

TRIDENT TUBE PULLING MACHINE



The TRIDENT Tube Puller is a fast and dependable Automatic Tube Pulling machine and is designed for continuous, and stub removal of tubes from Heat Exchangers, Condensers and Boilers.

Using our tried and tested extraction system, tubes can be continuously pulled from between 12.5mm OD. (½") and 76mm OD. (3")** at up to 5 m/Min*, a choice of 15, 30 & 45 Ton pulling ram options are available.

Easily adapted for Stub Pulling, TRIDENT uses simple attachments to remove tube stubs where access or tube diameter prevents continuous tube removal.

Whatever your working environment we have a Powerpack option to suit.

We offer a 380 – 415Volt 3 Phase Electric Powerpack for workshop and low hazard areas, or Fully Pneumatic 6.5HP Powerpack, designed especially for use in hazardous environments, like petrochemical refineries where spark risks are present. A Pneumatic machine with 24 Volt electric controls is also available on request for Semi-Hazardous or humid environments.

TRIDENT is truly essential equipment for fast turn around jobs where time is money and reliability is essential.



*Achieved with the 15Ton Pulling Ram **Achieved with the 45Ton Pulling Ram

Power options	Details
Electric	380 - 415V 3 phase
Pneumatic	6 Bar, 120 cfm (6.5hp)

A Hybrid Electro-Pneumatic can be made to order if required, please ask for further information.

Pulling ram	Tube extraction range
15 Ton	12.5mm – 25mm (½" – 1") OD
30 Ton	12.5mm – 38mm (½" – 1 ½") OD
45 Ton	38mm – 76mm (1 ½" – 3") OD

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SPECIFICATION

15 Ton pulling ram	
Min Tube Size OD	12.5mm (½")
Max Tube Size OD	25mm (1")
Free Pull Speed	5 M/Min
Max Pull Force	15,000 Kg
Weight	26 Kg (57lbs)
Pulling Stroke	125mm (5")
30 Ton pulling ram	
Min Tube Size OD	12.5mm (½")
Max Tube Size OD	38mm (1 ½")
Free Pull Speed	3 M/Min
Max Pull Force	30,000 Kg
Weight	52 Kg (114lbs)
Pulling Stroke	150mm (6")
45 Ton pulling ram	
Min Tube Size OD	38mm (1 ½")
Max Tube Size OD	76mm (3")
Free Pull Speed	1.5 M/Min
Max Pull Force	45,000 Kg
Weight	67 Kg (145lbs)
Pulling Stroke	75mm (3")



Power pack details

Dimensions	980 x 740 x 1150mm	
Operating Pressure	High speed: 80 Bar @ 28 l/min	
	High Pressure: 300 Bar @ 8 l/min	

Electric

Power	4 Kw - 5.5hp	
Voltage	380-415 Volt 3 Phase	

Pneumatic

Power	5.5 Kw - 7.0hp	
Air requirements	3400 l/min	120cfm
	6 bar	90 Psi

Tube Pulling Consumables Suitable for the 15 Ton (not above 1") & 30 Ton Ram

Consumables to Suit 12.7mm / 1/2" OD			
Collar	17.0500	ID Size Range	
Pull Jaw 15 Ton	17.3021		
Hold Jaw 15 Ton	17.3022		
Pull Jaw 30 Ton	17.3020		
Hold Jaw 30 Ton	17.3022		
Mandrel Options			
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	
Pull Jaw 15 Ton	17.3031		
Hold Jaw 15 Ton	17.3032		
Pull Jaw 30 Ton	17.3030		
Hold Jaw 30 Ton	17.3032		
Mandrel Options			
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 / 3/4" OD			
Collar	17.0750	ID Size Range	
Pull Jaw 15 Ton	17.3041		
Hold Jaw 15 Ton	17.3042		
Pull Jaw 30 Ton	17.3040		
Hold Jaw 30 Ton	17.3042		
Mandrel Options			
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	
Pull Jaw 15 Ton	17.3046		
Hold Jaw 15 Ton	17.3047		
Pull Jaw 30 Ton	17.3045		
Hold Jaw 30 Ton	17.3047		
Mandrel Options			
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

Tube Pulling Consumables Suitable for the 15 & 30 Ton Ram

Consumables to Suit 25.4mm / 1" OD			
Collar	17.1000	ID Size Range	
Pull Jaw 15 Ton	17.3051		
Hold Jaw 15 Ton	17.3052		
Pull Jaw 30 Ton	17.3050		
Hold Jaw 30 Ton	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	
Pull Jaw	17.3060		
Hold 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
Consumables to Suit 31.75mm / 1 1/4" OD			
Collar	17.1250	ID Size Range	
Pull Jaw	17.3070		
Hold 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
Consumables to Suit 38.1 / 1 1/2" OD			
Collar	17.1500	ID Size Range	
Pull Jaw	17.3090		
Hold Jaw	17.3092		
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

Tube Pulling Consumables Suitable for the 45 Ton Ram

Consumables to Suit 38.10mm / 1 ½" OD			
Collar	17.3212	ID Size Range	
Pull Jaw	17.3210		
Hold 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	
Pull Jaw	17.3215		
Hold 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	
Pull Jaw	17.3220		
Hold Jaw	17.3221		
Mandrel Options		From	To
To Suit 10 – 12 g	17.6090	44.10 mm	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
Consumables to Suit 57.15mm / 2 ¼" OD			
Collar	17.3232	ID Size Range	
Pull Jaw	17.3230		
Hold Jaw	17.3231		
Mandrel Options		From	To
To Suit 10 – 12 g	17.7000	50.38 mm	52.48 mm
To Suit 13 – 16 g	17.7001	52.38 mm	54.48 mm
To Suit 18 – 24 g	17.7002	54.38 mm	56.58 mm
Consumables to Suit 63.5mm / 2 ½" OD			
Collar	17.3242	ID Size Range	
Pull Jaw	17.3240		
Hold Jaw	17.3241		
Mandrel Options		From	To
To Suit 10 – 12 g	17.7010	56.73 mm	58.83 mm
To Suit 13 – 16 g	17.7011	58.73 mm	60.83 mm
To Suit 18 – 24 g	17.7012	60.73 mm	62.93 mm