

# 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 (½") and 32mm (1 ¼") OD.**

The 60 Ton Gun can pull tubes continuously from between **38mm (1 ½") and 51mm (2") OD.**

The Collet Type Stub Puller automatically grips, pulls and releases stubs between **16mm (5/8") and 38mm (1 ½") 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
Pneumatic	6 Bar, 90 cfm (3.0hp)

Pulling ram	Tube extraction range
15 Ton Stub Puller	16mm – 38mm (5/8" – 1 ½") OD
30 Ton	12.5mm – 32mm (½" – 1 ¼") OD
60 Ton	38mm – 51mm (1 ½" – 2") OD

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### 30 Ton pulling ram

Min Tube Size OD	12.5mm (½")
Max Tube Size OD	32mm (1 ¼")
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 ½")
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 ½")
Max Pull Force	15,000 Kg
Weight	13.5 Kg (30lbs)
Pulling Stroke	160mm (6")

### Powerpack

Dimensions	320 x 350 x 660mm
Weights	Electric - 75kg Pneumatic - 75kg



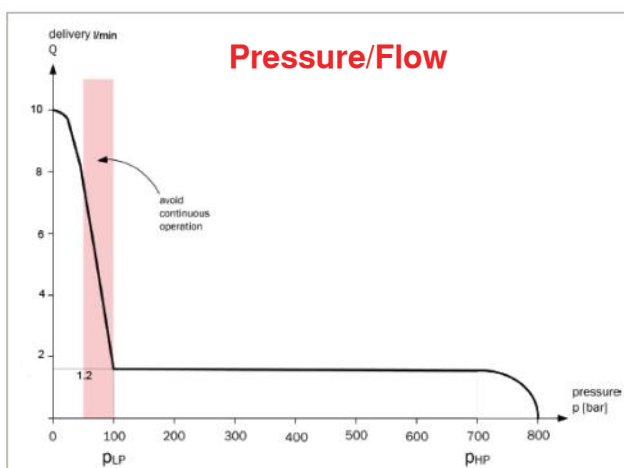
30 Ton Pulling Ram



60 Ton Pulling Ram



Stub Pulling Ram



## Tube Pulling Consumables Suitable for the 30 Ton Ram

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

Consumables to Suit 15.88mm / 5/8" OD			
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
Consumables to Suit 19.05mm / 3/4" OD			
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
Consumables to Suit 22.23mm / 7/8" OD			
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
Consumables to Suit 25.40mm / 1" OD			
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
Consumables to Suit 31.75mm / 1 1/4" OD			
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
Consumables to Suit 38.10mm / 1 1/2" OD			
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