" Series Pulling Tool, through minor component changes, is a shear down or shear up releasing tool used in pulling subsurface devices which have external fishing necks. To accommodate the many different types of devices, the core of the "J" Series tools is made in various lengths and can be changed in the field.

BACK



**GO TO
JU PULLING TOOL**



SPECIFICATIONS

SIZE	1 1/4"	1 3/8"	1 1/2"	1 5/8"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.188"	1.188"	1.188"	1.188"	1.375"	1.375"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10
MAX O.D.	1.290"	1.375"	1.422"	1.625"	1.859"	2.250"	2.796"
BOTTOM CONNECTION	1/4"-20	1/4"-20	1/2"-13	1/2"-13	1/2"-13	1/2"-13	1/2"-13
SHEAR PIN	3/16" X 1 9/64"	3/16" X 1 9/64"	3/16" X 1 11/64"	3/16" X 1 11/64"	3/16" X 1 31/64"	3/16" X 1 27/32"	3/16" X 1 11/32"
FISHINGNECK ENGAGES	0.875"	1.000"	1.187"	1.187"	1.375"	1.750"	2.313"
REACH	JDC-1.937" JDS-2.688"	JDC-1.875" JDS-2.625"	JDC-1.093" JDS-1.843"	JDC-1.093" JDS-1.843"	JDC-1.437" JDS-2.250"	JDC-1.312" JDS-2.187"	JDC-1.437" JDS-2.125"
MADE UP LENGTH	12.063"	12.156"	13.063"	13.000"	14.391"	14.891"	15.000"
SET SCREW	NONE	NONE	1/4"-20 X 3/16"	1/4"-20 X 3/16"	5/16"-18 X 1/4"	5/16"-16 X 1/4"	3/8"-16 X 3/8"

OTHER SIZES AVAILABLE ON REQUEST

PAGE K-5

JU PULLING TOOL

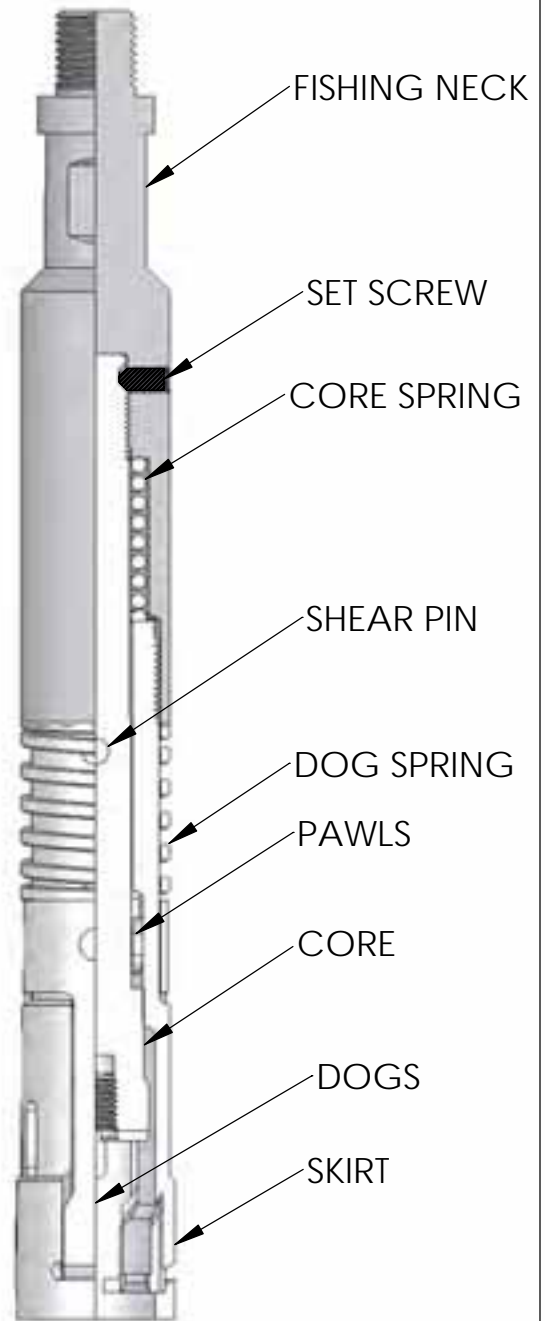
*Frederick's
Machine*

THE FMS "J" Series Pulling Tool, through minor component changes, is a shear down or shear up releasing tool used in pulling subsurface devices which have external fishing necks. To accommodate the many different types of devices, the core of the "J" Series tool is made in various lengths and can be changed in the field.

BACK



**GO TO
JD PULLING TOOL**



SPECIFICATIONS

SIZE	1 1/4"	1 3/8"	1 1/2"	1 5/8"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.188"	1.188"	1.188"	1.188"	1.375"	1.375"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10
MAX O.D.	1.290"	1.375"	1.422"	1.625"	1.859"	2.250"	2.797"
BOTTOM CONNECTION	1/4"-20	1/4"-20	1/2"-13	1/2"-13	1/2"-13	1/2"-13	5/8"-11
SHEAR PIN	3/16" X 1 9/64	3/16" X 1 9/64	3/16" X 1 11/64	3/16" X 1 11/64	3/16" X 1 31/64	3/16" X 1 27/32	3/16" X 2 21/64"
FISHINGNECK ENGAGES	.0875"	1.000"	1.187"	1.187"	1.375"	1.750"	2.313"
REACH	JUC-1.937" JUS-2.688"	JUC-1.000" JUS-2.625"	JUC-1.093" JUS-1.843"	JUC-1.093" JUS-1.843"	JUC-1.437" JUS-2.125"	JUC-1.312" JUS-2.187"	JUC-1.437" JUS-2.125"
MADE UP LENGTH	12.063"	12.156"	13.063"	13.000"	14.328"	14.875"	14.750"
SET SCREW	1/4" - 20 X 3/8"	1/4" - 20 X 3/8"	1/4" - 20 X 3/8"	1/4" - 20 X 3/8"	3/8" - 18 X 1/2"	7/16" - 16 X 1/2"	7/16" - 14 X 1/2"

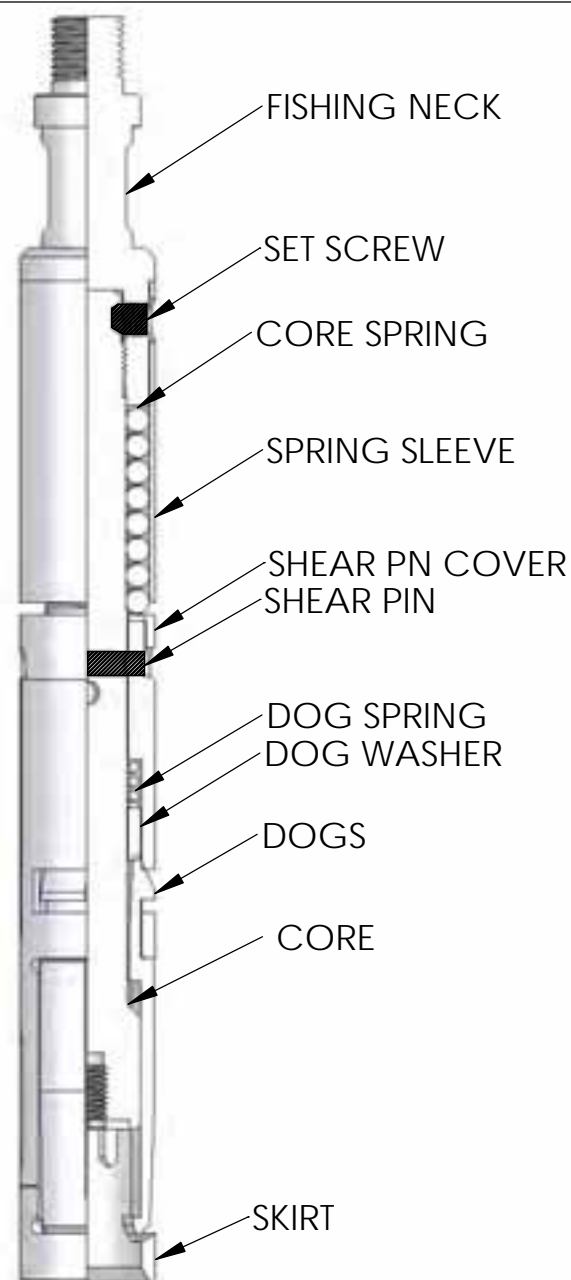
OTHER SIZES AVAILABLE ON REQUEST

R PULLING TOOL

*Frederick's
Machine*

The FMS "R" Series Pulling Tool is a shear up releasing tool used in pulling subsurface devices which have external fishing necks. To accommodate the many different types of devices, the core on the "R" Series Pulling Tool is made in various lengths and can be changed in the field.

BACK



SPECIFICATIONS

SIZE		1 3/16"	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.		0.875"	1.000"	1.188"	1.375"	1.375"	2.313"
PIN CONNECTION		5/8"-11	5/8"-11	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MAX O.D.		1.180"	1.215"	1.425"	1.765"	2.170"	2.742"
BOTTOM CONNECTION		7/16"-14	3/8"-16	3/8"-16	1/2"-13	1/2"-13	5/8"-11
SHEAR PIN		3/16" X 63/64"	3/16" X 1"	1/4" X 1 3/16"	5/16" X 1 15/32"	5/16" X 1 53/64"	3/8" X 2 25/64"
FISHINGNECK ENGAGES		0.875"	1.000"	1.188"	1.375"	1.750"	2.313"
REACH	RB	1.296"	1.218"	1.265"	1.219"	1.203"	1.297"
	RJ	*****	1.843"	2.547"	2.547"	2.547"	2.609"
	RS	*****	2.125"	1.797"	1.984"	1.984"	2.190"
MADE UP LENGTH		12.109"	12.375"	11.500"	12.968"	13.125"	15.000"
SET SCREW		1/4"-20 X 1/4"	1/4"-20 X 1/4"	5/8"-18 X 5/16"	7/16"-14 X 1/4"	3/8"-16 X 3/8"	7/16"-14 X 3/8"

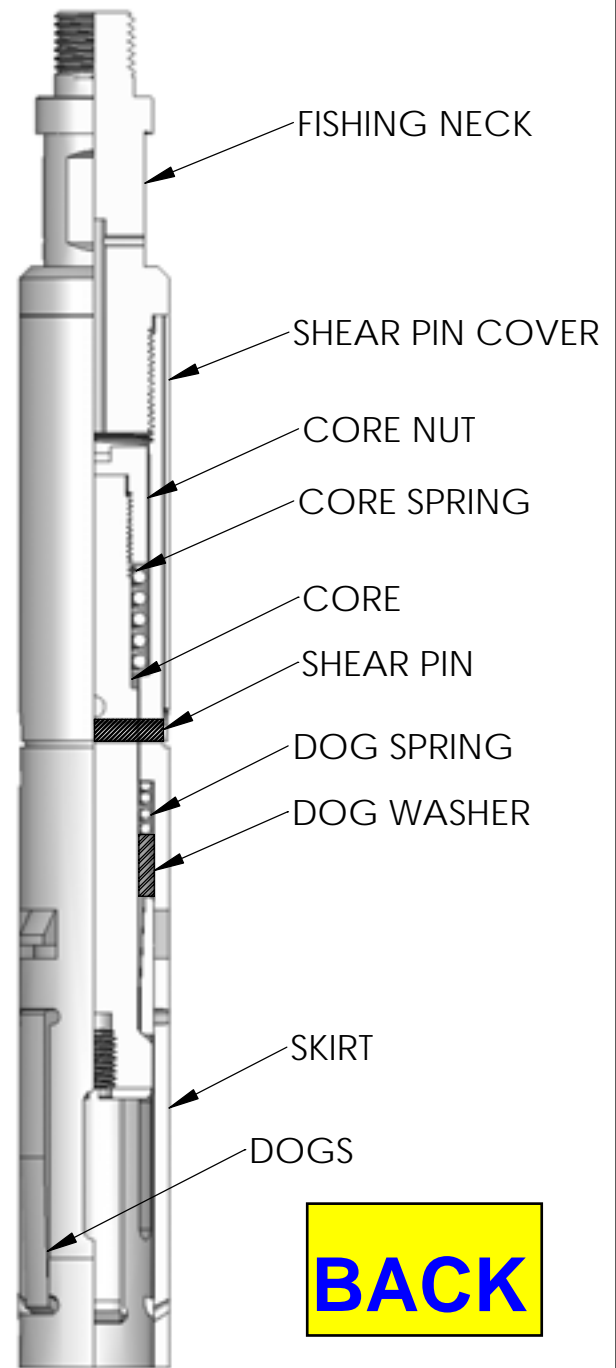
OTHER SIZES AVAILABLE ON REQUEST

PAGE K-7

S PULLING TOOL



The FMS "S" Series Pulling Tool is a shear down releasing tool used in pulling subsurface devices which have external fishing necks. To accommodate the many different types of devices, the core on the "S" Series Pulling Tool is made in various lengths and can be changed in the field.



SPECIFICATIONS - SM

SIZE	1 3/16"	1 1/2"	2"
FISHINGNECK O.D.	1.188"	1.375"	1.375"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10
MAX O.D.	1.188"	1.375"	1.765"
BOTTOM CONNECTION	3/8"-16	3/8"-16	1/2"-13
SHEAR PIN	3/16" X 1 3/32"	3/16" X 1 3/32"	5/16" X 1 39/64"
FISHINGNECK ENGAGES	0.875"	0.875"	1.375"
REACH	1.680"	1.578"	1.640"
MADE UP LENGTH	13.000"	12.859"	14.750"

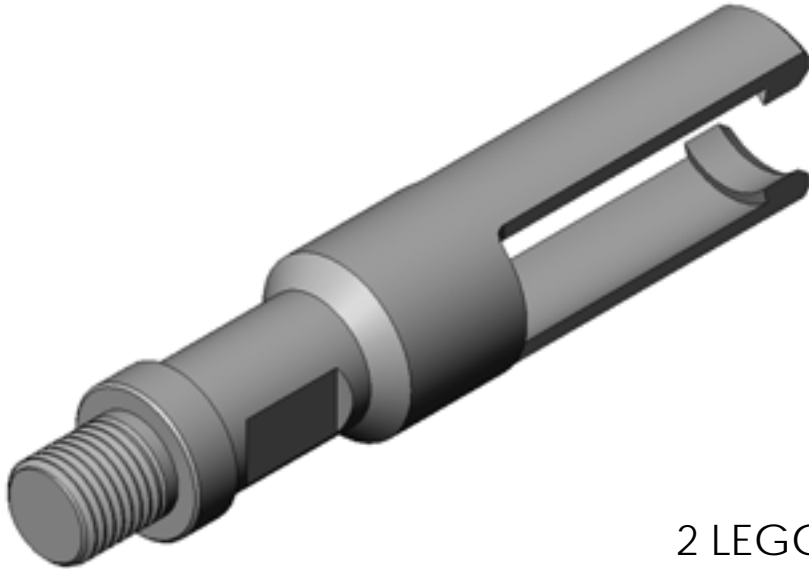
SPECIFICATIONS - SB/SS

SIZE	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.000"	1.188"	1.375"	1.375"	2.313"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MAX O.D.	1.219"	1.418"	1.765"	2.175"	2.740"
BOTTOM CONNECTION	3/8"-16	3/8"-16	1/2"-13	1/2"-13	5/8"-11
SHEAR PIN	3/16" X 1 3/32"	3/16" X 1 17/64"	1/4" X 1 39/64"	1/4" X 1 63/64"	5/16" X 2 1/8"
FISHINGNECK ENGAGES	1.000"	1.188"	1.375"	1.750"	2.313"
REACH	SB	1.280"	1.297"	1.219"	1.281"
	SS	*****	1.780"	2.031"	2.000"
MADE UP LENGTH		13.750"	12.469"	14.938"	15.328"

OTHER SIZES AVAILABLE ON REQUEST

2 LEGGED / 3 LEGGED PULLING TOOLS

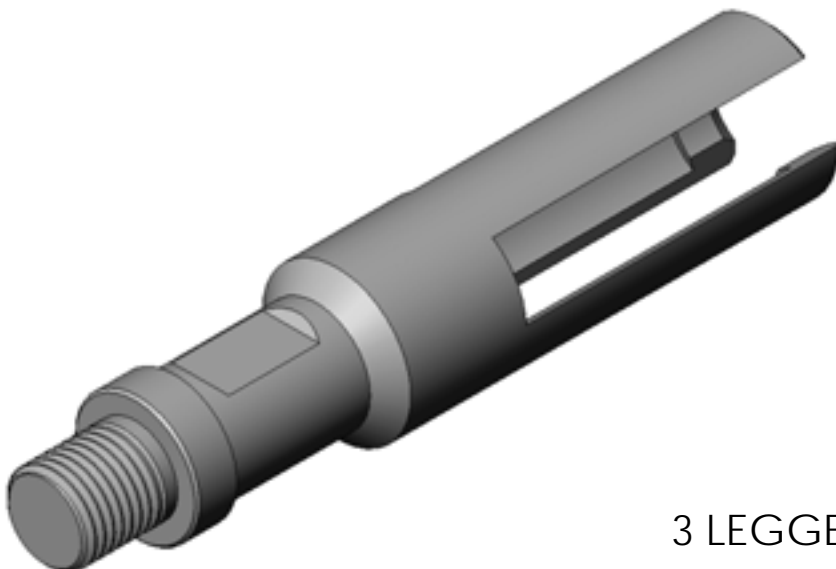
*Frederick's
Machine*



2 LEGGED



BACK



3 LEGGED





Section L

Running Tools

Description	Size
Running Tools	Collar Stop JK GA-2 JC-3 RK-1
C-1 Running Tool	2" to 4 " Assembly
D Running Tool	2" to 3" Assembly
D Running Tool (collet type)	2" to 3" Assembly
D Running Tool (for packing type Rec)	2" to 3" Assy
DB Running Tool	2" & 2 1/2" Assy.
G Stop Running Tool	2" to 3" Assembly
H Running Tool	2" to 3" Assembly
J Running Tool	1 1/2" to 4" Assy.
PS Running Tool	1 1/2" to 4" Assy.
T Running Tool	2" to 3" Assembly
W Running Tool	1 1/2" to 4" Assy.
Sidewall Cutter Running Tool	1 3/4" to 3" Assy
FMSR Running	1.710" to 3.688" Assy
FMSX Running	1.5 " to 3.813" Assy.
MM Spacer Bar	Assembly

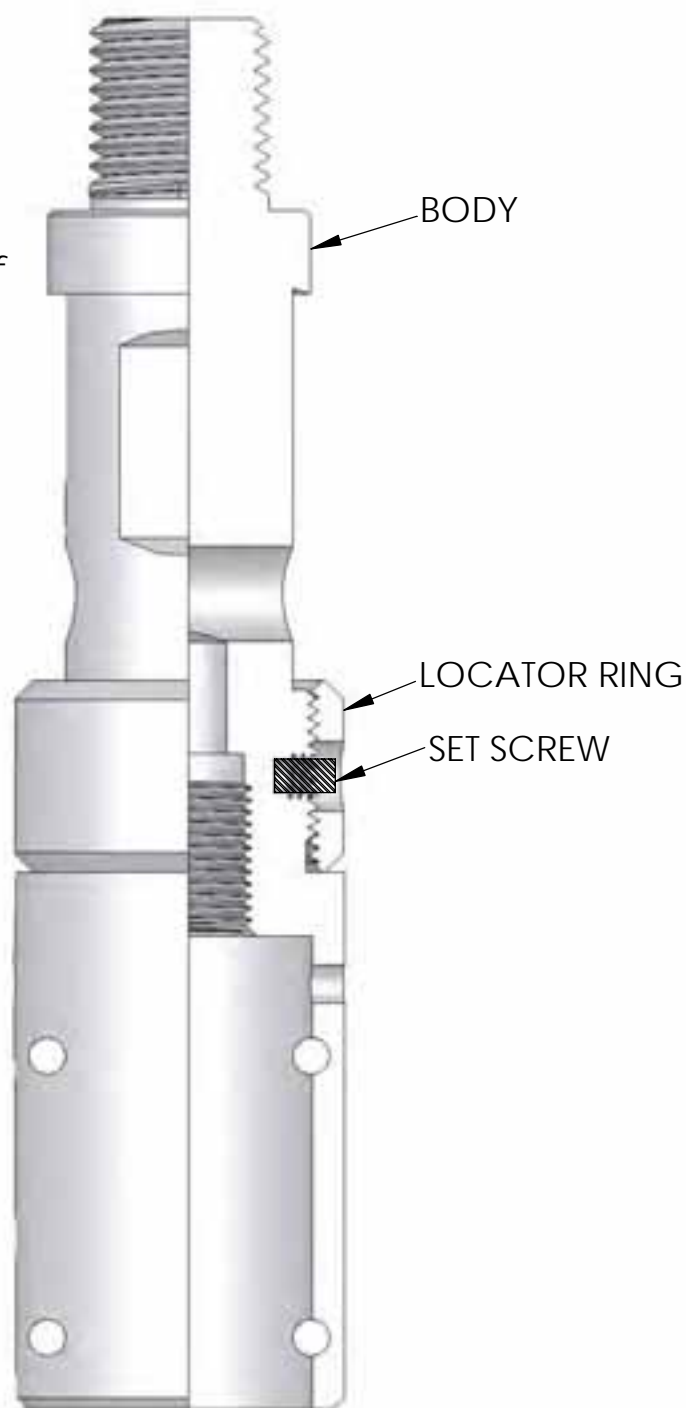
GO BACK HOME

C-1 RUNNING TOOL

*Frederick's
Machine*

The C-1 Running Tool is capable of running and landing several types of Backer Style Locks and Plugs.

BACK



SPECIFICATIONS

SIZE	1 1/2" , 1 3/4"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.188"	1.375"	1.750"	2.313"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	5.875"	6.250"	5.875"	5.750"
SET SCREW	1/4"-20 X 3/8"	1/4"-20 X 3/8"	1/4"-20 X 3/8"	1/4"-20 X 3/8"
SHEAR PINS	1/8" X 1 3/8"	3/16" X 1 11/16"	3/16" X 2 1/8"	3/16" X 2 5/8"

OTHER SIZES AVAILABLE ON REQUEST

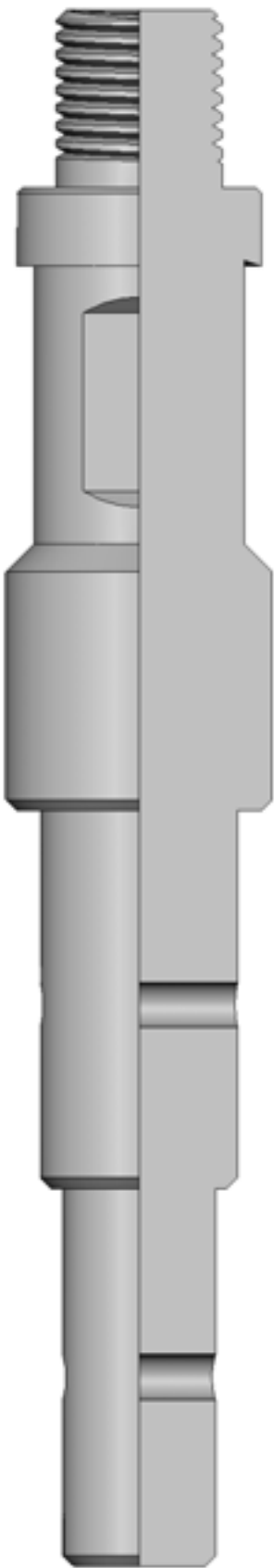
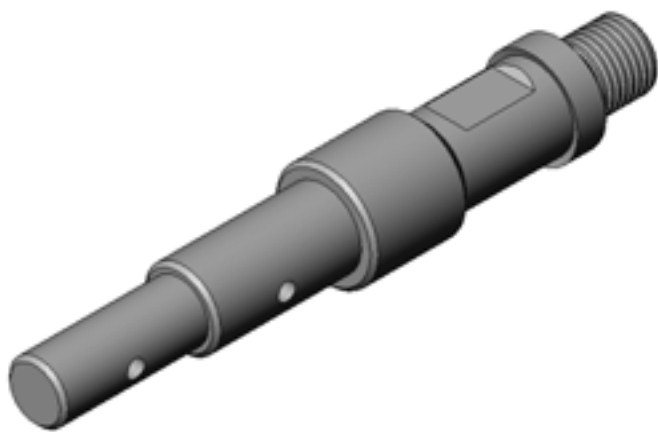
PAGE L-1

COLLAR STOP RUNNING TOOL



The Type F Collar Stop Running Tool is used to set the Type F Collar Stop.

BACK



SPECIFICATIONS		
SIZE	2", 2 1/2"	3"
FISHINGNECK O.D.	1.375"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10
MAX O.D.	1.500"	2.000"
STEEL PIN	2": 1/4" X 1 3/16" 2 1/2": 1/4" X 1 1/2"	1/4" X 2"

OTHER SIZES AVAILABLE ON REQUEST

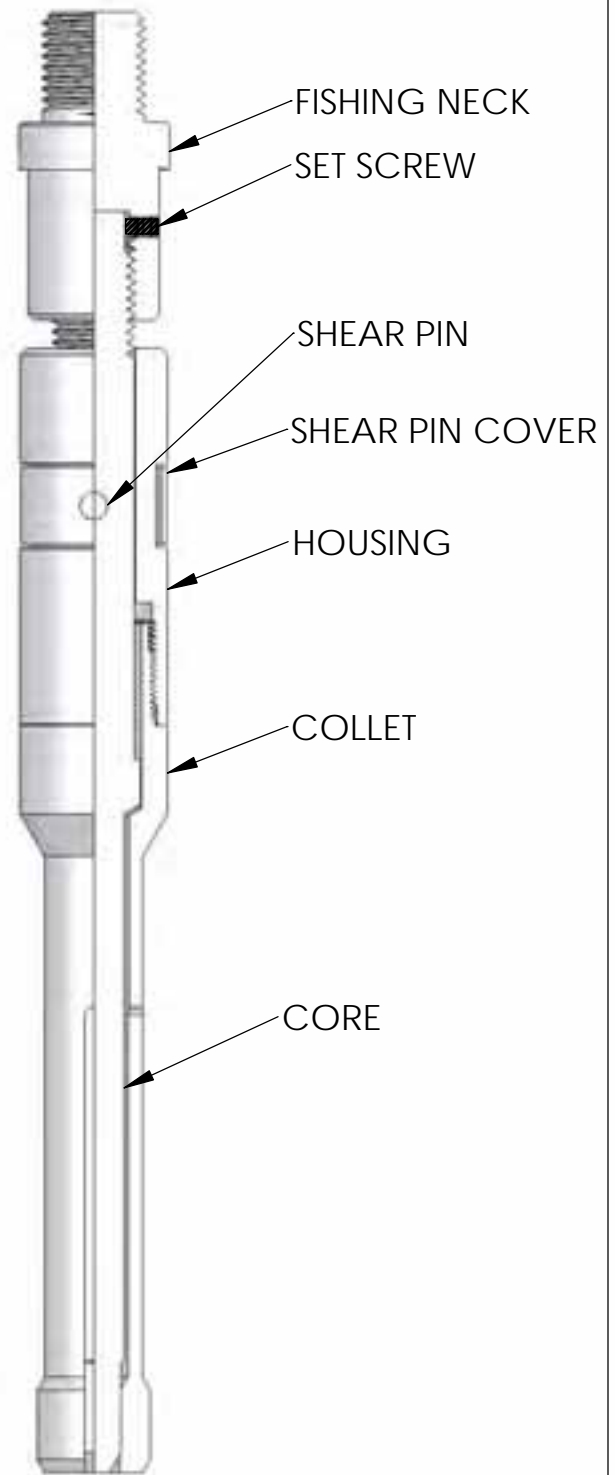
PART L-2

D RUNNING TOOL (COLLET TYPE)

*Frederick's
Machine*

The FMS "D" Running tool is used to run the "D" Lock and/or "DD" Bridge Plug.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"	3"
FISHINGNECK O.D.	1.375"	1.750"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	1 1/16"-10
MAX O.D.	1.340"	1.750"	2.125"
MADE UP LENGTH	12.500"	12.906"	12.875"
SHEAR PIN	1/4" X 1 3/16"	1/4" X 1 5/8"	1/4" X 2"
SET SCREW	1/4"-20 X 1/4"	1/4"-20 X 1/4"	1/4"-20 X 1/4"

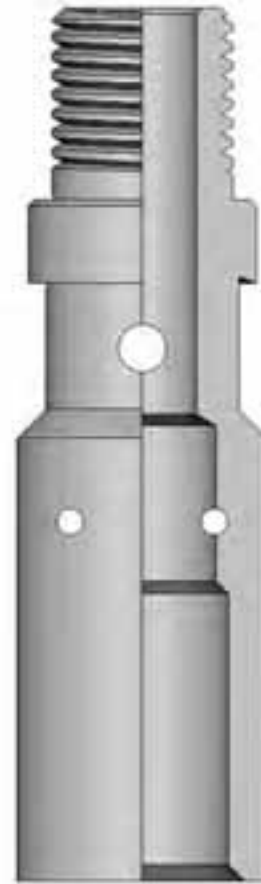
OTHER SIZES AVAILABLE ON REQUEST

PAGE L-3

JK RUNNING TOOL

*Frederick's
Machine*

The JK Running Tool, in conjunction with a kickover tool, is used to install the BK and BK-2 Latches in side pocket mandrels.



BACK

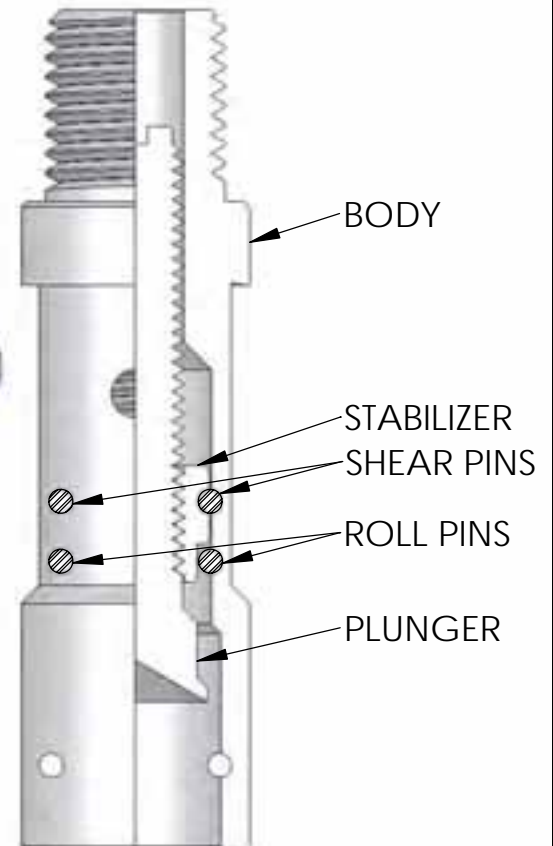
SPECIFICATIONS

FISHINGNECK O.D.	1.188"
PIN CONNECTION	15/16"-10
MADE UP LENGTH	3.550"
SHEAR PINS	1/8" X 1 1/8"
MAX O.D.	1.300"

GA-2 RUNNING TOOL

*Frederick's
Machine*

The GA-2 Running Tool is used in conjunction with the L or K Kickover Tool to install 1" valves into side pocket mandrels.



SPECIFICATIONS

FISHINGNECK O.D.	1.188"
PIN CONNECTION	15/16"-10
MADE UP LENGTH	3.375"
ROLL PINS	1/8" X 7/8"
SHEAR PINS	1/8" X 7/8"
MAX O.D.	1.188"

OTHER SIZES AVAILABLE ON REQUEST

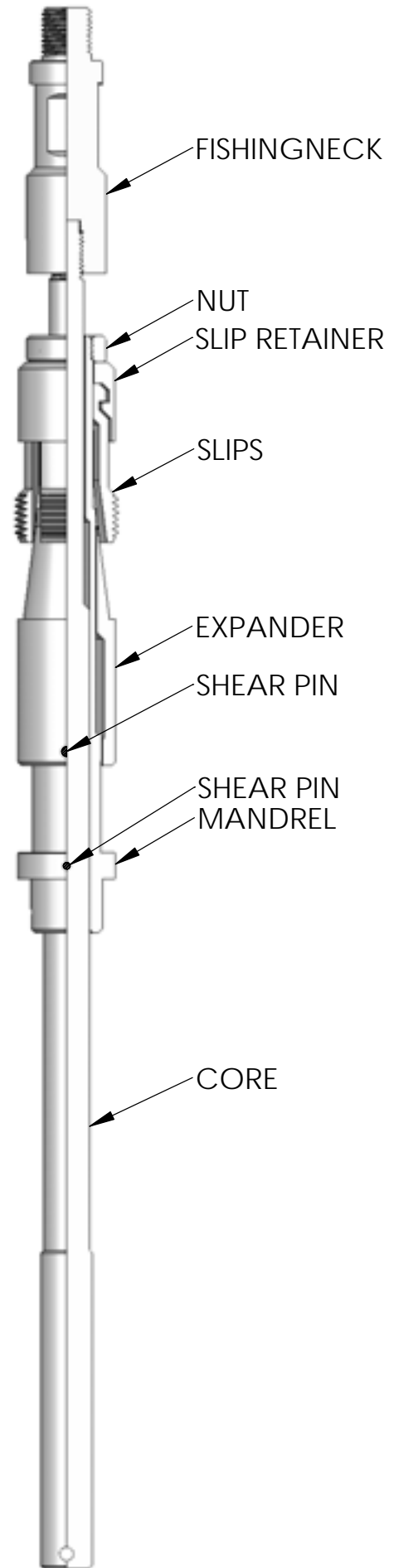
PAGE L-4

G STOP RUNNING TOOL



The G Stop Running Tool is used to run and set the G Stop Anchor.

BACK



SPECIFICATIONS

SIZE	2"	2 1/2"
FISHINGNECK O.D.	1.375"	1.375"
PIN CONNECTION	15/16"-10	15/16"-10
MADE UP LENGTH	30.188"	31.125"
O.D. SLIPS (RETRACTED)	1.812"	2.275"
O.D. SLIPS (EXPANDED)	2.015"	2.500"
SHEAR PIN	1/8" X 1 13/16"	1/8" X 2 3/16"

OTHER SIZES AVAILABLE ON REQUEST

JC-3 RUNNING TOOL

*Frederick's
Machine*

The JC-3 Running Tool is used to run the R or RA Type Latch in the appropriate MM Series Mandrel.

BACK



SPECIFICATIONS

FISHINGNECK O.D.	1.375"
PIN CONNECTION	15/16"-10
MADE UP LENGTH	6.188"
SHEAR PINS	3/16" X 1 5/8"
MAX O.D	1.750"

SPECIFICATIONS (LONG)

FISHINGNECK O.D.	1.375"
PIN CONNECTION	15/16"-10
MADE UP LENGTH	12.000"
SHEAR PINS	3/16" X 1 5/8"
MAX O.D	1.750"

OTHER SIZES AVAILABLE ON REQUEST

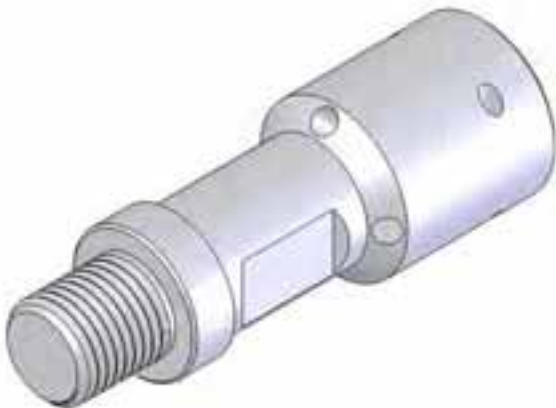
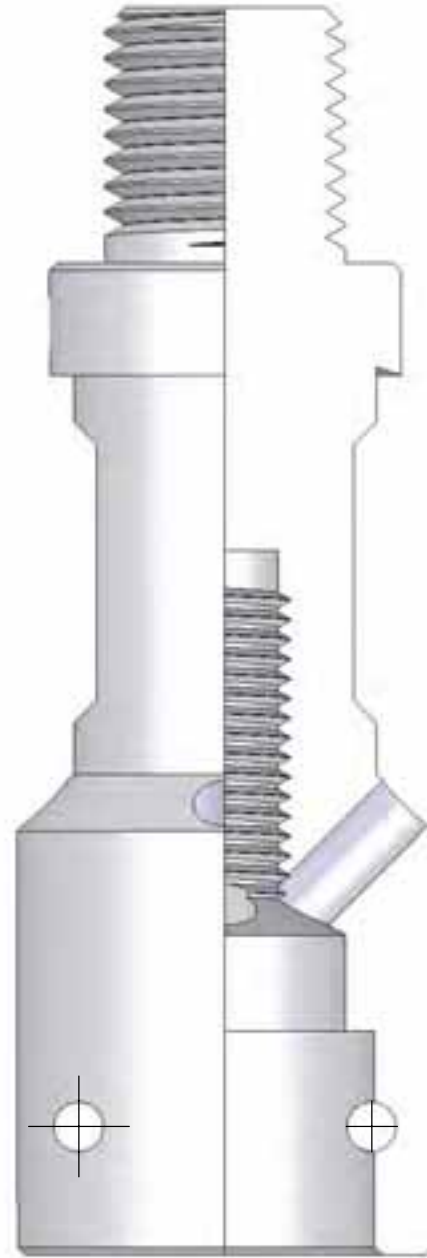
PAGE L-6

J RUNNING TOOL



The FMS "J" Running Tool is used to run and set the "S" Lock Mandrel.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.000"	1.188"	1.375"	1.375"	2.313"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
BOX CONNECTION	3/8"-16	3/8"-16	1/2"-13	1/2"-13	5/8"-11
MAX O.D.	1.125"	1.420"	1.625"	2.125"	2.500"
MADE UP LENGTH	2.375"	3.500"	3.688"	3.688"	4.625"
SHEAR PINS	1/8" X 1 1/16"	1/8" X 1 3/8"	3/16" X 1 9/16"	3/16" X 2 1/16"	1/8" X 1 1/16"

OTHER SIZES AVAILABLE ON REQUEST

PAGE L-7

PS RUNNING TOOL



The FMS "PS" Running Tool is used to run and set the "PS" and "PN" lock and plug assembly.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	2"	2 1/2"	3"
FISHINGNECK O.D.	1.000"	1.188"	1.375"	1.750"	2.313"
PIN CONNECTION	5/8"-11	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10
MAX O.D.	1.188"	1.420"	1.688"	2.000"	2.500"
MADE UP LENGTH	5.000"	5.000"	6.500"	6.500"	5.875"
SHEAR PINS	1/8" X 1 1/8"	1/8" X 1 3/8"	3/16" X 1 5/8"	3/16" X 1 15/16"	3/16" X 2 7/16"

OTHER SIZES AVAILABLE ON REQUEST

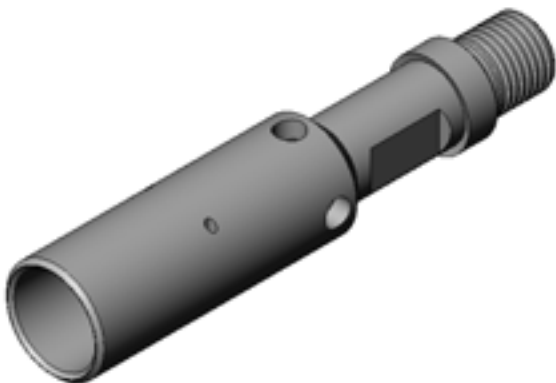
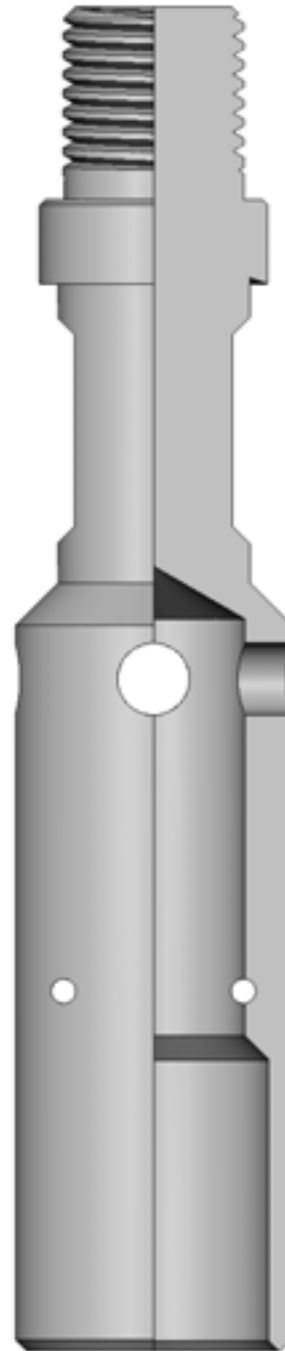
PAGE L-8

RK-1 RUNNING TOOL



The RK-1 Running Tool is used to run the RK-1 or RKP Latch in the appropriate MMG Series Mandrel.

BACK



SPECIFICATIONS

FISHINGNECK O.D.	1.188"
PIN CONNECTION	15/16"-10
MADE UP LENGTH	6.000"
SHEAR PINS	1/8" X 1 1/4"
MAX O.D.	1.438"

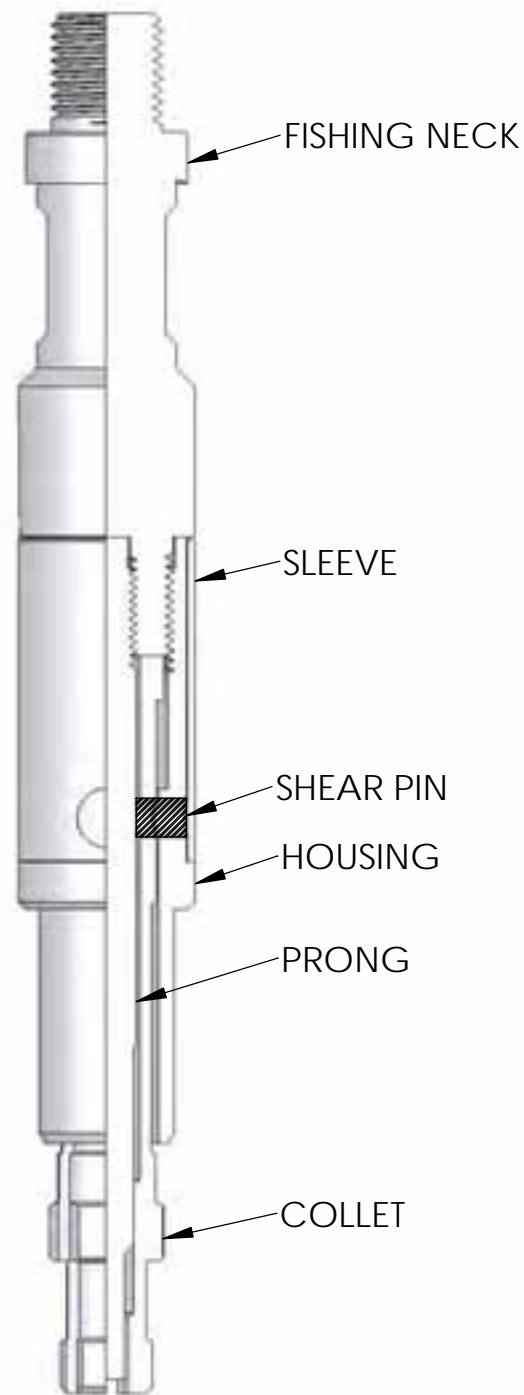
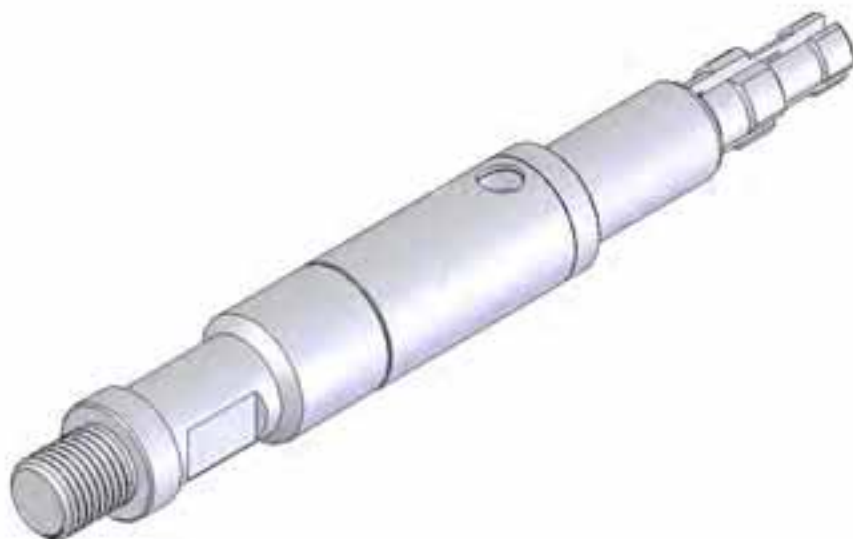
OTHER SIZES AVAILABLE ON REQUEST

W RUNNING TOOL

*Frederick's
Machine*

The FMS "W" Running Tool is designed to the "B", "C" and "W" Lock Mandrels.

BACK



SPECIFICATIONS

SIZE	1 1/2"	2" & 2 1/2"	3"
FISHINGNECK O.D.	1.188"	1.375"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	1 1/16"-10
MADE UP LENGTH	9.343"	10.438"	10.000"
SHEAR PIN (2)	1/4" X 3/8"	5/16" X 3/8"	5/16" X 1/2"
ENGAGES	0.688"	1.000" & 0.813"	1.500"
MAX O.D.	1.375"	1.500"	2.750"

OTHER SIZES AVAILABLE ON REQUEST

PAGE L-10

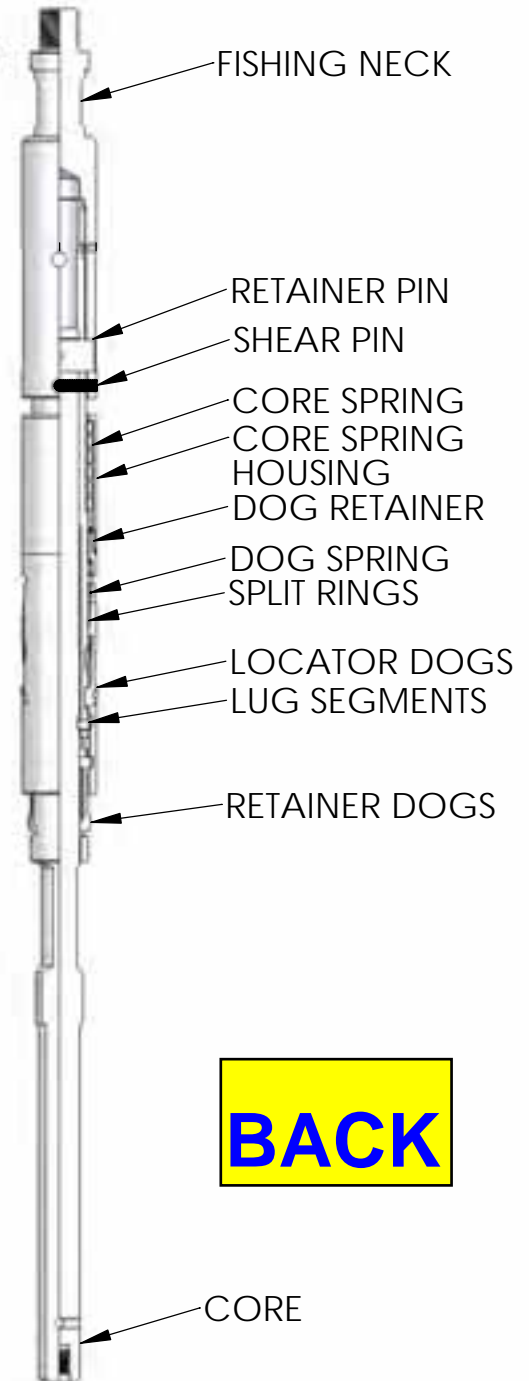
FMSX & FMSR RUNNING TOOL



The FMSX and FMSR Running Tools are used to run, locate, and set Type FMSX, FMSXN, FMSR and FMSRN Locks and subsurface safety equipment.

SPECIFICATIONS FMSX

SIZE	1.500"	1.625"	1.875"	2.313"
FISHINGNECK O.D.	1.188"	1.188"	1.375"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10
BOTTOM THREAD	3/8"-16	3/8"-16	1/2"-13	5/8"-11
MADE UP LENGTH	30.063"	30.063"	29.313"	30.250"
SHEAR PIN	3/16"x1 1/8"	3/16"x1 1/8"	1/4"x1 1/2"	1/4"x1 7/8"
O.D. DOGS RETRACTED	1.410"	1.593"	1.750"	2.175"
EXPANDED	1.562"	1.672"	1.937"	2.359"
FN ENGAGES	1.062"	1.062"	1.375"	1.812"
SIZE	2.750"	2.813"	2.875"	
FISHINGNECK O.D.	2.313"	2.313"	2.313"	
PIN CONNECTION	1 1/16"-10	1 1/16"-10	1 1/16"-10	
BOTTOM THREAD	3/4"-10	3/4"-10	3/4"-10	
MADE UP LENGTH	31.000"	31.000"	31.000"	
SHEAR PIN	1/4"x2 1/2"	1/4"x2 1/2"	1/4"x2 1/2"	
O.D. DOGS RETRACTED	2.718"	2.718"	2.844"	
EXPANDED	2.843"	2.906"	1.938"	
FN ENGAGES	2.313"	2.313"	2.313"	



BACK

SPECIFICATIONS FMSR

SIZE	1.710"	1.781"	1.875"	2"	2.125"	2.188"	2.313"	2.562"
FISHINGNECK O.D.	1.188"	1.375"	1.375"	1.375"	1.375"	1.750"	1.750"	1.750"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10
BOTTOM THREAD	3/8"-16	1/2"-13	1/2"-13	1/2"-13	1/2"-13	5/8"-11	5/8"-11	5/8"-11
MADE UP LENGTH	30.063"	29.313"	29.313"	29.313"	29.313"	29.313"	29.313"	30.250"
SHEAR PIN	3/16"x1 1/8"	1/4"x1 1/2"	1/4"x1 1/2"	1/4"x1 1/2"	1/4"x1 1/2"	1/4"x1 7/8"	1/4"x1 7/8"	1/4"x1 7/8"
O.D. DOGS RETRACTED	1.640"	1.750"	1.750"	1.938"	2.063"	2.175"	2.175"	2.500"
EXPANDED	1.760"	1.828"	1.937"	2.063"	2.165"	2.297"	2.359"	1.760"
FN ENGAGES	1.062"	1.375"	1.375"	1.375"	1.375"	1.812"	1.812"	1.812"

OTHER SIZES AVAILABLE ON REQUEST

PAGE L-11



Section M

Test Tools

Description

Size

N Test Tool 1.875" to 2.875" Assy.

S Test Tool 2" to 3" Assembly

FMSX Selective Test Tool 1.875" to 2.813" Assy.

T Test Tool 2" to 3" Assembly

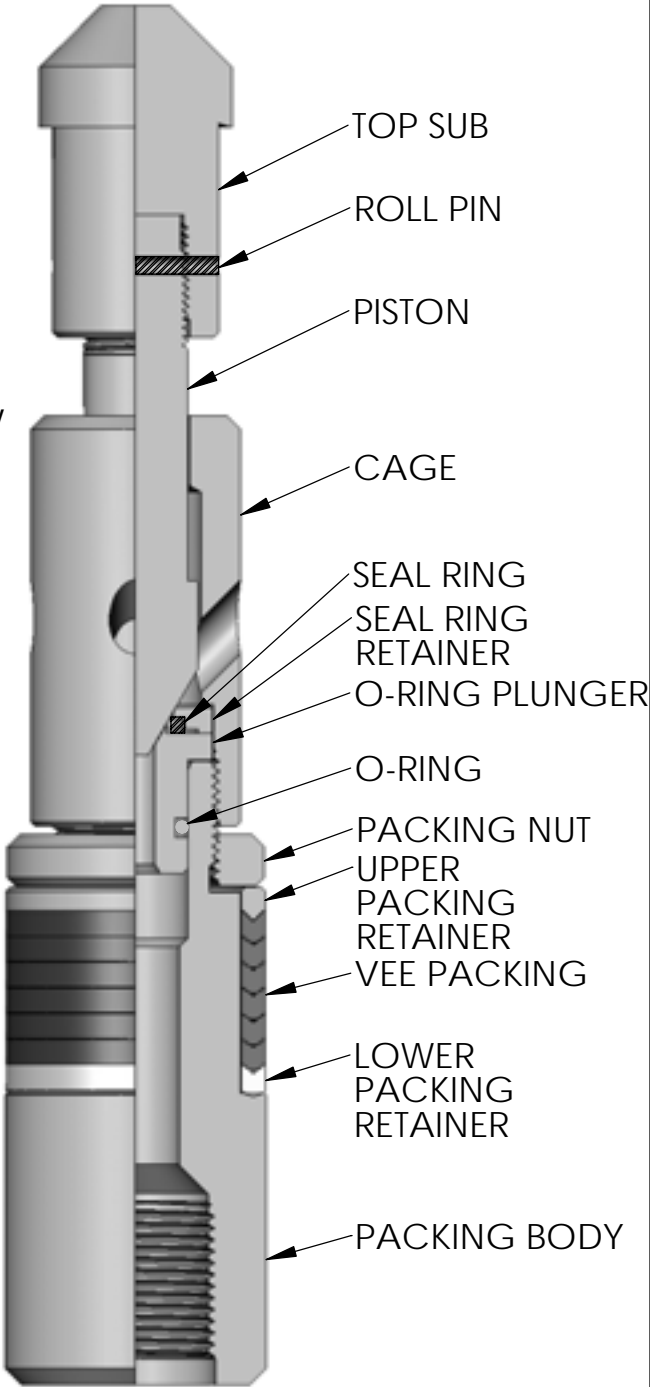
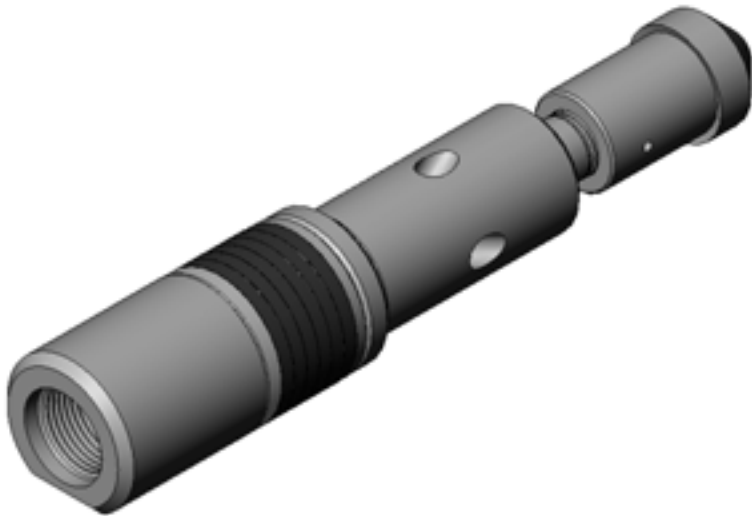
[GO BACK HOME](#)

N TEST TOOL



The "N" Test Tool is used to pressure test the tubing above the nipple in which it is set. The tool is designed to hold pressure only from above, allowing a small amount of flow from beneath.

BACK



SPECIFICATIONS			
SIZE	2"	2 1/2"	3"
NUT O.D. (FISHINGNECK)	1.375"	1.375"	2.313"
OVERALL LENGTH	10.281"	9.969"	11.000"
NO GO O.D.	1.865"	2.300"	2.865"
BOTTOM THREAD	1 1/8"-12	1 11/32"-14	1 7/8"-12
RUNNING TOOL	2" H	2" H	3" H
PULLING TOOL	2" RB	2" RB	3" RB
ROLL PIN	1/8" X 1 3/16"	1/8" X 1 3/16"	1/8" X 2"

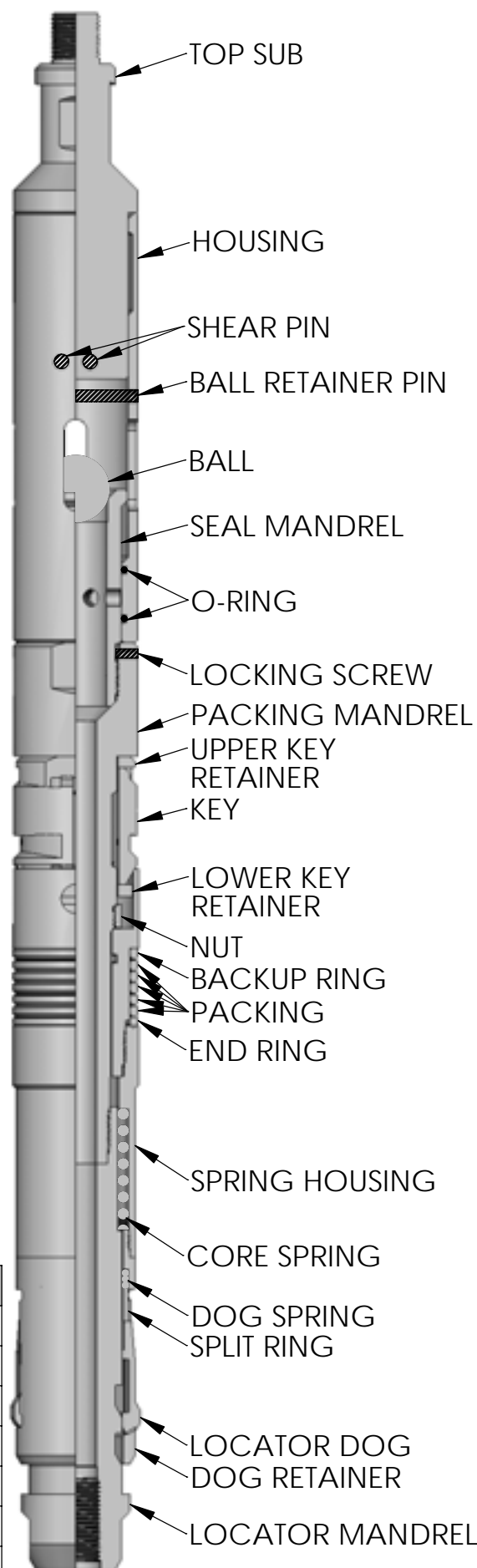
OTHER SIZES AVAILABLE ON REQUEST

FMSX SELECTIVE TEST TOOL



The FMS Selective Test Tool is used to pressure test the tubing above the nipple in which it is set. The locator assembly on this tool allows the operator the flexibility to locate, land, and pressure test the tubing from any desired FMS Style Landing Nipple within the tubing string.

BACK



SPECIFICATIONS

SIZE	1.875"	2.313"	2.750"
FISHINGNECK O.D.	1.375"	1.375"	1.750"
KEYS EXPANDED	2.194"	2.620"	3.19"
O.D.	1.870"	2.305"	2.740"
RUNNING TOOL	2" S	2" S	2 1/2" S
PULLING TOOL	2" S	2" S	2 1/2" S
ROLL PIN	1/8"X1 3/16"	1/8"X1 3/16"	1/8"X 2"

OTHER SIZES AVAILABLE ON REQUEST



Section N

Shifting Tools

Description

Size

"B" Shifting Tools 1.500" to 3.812" Assy.

"D-2" Shifting Tool 2" to 3" Assembly

"FMS" Selective Shifting Tool 1.875" to 2.813" Assy.

[GO BACK HOME](#)

B SHIFTING TOOL

*Frederick's
Machine*

The "B " Shifting Tool is designed to selectively locate and shift most sliding side door sleeves. This is accomplished by the "B" Shifting Tool keys engaging the SSD inner sleeve, and depending on the direction the tool is run, up or down, the sleeve is shifted.

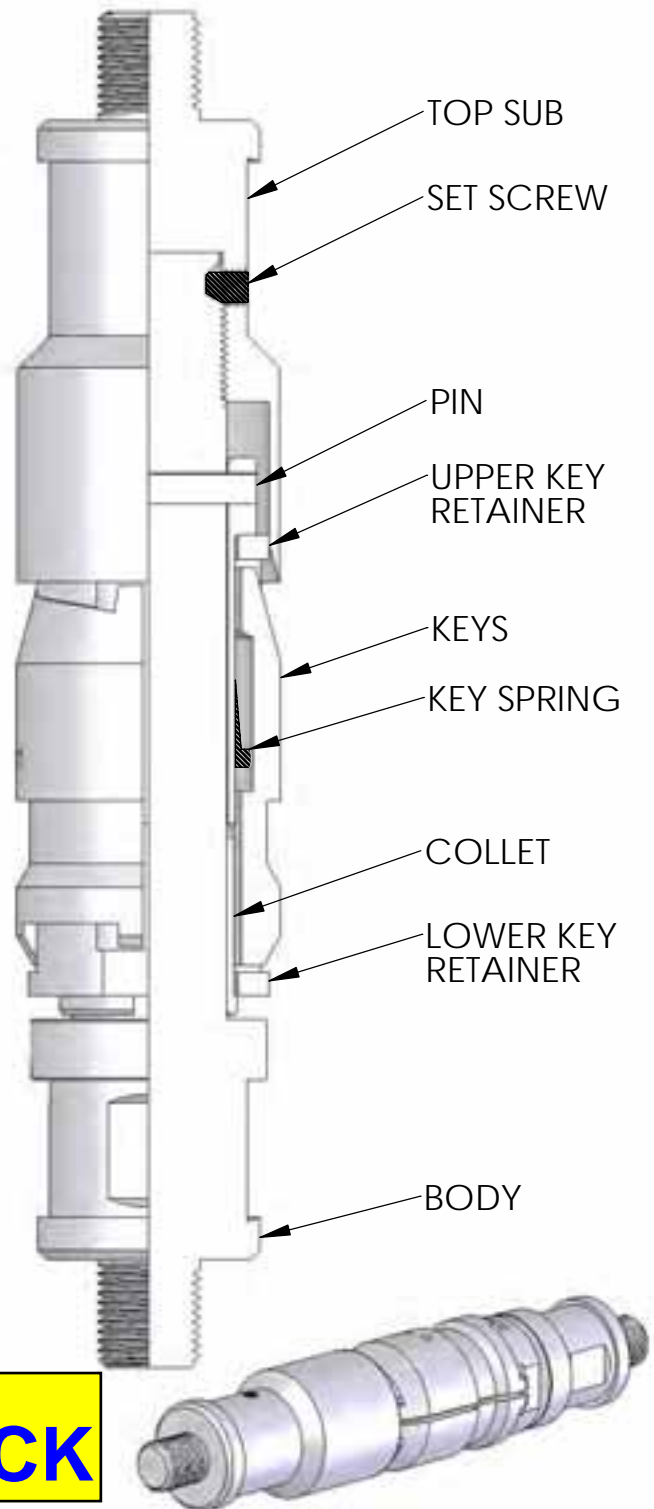
SPECIFICATIONS

SIZE	1.250"	1.500"
FISHING NECK O.D.	1.000"	1.188"
PIN CONNECTION	5/8"-11	15/16"-10
MADE UP LENGTH	9.625"	10.500"
O.D. KEYS RETRACTED	1.210"	1.406"
O.D. KEYS EXPANDED	1.453"	1.719"
SET SCREW	1/4"-20 X 1/4"	1/4"-20 X 1/4"
SHEAR PIN	3/16" X 15/16"	1/4" X 1 1/8"

SIZE	1.625"	1.710"
FISHING NECK O.D.	1.188"	1.188"
PIN CONNECTION	15/16"-10	15/16"-10
MADE UP LENGTH	10.938"	10.813"
O.D. KEYS RETRACTED	1.593"	1.688"
O.D. KEYS EXPANDED	1.890"	2.094"
SET SCREW	1/4"-20 X 5/16"	1/4"-20 X 5/16"
SHEAR PIN	1/4" X 1 1/8"	1/4" X 1 1/8"

BACK

SIZE	1.781"	1.875"	2.125"	2.313"	2.562"	2.750"	2.813"
FISHING NECK O.D.	1.375"	1.375"	1.375"	1.750"	1.750"	2.313"	2.313"
PIN CONNECTION	15/16"-10	15/16"-10	15/16"-10	15/16"-10	15/16"-10	1 1/16"-10	1 1/16"-10
MADE UP LENGTH	11.313"	11.313"	13.000"	11.813"	11.938"	12.188"	9.625"
O.D. KEYS RETRACTED	1.750"	1.840"	1.965"	2.156"	2.530"	2.718"	1.210"
O.D. KEYS EXPANDED	1.120"	2.156"	2.438"	2.656"	2.968"	3.031"	1.453"
SET SCREW	3/8"-16 X 1/4"	3/8"-16 X 1/4"	3/8"-16 X 1/4"	3/8"-16 X 1/4"	3/8"-16 X 5/16"	3/8"-16 X 1/4"	1/4"-20 X 1/4"
SHEAR PIN	1/4" X 1 3/8"	1/4" X 1 3/8"	1/4" X 1 3/8"	1/4" X 1 3/8"	1/4" X 1 5/8"	5/16" X 2 1/4"	3/16" X 15/16"





Section O

Miscellaneous

Description

Size

DK Ball Valve Tester / Saddle

Assembly

Packing

Pinning Tool

1 1/2" to 4" + RS & RB

Quick Lock

1 1/4" to 1 7/8" Assy

Releasing Tool

2" to 4"

Shock Absorber

1 1/4" to 1 1/2" Assy

Star Drill

1 1/2" to 3" Assy

Sucker Rod Thread Chaser

5/8" & 3/4" + 4 Way Combo

Swab Mandrel

2" & 2 1/2" Assy.

Swab Cup

2" to 3"

Shear Stock (Alum, Brass & Steel)

1/16" X 3' to 3/8" X 3'

Aluminum Dummy

FMS Anti-Blow Up Tool

Crossover Sub

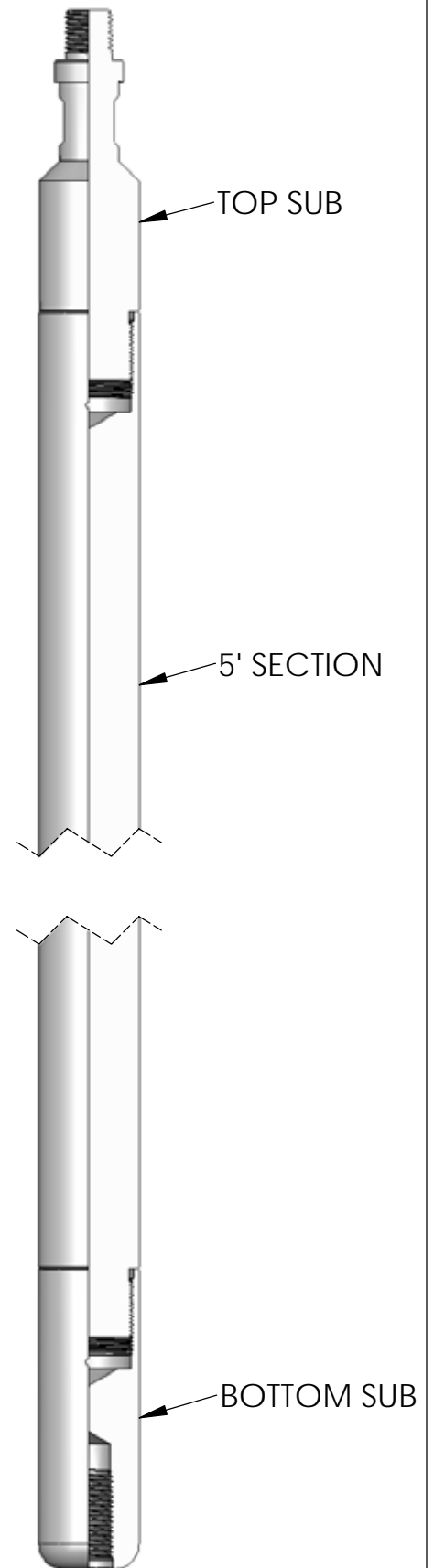
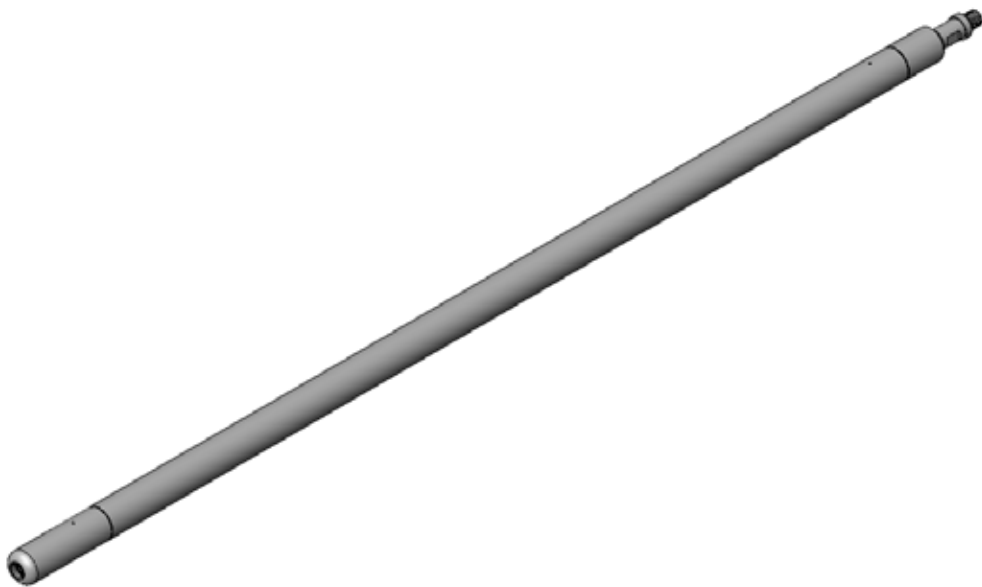
Swivel

GO BACK HOME

ALUMINUM DUMMY

*Frederick's
Machine*

BACK



SPECIFICATIONS

1 3/8" X 20' ASSEMBLY

1 11/16" X 20' ASSEMBLY

2 1/16" X 20' ASSEMBLY

2 1/8" X 20' ASSEMBLY

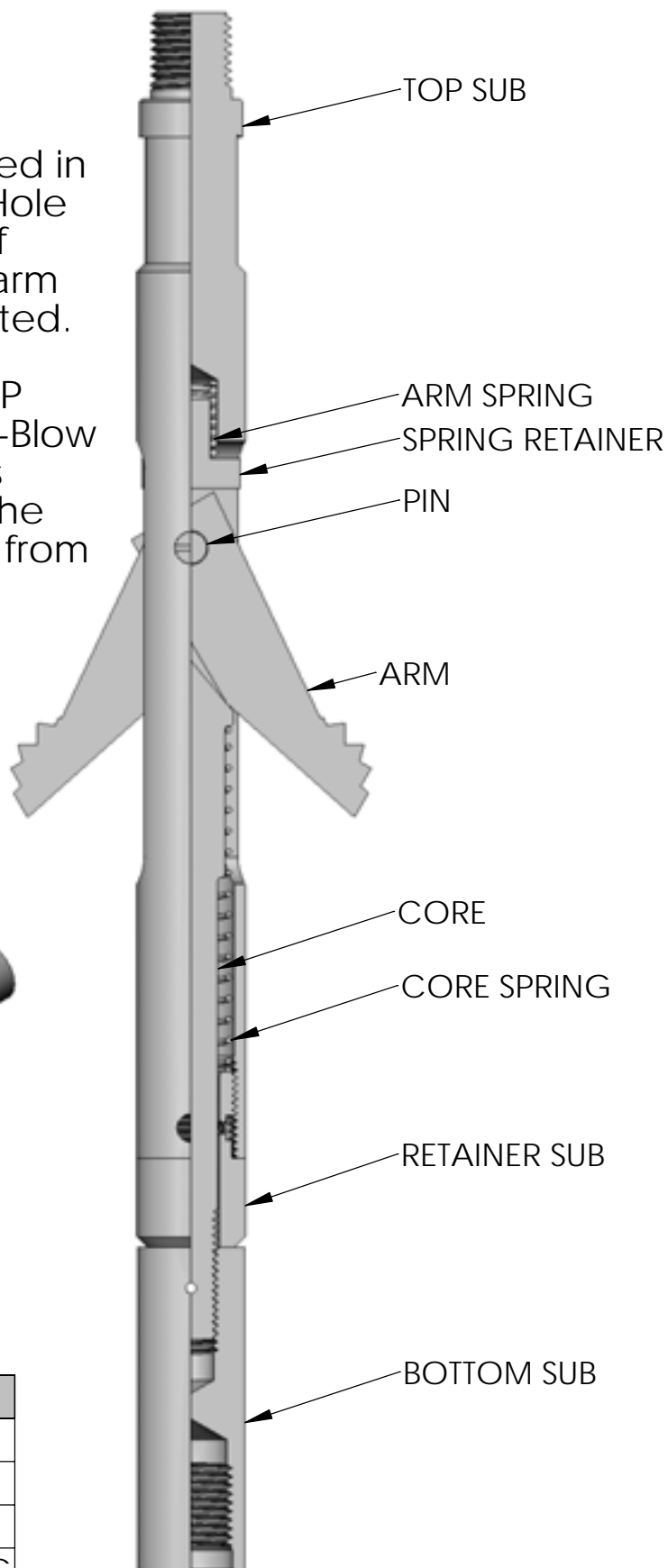
OTHER SIZES AVAILABLE ON REQUEST

FMS ANTI-BLOW UP TOOL



The FMS Anti-Blow Up Tool is installed in the tool string above the Bottom Hole Pressure equipment. The weight of the BHP equipment will keep the arm grabs on the Anti-Blow Tool retracted. A sudden surge of pressure from below forces the weight of the BHP equipment upward upon the Anti-Blow Tool. The spring loaded dog grabs expand to grab the inner wall of the tubing and prevent the tool string from being blown up the tubing.

BACK



SPECIFICATIONS

FISHINGNECK O.D.	1.188"
MAX O.D	1.250"
PIN & BOX CONNECTIONS	15/16" - 10UN
DOG GRABS (EXPANDED)	1 1/4" - 3" TUBING
STEEL LOCK PIN	1/8" X 7/8"

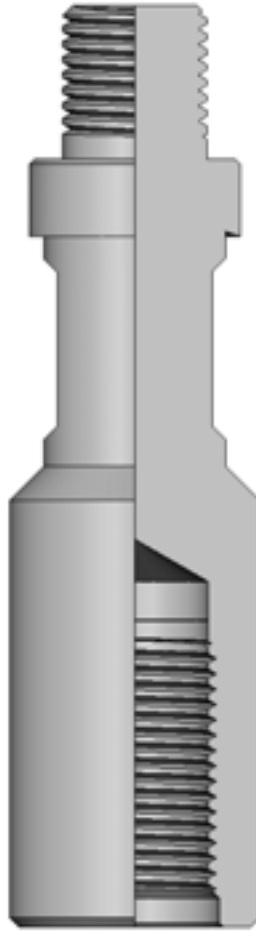
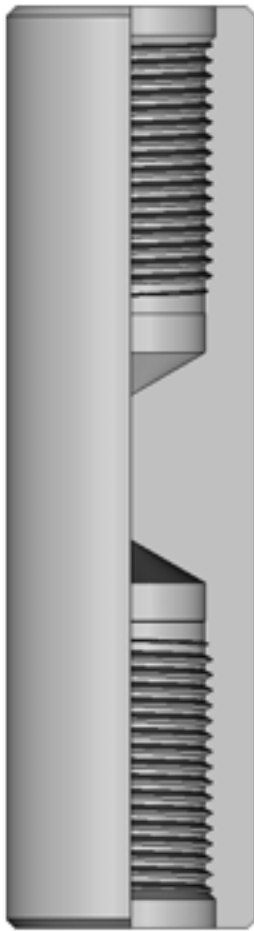
OTHER SIZES AVAILABLE ON REQUEST

CROSSOVER SUB

*Frederick's
Machine*

BACK

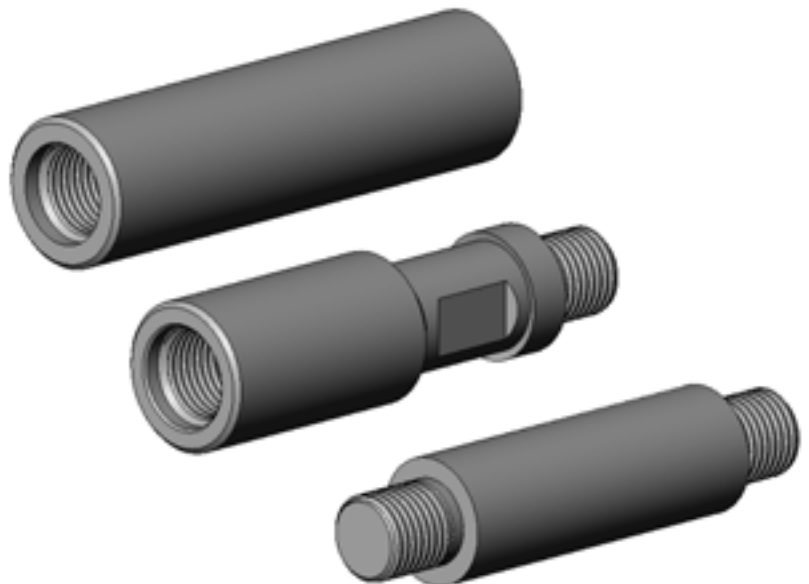
The Crossover Sub is designed to connect components of the tool string that have different size thread connections.



SPECIFICATIONS

5/8" SR PIN X 3/4" SR BOX
3/4" SR PIN X 5/8" SR BOX
AMERADA PIN (3/4"-16) X 5/8" SR BOX
AMERADA BOX (3/4"-16) X 5/8" SR PIN
5/8" SR BOX X 5/8" SR BOX
5/8" SR PIN X 5/8" SR PIN
3/4" SR BOX X 3/4" SR BOX
3/4" SR PIN X 3/4" SR PIN
3/4" SR PIN X 7/8" SR BOX
7/8" SR PIN X 3/4" SR BOX
5/8" SR PIN X 5/8" SR BOX

OTHER SIZES AVAILABLE ON REQUEST



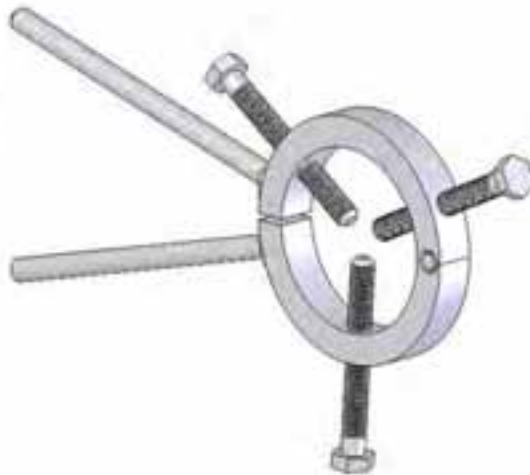
STAR DRILL

*Frederick's
Machine*



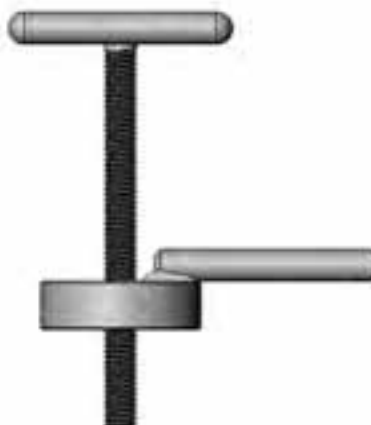
RELEASING TOOL

*Frederick's
Machine*



PINNING TOOL

*Frederick's
Machine*



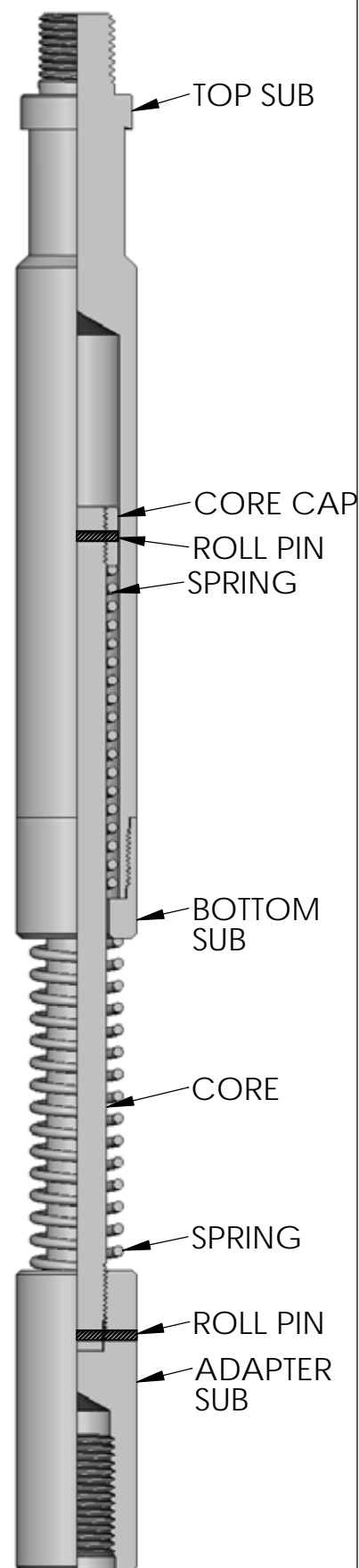
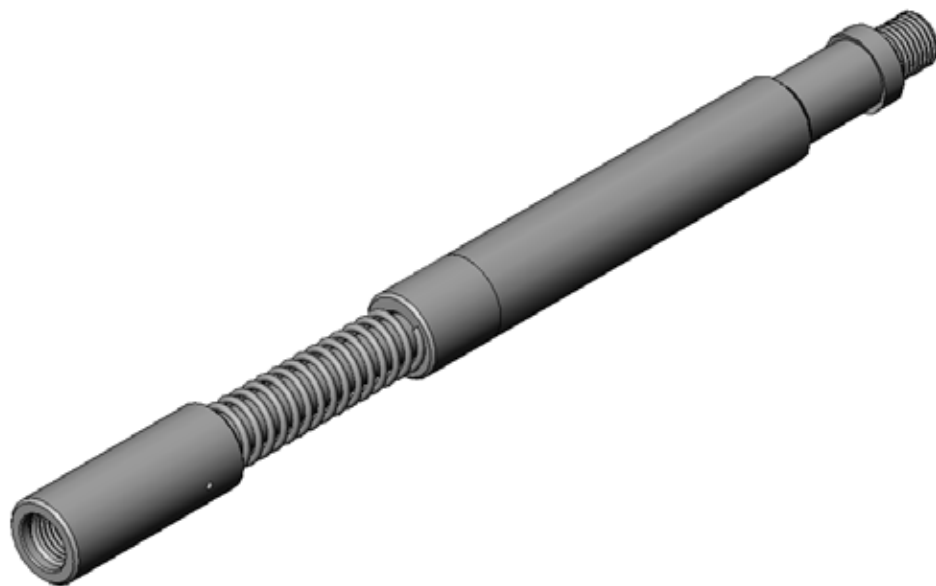
BACK

SHOCK ABSORBER



The Shock Absorber is used to protect pressure and temperature recording equipment from the jarring action resulting from setting and retrieving the accompanying locking mandrel. The Shock Absorber has two separate springs which receive both upward and downward jarring shock.

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 3/4"
FISHINGNECK O.D.	1.188"	1.375"	1.750"
MAX O.D.	1.250"	1.500"	1.750"
PIN CONNECTION	15/16" - 10UN	15/16" - 10UN	1 1/16" - 10UN
BOX CONNECTION	15/16" - 10UN	15/16" - 10UN	1 1/16" - 10UN
ROLL PIN	1/8" X 1 1/2"	1/8" X 1 1/2"	1/8" X 1 3/4"
	1/8" X 29/32"	1/8" X 1 1/32"	1/8" X 1 5/32"

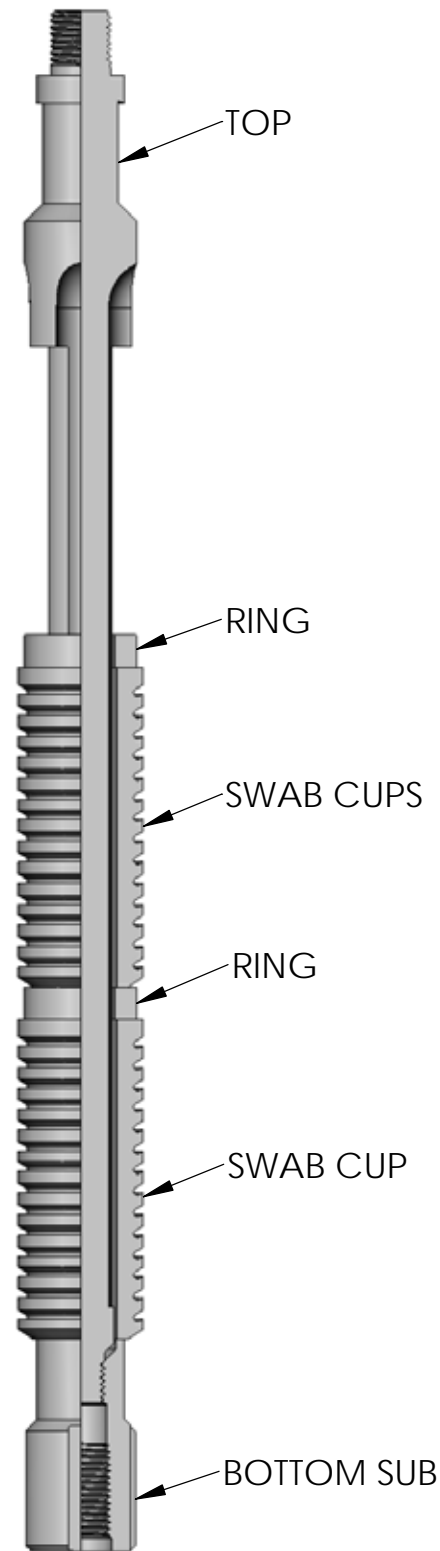
OTHER SIZES AVAILABLE ON REQUEST

SWAB MANDREL

*Frederick's
Machine*

The Swab Mandrel is used to manipulate the well fluid within the tubing in an effort to create an upward flow.

BACK



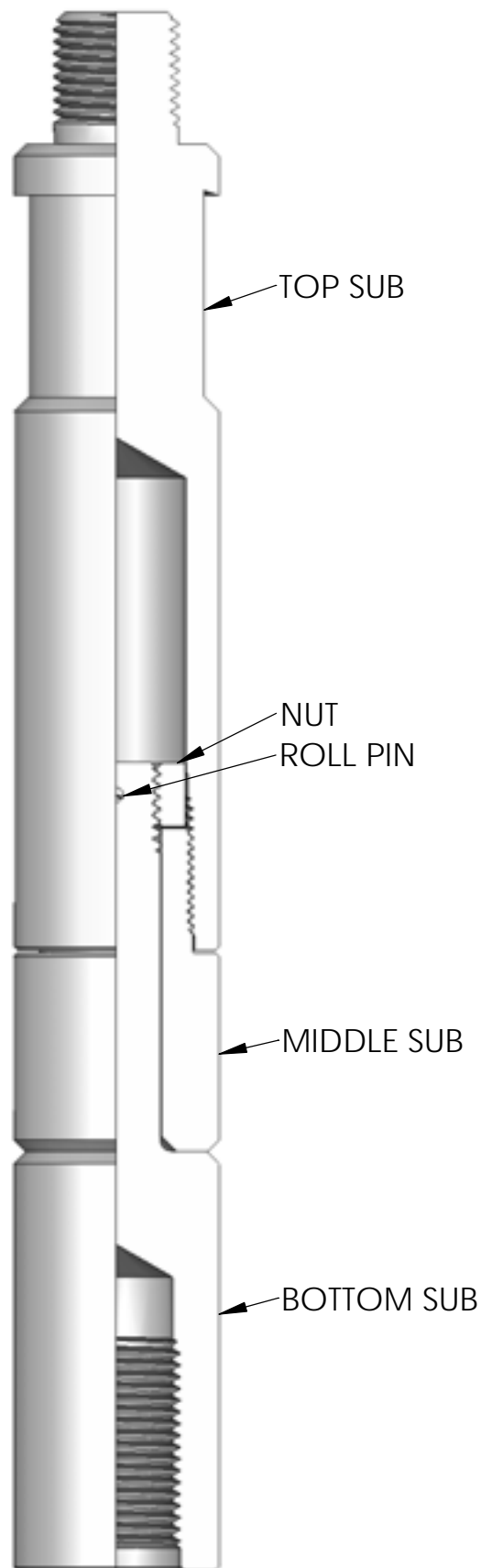
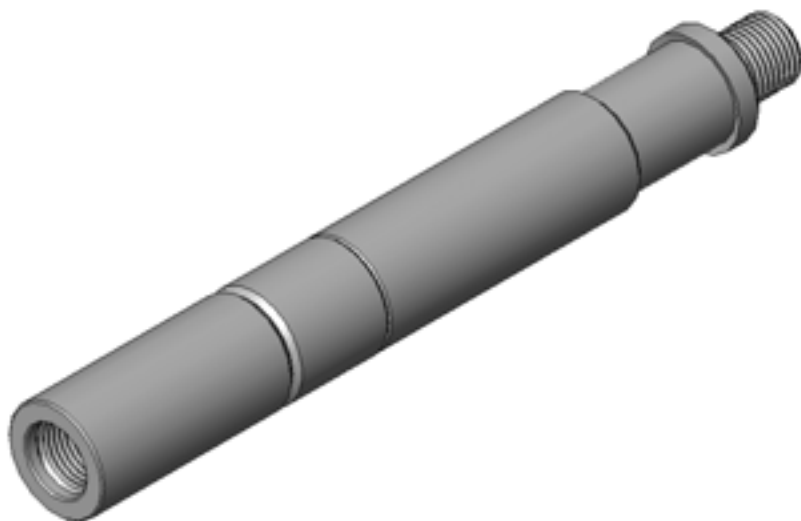
SPECIFICATIONS - SWAB MANDREL			SPECIFICATIONS - SWAB CUPS			
SIZE	2"	2 1/2", 3"	SIZE	2"	2 1/2"	3"
FISHINGNECK O.D.	1.375"	1.375"	CUP O.D.	1.960"	2.390"	2.957"
THREAD CONNECTION	15/16"-10	15/16"-10	STANDARD			
OVERALL LENGTH	22.250"	22.250"				

OTHER SIZES AVAILABLE ON REQUEST

SWIVEL

*Frederick's
Machine*

BACK



SPECIFICATIONS

SIZE	1 1/4"	1 1/2"	1 11/16"	1 3/4"
MAX O.D.	1.25"	1.50"	1.688"	1.75"

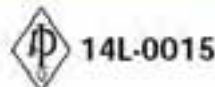
OTHER SIZES AVAILABLE ON REQUEST



Frederick's Machine and Tool Shop, Inc. (FMS), located in New Iberia, Louisiana, specializes in the machining and manufacturing of wireline service tools and equipment. All wireline tools manufactured by FMS are equivalent to and completely interchangeable with major service company tools. This offers our customers an alternative means of providing quality service with quality equipment at an affordable cost. Once the manufacturing process of a tool or components of a tool assembly is completed, it is carefully inspected to assure its reliability. The parts are then placed in our computerized inventory system, ensuring that our customers are able to receive the equipment they want, when they want it.

At FMS, Quality Control is an issue we do not take lightly. It is of the utmost importance to us that we supply our customers with the best products possible. Our commitment to quality starts with the verification of incoming materials, and continues through all phases of production, up to the final release of the product. A strict, detailed step-by-step procedure ensures that all services and manufacturing processes we perform are of the highest quality possible. As testimony to our true commitment to quality, we are licensed under API specification 14L, as well as API's ISO 9001:2000 registrar.

We at FMS realize the needs for reliable and specialized wireline tools and equipment. As these needs increase so does the need for qualified manufacturers. With the combination of many valuable years of experience in the machine shop and wireline service fields, and our highly skilled work force, we are capable of ensuring our customers of meeting these needs. You will find a complete and diversified line of wireline tools and equipment in our Product Catalog. However, if we can be of assistance to your specialized machine tool needs, please feel free to contact us at any time.



ISO 9001:2000

3903 SECOND STREET • ACADIANA REGIONAL AIRPORT • NEW IBERIA, LOUISIANA 70560
 Phone: 337-367-9943 • Phone: 800-326-6130 • Fax: 337-367-9959
 Visit our Website at: www.fredmach.com

BACK