



STATS GROUP

Managing Pressure, Minimising Risk

SureTap[®] Hot Tapping Machines

3" - 48" 153 bar / 2220 psi



◀ SureTap[®] ST1220-90

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SureTap® Range

The SureTap range of proprietary tapping machines provide performance and reliability for critical, high pressure tapping operations. Designed and built to incorporate industry leading features, the SureTap range incorporates a double block and bleed sealing configuration allowing taps to be performed safely on a wide range of pipeline materials and mediums, including use with sour (H₂S) products. A positive retention pilot drill system has been incorporated to ensure robust securing and recovery of the cut pipeline coupon.

As standard, all SureTap machines are suitable for onshore, topsides or subsea operation and are fully compatible with industry standard tapping equipment including the deploying and recovery of completion plugs.

◀ SureTap® ST1220-90
ANSI Class 900 rated,
48" hot tap

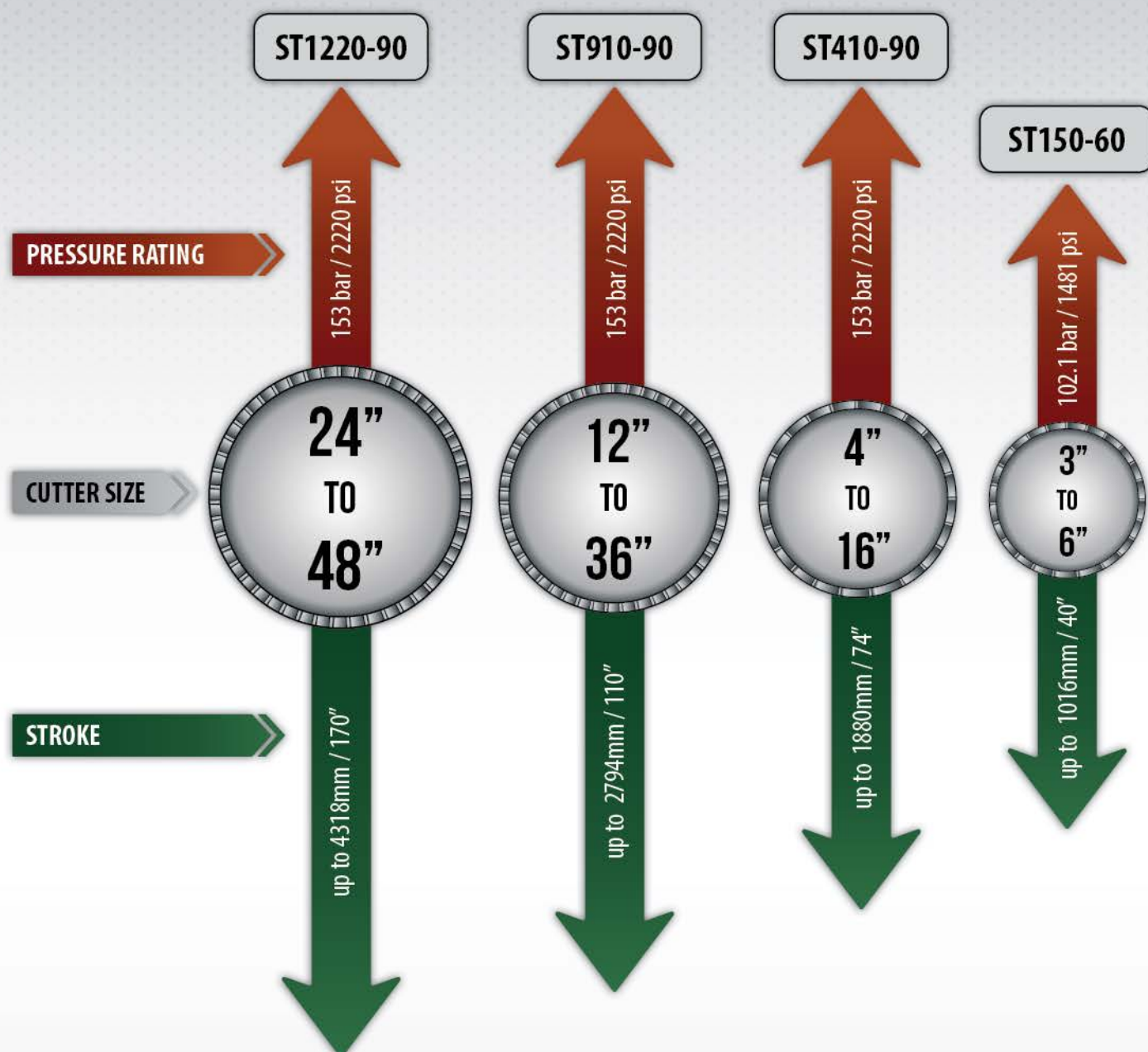
Materials of Construction

The SureTap machines are manufactured from high quality materials of European or North American origin. All components used to contain pressurised process fluids are manufactured from pressure vessel grade materials (to ASTM or EN standards), impact tested at sub-zero temperatures and resistant to sulphide stress cracking (SSC).

SureTap® ST150-60
ANSI Class 600 rated,
cutters up to 6". ▼



SureTap® Range



Legislation, Codes and Directives

Design compliant with:

- ♦ ASME B16.5: Pipe flanges and flanged fittings
 - ASME B31.3: Process piping
 - ASME B31.4: Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids
 - ASME B31.8: Gas Transmission & Distribution Piping Systems
 - ASME BPVC. Section VIII, Division 1: Design and Fabrication of Pressure Vessels
 - ASME BPVC. Section VIII, Division 2: Alternative Rules
- ♦ NACE MR0175/ISO 15156-2: Petroleum and natural gas industries - Materials for use in H₂S containing environments in oil and gas production.
- ♦ EU directive 2006/42/EC: Machinery
- ♦ EU directive 97/23/EC: Pressure equipment

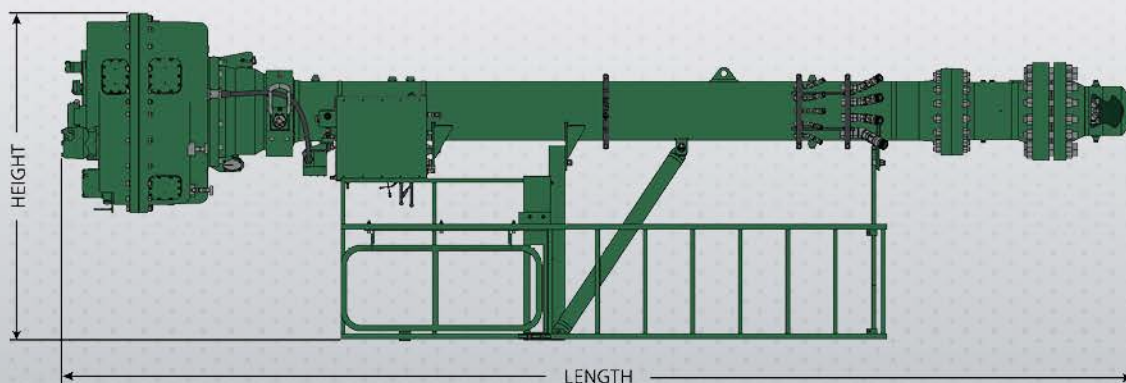
SureTap® ST1220-90 Machine

24" – 48" cutter size (153 bar / 2220 psi)

- ♦ Process fluid seal housing features double block and bleed configuration
- ♦ Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- ♦ Pressure compensated feed system
- ♦ Variable speed and feed configuration
- ♦ Suitable for use with sour (H2S) products
- ♦ Compatible with industry standard tapping equipment
- ♦ Capable of deploying and recovering completion plugs
- ♦ Dedicated transportation frame for secure shipping, storage and routine maintenance
- ♦ Dedicated work station for ease of use and operator safety
- ♦ Power provided from a portable, custom hydraulic power unit (HPU)
- ♦ Subsea compatible
- ♦ Pressure class: ANSI Class 900

Operating Parameters

Pressure – temperature rating:	ASME B16.5 ANSI Class 900. Materials Group 1.1	
Maximum operating pressure:	153 Bar @38°C	2220 psi @ 100°F
Operating temperature range - process fluid:		
<i>Standard configuration</i>	-20°C to 150°C	-4°F to 302°F
Operating temperature range - ambient (atmospheric):	-20°C to 40°C	-4°F to 104°F
Minimum cutter size:	610mm	24"
Maximum cutter size: <i>ANSI #900</i>	1219mm	48"
Maximum cutter size: <i>ANSI #600</i>	1524mm	60"
Boring bar rotational speed:	0 to 30 rpm	
Boring bar feed rates:		
<i>Feed rate 1</i>	0.13 mm/rev	0.005" / rev
<i>Feed rate 2</i>	0.19 mm/rev	0.007" / rev
<i>Auxiliary feed</i>	343mm/min	13.5"/min
Boring bar travel:		
<i>Short machine</i>	2794mm	110"
<i>Standard machine</i>	3302mm	130"
<i>Extended machine</i>	4318mm	170"
Machine weight:	5107kg	11260lbs
Overall dimensions, L x W x H:	5927 x 1400 x 1820mm	233.3 x 55.1 x 71.7"
Shipping weight:	6087kg	13420lbs
Shipping dimensions, L x W x H:	6010 x 1430 x 1955mm	236.6 x 56.3 x 77.0"



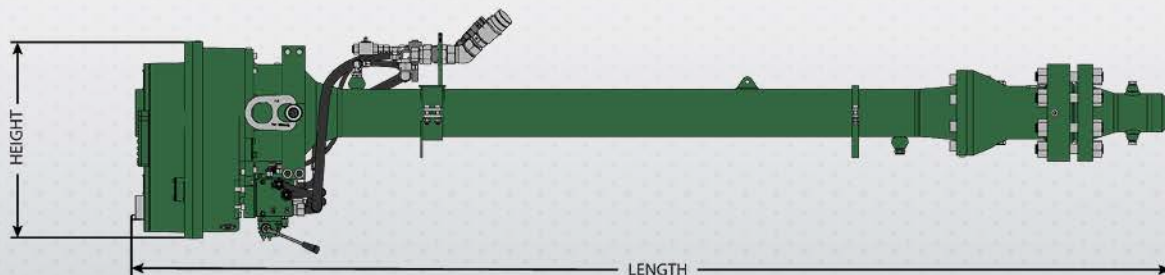
SureTap[®] ST910-90 Machine

12" – 36" cutter size (153 bar / 2220 psi)

- ◆ Process fluid seal housing features double block and bleed configuration
- ◆ Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- ◆ Pressure compensated feed system
- ◆ Variable speed and feed configuration
- ◆ Suitable for use with sour (H₂S) products
- ◆ Compatible with industry standard tapping equipment
- ◆ Capable of deploying and recovering completion plugs
- ◆ Dedicated transportation frame for secure shipping, storage and routine maintenance
- ◆ Subsea compatible
- ◆ Pressure class: ANSI Class 900

Operating Parameters

Pressure – temperature rating:	ASME B16.5 ANSI Class 900. Materials Group 1.1	
Maximum operating pressure:	153 Bar @38°C	2220 psi @ 100°F
Operating temperature range - process fluid:		
<i>Standard configuration</i>	-20°C to 150°C	-4°F to 302°F
Operating temperature range - ambient (atmospheric):	-20°C to 40°C	-4°F to 104°F
Minimum cutter size:	305mm	12"
Maximum cutter size:	914mm	36"
Boring bar rotational speed:	0 to 30 rpm	
Boring bar feed rates:		
<i>Feed rate 1</i>	0.10mm/rev	0.004" / rev
<i>Feed rate 2</i>	0.15mm/rev	0.006" / rev
Boring bar size:	101.6mm	4"
Boring bar travel:	2794mm	110"
Machine weight:	1350kg	2977lbs
Overall dimensions, L x W x H:	4500 x 880 x 820mm	177.2 x 34.6 x 32.3"
Shipping weight:	2200kg	4850lbs
Shipping dimensions, L x W x H:	4700 x 1080 x 1050mm	185.0 x 42.5 x 41.3"



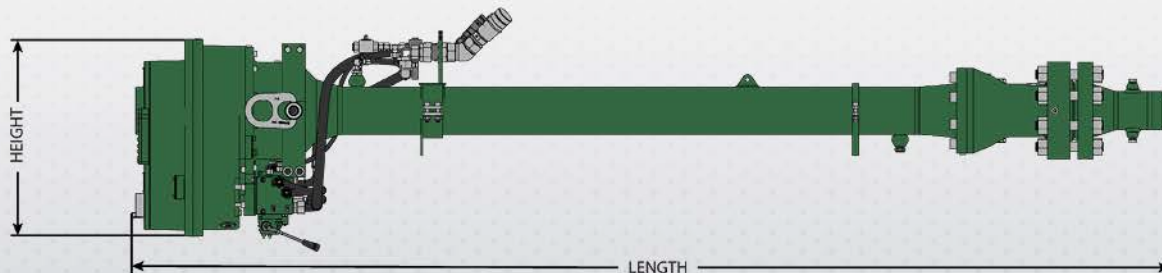
SureTap® ST410-90 Machine

4" – 16" cutter size (153 bar / 2220 psi)

- ◆ Process fluid seal housing features double block and bleed configuration
- ◆ Positive retention pilot drill system for robust securing and recovery of the cut pipe coupon
- ◆ Pressure compensated feed system
- ◆ Variable speed and feed configuration
- ◆ Suitable for use with sour (H2S) products
- ◆ Compatible with industry standard tapping equipment
- ◆ Capable of deploying and recovering completion plugs
- ◆ Dedicated transportation frame for secure shipping, storage and routine maintenance
- ◆ Subsea compatible
- ◆ Pressure class: ANSI Class 900

Operating Parameters

Pressure – temperature rating:	ASME B16.5 ANSI Class 900. Materials Group 1.1	
Maximum operating pressure:	153 Bar @38°C	2220 psi @ 100°F
Operating temperature range - process fluid:		
<i>Standard configuration</i>	-20°C to 150°C	-4°F to 302°F
Operating temperature range - ambient (atmospheric):	-20°C to 40°C	-4°F to 104°F
Minimum cutter size:	102mm	4"
Maximum cutter size:	406mm	16"
Boring bar rotational speed:	0 to 40 rpm	
Boring bar feed rates:		
<i>Feed rate 1</i>	0.08mm/rev	0.003" / rev
<i>Feed rate 2</i>	0.13mm/rev	0.005" / rev
Boring bar size:	69.9mm	2.8"
Boring bar travel:	1880mm	74"
Machine weight:	470kg	1036lbs
Overall dimensions, L x W x H:	3016 x 611 x 592mm	118.7 x 24.1 x 23.3"
Shipping weight:	790kg	1742lbs
Shipping dimensions, L x W x H:	3300 x 800 x 750mm	129.9 x 31.5 x 29.5"



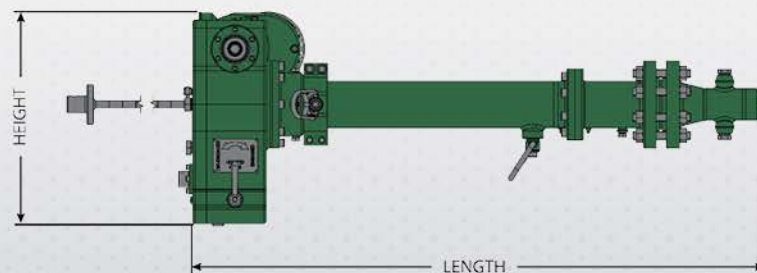
SureTap® ST150-60 Machine

3" – 6" cutter size (102.1 bar / 1481 psi)

- ♦ Variable speed and feed configuration
- ♦ Suitable for use with sour (H2S) products
- ♦ Compatible with industry standard tapping equipment
- ♦ Capable of deploying and recovering completion plugs
- ♦ Dedicated transportation frame for secure shipping, storage and routine maintenance
- ♦ Subsea compatible
- ♦ Pressure class: ANSI Class 600

Operating Parameters

Pressure – temperature rating:	ASME B16.5 ANSI Class 600. Materials Group 1.1	
Maximum operating pressure:	102.1 Bar @38°C	1481 psi @ 100°F
Operating temperature range - process fluid:		
<i>Standard configuration</i>	-20°C to 121°C	-4°F to 250°F
<i>High temperature service module</i>	0 to 370°C	32°F to 698°F
<i>Sour service module</i>	0°C to 210°C	-4°F to 410°F
Operating temperature range - ambient (atmospheric):	-20°C to 40°C	-4°F to 104°F
Minimum cutter size:	76mm	3"
Maximum cutter size:	152mm	6"
Boring bar rotational speed:	0 to 30 rpm	
Boring bar feed rates:		
<i>Feed rate 1</i>	0.08mm/rev	0.003" / rev
<i>Feed rate 2</i>	0.13mm/rev	0.005" / rev
Boring bar size:	42.8mm	1.7"
Boring bar travel:	1016mm	40"
Machine weight:	125kg	276lbs
Overall dimensions, L x W x H:	1632 x 595 x 405mm	64.3 x 23.4 x 15.9"
Shipping weight:	210kg	463lbs
Shipping dimensions, L x W x H:	1800 x 700 x 530mm	70.9 x 27.6 x 20.9"





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