PRODUCT CATALOG 2002

COILED TUBING TOOLS & ACCESSORIES

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Taylor Made Oil Tools, Inc. designs, manufactures, rents and sells specialty oil tools for coiled tubing, wireline, snubbing, and completions. Taylor Made is the pioneer of vertical manipulating tools to release and catch without rotation. Most of our tools are patented.

Innovation is practiced daily at Taylor Made where our staff strives to stay on the leading edge of coiled tubing technology. Customized and specialty tool designs can be manufactured to meet your unique requirements.

QUALITY STATEMENT

Taylor Made Oil Tools, Inc. is committed to providing products and services in compliance with the Quality Program that meet or exceed our customers' requirements, free from deficiencies.

The management of Taylor made Oil Tools, Inc. is dedicated to continual improvement, training, and abiding by procedures that will ensure quality performance.

Quality is the responsibility of every employee and success is accomplished by a united effort.

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RENTAL TOOLS

Taylor Made's rental tools are inspected, completely redressed, and tested after every job. This ensures consistent performance on every job. Training sessions at your site or ours are available. Our staff is on call to answer your questions, satisfy your requirements and offer technical assistance.

We can effectively provide rentals to the entire Gulf of Mexico and most oilfield locations worldwide. Tools can be rented or purchased from our main office in Houma, Louisiana, or form one of our consignment vendors. Contact us for the supplier nearest your location.

MANUFACTURING

Taylor Made is the oldest manufacturing company in this business. With over 30 years of successful tool performance for most major oil companies, independents, and service companies, our product line remains the most unique in the industry.

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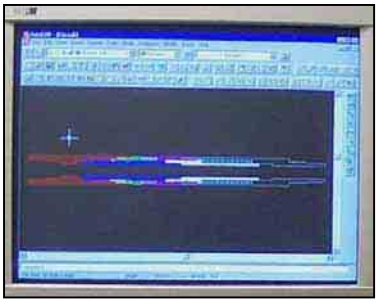
INSPECTION, TESTING, & DESIGN

Quality and safety are top priorities at Taylor Made. Our proven, patented tools are manufactured, inspected and tested using quality procedures to ensure consistent down hole operation.

A complete inspection of all rental tools is performed before shipping. Each tool is tagged and accompanied by an inspection certificate. Pressure testing and function testing are performed when the tool is prepared for shipment.

Innovation is practiced daily at Taylor Made where our Engineering Department strives to stay on the leading edge of Thru-Tubing technology. Customized and specialty designed tools can be manufactured to meet you unique requirements.



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General Terms and Conditions

Policy

The TAYLOR MADE Products are received by the buyer "AS IS" and TAYLOR MADE does not warrant that they can be used for any particular purpose. Any article manufactured by TAYLOR MADE which is not free of defective material and workmanship in the opinion of TAYLOR MADE, may be returned within six (6) months after the date of sale for replacement. TAYLOR MADE's liability shall be limited to replacement FOB Houma, LA, of the part or parts shown to be defective, transportation prepaid.

Where there may be defective parts not wholly of TAYLOR MADE manufacture, our liability shall exist only to the extent that it is able to recover form its supplier for the same defects. All products are subject to TAYLOR MADE's manufacturing standards. TAYLOR MADE reserves the right to make the final decision in all questions.

Change of Design

TAYLOR MADE expressly reserves the right to change or modify the design and construction of any product, in due course of our manufacturing procedure, without incurring any obligation or liability to furnish or install such changes, modifications or improvements on products previously or subsequently made.

Prices

Prices do not include sales taxes or taxes not levied on the seller. All taxes based upon the freight charges made for, or the cash receipt for the sale of products enumerated shall be added to the stated price. List prices are subject to change without notice. Prices are U.S. currency.

Quotations

Quotations are for prompt acceptance only, unless a definite period of time is stated within which acceptance may be made. Requests for quotations on products for export shipment should be sent direct to the TAYLOR MADE office in Houma, LA.

Delivery

Delivery promises on all orders are given as accurately as possible and every effort will be made to make shipment as promised, but we do not guarantee to do so and will assume no liability for damages arising out of failure to do so.

Cancellations, Claims and Returns

Orders for products or parts of special design, size or materials are not subject to cancellation after having been received at our factory. Claims for shortage or reductions or erroneous charges must be presented within thirty (30) days after receipt of products.

No assembly or parts will be taken back and credited, or replaced unless arrangements for such return have been previously made. After permission for such return is granted, a charge of twenty percent (20%) will be assessed for restocking. A credit will be issued for tools lost in hole, when returned, after inspection by TAYLOR MADE, in accordance to the condition of the tool(s).

EXTERNAL QUICK CONNECTOR

The Taylor Made External Quick Connector is used to connect a BHA to the end of Coiled Tubing. Torque transmission is provide by notching the end of the pipe. The notched pipe aligns with lugs in the connector.

DESIGN FEATURES

- Torque Transmitting
- Split Wickered Slips
- Sealed for Circulation

The Connector Template facilitates application of the pipe notches.

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EXTERNAL QUICK CONNECTOR

ASSEMBLY PART NO.:	QC-1-562-0	QC1-750-00	QC-1-800-0	QC-2-250-0	QC-2-500-0	QC-2-750-0
NOMINAL OD (in):	1.562	1.750	1.800	2.250	2.500	2.750
ACTUAL OD (in):	1.562	1.750	1.800	2.250	2.500	2.750
MINIMUM ID (in):	0.750	0.750	0.750	1.000	1.000	1.000
OVERALL LENGTH (in):	11.06	11.44	12.35	13.06	13.06	13.06
MAKE UP LENGTH (in):	8.88	9.25	10.16	10.88	10.88	10.88
WEIGHT (lb):	3	4	4	7	8	9
MAXIMUM WORK LOAD (yield lb)	51,470	60,645	56,819	69,000	105,000	120,000
PRESSURE RATING (psi):	21,063	29,118	12,915	10,000	10,000	10,000
TORQUE CAPACITY (ft-lb):	200	350	350	400	500	550
STANDARD CONNECTION:	1" CSH EQUIV.	1" CSH EQUIV.	1" CSH EQUIV.	1-1/4" CSH EQUIV.	1-1/4" CSH EQUIV.	1-1/4" CSH EQUIV.
MAKE UP TORQUE (ft-lb):	400	400	400	600	600	600
COILED TUBING SIZE (in):	1	1	1 1/4	1 1/2	1 3/4	2

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•Other thread connections available upon request.

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The Taylor Made Grub Screw Quick Connector is used to connect a BHA to the end of Coiled Tubing. Grub screws dimple the pipe and provide for torque transmission.

DESIGN FEATURES

- Torque Transmitting
- Split Wickered Slips
- Sealed for Circulation

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GRUB SCREW CONNECTOR

Assembly Part Number:	GQC-1-562-0	GQC-1-750-0	GQC-1-687-0	GQC-1-800-0	GQC-2-250-0	GQC-2-500-0	GQC-2-750-0
Coil Size:	1.000	1.000	1.250	1.250	1.500	1.750	2.000
Nominal O.D.:	1.562	1.750	1.687	1.800	2.250	2.500	2.750
Minimum I.D.:	0.750	0.750	0.750	0.750	1.000	1.000	1.000
Overall Length (in.):	10.875	11.375	12.312	12.312	13.062	13.000	13.000
Makeup Length (in.):	8.687	9.187	10.125	10.125	10.875	10.812	10.812
Weight (Lbs.):	3	4	4	4	7	8	9
Torque Capacity:	200 Ft-Lbs	125 Ft-Lbs	350 Ft-Lbs	350 Ft-Lbs	400 Ft-Lbs	500 Ft-Lbs	550 Ft-Lbs
Maximum Work Load (Yield):	56,000	67,000	48,500	60,500	69,000	105,000	120,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	300-400	300-400	400-600	400-600	400-600

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The Taylor Made Grub Internal Quick Connector is used to connect a BHA to the end of Coiled Tubing. Slips which engage the I.D. of the pipe allow for reduction of the connector O.D. dimension. Internal connectors are used when a restriction in the well does not permit usage of conventional external connectors.

DESIGN FEATURES

- Torque Transmitting
- Split Wickered Slips
- Sealed for Circulation

The Connector Template facilitates application of the pipe notches.

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INTERNAL QUICK CONNECTOR

Assembly Part Number:	IQC-1-600-0	IQC-1-800-0	IQC-2-125-0	IQC-2-250-0
Coil Size:	1.250	1.500	1.750	2.000
Nominal O.D.:	1.600	1.800	2.125	2.250
Minimum I.D.:	0.500	0.625	0.812	1.062
Overall Length (in.):	14.000	14.250	15.750	15.750
Makeup Length (in.):	11.812	12.063	13.562	13.562
Weight (Lbs.):	4	4	7	8
Torque Capacity:	250 Ft-Lbs	300 Ft-Lbs	350 Ft-Lbs	400 Ft-Lbs
Maximum Work Load (Yield):	23,000	51,000	63,000	72,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	400-600	400-600

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The Taylor Made Dual Flapper Valve prevents well pressure from entering the work string. Flappers allow for passage of balls to operate equipment installed below the flappers.

DESIGN FEATURES

- Metal & Elastomer Sealing Surfaces
- Replaceable Flapper Cartridges
- Torsion Spring Closure

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DUAL FLAPER VALVE

Assembly Part Number:	CFV-1-687-0	CFV-1-750-0	CFV-2-125-0	CFV-2-750-0
Nominal O.D.:	1.687	1.750	2.125	2.750
Minimum I.D.:	0.688	0.688	1.020	1.020
Overall Length (in.):	12.187	12.187	13.187	14.187
Makeup Length (in.):	10.000	10.000	11.000	12.000
Weight (Lbs.):	8	12	21	38
Maximum Work Load (Yield):	37,500	51,500	78,500	155,200
Pressure Rating:	10000	10000	10000	10000
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	400-600	400-600

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Bottom Hole Assemblies may become lodged in the well bore. The Taylor made Hydraulic Disconnect is installed in a work string directly above the BHA. Circulating a ball to the disconnect and applying pressure to a pre determined value will cause the upper section and the lower section of the disconnect to separate. Once separated, the pipe and upper portion of the disconnect can be retrieved. The lower portion of the disconnect remains attached to the stuck BHA providing an internal fishing neck for subsequent attempts at retrieval.

DESIGN FEATURES

- Torque Transmitting
- Internal Fish Neck
- Adjustable Shear Value
- Open Circulation Path after Shearing

Standard Internal Pulling Tools will engage the lower disconnect section.

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INTERNAL HYDRAULIC DISCONNECT

Assembly Part Number:	HDI-1-562-0	HDI-1-750-0	HDI-2-125-0	HDI-2-375-0	HDI-2-875-0
Nominal O.D.:	1.562	1.750	2.125	2.375	2.875
Minimum I.D.:	0.375	0.531	0.562	0.562	0.875
Effective Area (sq. in.):	0.441	0.785	1.484	1.484	2.760
Recommended Ball Size (in.):	0.500	0.562	0.625	0.625	1.000
Overall Length (in.):	19.750	19.750	20.000	20.000	23.425
Makeup Length (in.):	17.550	17.550	17.812	17.812	21.250
Weight (Lbs.):	6	8	13	15	25
Internal Fishing Neck:	1-1/2 GS Equiv.	2 GS Equiv.	2-1/2 GS Equiv.	2-1/2 GS Equiv.	3 GS Equiv.
Torque Capacity:	450 Ft-Lbs	525 Ft-Lbs	575 Ft-Lbs	575 Ft-Lbs	1,100 Ft-Lbs
Maximum Work Load (Yield):	26,500	33,000	58,000	68,000	80,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	400-600	400-600	400-600

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Bottom Hole Assemblies may become lodged in the well bore. The Taylor made External Hydraulic Disconnect is installed in a work string directly above the BHA. Circulating a ball to the disconnect and applying pressure to a pre determined value will cause the upper section and the lower section of the disconnect to separate. Once separated, the pipe and upper portion of the disconnect can be retrieved. The lower portion of the disconnect remains attached to the stuck BHA providing an external fishing neck for subsequent attempts at retrieval.

DESIGN FEATURES

- Torque Transmitting
- External Fish Neck
- Adjustable Shear Value
- Open Circulation Path after Shearing

An Overshot will engage the lower disconnect section.

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Taylor Made OIL TOOLS, INC.

EXTERNAL HYDRAULIC DISCONNECT

Assembly Part Number:	HR-1-562-0	HR-1-687-0	HR-1-800-0	HR-2-125-0	HR-2-700-0	HR-3-125-0
Nominal O.D.:	1.562	1.687	1.800	2.125	2.700	3.125
Minimum I.D.:	0.312	0.312	0.312	0.500	0.750	1.000
Effective Area (sq. in.):	0.785	0.785	0.785	1.227	2.074	2.579
Recommended Ball Size (in.):	0.437	0.437	0.562	0.625	0.875	1.125
Overall Length (in.):	20.687	20.687	20.687	21.312	21.812	23.750
Makeup Length (in.):	18.500	18.500	18.500	19.125	19.625	21.563
Weight (Lbs.):	8	9	10	11	21	27
External Fishing Neck:	1.187 x 4.375	1.187 x 4.375	1.250 x 4.375	1.500 x 4.375	2.000 x 4.375	2.625 x 4.375
Torque Capacity:	175 Ft-Lbs.	275 Ft-Lbs.	375 Ft-Lbs.	500 Ft-Lbs.	1,000 Ft-Lbs.	850 Ft-Lbs.
Maximum Work Load (Yield):	31,000	31,000	31,000	36,000	71,000.00	134,500.00
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection **:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	300-400	400-600	400-600	400-600

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SAFETY HYDRAULIC RELEASE

The Taylor Made Safety Hydraulic Release is a component of the Taylor Made Motor Head Assembly. The individual Safety Hydraulic Release can be adapted to the standard Motor Head Assembly. This design of Hydraulic Release utilizes splines and grooves for torque transmission rather than tabs. An adjustment nut takes up any slack from wear or machining tolerances. Eliminating slack prevents movement that can result in fatigue failure. A lock ring replaces the more conventional collet or dog/window design.

The modular design provides versatility of ball seat and ball size selection, top and bottom connections, installation of other components, and shear value. Circulation ports and shear screw holes through body parts are eliminated thus preventing potential leaks. Once separated, the abandoned fish neck can be latched with standard pulling tools.

DESIGN FEATURES

- Prevents Fatigue Due to Slack
- Fish Neck Free of Tabs
- No External Holes Through Body Parts
- Adapts to Motor Head Assembly

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Taylor Made OIL TOOLS, INC.

SAFETY HYDRAULIC RELEASE

ASSEMBLY PART NO.:	1-687-HR-00	2-125-HR-00	2-875-HR-00
NOMINAL OD (in):	1.687	2.125	2.875
ACTUAL OD (in):	1.687	2.125	2.875
MINIMUM ID (in):	0.635	0.688	0.625
OVERALL LENGTH (in):	19.24	20.73	24.78
MAKE UP LENGTH (in):	17.05	18.54	22.59
WEIGHT (lb):			
MAXIMUM WORK LOAD (yield lb)	37,306	63,451	120,605
PRESSURE RATING (psi):	11,899	10,327	10,822
TORQUE CAPACITY (ft-lb):	590	1,331	2,717
TEMPERATURE RATING (deg. F)	-20/+550	-20/+550	-20/+550
STANDARD CONNECTION:	1" CSH	1-1/4" CSH	2 -3/8" PAC
MAKE UP TORQUE (ft-lb):	300-400	400-600	2,400

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The Taylor Made Motor Head Assembly features a completely redesigned hydraulic disconnect and replaceable flapper cartridges.

The new style disconnect utilizes a tensioning nut to eliminate slack between the upper and lower disconnect sections. Tensional load is transferred to the tool body rather than a collet or lug cage.

The modular design permits separation of the components for individual usage or a variety of assembly configurations. The full assembly includes an external connector, dual flapper valve, hydraulic disconnect, ball drop circulating valve, and rupture disc sub. Each of these components can be eliminated from the assembly or utilized individually.

DESIGN FEATURES

- Torque Transmitting
- Modular Design
- Internal Fish Neck
- No Torque Tabs on Fish Neck
- Slack Adjustment

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MOTOR HEAD ASSEMBLY

ASSEMBLY PART NO.:	MHA-1-687-0	MHA-2-125-00	MHA-2-875-0
NOMINAL OD (in):	1.687	2.125	2.875
ACTUAL OD (in):	1.687	2.125	2.875
MINIMUM ID (in):	BALL SEAT ID	BALL SEAT ID	BALL SEAT ID
OVERALL LENGTH (in):	32.63	34.68	42.62
MAKE UP LENGTH (in):	30.50	32.43	40.25
WEIGHT (lb):		20	60
MAXIMUM WORK LOAD (yield lb)	31,500	63,451	120,605
PRESSURE RATING (psi):	11,900	10,327	10,822
TORQUE CAPACITY (ft-lb):	600	1,331	2,717
STANDARD CONNECTION:	1" CSH EQUIV.	1 1/4" CSH EQUIV.	2 3/8" PAC
MAKE UP TORQUE (ft-lb):	300-400	400-600	2,400

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The Taylor Made VR (Vibration Resistant) Shear Sub provides a means of emergency disconnect with straight pull force. When used with a motor, the compensator section prevents vibration from working against the shear screws. Piston areas are designed to prevent pressure differential from creating force toward separation. Once separated, an internal fishing is provided for subsequent retrieval attempts.

DESIGN FEATURES

- Torque Transmitting
- Vibration Resistant
- Pressure Balanced
- Internal Fishing Neck
- Adjustable Shear Value

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VR SHEAR SUB

Assembly Part Number:	VRSS-1-750-0	VRSS-1-800-0	VRSS-2-125-0
Nominal O.D.:	1.750	1.800	2.125
Minimum I.D.:	0.687	0.687	0.750
Overall Length (in.):	11.532	11.532	16.125
Makeup Length (in.):	9.320	9.320	13.937
Weight (Lbs.):	5	7	11
Internal Fishing Neck:	2 GS Equiv.	2 GS Equiv.	2-1/2 GS Equiv.
Torque Capacity:	600 Ft-Lbs	600 Ft-Lbs	800 Ft-Lbs
Maximum Work Load (Yield):	35,000	35,000	40,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	400-600

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The Taylor Made Knuckle Joints provide tool string flexibility and pressure integrity. The knuckle joint can be used as a swivel joint while assembling a tool string or used to assist alignment of retrieval tools with fish. The knuckle tension can be easily adjusted by the tension lock nut.

DESIGN FEATURES

- Adjustable Knuckle Tension
- Pump Through Sealed
- Heavy Duty for Fishing

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KNUCKLE JOINT

Assembly Part Number:	KJ-1-750-0	KJ-2-250-0	KJ-2-625-0	KJ-3-500-0
Nominal O.D.:	1.750	2.250	2.625	3.500
Minimum I.D.:	0.250	0.375	0.500	1.000
Overall Length (in.):	13.250	13.375	13.375	16.000
Makeup Length (in.):	11.062	11.187	11.187	13.812
Weight (Lbs.):	8	10	13	27
Maximum Work Load (Yield):	52,500	125,000	160,000	205,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600

- The values contained herein are not to be construed as absolute. They are for reference only.
- Other thread connections available upon request.

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The Taylor Made Mechanical Up & Down Jar delivers both upward and downward impact. Upward impact is achieved by upward strain sufficient to overcome the selected up release setting. Downward impact is achieved by applying downward compression sufficient to overcome the selected down release setting.

Either upward or downward impact can be delivered by returning the jar to neutral weight and then applying strain or compression in the direction of desired impact.

The upward and downward release setting are independent and adjusted separately.

DESIGN FEATURES

- Fully Mechanical
- Not Affected by Temperature
- Not Affected by Pressure
- Up & Down Impact
- Sealed for Circulation
- Torque Transmitting
- Not dependent on Seals for Performance

U.S. Patent No.: 4,844,157
5,069,332
5,170,843
5,022,473

On surface, Jars are tested for proper release setting and function. On site adjustment can be performed based on the pre-job calibration.

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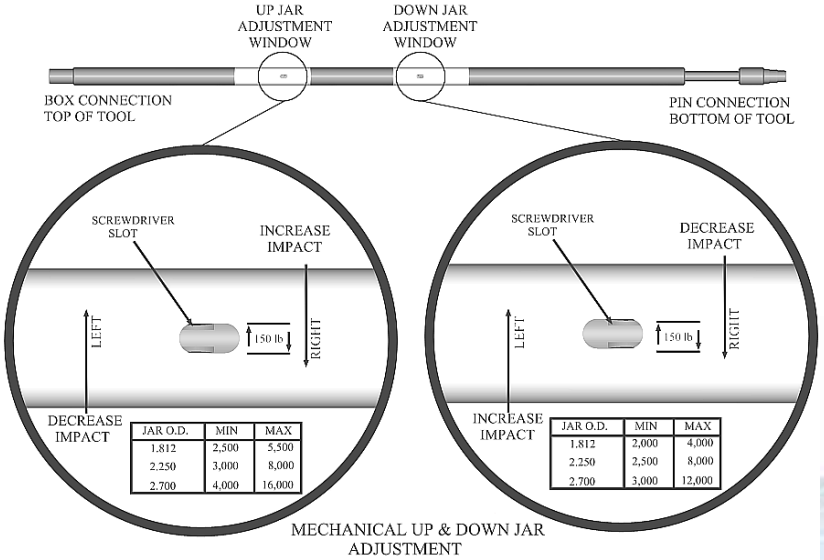

MECHANICAL UP & DOWN JAR ADJUSTMENT

UP & DOWN JAR

Assembly Part Number:	UDJ-1-562-0	UDJ-1-660-0	LDUDJ-1-812-0	UDJ-1-812-0	UDJ-2-250-0	UDJ-2-700-0	UDJ-3-125-0
Nominal O.D.:	1.562	1.660	1.812	1.812	2.250	2.700	3.125
Minimum I.D.:	0.250	0.250	0.562	0.250	0.312	0.562	1.000
Overall Length - CLOSED:	6' 9-1/2"	6' 9-1/2"	6' 11-3/4"	6' 11-3/4"	7' 1"	7' 7"	11' 2"
Overall Length - OPEN:	7' 3"	7' 3"	8' 0-1/4"	8' 0-1/4"	8' 1"	8' 7-1/2"	12' 0"
Makeup Length- CLOSED:	6' 7-5/16"	6' 7-5/16"	6' 9-5/16"	6' 9-5/16"	6' 10-13/16"	7' 4-13/16"	11' 8-27/32"
Makeup Length - OPEN:	7' 0-13/16"	7' 0-13/16"	7' 10-1/16"	7' 10-1/16"	7' 10-13/16"	8' 5-5/16"	11' 8-27/32"
Weight (Lbs.):	41	42	48	48	77	119	224
Torque Capacity:	400 Ft-Lbs	400 Ft-Lbs	400 Ft-Lbs	400 Ft-Lbs	1,100 Ft-Lbs	1,900 Ft-Lbs	6,500 Ft-Lbs
Maximum Work Load (Yield):	40,000	40,000	42,500	45,000	105,000	130,000	200,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	2-3/8" API Reg. Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	300-400	300-400	400-600	400-600	3700
Minimum Up Force (Lbs):	2,500	2,500	2,000	2,500	3,000	4,000	5,000
Maximum Up Force (Lbs):	4,000	4,000	4,500	5,500	8,000	16,000	34,000
Minimum Down Force (Lbs):	2,000	2,000	2,000	2,000	2,500	3,000	5,000
Maximum Down Force (Lbs):	4,000	4,000	4,000	4,000	8,000	12,000	20,000

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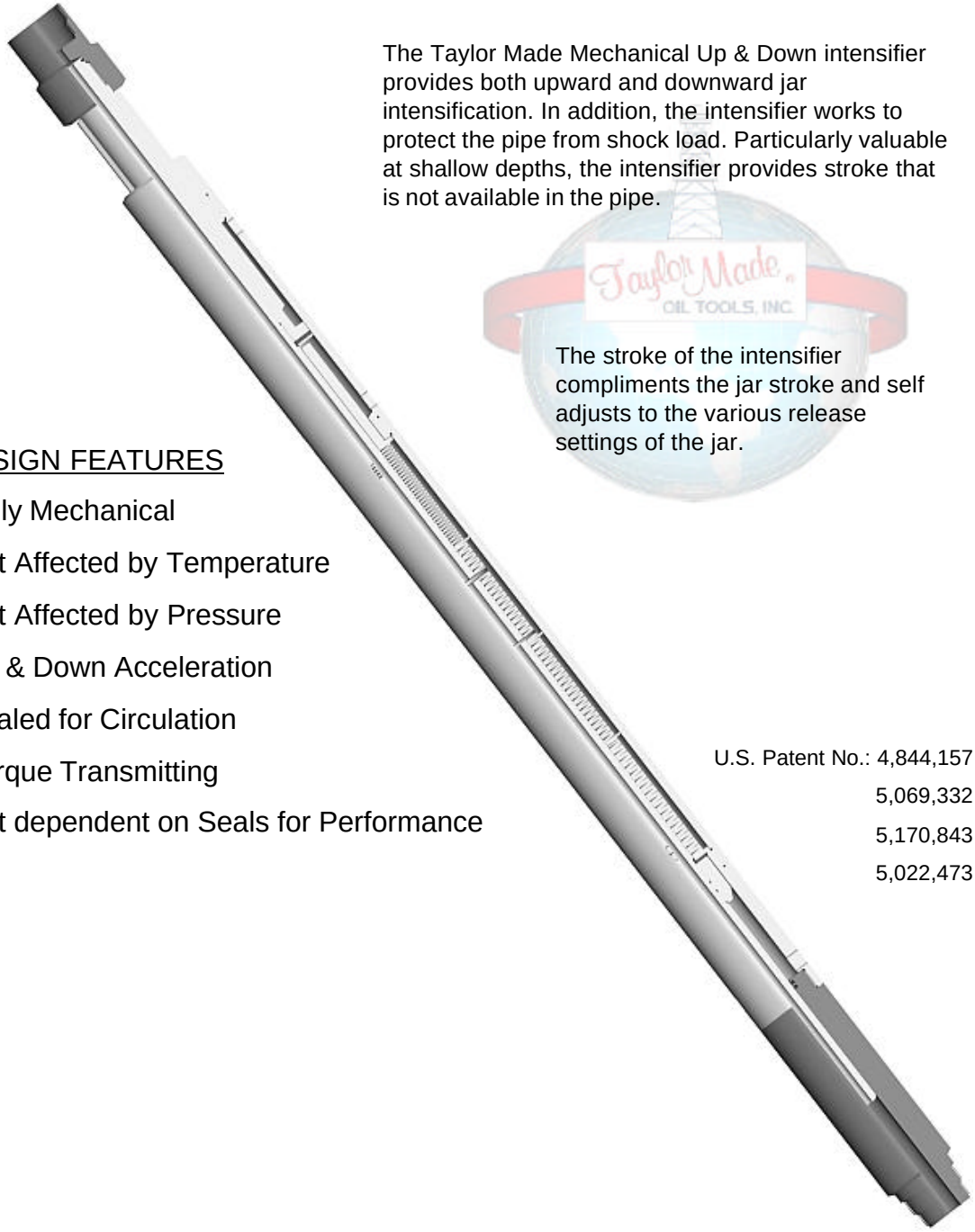
MECHANICAL UP & DOWN INTENSIFIER



The Taylor Made Mechanical Up & Down intensifier provides both upward and downward jar intensification. In addition, the intensifier works to protect the pipe from shock load. Particularly valuable at shallow depths, the intensifier provides stroke that is not available in the pipe.

The stroke of the intensifier compliments the jar stroke and self adjusts to the various release settings of the jar.

DESIGN FEATURES

- Fully Mechanical
- Not Affected by Temperature
- Not Affected by Pressure
- Up & Down Acceleration
- Sealed for Circulation
- Torque Transmitting
- Not dependent on Seals for Performance

U.S. Patent No.: 4,844,157
5,069,332
5,170,843
5,022,473

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Taylor Made OIL TOOLS, INC.

UP & DOWN INTENSIFIER

Assembly Part Number:	UDACC-1-562-0	UDACC-1-660-0	LDUDACC-1-812-0	UDACC-1-812-0	UDACC-2-250-0	UDACC-2-700-0	UDACC-3-125-0
Nominal O.D.:	1.562	1.660	1.812	1.812	2.250	2.700	3.125
Minimum I.D.:	0.250	0.250	0.562	0.250	0.312	0.562	1.000
Overall Length (in.):	6' 3-1/2"	6' 3-1/2"	6' 6-1/8"	6' 6-1/8"	7' 0"	6' 11-3/16"	11' 11-27/32"
Makeup Length (in.):	6' 1-5/16"	6' 1-5/16"	6' 3-15/16"	6' 3-15/16"	6' 9-13/16"	6' 9"	11' 8-27/32"
Weight (Lbs.):	35	36	42	42	68	100	122
Torque Capacity:	400 Ft-Lbs	400 Ft-Lbs	400 Ft-Lbs	400 Ft-Lbs	1,100 Ft-Lbs	1,900 Ft-Lbs	6,500 Ft-Lbs
Maximum Work Load (Yield):	40,000	40,000	42,500	45,000	105,000	130,000	200,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	2-3/8" API Reg. Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600	400-600	400-600	3700

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•Other thread connections available upon request.

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The Taylor Made Mechanical Wireline Jar releases to create an upward impact when the applied line overpull equals the pre-load adjustment of the jar setting. When returned to neutral and slacked off upon, the jar will automatically recock.

There is no delay for release or recock. Once the pre-load adjustment is exceeded, the release is immediate.

DESIGN FEATURES

- Fully Mechanical
- Not Affected by Temperature
- Not Affected by Pressure
- Easy Recock
- Not Dependent on Seals for Performance

Jar adjustment is performed by removing the top bushing and inserting the adjustment wrench.

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MECHANICAL WIRELINE JAR

Assembly Part Number:	JZ-1-562-0	JZ-1-812-0
Nominal O.D.:	1.562	1.812
Overall Length - COCKED:	3' 8"	3' 8-1/4"
Overall Length - CLOSED:	3' 7-1/4"	3' 7-1/2"
Overall Length - OPEN:	4' 2"	4' 2-1/4"
Weight (Lbs.):	18	25
Maximum Work Load (Yield):	16,500	16,500
Standard Connection**:	5/8" SR	3/4" SR
Make-up Torque (Ft-Lbs):		
Minimum Up Force (Lbs):	300	400
Maximum Up Force (Lbs):	1,000	1,600

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•Other thread connections available upon request.

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The Taylor Made Mechanical Wireline Intensifier stores energy that is applied by line tension. Installed in the tool string above the jars and weight bar, the intensifier provides protection from shock load. Adjustment to various jar settings is automatic as the intensifier stores energy from the highest to the lowest jar setting.

Fully mechanical, the intensifier is not dependent upon seals for performance. Pressure and temperature do not hinder the intensifier's performance.

DESIGN FEATURES

- Fully Mechanical
- Not Affected by Temperature
- Not Affected by Pressure
- Self Adjusting
- Not Dependent on Seals for Performance

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MECHANICAL WIRELINE INTENSIFIER

Assembly Part Number:	AZ-1-562-0	AZ-1-812-0
Nominal O.D.:	1.562	1.812
Overall Length (in.):	3' 1-1/8"	3' 1-1/8"
Weight (Lbs.):	15	20
Torque Capacity:	NA	NA
Maximum Work Load (Yield):	16,500	16,500
Standard Connection**:	5/8" SR	3/4" SR
Make-up Torque (Ft-Lbs):		

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•Other thread connections available upon request.

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The standard Taylor Made Mechanical Wireline has been adapted to provide electric line operators jarring action and conductivity through the tool.

The Electric Wireline Jar releases to create an upward impact when the applied line overpull equals the pre-load adjustment of the jar setting. When returned to neutral and slacked off upon, the jar will automatically recock.

There is no delay for release or recock. Once the pre-load adjustment is exceeded, the release is immediate.

DESIGN FEATURES

- Fully Mechanical
- Will Not Pressure Lock
- Easy Recock
- Not Dependent on Seals for Performance

Jar adjustment is performed by removing the top bushing and inserting the adjustment wrench.

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MECHANICAL ELECTRIC WIRELINE JAR

Assembly Part Number:	ELJZ-1-562-0	ELJZ-1-812-0
Nominal O.D.:	1.562	1.812
Overall Length - COCKED:	6' 1-3/4"	6' 1-3/4"
Overall Length - CLOSED:	6' 1"	6' 1"
Overall Length - OPEN:	6' 7-3/4"	6' 7-3/4"
Weight (Lbs.):	28	35
Maximum Work Load (Yield):	16,500	16,500
Standard Connection**:		
Make-up Torque (Ft-Lbs):		
Minimum Up Force (Lbs):	300	400
Maximum Up Force (Lbs):	1,000	1,600

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•Other thread connections available upon request.

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The Taylor Made Ratchet Overshot is a Vertical Catch/Vertical Release external pulling tool. Deployed in the release position, the overshot will automatically engage upon contact with the fish. Applying approximately 250 lb. slack off weight will cause the overshot to release from the fish. The activation from release to engage can be repeated as many times as required. There are no shear pins, the ratchet mechanism cycles the grapple between the release and engage position.

Grapples and Bowls are easily changed to accommodate a variety of fish dimensions. Smaller diameter overshots can be converted to utilize much larger diameter bowls and grapples.

DESIGN FEATURES

- Vertical Catch/Release
- Sealed for Circulation
- No Shear Pins
- Mechanically Operated

U.S. Patent No.: 5,085,479

The Overshot can be fitted with a wide variety of Bowls, Grapples, guides, and extensions to externally engage practically any type of fish.

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RATCHET OVERSHOT

Assembly Part Number:	RO-1-844-0	RO-2-250-0	RO-2-812-0	RO-3-250-0
Nominal O.D.:	1.844	2.250	2.812	3.250
Minimum I.D.:	0.187	0.312	0.750	0.875
Overall Length:	2' 3-1/2"	2' 4"	2' 9-3/16"	3' 0-1/8"
Makeup Length:	2' 3-1/2"	2' 4"	2' 9-3/16"	3' 0-1/8"
Weight (Lbs.):	14	20	27	35
Maximum Work Load (Yield):	44,000	72,000	80,000	105,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600
Catch Range - FN:	.625 - 1.375	1.000 - 1.750	1.375 - 1.750	1.375 - 2.312
Catch Range - FC:	.687 - 1.500	.750 - 1.937	.750 - 1.937	1.750 - 2.750
Catch Range - CT:	3/4", 1", 1-1/4'	1", 1-1/4", 1-1/2"	1-1/4", 1-1/2", 2"	1-1/2" - 2-3/8"
Converted to:	2.250"	2.812"	3.062"	3.750"
Catch Range - FN:	.875 - 1.750	-----	-----	-----
Catch Range - FC:	.750 - 1.937	.750 - 1.937	1.000 - 2.375	2.000 - 3.250
Catch Range - CT:	1", 1-1/4", 1-1/2"	1-1/4", 1-1/2", 2"	1" - 2.375"	1-1/2" - 2-7/8"
Converted to:		2.844"		4.375"
Catch Range - FN:	-----	1.375 - 2.312	-----	-----
Catch Range - CT:	-----	-----	-----	1.500 - 3.500

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- Other thread connections available upon request.

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HYDRO MECHANICAL RATCHET OVERSHOT

The Taylor Made Hydro Mechanical Ratchet Overshot will engage a fish mechanically and release hydraulically. When in the released position, the Overshot can not be activated by pump rate and will only activate when the fish neck is contacted. When in the engage position, the Overshot will not release through contact with the fish and will only release when pumped through at a sufficient rate.

DESIGN FEATURES

- Prevents Inadvertent Release from Fish Neck
- Repeatable Release & Engagement
- Permits Low Circulation Rate Without Releasing
- Adjustable Pump Rate for Release

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HYDRO MECHANICAL RATCHET OVERSHOT

Assembly Part Number:	HYDRO-1-844-0	HYDRO-2-250-0	HYDRO-2-812-0	HYDRO-3-250-0
Nominal O.D.:	1.844	2.250	2.812	3.250
Maximum Work Load (Yield):	44,000	72,000	80,000	105,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600
Catch Range - FN:	.625 - 1.375	1.000 - 1.750	1.375 - 1.750	1.375 - 2.312
Catch Range - FC:	.687 - 1.500	.750 - 1.937	.750 - 1.937	1.750 - 2.750
Catch Range - CT:	3/4", 1", 1-1/4'	1", 1-1/4", 1-1/2"	1-1/4", 1-1/2", 2"	1-1/2" - 2-3/8"
Converted to:	2.250"	2.812"	3.062"	3.750"
Catch Range - FN:	.875 - 1.750	-----	-----	-----
Catch Range - FC:	.750 - 1.937	.750 - 1.937	1.000 - 2.375	2.000 - 3.250
Catch Range - CT:	1", 1-1/4", 1-1/2"	1-1/4", 1-1/2", 2"	1" - 2.375"	1-1/2" - 2-7/8"
Converted to:		2.844"		4.375"
Catch Range - FN:	-----	1.375 - 2.312	-----	-----
Catch Range - CT:	-----	-----	-----	1.500 - 3.500

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The Taylor Made Ratchet Spear is a Vertical Catch/Vertical Release internal pulling tool. Deployed in the release position, the spear will automatically engage upon contact with the fish. Applying approximately 250 lb. slack off weight will cause the spear to release from the fish. The activation from release to engage can be repeated as many times as required. There are no shear pins, the ratchet mechanism cycles the slip between the release and engage position.

Slips and Nose Cones are easily changed to accommodate a variety of fish dimensions. Smaller diameter spears can be converted to utilize much larger diameter slips and nose cones.

DESIGN FEATURES

- Vertical Catch/Release
- Sealed for Circulation
- No Shear Pins
- Mechanically Operated

U.S. Patent No.: 5,085,479

A wide variety of nose cones, slips, extensions, guides, and adapters can be added to the standard spear.

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Taylor Made OIL TOOLS, INC.

RATCHET SPEAR

Assembly Part Number:	RS-1-844-0	RS-2-250-0	RS-3-125-0
Nominal O.D.:	1.844	2.250	3.125
Minimum I.D.:	0.187	0.312	0.625
Overall Length:	33.500	33.500	39.000
Makeup Length:	33.500	33.500	39.000
Weight (Lbs.):	18	26	60
Maximum Work Load (Yield):	37,000	47,000	55,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600
Catch Range - Standard:	1.062 - 1.625	1.375 - 1.750	2.312 -2.500
Catch Range - Option 1:	0.86	.937 - 1.562	1.375 - 1.750
Catch Range - Option 2:	.973 - 1.062	-----	1.562 - 2.562
Catch Range - Option 3:	1.062 - 1.625	-----	-----
Converted to:	2.250"	2.812"	3.625"
Catch Range:	1.375 - 1.875	1.562 - 2.562	3.125

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•Other thread connections available upon request.

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The Taylor Made Hydro Mechanical GS Adapter can convert any standard GS pulling tool to operate mechanically with hydraulic assist. When the adapter is attached to a standard GS pulling tool, applying slack off weight and pumping through the tool will lock the GS in the released position. Returning to neutral weight and allowing pressures to stabilize will allow the tool to reengage the fish neck. A low rate of circulation will not cause the tool to release.

DESIGN FEATURES

- Adapts to Standard Pulling Tools
- Repeatable Operation
- No Shear Pins
- Can be used as Running Tool

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Taylor Made OIL TOOLS, INC.

HYDRO MECHANICAL GS ADAPTER

Assembly Part Number:	FRGS-1-687-0	FRGS-2-000-0	FRGS-2-500-0	FRGS-3-000-0	FRGS-4-000-0
Nominal O.D.:	2.000	2.000	2.500	3.000	4.000
Actual O.D.:	1.687	1.812	2.160	2.720	3.620
Minimum I.D.:	***	***	***	***	***
Overall Length:	2' 3/4"	2' 3/4"	2' 3/4"	2' 3/4"	2' 3/4"
Makeup Length:	2' 3/4"	2' 3/4"	2' 3/4"	2' 3/4"	2' 3/4"
Weight (Lbs.):	12	13	14	15	18
Maximum Work Load (Yield):	49,000	49,000	52,000	60,000	60,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	400-600	400-600	400-600
Standard Catch:	2" GS Equiv.	2" GS Equiv.	2 1/2" GS Equiv.	3" GS Equiv.	4" GS Equiv.

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•Other thread connections available upon request.

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The Taylor Made Hydro Mechanical J Adapter can convert any standard J series pulling tool to operate mechanically with hydraulic assist. When the adapter is attached to a standard J pulling tool, applying slack off weight and pumping through the tool will lock the pulling tool in the released position. Returning to neutral weight and allowing pressures to stabilize will allow the tool to reengage the fish neck. A low rate of circulation will not cause the tool to release.

A lock out feature within the adapter secures the pulling tool core to prevent core movement before activation to the released position.

DESIGN FEATURES

- •Adapts to Standard Pulling Tools
- •Repeatable Operation
- •No Shear Pins
- •Can be used as Running Tool

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HYDRO MECHANICAL" J" ADPATER

Assembly Part Number:	HJPT-2-000-0	HJPT-2-500-0	HJPT-3-000-0
Nominal O.D.:	2.000	2.500	3.000
Actual O.D.	1.859	2.250	2.796
Overall Length :	2' 5-3/4"	2' 5-3/4"	2' 5-3/4"
Makeup Length :	2' 5-3/4"	2' 5-3/4"	2' 5-3/4"
Weight (Lbs.):	15	19	21
Standard Catch:	1.375 F.N.	1.750 F.N.	2.312 F.N.
Maximum Work Load (Yield):	32,600	37,700	42,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1 1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	400-600

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•Other thread connections available upon request.

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The Taylor Made Indexing Tool rotates bottom hole assemblies in 60º increments. Use the indexing tool to by-pass ledges or obstructions, rotate fishing tools, or align BHA with fish. The indexing tool is available with either mechanical or hydraulic activation.

The mechanical model rotates by applying slack off weight. Each time slack off weight is applied partial rotation occurs. When relieved, the tool's bottom sub completes the 60º incremental rotation.

Hydraulic models rotate partially each time the pump rate is increased to exceed the pre-set activation rate. When circulation is stopped, the 60º incremental rotation is completed. Hydraulic models also rotate by applying and relieving slack off weight.

DESIGN FEATURES

- Mechanical or Hydraulic/Mechanical
- Large Bore ID (Mechanical Model)
- Rotation Concurrent with Weight Application
- Heavy Duty Design for Installation in Fishing Strings

U.S. Patent No.: 5,787,981

A mule shoe wash nozzle attached to the indexing tool can help by-pass a liner top. A cut lip guide attached to an overshot and installed below the indexing tool can help align with a fish.

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INDEXING TOOL

Assembly Part Number:	IT-1-844-0	IT-2-125-0	IT-2-700-0
Nominal O.D.:	1.844	2.250	2.750
Minimum I.D.:	0.562	0.625	1.000
Overall Length (in.):	31.500	32.500	33.000
Makeup Length (in.):	29.312	30.312	30.812
Weight (Lbs.):	15	22	32
Minimum Torque	8 Ft- Lbs	9 Ft- Lbs	20 Ft- Lbs
@ Minimum Load of:	350 Lbs	350 Lbs	500 Lbs
Maximum Work Load (Yield):	35,000	44,000	77,500
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600

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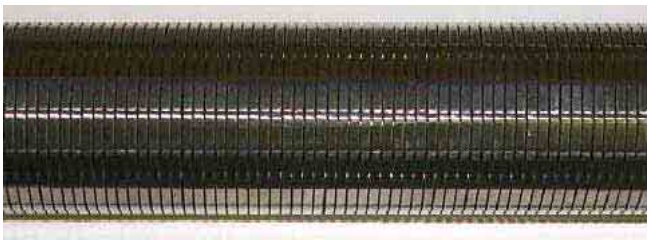
The Taylor Made In Line Filter can be installed in the BHA to prevent debris from plugging tools. Tools dependent upon a small orifice or restricted ID are subject to plugging off, the in line filter utilizes a wire wrapped screen to protect downhole tools from debris accumulation.

DESIGN FEATURES

- Large Surface Area
- Stainless Steel Screen Filter

STAINLESS STEEL WIRE WRAPPED SCREEN



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IN LINE FILTER

Assembly Part Number:	ILF-1-750-0	ILF-2-062-0	ILF-2-625-0	ILF-3-187-0
Nominal O.D.:	1.750	2.125	2.625	3.250
Minimum I.D.:	***	***	***	***
Overall Length :	24-7/8"	24-7/8"	25-3/4"	25-3/4"
Makeup Length :	22-5/8"	22-5/8"	23-1/2"	23-1/2"
Weight (Lbs.):	8	10	15	22
Maximum Work Load (Yield):	41,000	73,000	98,000	150,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600

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The Taylor Made Circulating Junk Basket is designed to retrieve small debris and light debris that cannot be removed using standard mechanical tools.

Circulation through the jet body creates a pressure differential between the ambient fluid and the trap body chamber causing flow into the trap body. Debris is caught in the flow path and circulated into the trap body.

Captured debris is retained by the flutter trap. The filter located below the jet body prevents debris from reentering the circulation path.

DESIGN FEATURES

- Flutter Trap
- Extendable
- Stainless Steel Screen Filter

Stainless Steel Filters & Flutter Traps
Prevent debris form escaping the Junk Basket

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CIRCULATING JUNK BASKET

Assembly Part Number:	JB-1-750-0	JB-2-062-0	JB-2-625-0	JB-3-187-0
Nominal O.D.:	1.750	2.125	2.625	3.250
Minimum I.D.:	***	***	***	***
Overall Length :	3' 9-5/8"	3' 9-5/8"	3' 10-1/8"	4' 5-1/8"
Makeup Length :	3' 9-5/8"	3' 9-5/8"	3' 10-1/8"	4' 5-1/8"
Weight (Lbs.):	19	23	28	35
Maximum Work Load (Yield):	41,000	73,000	98,000	150,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600

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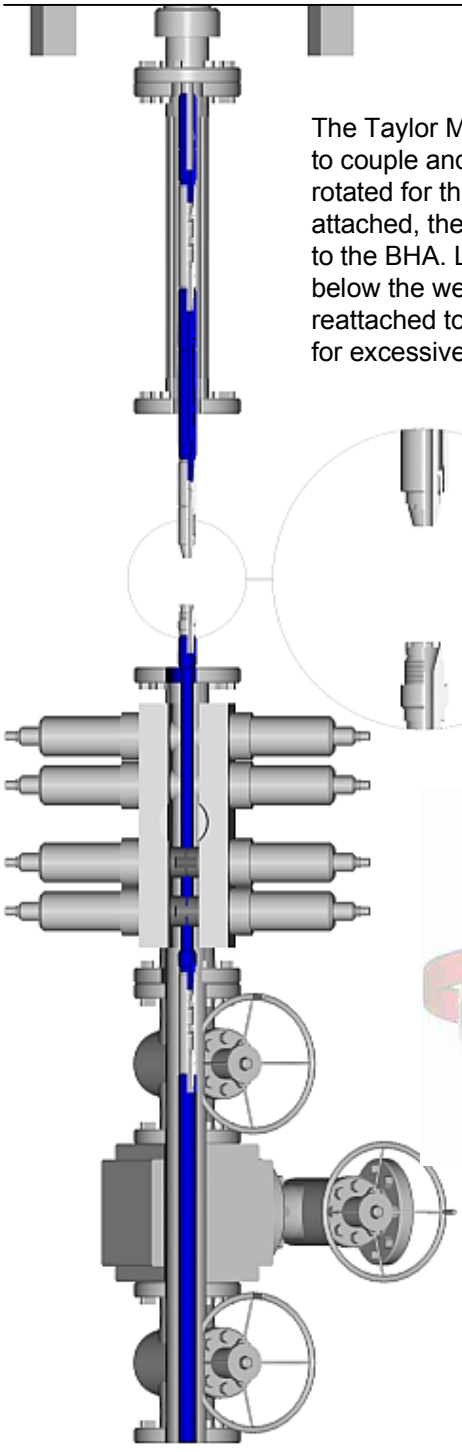

The Taylor Made Deployment Union is designed to couple and uncouple BHA's that can not be rotated for threading on to the coiled tubing. Once attached, the clutch provides torque transmission to the BHA. Lengthy tool strings can be lubricated below the wellhead by wireline and then reattached to coiled tubing, eliminating the need for excessive riser height.

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DEPLOYMENT UNION

Assembly Part Number:	DPU-1-844-0	DPU-2-250-0
Nominal O.D.:	1.844	2.250
Minimum I.D.:	0.625	0.812
Overall Length (in.):	15.562	15.562
Makeup Length :	13.375	13.375
Weight (Lbs.):	7	9
Maximum Work Load (Yield):	55,500	84,500
Pressure Rating:	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600

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The Taylor Made Swivel Joint is a lockable swivel that allows tool strings to be assembled without having to rotate the tool sting components above the swivel joint. Once the connections below the swivel joint have been tightened, keys are inserted into the swivel joint and secured to provide torque transmission. Built in vertical slack helps to locate a position of neutral tension. When locked and tightened, the built in vertical slack is removed.

DESIGN FEATURES

- Torque Transmitting
- Lockable Swivel
- Sealed for Circulation
- Vertical Slack

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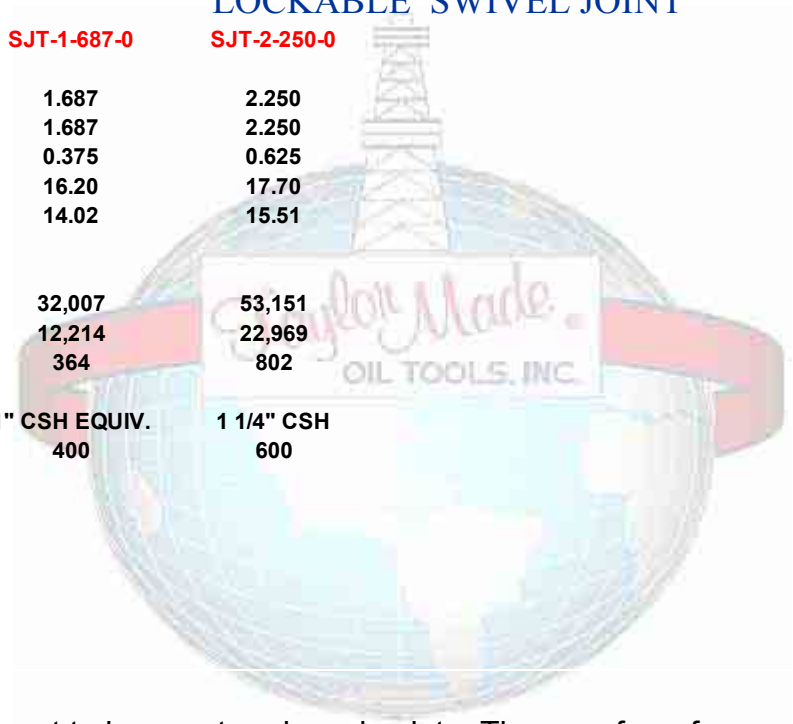
LOCKABLE SWIVEL JOINT

ASSEMBLY PART NO.:	SJT-1-687-0	SJT-2-250-0
NOMINAL OD (in):	1.687	2.250
ACTUAL OD (in):	1.687	2.250
MINIMUM ID (in):	0.375	0.625
OVERALL LENGTH (in):	16.20	17.70
MAKE UP LENGTH (in):	14.02	15.51
WEIGHT (lb):		
MAXIMUM WORK LOAD (yield lb)	32,007	53,151
PRESSURE RATING (psi):	12,214	22,969
TORQUE CAPACITY (ft-lb):	364	802
STANDARD CONNECTION:	1" CSH EQUIV.	1 1/4" CSH
MAKE UP TORQUE (ft-lb):	400	600



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The Taylor Made Tubing End Locator provides a reliable surface indication of production string restrictions and the tubing end for depth correlation. Within the production tubing, drag will be approximately 1000 to 1200 lb. When a normal nipple restriction is reached drag will increase approximately 400 lb. When the end of the production tubing is reached all drag produced by the tubing end locator will be lost. The process of locating restrictions can be repeated as many times as desired.

DESIGN FEATURES

- Repeatable Surface Indications
- Can be used as Centralizer
- Can be used as Friction Tool
- Locates Landing Nipples & Tubing End

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TUBING END LOCATOR

Assembly Part Number:	TEL-2-375-0	TEL-2-875-0	TEL-3-500-0	TEL-4-500-0
Tubing Size:	2-3/8"	2-7/8"	3-1/2'	4-1/2"
Nominal O.D. - Mandrel:	1.750	2.125	2.500	3.250
O.D. - Centralizer Spg - Nipple:***	1.995	2.312	2.995	3.813
O.D. - Centralizer Spg - End:***	2.125	2.562	3.125	4.125
Minimum I.D.:	0.750	0.812	1.000	1.000
Drag in Tubing (Lbs):	1,000/1,200	1,000/1,200	1,600/1,800	1,600/1,800
Overall Length (in.):	2' 8-1/2"	2' 10-1/2"	3' 0"	3' 5-5/16"
Makeup Length (in.):	2' 6-5/16"	2' 8-5/16"	2' 9-13/16"	3' 3-1/8"
Weight (Lbs.):	16	29	40	67
Maximum Work Load (Yield):	44,000	100,000	130,000	195,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600

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The Taylor Made Tubing Cleaner removes barium, scale, cement, paraffin, and most other build up from the production tubing wall. The spring loaded pivotal blades allow the tubing cleaner to pass through normal tubing restrictions and clean out to the full tubing ID. Blades are specially designed to pass through the minimum restriction and expand to the tubing drift diameter. Either rotated from surface or below a motor, the tubing cleaner blades have sufficient spring loading for maximum cleaning efficiency.

DESIGN FEATURES

- Blade Cleaning Ports
- Pivotal Carbide Blades

Carbide dressed blades are designed for each job. The blade are then gauged for the minimum restriction and drift diameter

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TUBING CLEANER

Assembly Part Number:	TCL-1-650-0	TCL-2-250-0	TCL-3-250-0
Nominal O.D.:	1.650	2.250	3.250
Minimum I.D.:	0.250	0.375	0.625
Tubing Size:	2-3/8"	3-1/2"	4-1/2"
Minimum Blade O.D.:	1.650	2.412	3.437
Maximum Blade O.D.:	2.000	3.000	4.000
Tubing Size:	2-7/8"	4"	5"
Minimum Blade O.D.:	2.150	2.912	3.937
Maximum Blade O.D.:	2.500	3.500	4.500
Overall Length (in.):	1' 1-5/8"	1' 6-7/16"	1' 10-15/16"
Makeup Length (in.):	11-7/16"	1' 4-1/4'	1' 8-3/4"
Weight (Lbs.):	7	17	35
Torque Capacity:	550 Ft-Lbs	2,750 Ft-Lbs	5,000 Ft-Lbs
Maximum Work Load (Yield):	44,000	130,000	195,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600

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The Taylor Made Hydro Jet is a fully adjustable jet nozzle used for normal pressure cleaning applications. The jet pattern can be adjusted from a narrow straight stream to a wide angle pattern for full circumference cleaning.

DESIGN FEATURES

- Adjustable Jet Pattern
- Heat Treated Nozzle Cone
- Easy Adjustment

The adjustable spray pattern allows for a wide range of target focus

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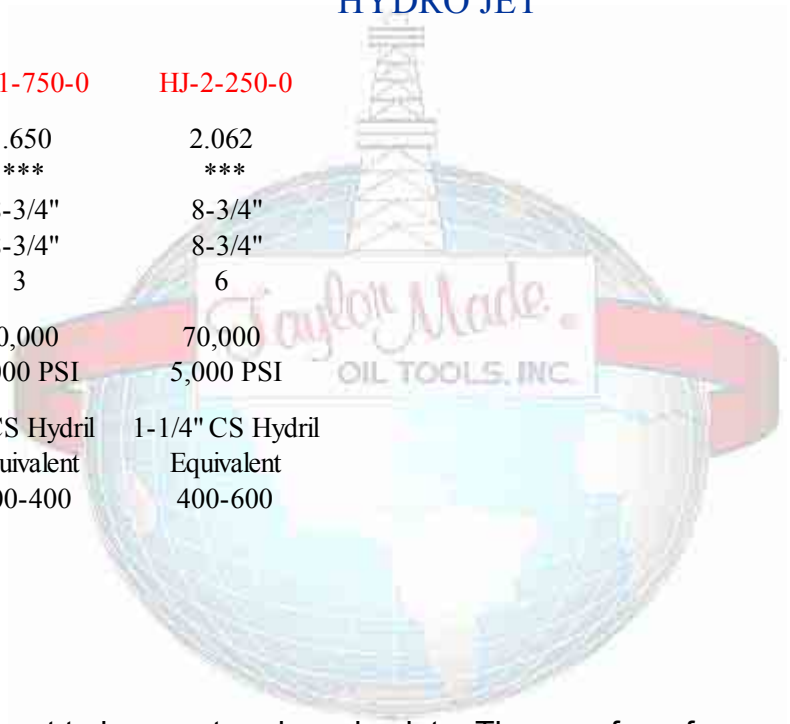
HYDRO JET

Assembly Part Number:	HJ-1-750-0	HJ-2-250-0
Nominal O.D.:	1.650	2.062
Minimum I.D.:	***	***
Overall Length (in.):	8-3/4"	8-3/4"
Makeup Length (in.):	8-3/4"	8-3/4"
Weight (Lbs.):	3	6
Maximum Work Load (Yield):	30,000	70,000
Pressure Rating:	5,000 PSI	5,000 PSI
Standard Tubing Connection **:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600



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The Taylor Made Dual Circulating Valve provides a means of emergency circulation through rupture discs and a ball operated circulating feature. The rupture discs provide a means of circulating if the BHA become plugged. Applied internal pressure exceeding the burst rating of the disc will cause the discs to rupture and open circulation to the annular area. The ball operated valve shifts open when a ball is dropped to the tool and pressure is applied to exceed the pre determined shear value of the valve. Once shifted, circulation is diverted to the annular area. When not required, the rupture discs can be removed and replaced with plugs.

DESIGN FEATURES

- Adjustable Shear Values
- Internal Shear Screws
- Pressure Balanced Valve

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DUAL CIRCULATING VALVE

Assembly Part Number:	DCV-1-687-0	DCV-2-125-0
Nominal O.D.:	1.687	2.125
Minimum I.D.:	0.437	0.562
Overall Length (in.):	10.937	11.950
Makeup Length (in.):	8.750	9.750
Weight (Lbs.):	4	6
Maximum Work Load (Yield):	37,500	63,400
Pressure Rating:	10,000 PSI	10,000 PSI
Temperature Rating (Deg. F):	-20 / +250	-20 / +250
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600

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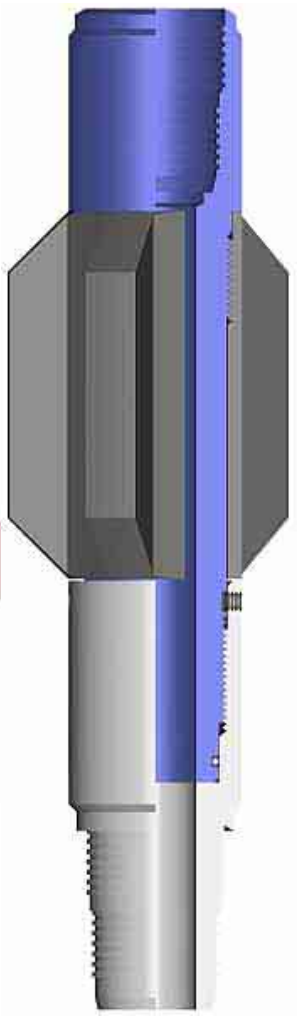
The Taylor Made Tool String Centralizer features changeable centralizer sleeves for added versatility. The 5 bladed sleeves can be removed and changed to suit the required centralizer diameter. Threaded onto the main mandrel, the sleeves are non-rotating.



DESIGN FEATURES

- Non Rotating Sleeves
- Rugged 5 bladed Sleeves
- Changeable Sleeve Diameters

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TOOL STRING CENTRALIZER

Assembly Part Number:	NRTSC-1-750-0	NRTSC-2-125-0	NRTSC-2-500-0	NRTSC-2-875-0	NRTSC-3-250-0
Body O.D.:	1.750	2.125	2.500	2.875	3.250
O.D. Range	2.125 to 3.125	2.500 to 3.500	2.875 to 3.875	3.250 to 4.625	3.625 to 5.000
Minimum I.D.:	0.750	1.000	1.000	1.375	1.750
Overall Length (in.):	13.688	13.000	13.437	13.500	13.500
Makeup Length (in.):	11.500	10.812	13.937	11.312	11.312
Weight (Lbs.):	7 to 8	9 to 11	14 to 16	17 to 21	19 to 22
Torque Capacity:	1500 ft-lb	3500 ft-lb	5000 ft-lb	7000 ft-lb	10000 ft-lb
Maximum Work Load (Yield):	65,000	93,000	140,000	160,000	190,000
Pressure Rating:	10,000 PSI	10,000 PSI	10,000 PSI	10,000 PSI	10,000 PSI
Standard Tubing Connection**:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600	400-600	400-600	400-600

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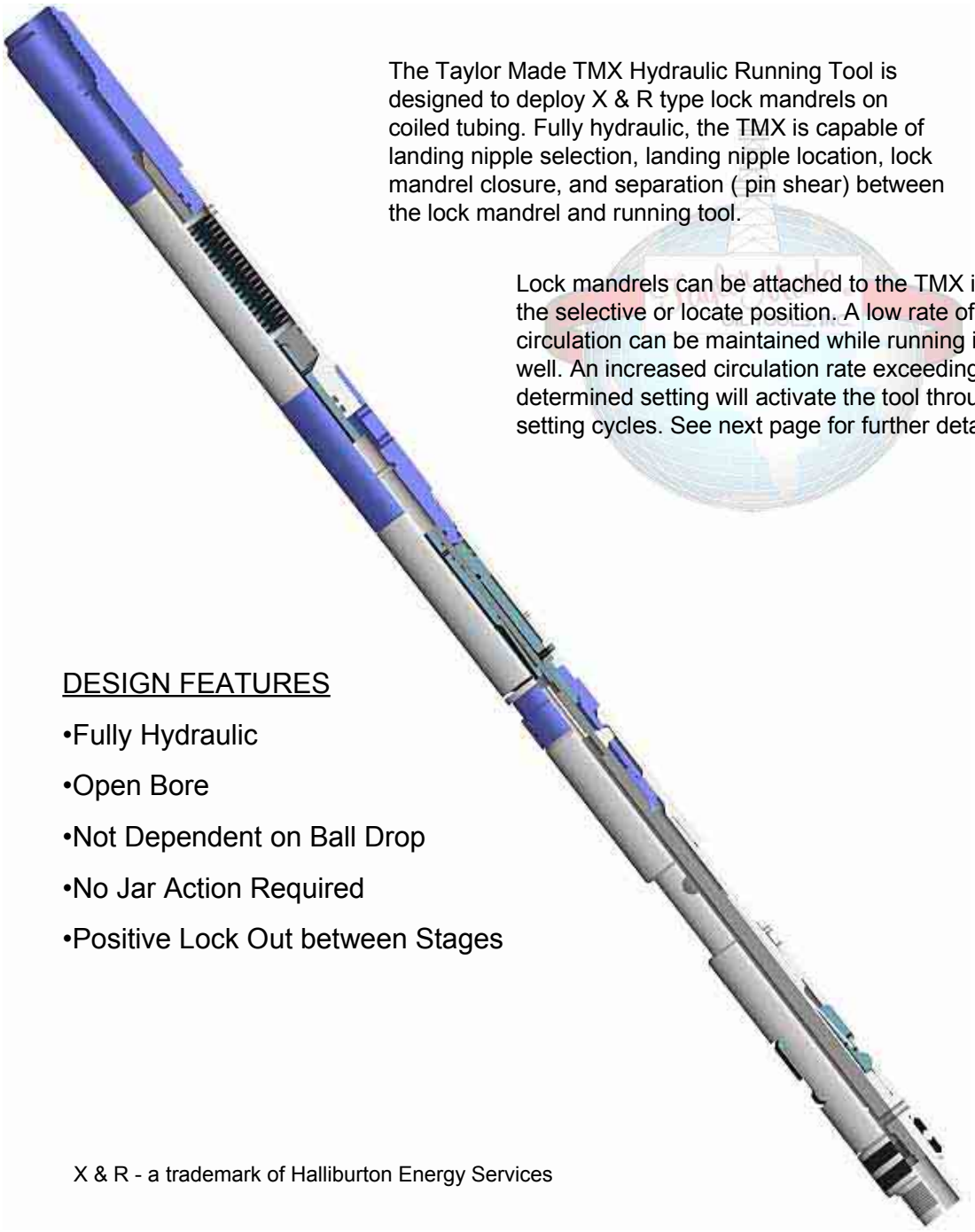

The Taylor Made TMX Hydraulic Running Tool is designed to deploy X & R type lock mandrels on coiled tubing. Fully hydraulic, the TMX is capable of landing nipple selection, landing nipple location, lock mandrel closure, and separation (pin shear) between the lock mandrel and running tool.

Lock mandrels can be attached to the TMX in either the selective or locate position. A low rate of circulation can be maintained while running in the well. An increased circulation rate exceeding the pre determined setting will activate the tool through the setting cycles. See next page for further details.

DESIGN FEATURES

- Fully Hydraulic
- Open Bore
- Not Dependent on Ball Drop
- No Jar Action Required
- Positive Lock Out between Stages

X & R - a trademark of Halliburton Energy Services

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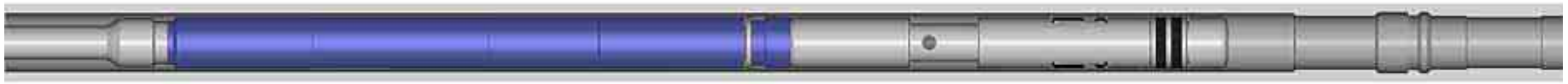
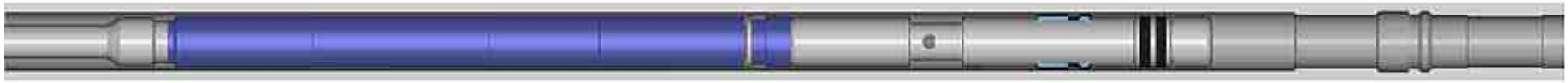
SEQUENCE OF OPERATION

When an X or R landing nipple is to be located below another landing nipple of the same size, the Lock Mandrel is attached in the selective position. The lock mandrel and running tool are deployed to a depth just above the desired landing nipple.



Pump rate is increased to the level set to activate the running tool. The running tool shifts the lock mandrel to the locate position. When the first landing nipple or no-go nipple are to be located, the lock mandrel/running tool may be run in this locate position.



Circulation is stopped and adequate time allowed for stabilization. The lock mandrel is then lowered to the landing nipple and slack off weight applied.

While maintaining slack off weight, the pump rate is again increased to the level set to activate the running tool. The running tool fully closes the lock mandrel to the set position.

An upward strain provides a positive indication the lock mandrel has been fully set. While maintaining upward strain and in creasing pump rate, the running tool will separate from the lock mandrel.

The Taylor Made Tubing Lock is used to anchor tools that require no vertical movement during operation. A typical application is to install the tubing lock above a downhole motor and anchor the BHA while operating a tubing cutter. The tubing lock activates when pumped through and engages the tubing wall while pumping. Slack off weight maintains the set position.

DESIGN FEATURES

- Interchangeable Slips for Various ID's
- Low Pump Rate Activation
- Sealed for Circulation

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TUBING LOCK

Assembly Part Number:	TL-1-650-0	TL-2-062-0
Nominal O.D.:	1.650	2.062
Minimum I.D.:	0.312	0.437
Tubing Size:	2-3/8" & 2-7/8"	2-7/8" & 3-1/2"
Overall Length (in.):	2' 3-7/16"	2' 3-7/16"
Makeup Length (in.):	2' 1-1/4"	2' 1-1/4"
Weight (Lbs.):	11	15
Engaging Pressure:	600 PSI	600 PSI
Maximum Work Load (Yield):	26,000	60,000
Pressure Rating:	5,000 PSI	5,000 PSI
Standard Tubing Connection **:	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	400-600

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•Other thread connections available upon request.

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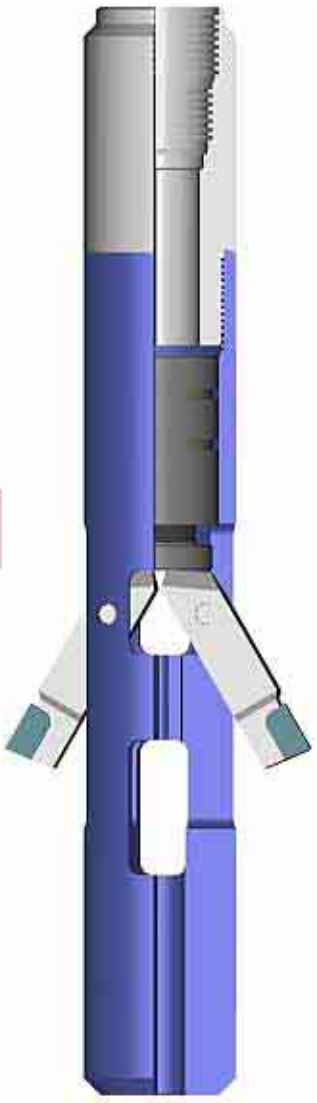
The Taylor Made Tubing Cutter utilizes carbide tipped knives to cut through the tubing wall. When pumped through, a hydraulic piston activates the blades. Rotation, while pumping, provides the cutting action. When run below a downhole motor, a tubing lock should be installed above the motor.



DESIGN FEATURES

- Adjustable Blade Deflection
- Carbide Knives
- Wide Range of Cut
- Long Lasting Knives

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TUBING CUTTER

Assembly Part Number:	TC-1-625-0	TC-1-700-0	TC-1-750-0	TC-2-187-0	TC-2-500-0
Nominal O.D.:	1.625	1.700	1.750	2.187	2.500
Minimum I.D.:	0.250	0.250	0.250	0.250	0.250
Tubing Size:	2 3/8	2 3/8 to 2 7/8	2 3/8 to 2 7/8	2 7/8 to 4 1/2	4 1/2 to 5 1/2
Overall Length (in.):	1' 5-3/8"	1' 5-3/8"	1' 5-3/8"	1' 4"	1' 4"
Makeup Length (in.):	1' 5-3/8"	1' 5-3/8"	1' 5-3/8"	1' 4"	1' 4"
Weight (Lbs.):	8	8	9	13	15
Maximum Work Load (Yield):	51,000	51,000	51,000	53,000	53,000
Pressure Rating:	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI	5,000 PSI
Standard Tubing Connection **:	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent	1-1/4" CS Hydril Equivalent
Make-up Torque (Ft-Lbs):	300-400	300-400	300-400	400-600	400-600

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- Other thread connections available upon request.

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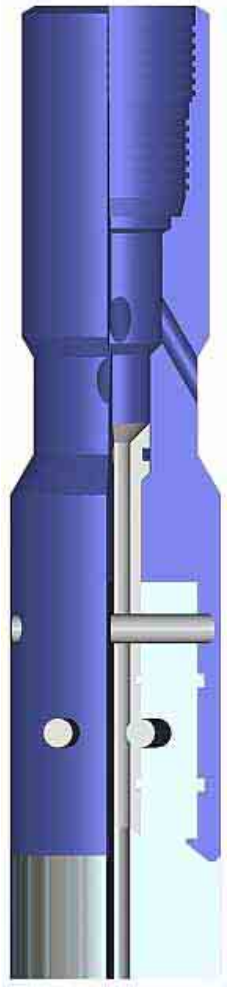
The Taylor Made Impression Block is specially designed for coiled tubing. Through porting allows washing action to the impression target. A steel sleeve protects the lead from washing out while circulating and side porting permits higher circulation rates.



DESIGN FEATURES

- Through Ported
- Steel Sleeved
- Heavy Duty
- Easy Redress

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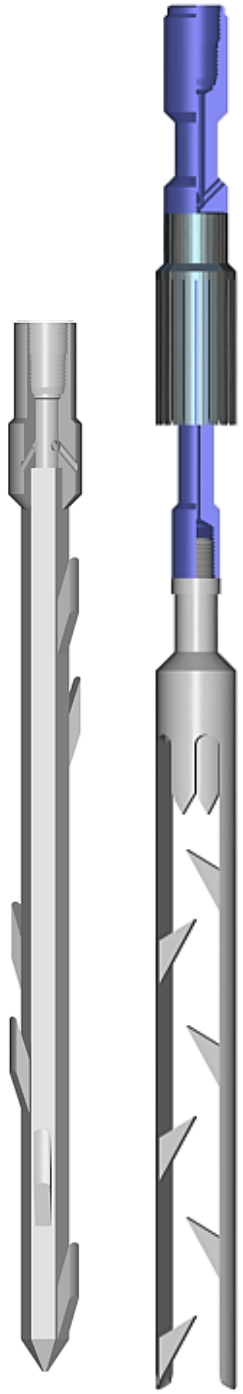
Taylor Made Wire Retrieving Tools are ported for circulation and designed for use with coiled tubing. A variety of styles are available for various fishing operations. The wire finder mandrel and skirt is an all in one tool, which helps to prevent wire by-pass.



DESIGN FEATURES

- Heavy Duty Construction
- Ported for Circulation

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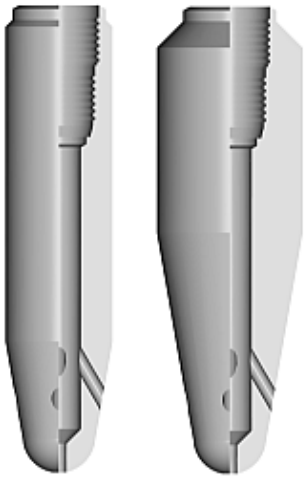
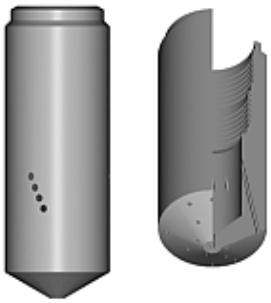
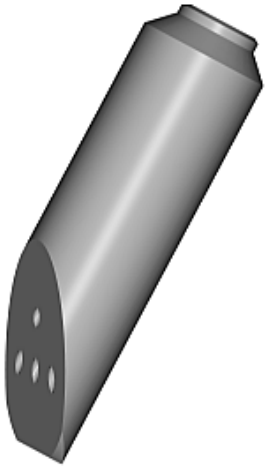
Taylor Made stocks a variety of nozzle shapes and sizes. Multi ported, side wash, down wash, and mule shoe nozzles are just a few of the different types available. Specially designed nozzles to suit any application can be fabricated as requested.



The Taylor made indexing tool is ideal for use with our wash nozzles. Jet washing, spotting fluids, and cleaning operations are sometimes difficult because of ledges and other obstructions. A wash nozzle installed below the indexing tool can help to rotate the BHA past various obstructions.





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MISCELLANEOUS TOOLS

A large assortment of cross overs commonly used by the coiled tubing industry are inspected and awaiting call out. Ported subs, centralizers, wash nozzles, spacers, deployment bars, and fluted guides are stocked for rental jobs.

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SPECIAL TOOLS

Special fishing tools are always ready when the need arises. wire retrieving tools, scratchers, special pulling tools, magnets, cut lip guides, and split skirts are just some of the tools ready to be utilized.

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ACCESSORY TOOLS

Taylor Made stocks a full line of accessory tools such as; Blind Boxes, Mils, Reamers, Guides, Broaches, ported subs, and much more.

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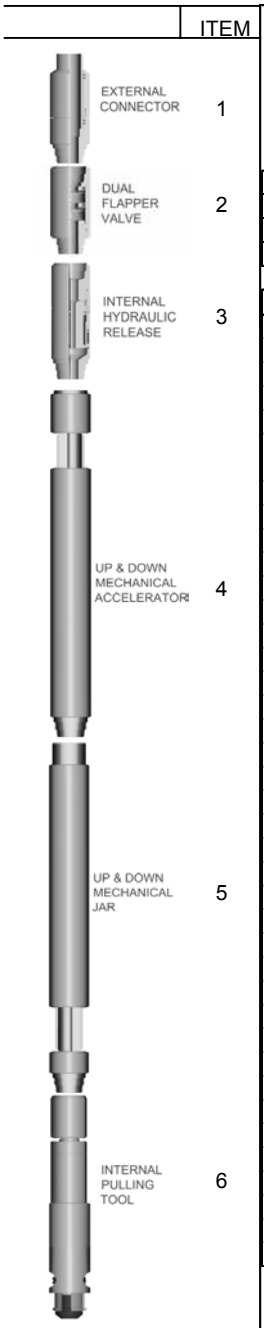
At Taylor Made we provide services to enhance our product performance. We are prepared to offer advice and get involved during pre job planning. Training, technical support, and assistance are available 24 hours per day.

Tool String Schematics for recommended tool string configurations are available and can be an invaluable asset during the job planning stages.



Taylor Made OIL TOOLS, INC.

TOOL STRING SCHEMATIC

CUSTOMER: JOHN DOE	C.T. O.D.: 1.500	PREPARED BY: TAYLOR MADE
COMPANY: XYZ OIL	C.T. WALL: 0.134	SAMPLE SCHEMATIC
WELL: TMOT II	C.T. I.D.: 1.232	
DATE: 1/1/01	TBG SIZE: 3 1/2"	

REF.	DESCRIPTION	S.N.	O.D	I.D.	M.U. LENGTH	MAX WORK LOAD
1	EXTERNAL CONNECTOR	100	1.800	0.750	10.125	60,500
2	DUAL FLAPPER VALVE	101	1.750	0.625	15.375	70,000
3	INTERNAL HYD. DISCONNECT	102	1.800	0.437	12.688	39,500
4	UP & DOWN ACCELERATOR	103	1.812	0.250	75.937	45,000
5	UP & DOWN JAR	104	1.812	0.250	94.062	45,000
6	HYDRAULIC INTERNAL PULLING TOOL	105	1.812		24.750	49,000

TOOL STRING MAXIMUM O.D.: 1.812
TOOL STRING MINIMUM I.D.: 0.250
TOOL STRING MAXIMUM WORK LOAD: 39,500
TOOL STRING MAKE UP LENGTH: INCHES 232.937 FEET 19.411

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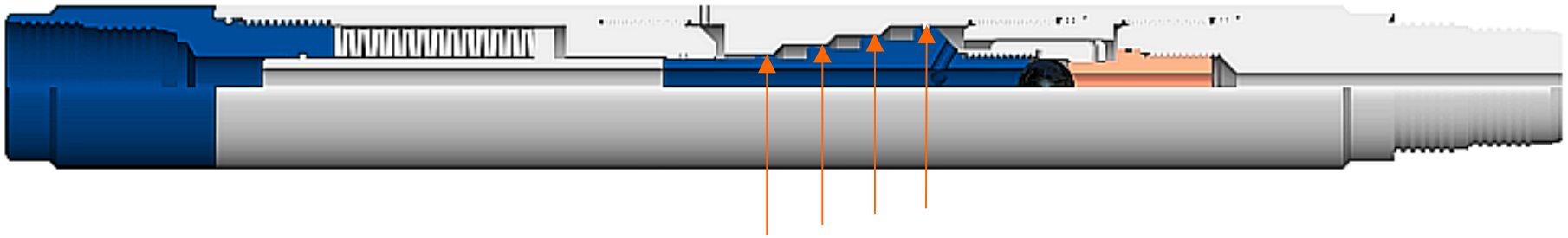
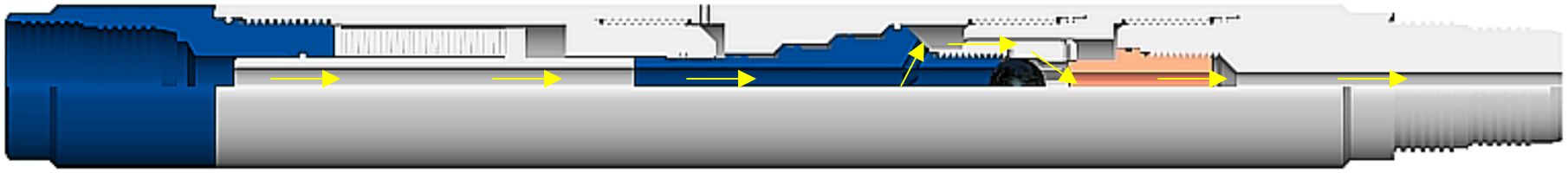
PRESSURE CONTROL VALVE

The Taylor Made Pressure Control Valve is designed to support a column of fluid above the valve. An increase in pressure exceeding the selected valve setting will open the valve and allow flow through the valve. Once the pressure has been reduced to the selected valve setting, the valve will close and again shut off flow through the valve.



Adjustment to the valve opening setting is achieved by installing a seal on the designated piston groove. The varied piston diameters provide for a selection of cross sectional areas to alter the operating pressure of the valve.



When sufficient pressure is applied to the valve, the piston moves upward and pulls the ball off seat. Flow is routed through ports in the piston and through slots in the ball cage.

Taylor Made OIL TOOLS, INC.

PRESSURE CONTROL VALVE

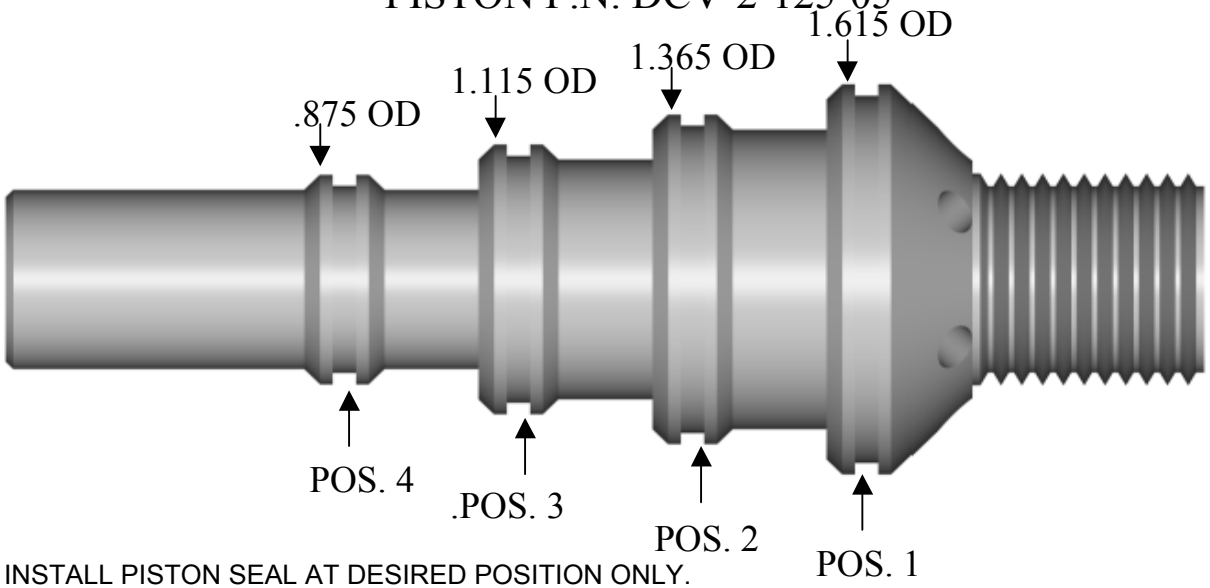
OPENING PRESSURE CHART

	STANDARD STACK WITH WASHER #1 (.125)	STANDARD STACK WITH WASHER #2 (.250)	STANDARD STACK WITH WASHER #3 (.375)
SEAL @ POS. 1	570 PSI	1260 PSI	2320 PSI
SEAL @ POS. 2	880 PSI	1970 PSI	3620 PSI
SEAL @ POS. 3	1660 PSI	3720 PSI	DO NOT USE

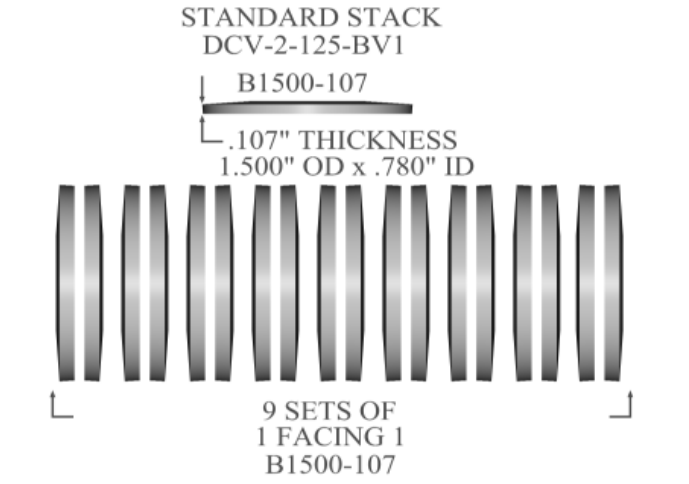
USE POSITION 4 FOR HIGH PRESSURE APPLICATIONS ONLY!!!

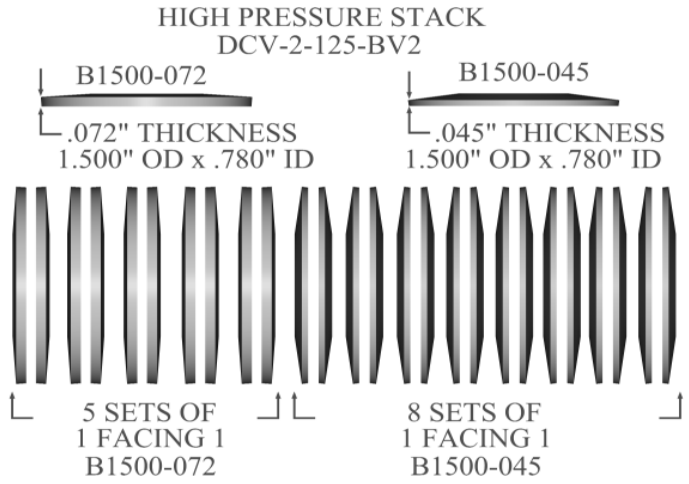
	HIGH PRESSURE STACK WITH NO WASHER	HIGH PRESSURE STACK WITH WASHER #1 (.125)	HIGH PRESSURE STACK WITH WASHER #2 (.250)
SEAL @ POS. 4	2430 PSI	3990 PSI	5200 PSI

PISTON P.N. DCV-2-125-05



INSTALL PISTON SEAL AT DESIRED POSITION ONLY.
ALL OTHER SEALS MUST BE REMOVED FROM PISTON





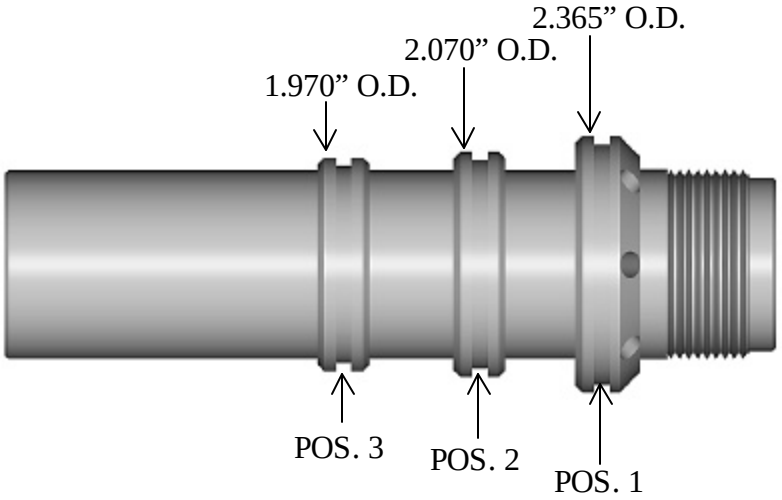
THIS CHART IS INTENDED FOR REFERENCE ONLY. VARIATIONS TO THE BELLEVILLE WASHER LOADS MAY OCCUR AFTER USAGE.
A PRESSURE TEST SHOULD BE PERFORMED TO VERIFY THE SELECTED SETTING.

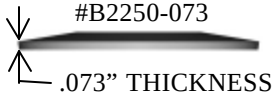
3.125” PRESSURE CONTROL VALVE OPENING PRESSURE CHART

STACK #1 (9 SETS 2 FACING 2-B2250-073)					
	WASHER #3 (.595)	WASHER #4 (.625)	WASHER #5 (.750)		
SEAL @ POS. 1	375	500	600		
SEAL @ POS. 2	1100	1375	1750		
SEAL @ POS. 3	2250	2750	3500		

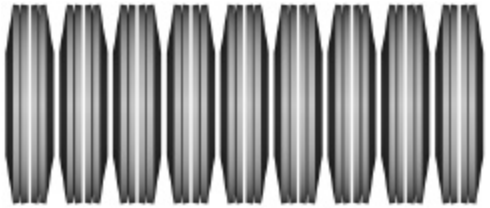
STACK #2 (10 SETS 2 FACING 2-B2250-073)					
	WASHER #1 (.325)	WASHER #2 (.375)	WASHER #3 (.595)	WASHER #4 (.625)	WASHER #5 (.750)
SEAL @ POS. 1	650	750	850	900	1000
SEAL @ POS. 2	1800	2000	2250	2500	2750
SEAL @ POS. 3	3750	4250	4750	5000	5500

PISTON P.N. DCV-3-125-05

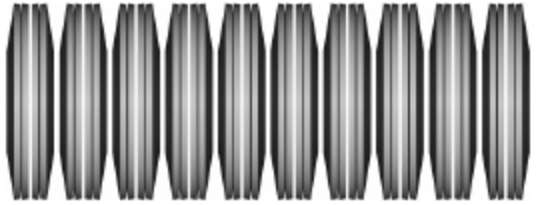




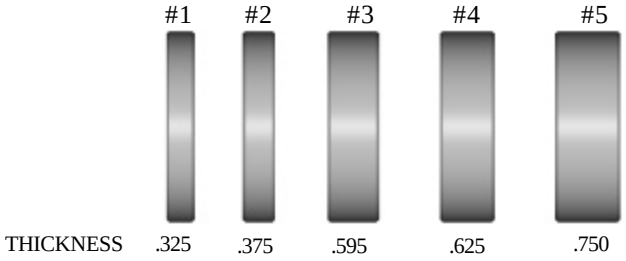
STACK #1 (9 SETS OF 2 FACING 2)
BELLEVILLE #B2250-073



STACK #2 (10 SETS OF 2 FACING 2)
BELLEVILLE #B2250-073



WASHERS



INSTALL SEAL AT DESIRED POSITION ONLY. ALL OTHER SEALS MUST BE REMOVED FROM PISTON.

THIS CHART IS INTENDED FOR REFERENCE ONLY. VARIATIONS TO THE BELLEVILLE WASHER LOADS MAY OCCUR AFTER USAGE. A PRESSURE TEST SHOULD BE PERFORMED TO VERIFY THE SELECTED PRESSURE SETTING.

PRESSURE CONTROL VALVE

ASSEMBLY PART NO.:		DCV-2-125-00			DCV-3-125-00		
NOMINAL OD (in):		2.125			3.125		
ACTUAL OD (in):		21.250			3.125		
MINIMUM ID (in):		0.375			0.688		
OVERALL LENGTH (in):		20.29			26.46		
MAKE UP LENGTH (in):		18.10			24.28		
WEIGHT (lb):							
MAXIMUM WORK LOAD (yield lb):		72,177			121,584		
PRESSURE RATING (psi):		10,126			6,959		
TORQUE CAPACITY (ft-lb):		1,621			4,806		
TEMPERATURE RATING (deg. F):		-20/+550			-20/+550		
STANDARD CONNECTION:		1 1/4" CSH EQUIV.			2 7/8" PAC		
MAKE UP TORQUE (ft-lb):		400			2,900		

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They are intended for use as a reference only.