

# JAVELIN

## TUBE PULLING MACHINE



The JAVELIN is a compact and dependable Tube Pulling machine, designed for continuous removal of tubes from Heat Exchangers, Condensers and Boilers. The Stub Pulling option allows the quick removal of tube stubs without the need to drive in mandrels.

The powerpack is available in a range of voltages for workshop and low hazard areas, or as Fully Pneumatic Powerpack, designed especially for use in hazardous environments. Equipped with a 2 stage pump it provides high force when needed and increased speed when it is not.

The powerpack can be combined with any of the pulling gun options:

The 30 Ton gun can pull tubes continuously from between 12.5mm (1/2") and 32mm (1 1/4") OD.

The 60 Ton Gun can pull tubes continuously from between 38mm (1 1/2") and 51mm (2") OD.

The Collet Type Stub Puller automatically grips, pulls and releases stubs between 16mm (5/8") and 38mm (1 1/2") OD.

The JAVELIN is versatile machine; essential for contractors with tight access or sample extractions. It is ideal for the speedy removal of tube stubs. It can be easily transported and is quick to set-up.



Power options	Details
Electric	110V single phase 240V single phase 400V three phase
Pneumatic	6 Bar, 90 cfm (3.0hp)

Pulling ram	Tube extraction range
15 Ton Stub Puller	16mm – 38mm (5/8" – 1 1/2") OD
30 Ton	12.5mm – 32mm (1/2" – 1 1/4") OD
60 Ton	38mm – 51mm (1 1/2" – 2") OD

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### 30 Ton pulling ram

Min Tube Size OD	12.5mm (1/2")
Max Tube Size OD	32mm (1 1/4")
Free Pull Speed	1.25 M/Min
Max Pull Force	30,000 Kg
Weight	52 Kg (114lbs)
Pulling Stroke	150mm (6")

### 60 Ton pulling ram

Min Tube Size OD	38mm (1 1/2")
Max Tube Size OD	76mm (3")
Free Pull Speed	0.6 M/Min
Max Pull Force	45,000 Kg
Weight	67 Kg (145lbs)
Pulling Stroke	75mm (3")

### 15 Ton stub pulling ram

Min Tube Size OD	16mm (5/8")
Max Tube Size OD	38mm (1 1/2")
Max Pull Force	15,000 Kg
Weight	13.5 Kg (30lbs)
Pulling Stroke	160mm (6")

### Powerpack

Dimensions	320 x 350 x 660mm
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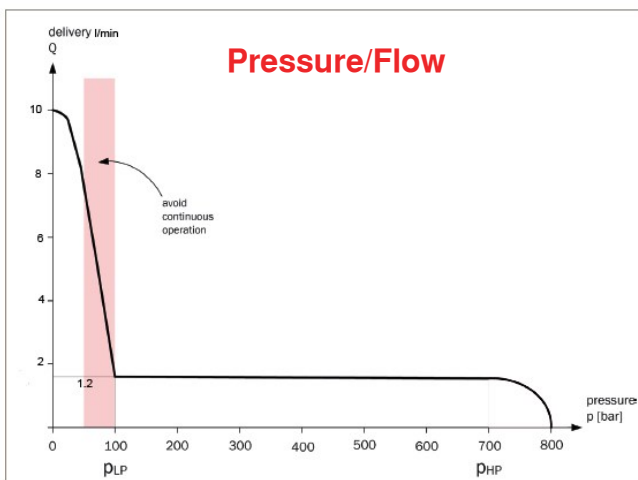
30 Ton Pulling Ram



60 Ton Pulling Ram



Stub Pulling Ram



## Tube Pulling Consumables Suitable for the 30 Ton Ram

Consumables to Suit 12.70mm / ½" OD			
Collar	<b>17.0500</b>	ID Size Range	
Jaw	<b>17.3022</b>		
Mandrel Options		From	To
To Suit 10 – 12 g	<b>17.6000</b>	5.50mm	8.10mm
To Suit 13 – 16 g	<b>17.6001</b>	7.60mm	10.20mm
To Suit 18 – 24 g	<b>17.6002</b>	10.10mm	11.60mm
Consumables to Suit 15.88mm / 5/8" OD			
Collar	<b>17.0625</b>	ID Size Range	
Jaw	<b>17.3032</b>		
Mandrel Options		From	To
To Suit 10 – 12 g	<b>17.6010</b>	8.50mm	11.00mm
To Suit 13 – 16 g	<b>17.6011</b>	11.00mm	13.60mm
To Suit 18 – 24 g	<b>17.6012</b>	13.05mm	15.65mm
Consumables to Suit 19.05mm / ¾" OD			
Collar	<b>17.0750</b>	ID Size Range	
Jaw	<b>17.3042</b>		
Mandrel Options		From	To
To Suit 10 – 12 g	<b>17.6020</b>	12.20mm	14.80 mm
To Suit 13 – 16 g	<b>17.6021</b>	14.10 mm	16.70 mm
To Suit 18 – 24 g	<b>17.6022</b>	16.25 mm	18.85 mm
Consumables to Suit 22.23mm / 7/8" OD			
Collar	<b>17.0875</b>	ID Size Range	
Jaw	<b>17.3047</b>		
Mandrel Options		From	To
To Suit 10 – 12 g	<b>17.6030</b>	15.35 mm	17.95 mm
To Suit 13 – 16 g	<b>17.6031</b>	17.35 mm	19.95 mm
To Suit 18 – 24 g	<b>17.6032</b>	19.50 mm	22.10 mm
Consumables to Suit 25.40mm / 1" OD			
Collar	<b>17.1000</b>	ID Size Range	
Jaw	<b>17.3052</b>		
Mandrel Options		From	To
To Suit 10 – 12 g	<b>17.6040</b>	18.50 mm	21.10 mm
To Suit 13 – 16 g	<b>17.6041</b>	20.50 mm	23.10 mm
To Suit 18 – 24 g	<b>17.6042</b>	22.60 mm	25.20 mm
Consumables to Suit 28.58mm / 1 1/8" OD			
Collar	<b>17.1125</b>	ID Size Range	
Jaw	<b>17.3062</b>		
Mandrel Options		From	To
To Suit 10 – 12 g	<b>17.6050</b>	21.80 mm	24.40 mm
To Suit 13 – 16 g	<b>17.6051</b>	23.80 mm	26.40 mm
To Suit 18 – 24 g	<b>17.6052</b>	25.80 mm	28.40 mm

### Tube Pulling Consumables Suitable for the 30 Ton Ram

Consumables to Suit 31.75mm / 1 ¼" OD			
Collar	17.1250	ID Size Range	
Jaw	17.3072		
Mandrel Options		From	To
To Suit 10 – 12 g	17.6060	24.90 mm	27.50 mm
To Suit 13 – 16 g	17.6061	26.90 mm	29.50 mm
To Suit 18 – 24 g	17.6062	28.95 mm	31.55 mm

### Tube Pulling Consumables Suitable for the 60 Ton Ram

Consumables to Suit 38.10mm / 1 ½" OD			
Collar	17.3212	ID Size Range	
Jaw	17.3211		
Mandrel Options		From	To
To Suit 10 – 12 g	17.6070	31.30 mm	33.90 mm
To Suit 13 – 16 g	17.6071	33.30 mm	35.90 mm
To Suit 18 – 24 g	17.6072	35.30 mm	37.90 mm
Consumables to Suit 44.45mm / 1 ¾" OD			
Collar	17.3217	ID Size Range	
Jaw	17.3216		
Mandrel Options		From	To
To Suit 10 – 12 g	17.6080	37.70 mm	40.30 mm
To Suit 13 – 16 g	17.6081	39.70 mm	42.30 mm
To Suit 18 – 24 g	17.6082	41.70 mm	44.30 mm
Consumables to Suit 50.80mm / 2" OD			
Collar	17.3222	ID Size Range	
Jaw	17.3221		
Mandrel Options		From	To
To Suit 10 – 12 g	17.6090	44.10mm	46.70 mm
To Suit 13 – 16 g	17.6091	46.10 mm	48.70 mm
To Suit 18 – 24 g	17.6092	48.10 mm	50.70 mm

## Tube Pulling Consumables Suitable for the Stub Pulling Ram

<b>Consumables to Suit 15.88mm / 5/8" OD</b>			
Draw Mandrel	CP-10S-03-58	ID Size Range	
Gripper Sets		From	To
To Suit 16 – 17 g	CP-1000-01-58-16	12.85 mm	13.85 mm
To Suit 18 – 19 g	CP-1000-01-58-18	13.60 mm	14.60 mm
To Suit 20 – 21 g	CP-1000-01-58-20	14.30 mm	15.30 mm
To Suit 22 – 23 g	CP-1000-01-58-22	14.60 mm	15.65 mm
<b>Consumables to Suit 19.05mm / 3/4" OD</b>			
Draw Mandrel	CP-10S-03-34	ID Size Range	
Gripper Sets		From	To
To Suit 16 – 17 g	CP-1000-01-34-16	16.05 mm	17.05 mm
To Suit 18 – 19 g	CP-1000-01-34-18	16.90 mm	17.90 mm
To Suit 20 – 21 g	CP-1000-01-34-20	17.60 mm	18.60 mm
To Suit 22 – 23 g	CP-1000-01-34-22	17.95 mm	18.95 mm
<b>Consumables to Suit 22.23mm / 7/8" OD</b>			
Draw Mandrel	CP-10S-03-78	ID Size Range	
Gripper Sets		From	To
To Suit 16 – 17 g	CP-1000-01-78-16	19.20 mm	20.20 mm
To Suit 18 – 19 g	CP-1000-01-78-18	20.00 mm	21.00 mm
To Suit 20 – 21 g	CP-1000-01-78-20	20.70 mm	21.70 mm
To Suit 22 – 23 g	CP-1000-01-78-22	21.05 mm	22.05 mm
<b>Consumables to Suit 25.40mm / 1" OD</b>			
Draw Mandrel	CP-10S-03-1	ID Size Range	
Gripper Sets		From	To
To Suit 16 – 17 g	CP-1000-01-1-16	22.40 mm	23.40 mm
To Suit 18 – 19 g	CP-1000-01-1-18	23.20 mm	24.20 mm
To Suit 20 – 21 g	CP-1000-01-1-20	23.90 mm	24.90 mm
To Suit 22 – 23 g	CP-1000-01-1-22	24.70 mm	25.70 mm
<b>Consumables to Suit 31.75mm / 1 1/4" OD</b>			
Draw Mandrel	CP-10S-114-58	ID Size Range	
Gripper Sets		From	To
To Suit 16 – 17 g	CP-1000-01-114-16	28.80 mm	29.80 mm
To Suit 18 – 19 g	CP-1000-01-114-18	29.60 mm	30.60 mm
To Suit 20 – 21 g	CP-1000-01-114-20	30.35 mm	31.35 mm
To Suit 22 – 23 g	CP-1000-01-114-22	30.70 mm	31.70 mm
<b>Consumables to Suit 38.10mm / 1 1/2" OD</b>			
Draw Mandrel	CP-10S-112-58	ID Size Range	
Gripper Sets		From	To
To Suit 16 – 17 g	CP-1000-01-112-16	35.20 mm	36.20 mm
To Suit 18 – 19 g	CP-1000-01-112-18	36.00 mm	37.00 mm
To Suit 20 – 21 g	CP-1000-01-112-20	36.70 mm	37.70 mm
To Suit 22 – 23 g	CP-1000-01-112-22	37.05 mm	38.05 mm