Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.
Subsea Bolt Tensioning Tool - Model C10

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Subsea Bolt Tensioning Tool (Model C10) is produced from corrosion resistant stainless steel with diver friendly non-slip surfaces. The system is compatible with ANSI, API, 17D and is suitable for many Compact, Taperlok, Norsok and SPO flanges.

Technical Information
• C10 Tensioners complete with split reaction nut
• Piston stroke of 30mm ensures no re-stroking required
• by diver subsea (20mm for C-00)
• Bespoke tooling design and manufacture for special applications available
<table>
<thead>
<tr>
<th>Bolt Dia</th>
<th>Range</th>
<th>Tool Dia</th>
<th>Tool Height</th>
<th>Max Initial Bolt Load</th>
<th>Extra Stud Length</th>
<th>Headroom Dimension</th>
<th>Footprint Across Flats</th>
<th>Internal Footprint Across Flats</th>
<th>Washers Min. OD</th>
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Subsea Bolt Tensioning Tool - Model C8

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Subsea Bolt Tensioning Tool (Model C8) is produced from corrosion resistant stainless steel with diver friendly non-slip surfaces. The system is compatible with SPO Compact, A.P.I. & ANSI class flanges.

Technical Information

• Complete with split reaction nut
• High strength stainless steel material minimises maintenance work after usage
• Tensioners capable of tensioning over 400 flanges
• Piston stroke of 30mm ensures no re-stroking required by diver subsea (20mm for C-00)
• Uses industry standard quick connect couplings
• Bespoke tooling design and manufacture for special applications available

Note: Please refer to full technical specification overleaf.
<table>
<thead>
<tr>
<th>Diameter</th>
<th>Thread Pitch</th>
<th>Tool Dia.</th>
<th>Effective Side Dia.</th>
<th>Tool Height</th>
<th>Max. Initial Bolt Load</th>
<th>Hydraulic Area</th>
<th>Ram Stroke</th>
<th>Extra Stud Length (incl.3 x pitches extra)</th>
<th>Dim’n</th>
<th>Across Flats</th>
<th>Radial Dim’n</th>
<th>Headroom Dimension</th>
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<td>B (mm)</td>
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<td>mm</td>
<td>G (m)</td>
<td>K (mm)</td>
<td>H (mm)</td>
<td>J (mm)</td>
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Nut Splitter

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Nut Splitter provides a versatile, reliable and trouble free operation. The tool is available in a range of sizes from ¾” to 3 ½” bolt diameters.

**Features:**
- Triple edge disposable cutting blade
- Blade positioning scale to eliminate bolt damage
- Cutting depth adjusted by rotating the cylinder
- Designed to fit BS1560/ANSI B16.5 flanges
- Powered return subsea cylinders available
<table>
<thead>
<tr>
<th>Tool Ref</th>
<th>Bolt Diameter</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<td>132</td>
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<td></td>
<td>1 3/8”</td>
<td>M33</td>
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<td>145</td>
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Hydraulic Torque Wrenches

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Hydraulic Torque Wrenches are a hands free disengagement system, which are produced from a new A/Q aluminium alloy. This makes the Hydraulic Torque Wrenches the best low clearance tool ever designed.

Features:
- Models from 255 ft-lbs to 31,800 ft-lbs
- Link hex size from 3/4” up to 6 1/2”
- Heavy duty one way ratchet system
- 360° x 180° rapid-swivel
- Bronze friction bearing sleeve
- Output accuracy certified at +/- 3%
- Quick-connect ratchet link
- CE approved
- Enerpac torque wrenches were designed using state-of-the art CAD techniques to bring you the most advanced low profile hexagon torque wrench on the market
- Rigid steel design – durability, reliability and safety
- No tools needed for changing hexagon heads
- Versatility: one hydraulic drive unit per torque capacity can be used to drive any hexagon head within that range
- 360 degree swivel manifold with screw lock couplers
- Optional interchangeable metric and imperial hexagon heads and reducer inserts
- Tested and certified according to ATEX
- Includes handle to improve tool handling and safety

Benefits:
- Innovative, pinless wrench construction with quick release drive and automatic crank engagement
- Fast operation due to the large nut rotation per wrench cycle (30 degree) and rapid return stroke, double-acting
- Constant torque output provides high accuracy (± 3%) across the full stroke
### Optional Hexagon Heads

<table>
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<tr>
<th>mm</th>
<th>inch</th>
<th>Maximum Torque* at 700 bar</th>
<th>Drive Unit Model Number</th>
<th>Drive Unit Weight **</th>
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<td>2000</td>
<td>W2000</td>
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<td>4000</td>
<td>W4000</td>
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* Determine maximum torque according to the bolt (nut) size and grade.

** Weight of drive unit without hexagon head.
Square Drive Hydraulic Torque Wrenches

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Square Drive Hydraulic Torque Wrenches are a compact, high strength uni-body construction, which can be used for a small operating radius.

Simplicity

- 360° click-on, multi-position reaction arm
- Push button square drive release for quickly reversing the square drive for tightening or loosening
- Fine tooth ratchet prevents tool “lock-on”
- Single 360° hydraulic swivel manifold, complete with screw lock couplings, increases wrench and hose manoeuvrability

Design

- Robust design with minimal parts enables easy on-site maintenance without specialist tools
- Lightweight, ergonomic design for easy handling and an easy fit, even in applications where access is limited
- Optimised strength-to-weight ratio
- Fast operation due to the large nut rotation per wrench cycle (35 degree rotation angle) and rapid return stroke

Reliability

- All wrenches are nickel-plated for excellent corrosion protection and improved durability in harsh environments

Accuracy

- Constant torque output provides high accuracy across the full stroke
- Uni-body construction ensures accuracy by reducing internal deflections
## Typical Socket Size Range

<table>
<thead>
<tr>
<th>Socket Size Range</th>
<th>Square Drive</th>
<th>Maximum Torque at 700 bar</th>
<th>Dimensions (mm)</th>
<th>(kg)</th>
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<td>(inch)</td>
<td>(inch)</td>
<td>(Nm)</td>
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<td>3/4&quot;</td>
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**Model Nr.**

SD15-012 1898 1400 S1500
SD30-100 4339 3200 S3000
SD60-108 8144 6010 S6000
SD110-108 14.914 11.000 S11000
SD250-208 34.079 25.140 S25000

**Wrench Model Nr.**

S1500
S3000
S6000
S11000
S25000

**Dimensions (mm):**

A | B | C | D | E | F | G | H
---|---|---|---|---|---|---|---
39 | 63 | 110 | 95 | 136 | 25,0 | 69 | 119
48 | 77 | 134 | 126 | 172 | 33,0 | 90 | 159
57 | 90 | 179 | 162 | 201 | 42,0 | 112 | 187
71 | 111 | 196 | 185 | 226 | 49,5 | 132 | 227
87 | 143 | 244 | 240 | 292 | 63,5 | 182 | 292

**Typical Socket Size Range:**

- 15-50: 5/8 - 7/8"
- 20-100: 7/8 - 7/8"
- 41-55: 15/8 - 1/4"
- 41-155: 15/8 - 1/4"
- 60-225: 23/8 - 10"
Flange Puller

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Flange Puller is available in two systems; wire rope flange pulling and threaded bar flange pulling. Each system is a compact design with anti-slip surfaces.

Wire rope flange pulling system:
- Long Piston Stroke - 102mm (4”)
- Self activating collet design
- Auto grab Anchor Collet with hydraulic release
- Manually releaseable Retract Collet prevents lock on
- High strength, low rotation wire rope
- Operated via separate diver control valve providing precise
- Control for up to 4 pullers

Threaded bar flange pulling system:
- Long Piston Stroke - 102mm (4”)
- Rapid assembly using Quick Release Reaction Nuts
- High strength threaded bar
- Operated via separate diver control valve providing precise
- control for up to 4 pullers

<table>
<thead>
<tr>
<th></th>
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<td>psl</td>
<td>bar</td>
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</table>
Flange Spreader

Stork's extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations. The Flange Spreader is an aid for use in normal maintenance and installation procedures, and allows the spreading of flanges with an access gap of 6mm (0.24") or greater in a safe and controlled manner.

Features:
- Deep 15mm secure hold on first step
- Requires access gap of only 6mm
- Unique interlocking first step
- Automatic mechanical retraction
- 10,000 psi generates spreading force 14.5T(145kN)

Benefits:
- Compact built in pump
- Quick and easy operation
- Safe operation
- Secure hold on each step

Components:
- 1 x SW14.5TI Flange Spreader Wedge c/w 10,000psi Integral Hydraulic Hand Pump
- 1 x Safety Bloc

Weights and Dimensions:
- Tool Weight = 8.5kg (18.74lbs)
- Gross Kit Weight = 13kg (28.60lbs)
- Carry case Dimensions: 510x210x170mm
Zero Gap Flange Spreading Tool

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Zero Gap Flange Spreading Tool range uses unique expanding technology to deliver a measurable, controlled force, which will separate flanges with little or no access gap. The tool range allows for quick and simple set up and is suitable for subsea and topside application in construction, commissioning, maintenance, shutdowns and valve change-outs.

Mechanical 4TM, 6TM, 11TM and hydraulic 13TE and 15TE flange spreader:

In-line flange spreader 18TE and 25TE:
The tool range can operate on ANSI, DIN, SPO, ASME, API and BS flanges. The ZG4TM, 6TM and 11TM are mechanically activated, for use with bolt range 5/8" up to 1.3/8", producing up to 11T spreading force per tool. The ZG13TE, 15TE, 18TE and 25TE are hydraulically activated via a 10,000 psi hand pump unit, for use with bolt range 1.1/2" up to 4", producing up to 25T spreading force per tool. It is recommended that the 18TE & 25Tein-line tools are used in pairs.

**Operating benefits:**
- Extremely safe, no pinch points
- Little or no access gap required
- Unique expanding collet technology
- Secure bolt hole locking mechanism
- Time saving, simple operation
- Measurable & controlled spreading
- Covers all standard subsea flanges
- Robust & portable tool

**Technical specifications:**

<table>
<thead>
<tr>
<th></th>
<th>4TM</th>
<th>6TM</th>
<th>11TM</th>
<th>13TE</th>
<th>15TE</th>
<th>18TE</th>
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<tr>
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<td>5/8&quot; – ¾&quot;</td>
<td>7/8&quot; – 1&quot;</td>
<td>1.1/8 – 1.3/8&quot;</td>
<td>1.1/2- 1.3/4&quot;</td>
<td>1.7/8-2.1/4&quot;</td>
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<td>24–27mm</td>
<td>30-36mm</td>
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Stork’s extensive range of Subsea joint integrity and hydraulic tooling has been developed to support our clients in the delivery of efficient and safe subsea operations.

Our latest mechanical innovation, the Dual Hose Reel, has been designed to minimise deck space requirements, whilst enabling the independent or dual deployment of hydraulic power supply to the subsea workface.

The Dual Hose Reel’s main benefit is that it minimises the deck footprint required to operate. Its stainless steel construction also makes it robust.

The Dual Hose Reel is easy to transport and operate, as its features include strong reel locking mechanisms, fork lift and pallet truck facilities and lifting points for cranes.

Technical Information (standard configuration)
- Capacity – 210mtr Twin Hose 10,000psi Rated
- Capacity – 210mtr Single Downline 21,750psi Rated

Frame Dimensions (standard configuration)
- Total Weight – 400Kg
- Footprint – 101cm x 116cm
- Height – 135cm

Hydraulic Connections (standard configuration)
- Twin Hose (10,000psi) – Pioneer screw fittings
- Single Hose (21,750psi) – CEJN 116 S/S QDs
API Class 1-4 Torque Tool

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The tool conforms to the ISO 13628-8 Fig 18 class 1-4 bucket style used extensively in the subsea industry for valve overrides operated by ROV. The tool has latching wings allowing the tool to hold on to the interface. The latching wings are hydraulically driven forward and spring retracted. Thus in the case of a loss of hydraulic power the wings will release.

The tool uses a high specification drive motor for consistent torque output characteristics, even if used with direct hydraulic pressure control without the feedback sensor. The motor shares casing oil with the gearbox therefore avoiding the need for a separate compensator.

Note that for applying torques less than 80 ftlbs we recommend the class 1 & 2 tool.

Technical Information
- Standard Interface: ISO 13628-8 fig Class 1-4
- Socket Sizes: 1.1/2” Sq Class 4, 1.1/8”Sq class 3 socket & 11/16”Sq Class interface 1 & 2 Socket.
- Maximum Torque: With gearbox multiplier 400-2000ftlbs (540-2700Nm)
- Recommended Range: With internal 1:1 drive 80-4000ftlbs (108-540Nm)
- Motor Size: 236cc
- Latching Strength: 1 tonne @ 160 Bar
- Materials: Steel motor and gearbox, duplex socket, aluminum housing, acetal nose.
- Weight: 34 kg in air/ 28kg in water.
- Hydraulic: Mineral Oil
- Electrical: 8 Pin Connector-Speed and Torque Feedback

Features:
- ISO 13628-8 Class 1-4
- 2000 ftlbs / 400 ftlbs dual range
- Torque Feedback
Combined Hydraulic Power Unit and Hose Reeler

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

Technical Information:

- Combined 75kW HPU and Hydraulic hose reeler
- 7 port hydraulic swivel with drum capacity for 200m hose 7-core umbilical hose
- 2000kg line pull on core hydraulic drive via planetary gear box and fail safe brake
- 140l/min @280 Bar for umbilical supply Integrated control panel with direction control and drive/umbilical supply selector,
- Stainless steel tank Stainless Steel Star/delta starter panel c/w remote start/stop
- Low level warning and low/low level shut down High temp warning and high/high temp shut down suction valve safety switch blast air
- Dimensions: 2800mm x 2600mm x 2600mm
- Weight: 8000 Kg
Hydraulic Hose Reel - Twin Umbilical

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Hydraulic Hose Reel with complete Twin Umbilical (Model 300) is a storage reel, certified for offshore functionality to DNV 2.7.3 and CE marked.

The Hydraulic Hose Reel was primarily designed to accommodate and deploy 200m x 1” ID twin hose lengths. This reel is suitable for use with a whole range of underwater hand tools requiring flows up to 55 l/min and pressures of up to 207 barg. The unit can also be used for the storage and deployment of a variety of cables and hoses.

The hydraulic supply to the motor and twin downline is connected to the storage reel via a bulkhead aeroquip connector interface. System operations are via instrumentation/control panel which has been recessed within the main frame structure to offer the operator ease of access.

Technical Information:
- Capacity: 300 x 1/2” ID twin downtime
- Standard: 200m x 1” ID twin downtime
- Area classification: safe area
- Pressure: 207bar
- Flow: 15-55l/min
- Motor: SAI R13-F10-GM1-D504
- Connections: 10m hoses c/w aeroquip QC/QD couplings
- Filtration: primary mover to provide 10pm filtration
- Cooler: primary mover to provide cooling method
- Operating fluid: mineral based
- Operational temperature: -4 ° to 30 °C
- Max pull: 120kgs
- Drum dimension core: 650mm
- Drum dimension flange: 1470mm
- Drum dimension width: 806mm
- Frame dimension length: 2000mm
- Frame dimension width: 2000mm
- Frame dimension height: 1832mm
- Weight: Tare - 1500kgs, max gross 3000kgs
- Frame Certification: 4 point lift, certified to DNV 2.7.3
TECHNICAL SPECIFICATION

Electrically Driven Hydraulic Pump Unit

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Electrically Driven Hydraulic Pump Unit is comprised of a 4 pole, 45Kw Motor close coupled to a Kawasaki variable displacement piston pump. Housed within a DNV 2.7-1 frame (EN12079), suction and filtration ensure maximum protection for both the pump and connected tools. The system also features an Emergency Stop function, low oil level and high oil temperature switches, along with a sea water cooling system.

Technical Information:
- Pump output: 90LPM 240Bar
- Electrical requirements: 380-480v, 3 phase, 50/60Hz
- Oil tank capacity: 360litres
- Weight: (actual) 3000kg
- Length: 2000mm
- Width: 1000mm
- Height: 1500mm

Features:
- Compact footprint
- IP66 rated
- Deck fastening points
- Stainless steel tank
- Stainless steel control panels
Diamond Wire Saw

The Dolphin saw can be configured to cut various pipe diameters by fitting a suitable pipe clamp. Pipe clamps can be deployed together with the saw or pre-installed separately by an ROV or a diver. The Dolphin saw can be deployed with the assistance of an ROV or a diver. Clamps are selected based on pipe diameter and the inclination of the cut. The clamp can be detached from the saw, ensuring flexible operations.

Technical Information:
- Max. Pipe Clamp: 2” to 12”, 12” to 20”, 20” to 30”, 30” to 42” and 42” to 60”
- Control Software: ***MMI Controlled Software, PC based
- Dimensions: 6.6 L x 3 W x 14.4 ft H (2.0 x 0.9 x 4.4 m)
- Weight Dry/Wet Dry: 2 315 lb (1 050 kg), Submerged: 550 lb (250 kg)

Standard System Features:
- All electric operation
- Accurate control, reliable results
- 1 800 m / 6 000 ft and 3 000 m / 10 000 ft
- Durable construction and materials
- Handles high axial load
- Designed for high availability
- Training and spares available

Advantages:
- Shallow water
- Suitable for water depth up to 1 800 m / 6 000 ft some models even up to 3 000 m / 10 000 ft
- Deep Water
- Diver operated
- ROV operated
- Hydraulic version
- Electric version available upon request
- Extension kit up 80” available for Dolphin 42”
- Cutting range from 12” - 60” (80” with extension kit”)

Options:
- Hydraulically driven shallow water version
- Umbilical and umbilical winch
- Heave compensator
- Control container
- Demonstration rig for surface testing and training
- Additional clamps for horizontal cutting and for other diameters
- ROV skid for deployment and recovery of pipe clamps
- Spares and consumables

STORK
www.stork.com
Clyde

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Clyde represented a step change when it was introduced to the market more than 30 years ago: a new solution generating new levels of performance, strength, speed and accuracy. Today it remains the benchmark for heavy-duty pipecutting and bevelling; a tried, trusted and proven feature of subsea operations over many years.

Capabilities:

- A hydrostatic bearing system that underpins the Clyde’s industry-leading performance in longevity, rigidity and accuracy.
- A steel split-frame design that enables inline pipe to be cut and bevelled simultaneously.
- An adaptable and customer-focused design and manufacture process that is capable of delivering solutions for pipes ranging from 6” to 80” diameter – modified or customised every time to suit.
- A +/- 0.5mm welding preparation performance that meets the standards demanded in the automatic welding era – and eliminates the hidden costs of high weld failure rates.
- Hydraulic or pneumatic power options.
- The Clyde can remove weld beading, representative of a range of capabilities that make it more than simply cutting apparatus: that make it a portable machining tool.
Our Clyde Range

At Stork, we don’t just believe in the traditional values of engineering. They’re the cornerstones of our operations.

That’s why our Clyde range of products is defined by strength, trust and reliability. We blend that philosophy with an innovative and adaptable approach to create solutions that reflect modern-day business imperatives. Solutions that are characterised by speed, accuracy and versatility.

Our Clyde products, based on hydrostatic bearing technology, are built and delivered to meet the toughest operational tests and the sternest logistical challenges anywhere in the world. And because they’re cold-cutting machines, they’re helping our customers achieve the best possible health & safety standards.
**6”MKI T6-8 ROV Predator Dredger**

The Predator system is a completely new concept in performance dredging. Its unique features make it the most efficient dredger on the market saving both vessel and operational time. The dredger can be easily mounted to the host ROV using its dedicated interface frame. While optimum performance has always been a priority with this system, safety has also been a top priority. As such the Predator features certified lifting points and associated rigging and when placed on the deck the dredger sits upright on its integrated frame reducing the risk of manual handling injuries. Optimum performance is achieved by utilising the latest fluid dynamic research. The Predator can be assembled or disassembled subsea minimising ROV recovery time and increasing vessel productivity.

**Key Features:**

- Can be mounted to any Work Class ROV
- Certified lifting points & rigging
- Can be assembled / disassembled subsea by work class ROV / Diver
- Certified ROV mounting frame for fast mobilisation & on deck turnaround (optional)
- Can be configured for dredging or jetting subsea without need for ROV recovery (x 2 WROV required)
- Depth rated to 5000 MSW
- Optimum dredging up to 110mm rocks
- Comes with clay jetting nozzle & agitator as standard
- Optional lengths of suction / discharge hoses that can be changed out subsea
- Easily adapted to ROV or Diver use
- Can be converted to jetting mode subsea

**Operational Specification:**

- Hydraulic Flow: 70 – 90 Litres per minute
- Optimal Hydraulic Pressure: 180 – 210 Bar
- Gross Water Flow: 7500 Litres per minute
- Removal Capacity Sand m3/h: 50.7 m3/h (65 Tons per hour)
- Removal Capacity Rocks m3/h: 34.3 m3/h (55 Tons per hour) **Based on a rock size of 50 – 120mm rocks**
- Unrestricted Diameter: 150mm
- Dimensions of Dredger L x W x H: 2440mm x 450mm x 640mm
- Dimensions of Transit Case L x W x H: 1900mm x 750mm x 650mm
- Hydraulic Hoses Supplied: 3 x Certified Hose’s 3000mm Long c/w 8 JIC Female Swivel (6 JIC Case)
Cavidyne 1030 CaviBlaster

The CaviBlaster 1030-ROV high-pressure water power unit allows the operator to use the water flow and pressure to generate cavitation at the end of the proprietary nozzle.

The CaviBlaster cleans the surface of any underwater structure using the energy released by the implosion of the bubbles during the cavitation process. When directed at the surface being cleaned, the energy released by the collapsing bubbles causes marine growth to be removed from the surface.

**Key Features:**
- Low output pressure 207 Bar (3000PSI)
- Compact, plug and play unit
- Highly efficient / powerful unit

**Operating Specifications:**
- Hydraulic Flow: 49 LPM
- Hydraulic Pressure: 240 bar
- Weight in air: 45kg
- Length: 510mm
- Width: 660mm
- Height: 350mm
- Output Flow: 38 LPM
- Output Pressure: 207 bar

**System Components:**
- CaviBlaster
- Operating manual
- Hyd hose set
- Transit case
- Lance hose
- Cavitation lance assy C/W manipulator handle
- Output pressure gauge
Stork has invested extensively in plant and equipment to provide efficient and environmentally sensitive solutions to our clients. An excellent example of this is our fleet of containerised Zone II diesel driven jetting units.

Stork owns an extensive inventory of jetting and maintenance accessories so that our units can be adapted to provide cost-effective and reliable solutions for the most complex technical situations. For example, during annual platform shutdowns where various challenging workscopes must be coordinated and carried out concurrently, within tight timescales.

Stork carries out a range of specialist cleaning services using our ATEX approved, containerised high pressure jetting units. These include tube bundle/heat exchanger cleaning, pipe work cleaning and de-scaling, and overboard caisson cleaning.

Our jetting units are capable of varied pressures to suit different applications. All Stork personnel are fully trained to standards approved by the Water Jetting Association.

Operating specification:
- Power requirement - 110V for ESD and internal lighting
- Air supply - minimum 90 psi
- Diesel usage - 52 litres per hour
- Sound proof to 85 dBA
- Have the capability to operate single or twin gun
- All units are capable of high and ultra high pressures
- Water supply - sea or potable water
HP jetting units:
• Maximum working pressure – 1000 bar
• Maximum flow rate – 57 l litres per min

UHP jetting units:
• Maximum working pressure – 2500 bar
• Maximum flow rate – 25 l litres per min

High flow jetting units:
• Maximum working pressure – 1000 bar
• Maximum flow rate – 82 l litres per min

AOD high flow jetting units:
• Maximum working pressure – 200 bar
• Maximum flow rate – 320 l litres per min

Operational dimensions:

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<tr>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
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<tr>
<td>imperial (ft)</td>
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<tr>
<td>metric (mm)</td>
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Typical applications
• Module cleaning
• Vessel cleaning
• Hydroclone cleaning
• Tube bundle cleaning
• Pipework retro jetting
• Caisson cleaning
• Surface coating removal
• Cold cutting
• Hyperblast system
• Spiderjet system
• Advanced Online Desanding

Certification:
• DNV 2.7-1, ATEX ZONE 2

Weight data:
• 7,500 kg (dry)
Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Hydraulic Breaker (model BR67) is a medium to heavy-duty tool. These units are well balanced for minimum operator fatigue, which are ideal for breaking concrete and small rocks, rod diving and tamping.

The Hydraulic Breaker includes a feathering ON/OFF valve to control speed, ensuring a reliable start up and initial tool placement. In addition to this, the easy to use diaphragm accumulator provides added punch and reduced coil.

**Technical Information:**
- Steel Capacity: 6” x 1 ¾” Hex & 6” x 1 1/8” Hex
- Output: 1800 blows per minute
- Input Flow Range: 7-9gpm / 26-34 l/min
- Optimum flow: 8gpm / 30 l/min
- Input Pressure: 1500-2000Psi / 105-140bar
- Max Back Pressure: 250Psi / 17bar
- Weight: 30Kg
- Length: 680mm
- Width: 410mm
- Porting: 8 SAE O-ring

**Accessories and Consumables:**
- Tools supplied as standard with 1.5m whips and Industry Standard ¾” Wing type Q.D.
- Moil Points
- Chisel
- Ground Rod Driver
- Heavy Duty Moil point
- Brick Wedge
- Asphalt Wedge
- Flat Chisel
- Spade
Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Hydraulic Impact Wrench (Model IW 12) is completely portable with a 5/8” quick release chuck or ½” to 1 ½” square drive. This tool is quiet in operation and is completely sealed for underwater use.

**Technical Information:**
- Capacity: ¾” Sq. Dr.
- Weight: 6 kg
- Length: 24cm
- Width: 10.2cm
- Pressure: 70-140 bar
- Flow Range: 15-45 l/min
- Optimum flow: 30 l/min
- Torque: 340-1632 Nm
- Porting: 8 SAE O-ring
- Hose Whips: Yes
- Connector: Aeroquip 5100-12
- System: Open Centre
Hydraulic Grinder - Model GR29

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Hydraulic Grinder (Model GR29) is a portable hand held tool, designed for use by a Diver or ROV. It is primarily used for grinding and cutting operations, but can also be fitted with rotary wire brushes and a variety of abrasive and polishing discs.

Technical information:
- Capacity: 9” (230mm Dia) Disc
- Speed: 2700rpm @ 38l/min
- Mounting Type: DPC Discs on 5/8” – 11 UNC Arbor
- System Type: Open Centre
- Flow Range: 15-38 l/min
- Optimum Flow: 34 l/min
- Pressure: 70-176 bar (2,500Psi) max
- Weight: 6.8kg
- Length: 280mm
- Width: 305mm
- Porting: 8 SAE O-ring
- Motor: Stanley Hyrevz Gear
- Connections: Tools supplied as standard with 1.5m whips and Industry Standard 3/4 “ Wing type Q.D. Couplings
Hydraulic Peanut Grinder

Stork's extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The hydraulic peanut grinder (Model PG04) is a dedicated subsea tool ideal for underwater maintenance and inspections work. It is primarily designed for weld seam grinding and hole de-burring in steel structures and is also suitable for a host of other applications.

The peanut grinder has a 6mm collet chuck with a flow range from 15 to 40 l/min @140 bar. This tool features a safety trigger system preventing accidental operation and mitigating risk.

Technical Information:

- Speed: 9450rpm
- Capacity: 6mm Collet
- Flow: 15-40 l/min
- Pressure: 70 – 175bar
- Length: 350mm
- Width Nose: 65mm
- Width Body: 91mm

* Tools Supplied as standard with 1.5m whips and industry standard ¾” wing type Q.D Couplings.
## Peanut Grinder: Consumables

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<th>Applications</th>
<th>Size</th>
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<td>Steel, Hardened Steel, Stainless Steel, Cast Iron, Titanium, Nickel and Copper.</td>
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<td>Diamond Ball Nosed Cylinder</td>
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<tr>
<td>Diamond Cylinder</td>
<td>Steel, Hardened Steel, Stainless Steel, Cast Iron, Titanium, Nickel and Copper.</td>
<td>10x19mm</td>
</tr>
<tr>
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</tr>
<tr>
<td>Diamond Cone Cylinder</td>
<td>Steel, Hardened Steel, Stainless Steel, Cast Iron, Titanium, Nickel and Copper.</td>
<td>10x9mm</td>
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</table>
Wach Guillotine Saw

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The portable guillotine reciprocating saw is designed to cold cut 2” through 12” pipe, conductors, structures and solids such as beams, bar stock and rails. The super C model is strong but light, simple to mount and easy to operate which provides fast and accurate cutting.

Standard Equipment:
- 1 saw blade
- 1 ¼” Wrench
- Air lubricator and filter (Pneumatic)
- Steel storage case
- Lifting eyes
- Mounting chains

Technical Information:
- Pipe Diameter - 2”- 12” (51mm-305mm)
- Maximum Solid Thickness - 12 ¾” (324mm)
- Clearance Overall Width - 28” (711mm)
- Clearance On Side Min.: 2 ½” (63.5mm)
- Operating Weight - 115lbs (51.75kg)
- Shipping Weight - 180lbs (81kg)
- Stroke - 2” (50.8mm)

Features:
- Rugged yet compact design requires minimal clearances
- Easy fingertip feed control, quick change blades
- Fast setup and cutting, both horizontally and vertically
- Pneumatic and hydraulic drive options
- Optional autofeed and autoclamping

Machine Capacity:
- Cold cutting of pipe from 2” through 32” (DN50-800) plus conductors, structure and solids, varies by model
- Installation Method: Standard cast iron V saddle and mounting chain, optional auto clamping on select models, custom mounting saddles for non-circular shapes such as squares and I-beams
- Controls: Single crank, manual feed. Motor on-off
- Lubrication: Grease fittings at all wear points
- Finish: Polished metal & Safety Yellow epoxy
Subsea Drill Rig - Model SDR100

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Subsea Drill rig (Model SDR100) is used to drill holes of up to 100mm diameter in steel structures. The system can be easily adapted to mount onto steel beams or tubular members and secured by means of clamps, straps or magnets as required. The unit is fitted with manual down-feed and has a ‘dead-man’ spring centred control valve for added operator safety.

Features:
- Tools supplied as standard with 1.5m whips and Industry Standard ¾" Wing type Q.D. couplings

Technical Information:
- Capacity: 100mm dia
- Speed: 50-250 rpm
- Arbor: ¾" dia
- Flow: 0-35 l/min
- Pressure: 70-175 bar
- Length: 44cm
- Width: 23cm
- Porting: ½” BSP
- Weight: 25kg
Stork’s Hydraulic Drilling Machine is a versatile drilling tool for both topside and subsea applications.

The Hydraulic Drilling Machine is capable of drilling holes to 254mm in diameter and its design makes it the ideal solution for repetitive drilling and stud removal.

The Hydraulic Drilling Machine has built in controls for manual or auto-feed and a deadman trigger valve for operational safety.

The Hydraulic Drilling Machine can be adapted for mounting onto steel beams and tubular members.

Operating Specifications
Capacity: 254mm Diameter
Speed: Up to 480 rpm
Arbor: 5 Morse Taper
Flow: 0 – 60 l/min
Pressure: 150 bar
Porting: ½” BSP
Weight: 100kg
Length: 400mm
Width: 430mm
Height: 960mm
Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Wire Rope Cutter (Model WCS54D) is constructed of a heavy duty corrosion resistant stainless steel. It is primarily designed for use in severe working conditions and confined space operations.

**Technical information:**
- Manual anvil for diver operation
- Long blade life ensures that tool maintenance is kept to a minimum
- Optional intensifier panel is available
- Cutting capacity: Maximum Ø54mm wire rope of 1770N/mm² grade
- Can be used at any water depth
- Suitable for cutting wire rope, cables and umbilicals
- 700 bar maximum input pressure
- Approximate weight: 22kg
- Bespoke and custom designs to suit special applications are available on request

Note: Standard tool is shown to the right.
Wire Rope Cutter - Model WCS75HD

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The Wire Rope Cutter (Model WCS75HD) is constructed of a heavy duty corrosion resistant stainless steel. It is primarily designed for use in severe working conditions.

Technical information:
- Manual anvil for diver operation
- Long blade life ensures that tool maintenance is kept to a minimum
- Optional intensifier panel is available
- Can be used at any water depth
- Approximate weight: 42kg
- Cutting capacity: maximum Ø75mm wire rope of 1770N/mm² grade (IPS)
- Suitable for cutting wire rope, cables and umbilicals
- 700 bar main cylinder pressure
- Bespoke and custom designs to suit special applications are available on request

Note: For cutting higher grades of wire (EIPS and EEIPS) we recommend the use of the RCV75HD cutter. Standard tool is shown to the right.
Hydraulic Wire Cutters

Stork’s extensive range of subsea joint integrity and hydraulic tools offer quality products that deliver efficient and safe subsea operations.

The power operated hydraulic cutters use precision ground blades to enable a clean cut every time with minimum effort. The hydraulic cutters are activated by a hand pump locally, or topside pump unit via a single downline and are fitted with diver friendly quick release hydraulic connectors on the tool and associated downline. These tools offer simple, reliable and trouble free operation capable of cutting up to 2.1/2” diameter high tensile steel cable and electrical or hydraulic umbilical’s, there are two models available.

Types of wire hydraulic cutters available:

- Hydraulic wire cutter 1750: capable of cutting up to 45mm (1.3/4“)
- Hydraulic wire cutter 2500: capable of cutting up to 65mm (2.1/2“)

Hydraulic wire cutter 1750 technical information:

- Max diameter: 1.3/4” / 45mm
- Weight: 22kg
- Hand or pneumatic driven pump activated
- Produces a clean cut
- Cuts 1.3/4” dia. Steel core wire in approx. 55 sec.
- Hands free operation after positioning
- Suitable for topside & subsea operation
- Simple blade change if required

Hydraulic wire cutter 2500 technical information:

- Max diameter: 2.1/2” / 65mm
- Weight: 36kg
- Hand or pneumatic driven pump activated
- Produces a clean cut
- Cuts 2.1/2” dia. Steel core wire in approx. 75 sec.
- Hands free operation after positioning
- Suitable for topside & subsea operation
- Simple blade change if required

Applications:

- Electrical / Hydraulic Umbilical’s
- Anchor Lines
- Mooring Extensions
- Riser Tensioners
- Work Wires
- Chaser Pendants
- Tugger Wires
- Winch Wires
- Heavy Duty Slings
- Crane Pendants