

pragma



PRODUCT BROCHURE

Wireline Tools

Technology innovation with quality and reliability at the core.

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Pragma is a specialist in innovative downhole technology for the global energy industry. We design and manufacture tools to solve current and emerging challenges for the oil and gas, gas storage, CCUS, hydrogen storage and geothermal production sectors.

IMPACT TOOLS

Wireline Hydraulic Jar

- ✓ Field proven metering system
- ✓ Integral firing load adjustment.
- ✓ Reliable operation

The Pragma Wireline Hydraulic Jar is a hydraulic jar designed for dependable, controlled upward jarring when required during wireline operations.

The Pragma Hydraulic Jar uses a time delayed oil feeder system otherwise known as a metering system to enable the initiation of a pull load into the wire to stretch the wire, and the accelerator if being used, before release and firing of the jar.

When the Pragma Hydraulic Jar is pulled against a fixed object, the upper mandrel pulls against the oil in the housing. Over a set time, dependant on the load pulled, the oil will transfer through the metering system and when enough oil has transferred through the tool the jar will fire. When this happens, the upper mandrel will move rapidly upwards and strike an impact at the upper body part of the jar. The jar can then be re-set by setting download.

The release time is dependent upon the load pulled.



KEY FEATURES

- Field proven firing mechanism
- Firing time is determined by the pull load and can be varied by the slickline service company
- Precision manufactured body and piston generate consistent firing time
- Available with quick connect

TOOL SPECIFICATIONS

Size	Fish Neck	Thread	Jar Stroke	Firing Time
1 1/2"	1.375"	15/16-10 UN	9"	1-2 mins @850 lbs
1 7/8"	1.750"	1 1/16-10 UN	10"	1.5-3 mins @850 lbs
2 1/2"	2.313"	1 9/16-10 UN	11"	1.5-3 mins @850 lbs

IMPACT TOOLS

Wireline Spring Jar

- ✓ Field proven latch mechanism
- ✓ Integral firing load adjustment.
- ✓ Reliable operation

The Pragma Spring Jar is a wireline jar designed for dependable, controlled upward jarring when required during wireline operations.

The Pragma Spring Jar HD uses a reliable ‘shifting key’ latch principle, which ensures dependable operation with the minimum of maintenance. The latch key ties the upper mandrel to the lower spring mandrel, which is anchored within the jar by a pre-loaded spring.

When the Pragma Spring Jar is pulled against a fixed object, the upper mandrel pulls against the pre-loaded spring a fixed distance, at which point the latch keys will release. When this happens, the upper mandrel will move rapidly upwards and strike an impact at the upper body part of the jar.

The release load is dependent upon the spring load setting which can be pre-configured prior to the operation. This load is adjustable over a given range (See load Setting Specifications).



KEY FEATURES

- Field proven latch mechanism
- Reversible latch keys for long life
- Simple redress
- Can be adjusted on or off the tool string
- Calibrated window ensures accurate adjustment
- Easy re-cocking action
- Can be configured for standard or heavy duty pull loads
- Available with quick connect

TOOL SPECIFICATIONS

Size	Fish Neck	Thread	Jar Stroke	Firing Load
1 1/2"	1.375"	15/16-10 UN	6"	450 - 950 lbs
1 7/8"	1.750"	1 1/16-10 UN	6"	500 - 1300 lbs
2 1/2"	2.313"	1 9/16-10 UN	6"	700 - 1700 lbs

WELL CONDITIONING TOOL

Wireline Tubing Perforators

- ✓ Reliable and effective field-proven design
- ✓ Full range of sizes
- ✓ Slimline versions available

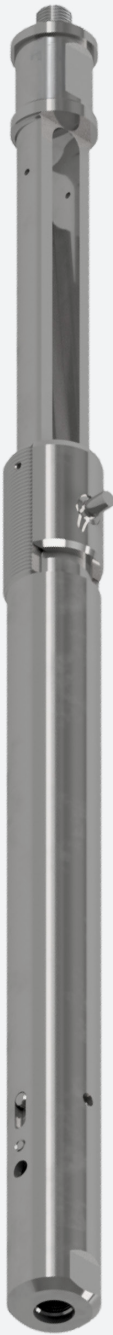
The Pragma Tubing Perforator is a mechanically operated punch assembly which is designed to make a single perforation in the production tubing wall per wireline run.

This is desirable when a circulation flow path needs to be opened up from the tubing to the annulus to enable extra production, for example, or to kill a well.

The Pragma Tubing Perforator has an outer body which houses a punch assembly. The punch runs in a moving tapered track, such that upward jarring will expand it through the tubing wall. Continued jarring will then retract it in the same track.

Slimline versions of the tubing perforator are available for applications where there are restriction in the tubing string or the tubing string is reduced in inside diameter by Glass Reinforced Epoxy (GRE) liner.

A modified version of the 3 1/2" Tubing Perforator is available with a 0.50" punch diameter.



KEY FEATURES

- Enables a single hole to be punched during a wireline run
- Available as standard for 1.66" 2-3/8", 2-7/8", 3-1/2" & 4-1/2", production tubing
- Field proven mechanical tubing punch mechanism
- Operates mechanically via wireline upward jarring to complete the perforating cycle
- Incorporates a safety release abort mechanism by downward jarring
- Slimline versions for GRE Tubing
- Longer punches available for softer tubing

TOOL SPECIFICATIONS

Part Number	Outside Diameter	Punch Diameter	Thread Connection	Length	Tubing/Casing Size (LB/FT)
Standard Tubing Perforators					
166DTITP	1.25"	0.250"	5/8-11 UN	20.5"	1.66" 2.3/2.4
190DTITP	1.47"	0.312"	15/16-10 UN	22.7"	1.90" 2.75
206DTITP	1.63"	0.312"	15/16-10UN	22.7"	2 1/16" 3.4
238DTITP	1.84"	0.375"	15/16-10UN	30.5"	2 3/8" 4.0/4.6
278DTITP	2.19"	0.375"	15/16-10UN	30.9"	2 7/8" 6.4/8.6
350DTITP	2.69"	0.438"	11/16-10UN	30.9"	3 1/2" 7.7/10.2
350DTITP-050	2.69"	0.500"	11/16-10UN	30.9"	3 1/2" 7.7/10.2
450DTITP	3.65"	0.500"	11/16-10UN	30.9"	4 1/2" 11.6/12.6
Slimline Tubing Perforators					
350DTITP-S	2.50"	0.438"	11/16-10UN	30.9"	3 1/2" 7.7/10.2
450DTITP-S	3.44"	0.500"	11/16-10UN	30.9"	4 1/2" 11.6/12.6

Rotational Scale Scraper

- ✓ Reduces operation cost by milling with slickline
- ✓ Flexible broach selection
- ✓

The Pragma Rotational Scale Scraper is the next step in broach design. It uses a high torque spline jar to rotate scraper mill blades in opposite directions. Repeated downward jarring drives the mill blades through scale with a downward and rotational action.

The Pragma Rotational Scale Scraper comprises a broach mandrel, linked to an integral, short stroke, LH or RH rotational jar via castellated segments.

The Pragma Rotational Scale Scraper tools are designed to be run in pairs so that two broaches work in conjunction with each other, rotating in opposite directions.

The Pragma Broach scraper blades are designed to simultaneously engage with the scaled tubing so that all the torque is contained within the tool and not transmitted back into the Wireline.

A built-in swivel at the upper end of the Pragma Rotational Scale Scraper eliminates the chance of twisting the wireline.

The Pragma Rotational Scale Scraper tool has several Broach types available to suit various clean up applications. These include Diamond Backed, Stepped Diamond Back



KEY FEATURES

- Reduced operational cost by Milling Scale with Slickline.
- Effectively cleans hard scale.
- Built in High Torque Spline Jar provides impacts and rotation.
- Robust tool construction.
- Can be supplied in materials suitable for operation in H2S environments.
- Interchangeable Scraper Broaches of various designs.
- Various sizes of Scraper Broaches can be used.

TOOL SPECIFICATIONS

Size	Broach Size Range	Thread	Fish Neck	Length Closed	Length Open
1 1/2	1.750" to 2.313"	15/16-10 UN	1.375"	70.75"	79.25"
1 7/8	2.300" to 4.000"	1 1/16-10 UN	1.750"	70.75"	79.25"
2 1/2	3.000" to 6.000"	1 9/16-10 UN	2.313"	70.75"	79.25"
3 1/2	4.000" to 8.000"	1 9/16-10 UN	3.125"	70.75"	79.25"

High Expansion Gauge Hanger

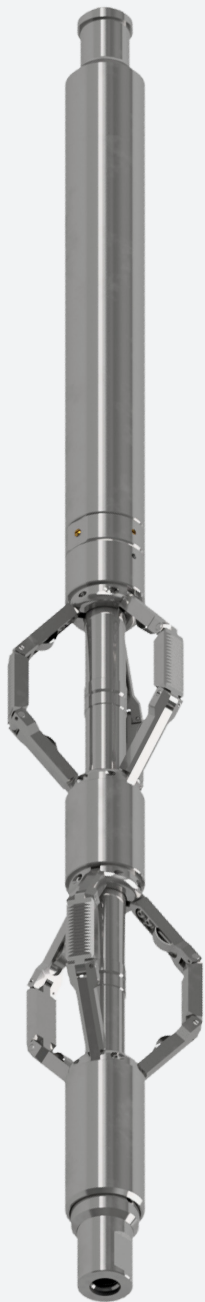
- ✓ High expansion design
- ✓ Run on slickline
- ✓ Large flow by area

The High Expansion Gauge or Instrument Hanger can be used to hang a subsurface device in a location with no landing nipple and can pass through smaller inside diameter tubing and then set in larger inside diameter tubing or casing. The tool can be run on the mechanical DTI EH Running Tool or on a suitable explosive or electric setting tool.

When the setting tool is activated the Expanding Instrument Hanger slips securely grip the tubing and the setting tool shears the setting pin, releasing it from the Instrument Hanger. The Setting Tool and Setting Adaptor Kit are then returned to surface leaving the Instrument Hanger secured in the well.

The hanger is released by latching the upper fish neck with an appropriate pulling tool and lightly jarring upwards to shear the release pins.

The DTI Expanding Instrument Hanger is available in a range of materials with common gauge thread connections.



KEY FEATURES

- Robust construction
- It can be used to hang a gauge in larger diameter tubing / casing with no landing nipple
- Can be used to retain debris and prevent it moving up hole
- Sprung loaded slips ensure the Expanding Instrument Hanger locks securely in the casing
- Used to hang a gauge in tubing below a restriction
- Capable of being set with the purely mechanical DTI High Expansion Gauge Hanger Setting Tool
- Also, can be set with Explosive or Electric Setting Tool as required with suitable adaptors
- Retrieved with standard Slickline Pulling Tools

DEPLOYMENT AND OPERATION

- EH Running Tool
- Powered Setting Tool
- Multi-Purpose Pulling Tool

TOOL SPECIFICATIONS

Size	Running OD	Tubing Size Min.	Tubing Size Max.	Fish Neck	Length
1 11/16"	1.688"	2 7/8"	4 1/2"	1.375"	23.8"
2 1/2"	2.500"	4 1/2"	6 5/8"	1.750"	51.2"
2 3/4"	2.750"	4 1/2"	7"	2.313"	50.7"
2 3/4"	2.875"	4 1/2"	9 5/8"	2.313"	60.2"

Additional Tools

Alongside our core product offering, we provide a comprehensive range of complementary tools and accessories designed to support a wide variety of downhole operations. Engineered for reliability and performance in demanding environments, these tools help maximize operational efficiency and ensure the right solution is available for every application.

OUR RANGE INCLUDES:

Rope Sockets	Shifting Tools	Swages
Weight Bars	Swivel Joints	Broaches
Stroking Jars	Knuckle Joints	Wire Cutters
Accelerators	Gauge Cutters	Go Devils
Centralisers	Blind Boxes	Bailers
Pulling Tools	Lead Impression Blocks	
Fishing Tools	Magnets	

Quality, innovation
and technical
support for slickline,
coiled tubing and
well barrier tools.

With a team of in-house engineers,
we can deliver the solutions you need.
We’re committed to your success and
will support you through product supply,
advice, training and first deployment.

Get in touch today to find out
more about Pragma’s technology
for every well

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