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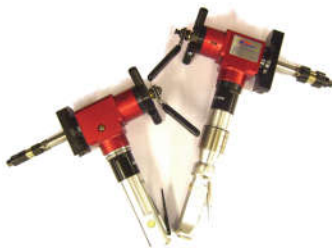
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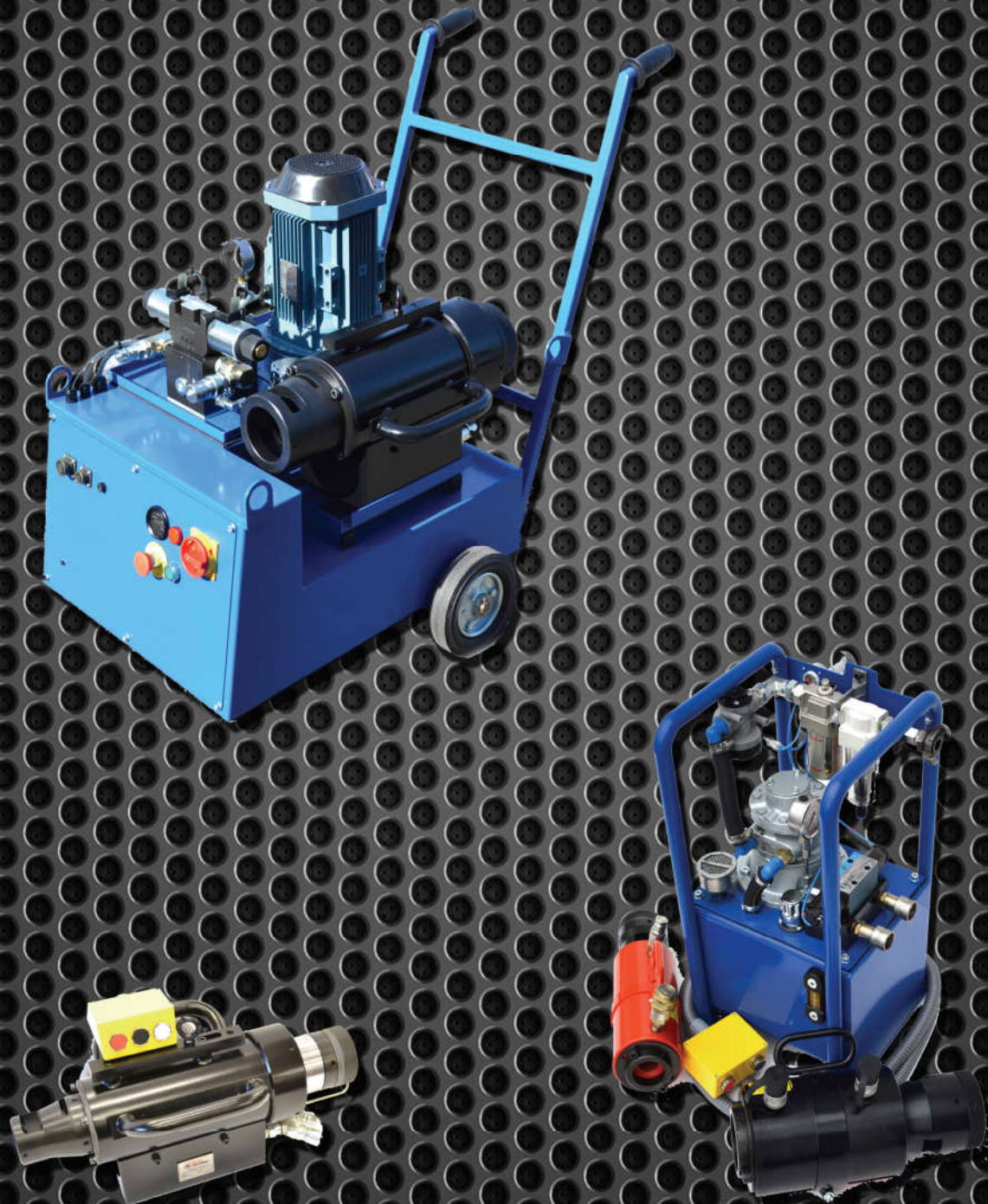
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This image shows a full page of blank handwriting practice paper. It features approximately 28 evenly spaced horizontal red lines across the entire page, providing a guide for letter height and placement. The background is plain white, and there are no margins, text, or other markings present.

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Tube Pulling & Removal





JAVELIN

TUBE PULLING MACHINE

■ TUBE EXTRACTION RANGE:

30 TON:

12.5mm – 32mm (1/2" – 1 1/4") OD.

60 TON:

38mm – 51mm (1 1/2" – 2") OD.

STUB PULLING:

16mm – 38mm (5/8" – 1 1/2") OD.

■ POWER OPTIONS:

PNEUMATIC:

6 Bar 90 cfm

ELECTRIC:

110 V OR 240 V SINGLE PHASE



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.



JAVELIN

SPECIFICATION

30 TON PULLING GUN

Min Tube Size OD	12.5mm (1/2")
Max Tube Size OD	32mm (1 1/4")
Max Pull Force	30T (300kN)
Weight	26 Kg (57lbs)
Pulling Stroke	125mm (5")

60 TON PULLING GUN

Min Tube Size OD	38mm (1 1/2")
Max Tube Size OD	51mm (2")
Max Pull Force	60T (600kN)
Weight	31 Kg (68lbs)
Pulling Stroke	102mm (4")

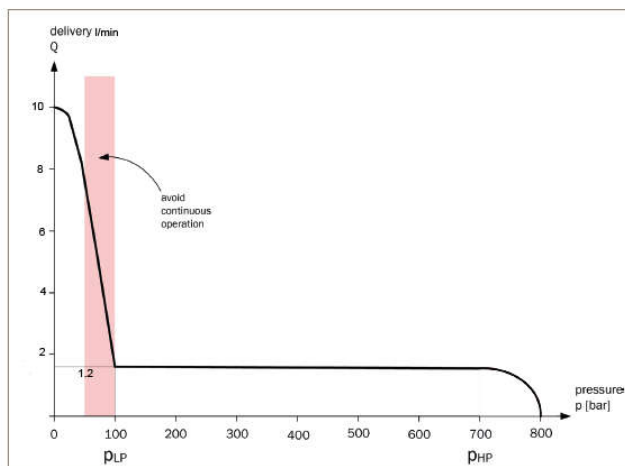
STUB PULLING GUN

Min Tube Size OD	16mm (5/8")
Max Tube Size OD	38mm (1 1/2")
Max Pull Force	15T (150kN)
Weight	13.5 Kg (30lbs)
Pulling Stroke	160mm (6")

POWERPACK

DIMENSIONS	320 X 350 X 660mm
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PRESSURE/FLOW



THE 30 TON PULLING GUN



THE 60 TON PULLING GUN

THE STUB PULLING GUN



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JAVELIN

Tube Pulling Consumables Suitable for the 30 Ton Gun

Consumables to Suit 12.70mm / 1/2" 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 / 3/4" 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



JAVELIN

Tube Pulling Consumables Suitable for the 30 Ton Gun Continued

Consumables to Suit 31.75mm / 1 1/4" OD			
Collar Jaw	17.1250 17.3072	ID Size Range	
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

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JAVELIN

Tube Pulling Consumables Suitable for the 60 Ton Gun

Consumables to Suit 38.10mm / 1 1/2" 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 3/4" 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



JAVELIN

Tube Pulling Consumables Suitable for the Stub Pulling Gun

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

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TRIDENT

TUBE PULLING MACHINE

■ TUBE EXTRACTION RANGE:

15 TON:

12.5mm – 25mm (1/2" – 1") OD.

30 TON:

12.5mm – 38mm (1/2" – 1 1/2") OD.

45 TON:

38mm – 76mm (1 1/2" – 3") OD.

■ POWER OPTIONS:

ELECTRIC:

380 – 415V 3 PHASE

PNEUMATIC:

6.5hp

PNEUMATIC ELECTRIC:

6.5hp with 24V Controls



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. (1/2") and 76mm OD. (3")** at up to 5 m/Min*, a choice of 15, 30 & 45 Ton pulling gun 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 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 Gun ** Achieved with the 45Ton Pulling Gun

SPECIFICATION

15 TON PULLING GUN

Min Tube Size OD	12.5mm (1/2")
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 GUN

Min Tube Size OD	12.5mm (1/2")
Max Tube Size OD	38mm (1 1/2")
Free Pull Speed	3 M/Min
Max Pull Force	30,000 Kg
Weight	52 Kg (114lbs)
Pulling Stroke	150mm (6")

45 TON PULLING GUN

Min Tube Size OD	38mm (1 1/2")
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")

POWERPACK OPTIONS

DIMENSIONS	980 X 740 X 1150mm
OPERATING PRESSURE	
HIGH SPEED	1350 PSI @ 28 l/min
HIGH PRESSURE	4500 PSI @ 8 l/min

ELECTRIC

POWER	4 Kw	5.5hp
VOLTAGE	380-415 Volt	3 PHASE
OPERATING SPEED	1500 RPM	

PNEUMATIC

POWER	5.5 Kw	7.0hp
AIR REQUIREMENTS	3400 l/min	120 cfm
	6 bar	90 Psi



THE 30 TON PULLING GUN



THE 45 TON PULLING GUN

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TRIDENT

Tube Pulling Consumables Suitable for the 15 & 30 Ton Gun Options

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		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	
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		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 / 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		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	
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		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

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R3



TRIDENT

Tube Pulling Consumables Suitable for the 15 & 30 Ton Gun Options Continued

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



TRIDENT

Tube Pulling Consumables Suitable for the 45Ton Gun

Consumables to Suit 38.10mm / 1 1/2" 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 3/4" 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 1/4" 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 1/2" 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



TUBE CUTTERS

PUSH CUTTERS



- The Push Type Cutter can be driven with a Pneumatic or Electric drill motor.
- The tool uses spring-loaded cutters, which are adjustable for depth and cut when pressure is applied during use.
- Two cutter tips as standard on tube sizes from 1".
- The tool has a 6" cutting reach as standard (other lengths available on request).
- Tools listed are 'universal' tools and cover a range of thicknesses with interchangeable pilots.
- Solid body tools, covering a specific tube size, are also available from size 3/8" up (please enquire)

TUBE SIZE (OD.)			PART NUMBER	
mm	INCH	PILOT RANGE	COMPLETE TOOL	CUTTER BIT
15.8	5/8"	16-22g	42.PC-158	42.PCB25186
19.0	3/4"	14-22g	42.PC-190	42.PCB25186
22.2	7.8"	11-22g	42.PC-222	42.PCB25194
25.4	1"	11-13g	42.PC-222	42.PCB25194

Twin Blade Cutters ▼

25.4	1"	14-22g	42.PC-254	42.PCB25199
31.7	1 1/4"	14-22g	42.PC-317	42.PCB25206
38.1	1 1/2"	10-20g	42.PC-381	42.PCB25206
50.8	2"	6-16g	42.PC-508	42.PCB25221
63.5	2 1/2"	8-12g	42.PC-635	42.PCB25223

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TUBE CUTTERS

ONE REVOLUTION CUTTERS



- The One Revolution type cutter is suitable for cutting steel and non-ferrous tubes used in condensers, heat exchangers and boilers.
- The tool is adjustable to tube sheet thickness from 2" to 6" (50.8mm – 152.4mm), extended tools are available on request.
- The tool is designed for hand operation using either a ratchet or hand wrench it is not suitable for use with a power tool.
- The tool operates by turning the tool clockwise, this brings the cutter tip into contact with the inside of the tube, the tip punctures the tube and locks in position to cut through the tube as it turns.

Tube OD.		Tube Gauge	Tube ID Range	Tool Diameter	Tool Number	Cutter Bit
12.7 mm	1/2"	18 - 19 g	10.2-10.7 mm	10.0 mm	ORTC – 100	N – 625 – 1
12.7 mm	1/2"	20 g	11-11.3 mm	10.5 mm	ORTC – 108	N – 625 – 4
15.8 mm	5/8"	14 g	11.4-11.9 mm	11.2 mm	ORTC – 113	N – 625 – 3
15.8 mm	5/8"	15 - 16 g	12-12.9 mm	11.7 mm	ORTC – 119	N – 625 – 3
15.8 mm	5/8"	17 - 18 g	12.7 - 13.5 mm	12.3 mm	ORTC – 123	N – 625 – 2
15.8 mm	5/8"	19 - 20 g	13.5 – 14.2 mm	13.1 mm	ORTC – 131	N – 625 – 2
15.8 mm	5/8"	22 g	14 – 14.7 mm	13.6 mm	ORTC - 139	N – 750 - 2
19 mm	3/4"	14 - 15 g	14.7 – 15.5 mm	14.3 mm	ORTC – 145	N – 750 – 2
19 mm	3/4"	16 g	15.2 – 16.5 mm	14.8 mm	ORTC – 151	N – 750 – 2
19 mm	3/4"	17 - 18 g	15.9 – 16.5 mm	15.3 mm	ORTC – 153	N – 750 – 2
19 mm	3/4"	19 - 20 g	16.7 – 17.5 mm	16.3 mm	ORTC – 163	N – 1000 – 1
22.2 mm	7/8"	14 - 15 g	17.8 – 18.5 mm	17.4 mm	ORTC – 174	N – 1000 – 1
22.2 mm	7/8"	16 - 17 g	18.8 – 19.5 mm	18.4 mm	ORTC – 184	N – 1000 – 1
22.2 mm	7/8"	18 g	19.3 – 20 mm	19.0 mm	ORTC – 190	N – 1000 – 1
22.2 mm	7/8"	19 - 20 g	19.8 – 20.6 mm	19.3 mm	ORTC – 193	N – 1000 – 2
25.4 mm	1"	12 g	19.8 – 20.6 mm	19.3 mm	ORTC – 193	N – 1000 – 2
25.4 mm	1"	13 g	20.8 – 21.6 mm	20.5 mm	ORTC – 205	N – 1000 – 2
25.4 mm	1"	14 g	21.3 – 22.1 mm	21.0 mm	ORTC – 210	N – 1000 – 2
25.4 mm	1"	16 - 17 g	21.8 – 22.6 mm	21.5 mm	ORTC – 215	N – 1000 – 2
25.4 mm	1"	18 - 20 g	22.6 – 23.1 mm	22.3 mm	ORTC – 223	N – 1000 – 2
25.4 mm	1"	22 g	23.9 – 24.6 mm	23.2 mm	ORTC – 232	N – 1000 – 2



TUBE CUTTERS

Tube OD.		Tube Gauge	Tube ID Cover	Tool Diameter	Tool Number	Cutter Bit
31.75 mm	1 1/4"	10 - 11 g	24.9 – 25.6 mm	24.5 mm	ORTC – 245	N – 1000 – 2
31.75 mm	1 1/4"	12 g	25.9 – 26.7 mm	25.5 mm	ORTC – 255	N – 1000 – 2
31.75 mm	1 1/4"	13 - 14 g	26.7 – 27.4 mm	26.4 mm	ORTC – 264	N – 1000 – 2
31.75 mm	1 1/4"	15 - 16 g	27.9 – 28.7 mm	27.5 mm	ORTC – 274	N – 1000 – 2
31.75 mm	1 1/4"	17 - 19 g	28.7 – 29.6 mm	28.3 mm	ORTC – 283	N – 1000 – 2
38.1 mm	1 1/2"	10 – 11 g	31.3 – 32.1 mm	30.9 mm	ORTC – 309	N – 1500 – 1
38.1 mm	1 1/2"	12 - 13 g	32.5 – 33.3 mm	32 mm	ORTC – 320	N – 1500 – 1
38.1 mm	1 1/2"	14 - 15 g	33.8 – 34.5 mm	33.3 mm	ORTC – 333	N – 1500 – 1
38.1 mm	1 1/2"	16 - 17 g	34.5 – 35.3 mm	34 mm	ORTC – 339	N – 1500 – 1
38.1 mm	1 1/2"	18 - 19 g	35.3 – 36.1 mm	34.9 mm	ORTC – 350	N – 1500 – 1
44.45 mm	1 3/4"	10 - 11 g	37 – 38.5 mm	36.9 mm	ORTC – 369	N – 1500 – 1
44.45 mm	1 3/4"	12 - 14 g	38.8 – 40.3 mm	38.3 mm	ORTC – 383	N – 1500 – 1
44.45 mm	1 3/4"	15 - 16 g	40.8 – 41.2 mm	40.3 mm	ORTC – 403	N – 1500 – 1
44.45 mm	1 3/4"	17 - 18 g	41.3 – 42 mm	41 mm	ORTC – 410	N – 1500 – 1
50.8 mm	2"	10 g	44 mm	43.5 mm	ORTC – 435	N – 1500 – 1
50.8 mm	2"	11 g	51 mm	44.2 mm	ORTC – 442	N – 1500 – 1
50.8 mm	2"	12 – 13 g	45 – 46 mm	44.7 mm	ORTC – 447	N – 1500 – 1
50.8 mm	2"	14 - 15 g	46.2 – 48.2 mm	45.7 mm	ORTC – 457	N – 1500 – 1
50.8 mm	2"	16 – 17 g	47.2 – 48.2 mm	46.8 mm	ORTC – 468	N – 1500 – 1
50.8 mm	2"	18 – 19 g	48 – 49 mm	47.6 mm	ORTC – 476	N – 1500 – 1
57.15 mm	2 1/4"	10 g	50.3 mm	49.7 mm	ORTC – 497	N – 2250 – 1
57.15 mm	2 1/4"	11 g	51 mm	50.5 mm	ORTC – 505	N – 2250 – 1
57.15 mm	2 1/4"	12 - 13 g	51.6 – 52.3 mm	51.1 mm	ORTC – 511	N – 2250 – 1
57.15 mm	2 1/4"	14 - 15 g	52.9 – 53.5 mm	52.4 mm	ORTC – 524	N – 2250 – 1
57.15 mm	2 1/4"	16 - 17 g	53.8 – 54.8 mm	53.3 mm	ORTC – 533	N – 2250 – 1
57.15 mm	2 1/4"	18 - 19 g	54.6 – 55.6 mm	54.1 mm	ORTC – 541	N – 2250 – 1
63.5 mm	2 1/2"	10 g	56.7 mm	56.2 mm	ORTC – 562	N – 2250 – 1
63.5 mm	2 1/2"	11 g	57.4 mm	56.9 mm	ORTC – 569	N – 2250 – 1
63.5 mm	2 1/2"	12 - 13 g	57.6 – 58.6 mm	57.2 mm	ORTC – 572	N – 2250 – 1
63.5 mm	2 1/2"	14 - 15 g	58.9 – 60 mm	58.5 mm	ORTC – 585	N – 2250 – 1
63.5 mm	2 1/2"	16 - 17 g	60 - 61	58.6 mm	ORTC – 588	N – 2250 – 1
63.5 mm	2 1/2"	18 - 19 g	60.7 – 61.7 mm	60.2 mm	ORTC – 602	N – 2250 – 1

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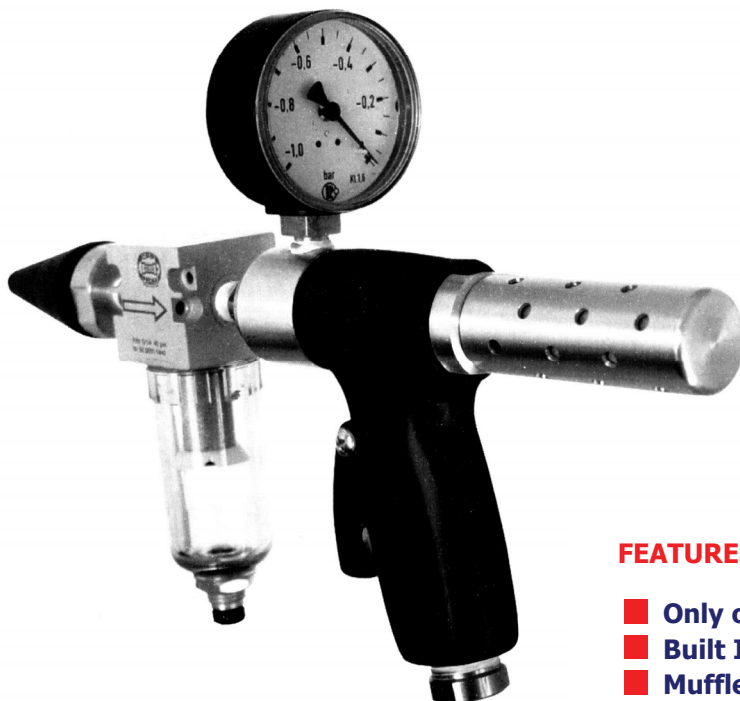


LEAK TESTING

KVLD-3000 VACUUM LEAK TESTING GUN

The Vacuum Leak Tester KVLD-3000 is a simple precise method of testing tubes in Boilers, Condensers, and Heat Exchangers. It is the fastest most accurate means of location leaky tubes.

Powered by compressed air the Vacuum Leak Detector pulls a vacuum in a tube to a desired reading on the gauge. A steady reading would indicate that the tube is sound, if the reading on the gauge drops the tube has a leak.

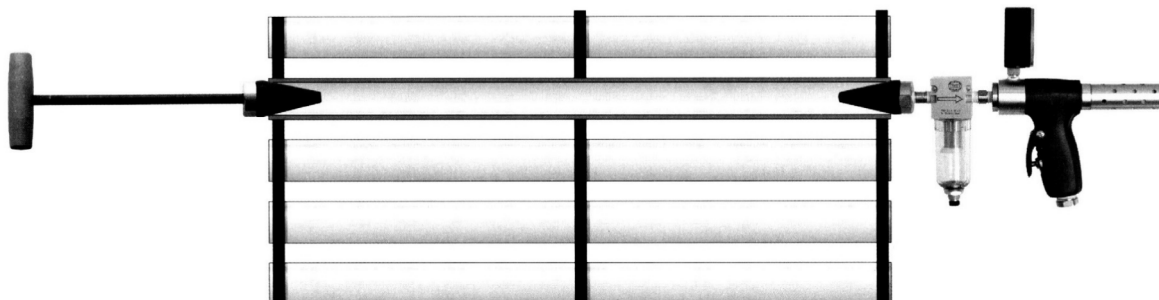


FEATURES

- Only one tool necessary for multiple tube sizes.
- Built In easy to read vacuum gauge.
- Muffled exhaust for quiet operation.
- Lightweight, easy to use.



LEAK TESTING



OPERATING INSTRUCTIONS

1. Seal far end of tube to be tested with "T" handle type tube plug.
2. Place nozzle of tester into near end of tube.
3. Squeeze trigger of test unit until gauge reaches desired reading.
4. Release trigger and observe gauge
5. A steady reading indicates no leaks
6. Move to next tube and repeat



SPECIFICATIONS

- Cover wide range of tubes with one unit 6.3 (1/4") to 76.2 mm (3").
- Air Pressure: 6.2 bar (90 PSI).
- Air Consumption: 720l/min (26CFM).
- Case Dimensions: 410 x 300 x 85mm.
- Unit weight: 1.2Kg (4.4lbs).
- Approx shipping wt: 3 kg (6.6lbs).

NOZZLES AVAILABLE

PART NUMBER	TUBE OD SIZE
K-1002	1/4" (6,3 mm) - 3/4" (19 mm)
K-1003	5/8" (15,9 mm) - 1 1/4" (31,7 mm)
K-1004	1 1/8" (28,6 mm) - 2" (50,8 mm)
K-1005	1 7/8" (47,6 mm) - 3" (76,2 mm)

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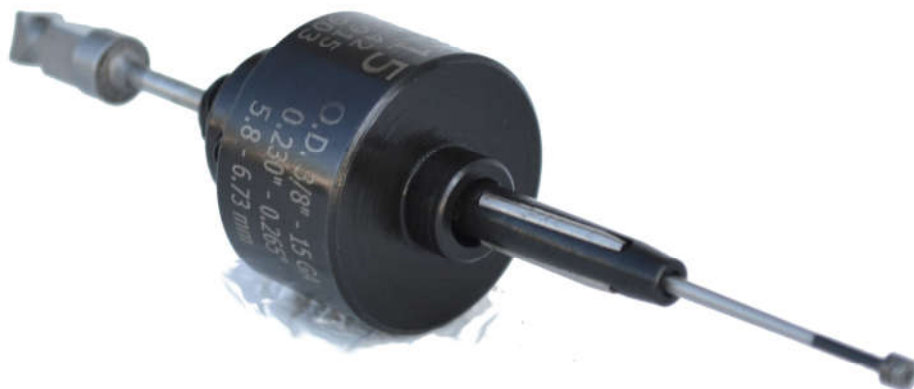
Tube Expanders & Drives





TUBE EXPANDERS

900 SERIES



- Range covers tube sizes from 6.35mm (1/4") OD. Up to 9.53mm (3/8") OD.
- Available with 19mm (3/4") or 32mm (1 1/4") Roll lengths for tube sheet thickness from 3.18mm (1/8") to 29mm (1.14")

TUBE OD. & BWG.		EXPANSION RANGE (ID)				19mm ¾" ROLLS		32mm 1 ¼" ROLLS		MANDREL 6.35mm (¼") Square Drive	
		Min	mm	Max	Min	Inch	Max	Expander	Roll Set		Expander
¼"	6.35mm	18	3.84	4.39	0.151	0.173	TR-921	TRR-921	-	-	TRM-39
		19	4.19	4.70	0.165	0.185	TR-922	TRR-923	-	-	TRM-39
		20	4.45	5.08	0.175	0.200	TR-923	TRR-923	-	-	TRM-40
		21	4.57	5.26	0.180	0.207	TR-924	TRR-924	-	-	TRM-40
		22	4.83	5.49	0.190	0.216	TR-925	TRR-925	-	-	TRM-41
		23	4.95	5.65	0.195	0.222	TR-926	TRR-923	-	-	TRM-41
		24	5.11	5.84	0.201	0.230	TR-927	TRR-924	-	-	TRM-41
3/8"	9.53mm	14	5.10	5.80	0.201	0.232	TR-927	TRR-924	-	-	TRM-41
		15	5.84	6.73	0.230	0.265	TR-915	TRR-903	-	-	TRM-42
		16	6.10	6.99	0.240	0.275	TR-916	TRR-916	TR-916L	TRR-916L	TRM-36
		17	6.48	7.34	0.255	0.289	TR-918	TRR-903	TR-920	TR-904	TRM-38
		18	6.91	7.80	0.272	0.307	TR-901	TRR-903	TR-902	TRR-904	TRM-30
		19	7.26	8.13	0.286	0.320	TR-903	TRR-903	TR-904	TRR-904	TRM-31
		20	7.62	8.48	0.300	0.334	TR-905	TRR-907	TR-906	TRR-908	TRM-32
		21	7.77	8.64	0.306	0.340	TR-907	TRR-907	TR-908	TRR-908	TRM-33
		22	7.98	8.86	0.314	0.349	TR-909	TRR-909	TR-910	TRR-910	TRM-34
		23	8.13	9.07	0.320	0.357	TR-911	TRR-911	TR-912	TRR-912	TRM-34
		24	8.13	9.07	0.320	0.357	TR-911	TRR-911	TR-912	TRR-912	TRM-34



TUBE EXPANDERS

1300 SERIES



- Designed for use on 9.53mm (3/8") OD Tubes
- Available with 19mm (3/4") or 32mm (1 1/4") Roll lengths for tube sheet thickness from 3.18mm (1/8") to 84.9mm (3.35")

TUBE OD. & BWG.	EXPANSION RANGE (ID)					19mm 3/4" ROLLS		32mm 1 1/4" ROLLS		MANDREL 6.35mm (1/4") Square Drive
	Min	mm Max	Min	Inch Max		Expander	Roll Set	Expander	Roll set	
3/8" 9.53mm	15	5.84	6.73	0.230	0.265	TR-1315	TRR-1315	TR-1316	TRR-1316	TRM-86
	16	6.10	6.99	0.240	0.275	TR-1319	TRR-1315	TR-1319L	TRR1319L	TRM-86
	17	6.48	7.34	0.259	0.255	TR-1317	TRR-903	TR-1318	TRR-904	TRM-88
	18	6.91	7.80	0.272	0.307	TR-1301	TRR-903	TR-1302	TRR-904	TRM-80
	19	7.26	8.13	0.286	0.320	TR-1303	TRR-903	TR-1304	TRR-904	TRM-81
	20	7.62	8.48	0.300	0.334	TR-1305	TRR-907	TR-1306	TRR-908	TRM-82
	21	7.77	8.64	0.306	0.340	TR-1307	TRR-907	TR-1308	TRR-908	TRM-83
	22	7.98	8.86	0.314	0.349	TR-1309	TRR-909	TR-1310	TRR-910	TRM-84
	23	8.13	9.07	0.320	0.357	TR-1311	TRR-911	TR-1312	TRR-912	TRM-84
	24	8.13	9.07	0.320	0.357	TR-1311	TRR-911	TR-1312	TRR-912	TRM-84

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TUBE EXPANDERS

800 SERIES



- Range covers tube sizes from 12.7mm (1/2") OD. Up to 38.1mm (1 1/2") OD.
- Available with 38.1mm (1 1/2") or 57.1mm (2 1/4") Roll lengths for tube sheet thickness from 12.7mm (1/2") to 57.1mm (2 1/4").
- Each expander features a reversible collar, flush one side, recessed by 3.2mm (1/8") on the reverse side.
- Totally interchangeable with Airetool, Wicksteed and Teco 800 expanders. 5 roll expanders also available.

TUBE OD. & BWG.		EXPANSION RANGE (ID)				38.1 mm 1 1/2" ROLLS		57.1mm 2 1/4" ROLLS		MANDREL 9.5mm (3/8") Square Drive
		Min	mm Max	Min	Inch Max	Expander	Roll Set	Expander	Roll set	
1/2" 12.7mm	14	8.23	9.50	.324	.374	TR-797	TRR-797	-	-	TRM-797
	15	8.86	10.11	.349	.398	TR-799	TRR-1	-	-	TRM-799
	16	9.14	10.41	.360	.410	TR-801	TRR-1	-	-	TRM-1
	17	9.50	10.77	.374	.424	TR-803	TRR-2	-	-	TRM-1
	18	9.96	11.35	.392	.447	TR-805	TRR-3	-	-	TRM-2
5/8" 15.88mm	12	9.96	11.35	.392	.447	TR-805	TRR-3	-	-	TRM-2
	13	10.79	12.19	.425	.480	TR-807	TRR-4	-	-	TRM-3
	14	11.40	12.73	.499	.509	TR-809	TRR-4	TR-810	TRR-4-A	TRM-4
	15	11.96	13.61	.471	.536	TR-811	TRR-5	TR-812	TRR-5-A	TRM-5
	16	12.32	13.97	.485	.550	TR-813	TRR-6	TR-814	TRR-6-A	TRM-5
	17	12.67	14.32	.499	.564	TR-815	TRR-6	TR-816	TRR-6-A	TRM-6
	18	13.13	14.53	.517	.572	TR-817	TRR-7	TR-818	TRR-7-A	TRM-7
3/4" 19.05mm	10	11.96	13.61	.471	.536	TR-811	TRR-5	TR-812	TRR-5-A	TRM-5
	11	12.67	14.32	.499	.564	TR-815	TRR-6	TR-816	TRR-6-A	TRM-6
	12	13.26	14.78	.522	.582	TR-819	TRR-7	TR-820	TRR-7-A	TRM-6
	13	13.97	15.62	.550	.615	TR-821	TRR-8	TR-822	TRR-8-A	TRM-8
	14	14.58	16.23	.574	.639	TR-823	TRR-9	TR-824	TRR-9-A	TRM-8
	15	15.14	16.79	.596	.661	TR-825	TRR-10	TR-826	TRR-10-A	TRM-8
	16	15.37	17.40	.605	.685	TR-827	TRR-10	TR-828	TRR-10-A	TRM-9
	17	15.72	17.75	.619	.699	TR-829	TRR-11	TR-830	TRR-11-A	TRM-9
	18	15.72	17.75	.619	.699	TR-829	TRR-11	TR-830	TRR-11-A	TRM-9
7/8" 22.23mm	10	15.14	16.79	.596	.661	TR-825	TRR-10	TR-826	TRR-10-A	TRM-8
	11	15.72	17.75	.619	.699	TR-829	TRR-11	TR-830	TRR-11-A	TRM-9
	12	16.31	18.34	.642	.722	TR-831	TRR-12	TR-832	TRR-12-A	TRM-9
	13	17.02	19.05	.670	.750	TR-833	TRR-13	TR-834	TRR-13-A	TRM-10
	14	17.40	19.66	.685	.774	TR-835	TRR-14	TR-836	TRR-14-A	TRM-11
	15	18.08	20.34	.712	.801	TR-837	TRR-15	TR-838	TRR-15-A	TRM-11
	16	18.44	20.70	.726	.815	TR-839	TRR-15	TR-840	TRR-15-A	TRM-12
	17	18.80	21.06	.740	.829	TR-843	TRR-16	TR-844	TRR-16-A	TRM-12
	18	18.80	21.06	.740	.829	TR-843	TRR-16	TR-844	TRR-16-A	TRM-12
1" 25.4mm	08	16.64	18.67	.655	.735	TR-841	TRR-13	TR-842	TRR-13-A	TRM-9
	09	17.40	19.66	.685	.774	TR-835	TRR-14	TR-836	TRR-14-A	TRM-11
	10	18.08	20.34	.712	.801	TR-837	TRR-15	TR-838	TRR-15-A	TRM-11
	11	18.80	21.06	.740	.829	TR-843	TRR-16	TR-844	TRR-16-A	TRM-12
	12	19.38	21.64	.763	.852	TR-845	TRR-17	TR-846	TRR-17-A	TRM-12
	13	20.09	22.35	.791	.880	TR-847	TRR-18	TR-848	TRR-18-A	TRM-12
	14	20.57	23.09	.810	.909	TR-849	TRR-18	TR-850	TRR-18-A	TRM-13
	15	21.26	23.77	.837	.936	TR-851	TRR-19	TR-852	TRR-19-A	TRM-13
	16	21.26	23.77	.837	.936	TR-851	TRR-19	TR-852	TRR-19-A	TRM-13
	17	21.97	24.48	.865	.964	TR-855	TRR-21	TR-856	TRR-21-A	TRM-13
	18-20	21.97	24.48	.865	.964	TR-855	TRR-21	TR-856	TRR-21-A	TRM-13



TUBE EXPANDERS

800 SERIES

TUBE OD. & BWG.	EXPANSION RANGE (ID)				38.1 mm 1 ½" ROLLS		57.1mm 2 ¼" ROLLS		MANDREL 9.5mm (3/8") Square Drive	
	Min	mm Max	Min	Inch Max	Expander	Roll Set	Expander	Roll set		
1 1/8" 28.58mm	08	19.71	22.22	.766	.875	TR-853	TRR-20	TR-854	TRR-20-A	TRM-13
	09	20.57	23.09	.810	.909	TR-849	TRR-18	TR-850	TRR-18-A	TRM-13
	10	21.26	23.77	.837	.936	TR-851	TRR-19	TR-852	TRR-19-A	TRM-13
	11	21.97	24.48	.865	.964	TR-855	TRR-21	TR-856	TRR-21-A	TRM-13
	12	22.43	24.94	.883	.982	TR-857	TRR-21	TR-858	TRR-21-A	TRM-14
	13	23.27	25.78	.916	1.015	TR-859	TRR-22	TR-860	TRR-22-A	TRM-14
	Expanders from this size onward use a 12.7mm (½") Square Drive.									MANDREL 12.7mm (½") Square Drive
	14	23.75	26.52	.835	1.044	TR-861	TRR-23	TR-862	TRR-23-A	TRM-15
	15	24.43	27.20	.962	1.071	TR-863	TRR-24	TR-864	TRR-24-A	TRM-15
	16	24.43	27.20	.962	1.071	TR-863	TRR-24	TR-864	TRR-24-A	TRM-15
1 1/4" 31.75mm	17	25.15	27.91	.990	1.099	TR-867	TRR-26	TR-868	TRR-26-A	TRM-16
	18	25.15	27.91	.990	1.099	TR-867	TRR-26	TR-868	TRR-26-A	TRM-16
	08	22.88	26.65	.901	1.010	TR-865	TRR-25	TR-866	TRR-25-A	TRM-15
	09	23.75	26.52	.935	1.044	TR-861	TRR-23	TR-862	TRR-23-A	TRM-15
	10	24.43	27.20	.962	1.071	TR-863	TRR-24	TR-864	TRR-24-A	TRM-15
	11	25.15	27.91	.990	1.099	TR-867	TRR-26	TR-868	TRR-26-A	TRM-16
	12	25.73	28.50	1.013	1.122	TR-869	TRR-27	TR-870	TRR-27-A	TRM-16
	13	26.44	29.21	1.041	1.150	TR-871	TRR-28	TR-872	TRR-28-A	TRM-17
	14	26.92	29.69	1.060	1.169	TR-873	TRR-29	TR-874	TRR-29-A	TRM-17
	15	27.61	30.38	1.087	1.196	TR-875	TRR-30	TR-876	TRR-30-A	TRM-17
1 3/8" 34.90mm	16	27.61	30.38	1.087	1.196	TR-875	TRR-30	TR-876	TRR-30-A	TRM-17
	17	28.32	31.09	1.115	1.224	TR-879	TRR-30	TR-880	TRR-30-A	TRM-18
	18	28.32	31.09	1.115	1.224	TR-879	TRR-30	TR-880	TRR-30-A	TRM-18
	08	26.06	28.83	1.026	1.135	TR-877	TRR-31	TR-878	TRR-31-A	TRM-17
	09	26.92	29.69	1.060	1.169	TR-873	TRR-29	TR-874	TRR-29-A	TRM-17
	10	27.61	30.38	1.087	1.196	TR-875	TRR-30	TR-876	TRR-30-A	TRM-17
	11	28.32	31.09	1.115	1.224	TR-879	TRR-30	TR-880	TRR-30-A	TRM-18
	12	28.78	31.55	1.133	1.242	TR-881	TRR-32	TR-882	TRR-32-A	TRM-18
	13	29.46	32.38	1.160	1.275	TR-883	TRR-33	TR-884	TRR-33-A	TRM-19
	14	29.95	32.87	1.179	1.294	TR-885	TRR-34	TR-886	TRR-34-A	TRM-20
1 1/2" 38.10mm	15	30.63	33.55	1.206	1.321	TR-887	TRR-35	TR-888	TRR-35-A	TRM-20
	16	30.63	33.55	1.206	1.321	TR-887	TRR-35	TR-888	TRR-35-A	TRM-20
	08	29.08	32.00	1.145	1.260	TR-889	TRR-34	TR-890	TRR-34-A	TRM-19
	09	29.95	32.87	1.179	1.294	TR-885	TRR-34	TR-886	TRR-34-A	TRM-20
	10	30.63	33.55	1.206	1.321	TR-887	TRR-35	TR-888	TRR-35-A	TRM-20
	11	31.37	34.29	1.235	1.350	TR-891	TRR-36	TR-892	TRR-36-A	TRM-20
	12	31.93	34.85	1.257	1.372	TR-893	TRR-37	TR-894	TRR-37-A	TRM-20
	13	32.64	35.56	1.285	1.400	TR-895	TRR-37	TR-896	TRR-37-A	TRM-21
	14	32.64	35.56	1.285	1.400	TR-895	TRR-37	TR-896	TRR-37-A	TRM-21
	15	33.81	36.73	1.331	1.446	TR-897	TRR-38	TR-898	TRR-38-A	TRM-21

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TUBE EXPANDERS

1200 SERIES



- Range covers tube sizes from 12.7mm (1/2") OD. Up to 38.1mm (1 1/2") OD.
- Available with 38.1mm (1 1/2") or 57.1mm (2 1/4") Roll lengths for tube sheet thickness from 12.7mm (1/2") to 152.4mm (6") Extended reach expanders are available up to 304.8mm (12").
- Each expander features a reversible collar, flush one side, recessed by 3.2mm (1/8") on the reverse side.
- Totally interchangeable with Airetool, Wicksteed and Teco 1200 expanders. 5 roll expanders also available.

TUBE OD. & BWG.	EXPANSION RANGE					38.1 mm 1 1/2" ROLLS		57.1mm 2 1/4" ROLLS		MANDREL 9.5mm (3/8") Square Drive
	Min ID	mm Max Expansion	Min ID	Inch Max Expansion	Expander	Roll Set	Expander	Roll set		
1/2" 12.7mm	14	8.23	9.50	.324	.374	TR-1197	TRR-797	-	-	TRM-1197
	15	8.86	10.11	.349	.398	TR-1199	TRR-1	-	-	TRM-1199
	16	9.14	10.41	.360	.410	TR-1201	TRR-1	-	-	TRM-51
	17	9.50	10.77	.374	.424	TR-1203	TRR-2	-	-	TRM-51
	18	9.96	11.35	.392	.447	TR-1205	TRR-3	-	-	TRM-52
5/8" 15.88mm	12	9.96	11.35	.392	.447	TR-1205	TRR-3	-	-	TRM-52
	13	10.79	12.19	.425	.480	TR-1207	TRR-4	-	-	TRM-53
	14	11.40	12.73	.499	.509	TR-1209	TRR-4	TR-1210	TRR-4-A	TRM-54
	15	11.96	13.61	.471	.536	TR-1211	TRR-5	TR-1212	TRR-5-A	TRM-55
	16	12.32	13.97	.485	.550	TR-1213	TRR-6	TR-1214	TRR-6-A	TRM-55
	17	12.67	14.32	.499	.564	TR-1215	TRR-6	TR-1216	TRR-6-A	TRM-56
	18	13.13	14.53	.517	.572	TR-1217	TRR-7	TR-1218	TRR-7-A	TRM-57
3/4" 19.05mm	10	11.96	13.61	.471	.536	TR-1211	TRR-5	TR-1212	TRR-5-A	TRM-55
	11	12.67	14.32	.499	.564	TR-1215	TRR-6	TR-1216	TRR-6-A	TRM-56
	12	13.26	14.78	.522	.582	TR-1219	TRR-7	TR-1220	TRR-7-A	TRM-56
	13	13.97	15.62	.550	.615	TR-1221	TRR-8	TR-1222	TRR-8-A	TRM-58
	14	14.58	16.23	.574	.639	TR-1223	TRR-9	TR-1224	TRR-9-A	TRM-58
	15	15.14	16.79	.596	.661	TR-1225	TRR-10	TR-1226	TRR-10-A	TRM-58
	16	15.37	17.40	.605	.685	TR-1227	TRR-10	TR-1228	TRR-10-A	TRM-59
	17	15.72	17.75	.619	.699	TR-1229	TRR-11	TR-1230	TRR-11-A	TRM-59
	18	15.72	17.75	.619	.699	TR-1229	TRR-11	TR-1230	TRR-11-A	TRM-59
7/8" 22.23mm	10	15.14	16.79	.596	.661	TR-1225	TRR-10	TR-1226	TRR-10-A	TRM-58
	11	15.72	17.75	.619	.699	TR-1229	TRR-11	TR-1230	TRR-11-A	TRM-59
	12	16.31	18.34	.642	.722	TR-1231	TRR-12	TR-1232	TRR-12-A	TRM-59
	13	17.02	19.05	.670	.750	TR-1233	TRR-13	TR-1234	TRR-13-A	TRM-60
	14	17.40	19.66	.685	.774	TR-1235	TRR-14	TR-1236	TRR-14-A	TRM-61
	15	18.08	20.34	.712	.801	TR-1237	TRR-15	TR-1238	TRR-15-A	TRM-61
	16	18.44	20.70	.726	.815	TR-1239	TRR-15	TR-1240	TRR-15-A	TRM-62
	17	18.80	21.06	.740	.829	TR-1243	TRR-16	TR-1244	TRR-16-A	TRM-62
	18	18.80	21.06	.740	.829	TR-1243	TRR-16	TR-1244	TRR-16-A	TRM-62
1" 25.4mm	08	16.64	18.67	.655	.735	TR-1241	TRR-13	TR-1242	TRR-13-A	TRM-59
	09	17.40	19.66	.685	.774	TR-1235	TRR-14	TR-1236	TRR-14-A	TRM-61
	10	18.08	20.34	.712	.801	TR-1237	TRR-15	TR-1238	TRR-15-A	TRM-61
	11	18.80	21.06	.740	.829	TR-1243	TRR-16	TR-1244	TRR-16-A	TRM-62
	12	19.38	21.64	.763	.852	TR-1245	TRR-17	TR-1246	TRR-17-A	TRM-62
	13	20.09	22.35	.791	.880	TR-1247	TRR-18	TR-1248	TRR-18-A	TRM-62
	14	20.57	23.09	.810	.909	TR-1249	TRR-18	TR-1250	TRR-18-A	TRM-63
	15	21.26	23.77	.837	.936	TR-1251	TRR-19	TR-1252	TRR-19-A	TRM-63
	16	21.26	23.77	.837	.936	TR-1251	TRR-19	TR-1252	TRR-19-A	TRM-63
	17	21.97	24.48	.865	.964	TR-1255	TRR-21	TR-1256	TRR-21-A	TRM-63
	18-20	21.97	24.48	.865	.964	TR-1255	TRR-21	TR-1256	TRR-21-A	TRM-63



TUBE EXPANDERS

1200 SERIES

TUBE OD. & BWG.	EXPANSION RANGE (ID)					38.1 mm 1 ½" ROLLS		57.1mm 2 ¼" ROLLS		MANDREL 9.5mm (3/8") Square Drive	
	Min	mm Max	Min	Inch Max	Expander	Roll Set	Expander	Roll set			
1 1/8" 28.58mm	08	19.71	22.22	.766	.875	TR-1253	TRR-20	TR-1254	TRR-20-A	TRM-63	
	09	20.57	23.09	.810	.909	TR-1249	TRR-18	TR-1250	TRR-18-A	TRM-63	
	10	21.26	23.77	.837	.936	TR-1251	TRR-19	TR-1252	TRR-19-A	TRM-63	
	11	21.97	24.48	.865	.964	TR-1255	TRR-21	TR-1256	TRR-21-A	TRM-63	
	12	22.43	24.94	.883	.982	TR-1257	TRR-21	TR-1258	TRR-21-A	TRM-64	
	13	23.57	25.78	.916	1.015	TR-1259	TRR-22	TR-1260	TRR-22-A	TRM-64	
	Expanders from this size onward use a 12.7mm (½") Square Drive.										MANDREL 12.7mm (½") Square Drive
	14	23.75	26.52	.835	1.044	TR-1261	TRR-23	TR-1262	TRR-23-A	TRM-65	
	15	24.43	27.20	.962	1.071	TR-1263	TRR-24	TR-1264	TRR-24-A	TRM-65	
	16	24.43	27.20	.962	1.071	TR-1263	TRR-24	TR-1264	TRR-24-A	TRM-65	
	17	25.15	27.91	.990	1.099	TR-1267	TRR-26	TR-1268	TRR-26-A	TRM-66	
	18	25.15	27.91	.990	1.099	TR-1267	TRR-26	TR-1268	TRR-26-A	TRM-66	
	1 ¼" 31.75mm	08	22.88	26.65	.901	1.010	TR-1265	TRR-25	TR-1266	TRR-25-A	TRM-65
09		23.75	26.52	.935	1.044	TR-1261	TRR-23	TR-1262	TRR-23-A	TRM-65	
10		24.43	27.20	.962	1.071	TR-1263	TRR-24	TR-1264	TRR-24-A	TRM-65	
11		25.15	27.91	.990	1.099	TR-1267	TRR-26	TR-1268	TRR-26-A	TRM-66	
12		25.73	28.50	1.013	1.122	TR-1269	TRR-27	TR-1270	TRR-27-A	TRM-66	
13		26.44	29.21	1.041	1.150	TR-1271	TRR-28	TR-1272	TRR-28-A	TRM-67	
14		26.92	29.69	1.060	1.169	TR-1273	TRR-29	TR-1274	TRR-29-A	TRM-67	
15		27.61	30.38	1.087	1.196	TR-1275	TRR-30	TR-1276	TRR-30-A	TRM-67	
16		27.61	30.38	1.087	1.196	TR-1275	TRR-30	TR-1276	TRR-30-A	TRM-67	
17		28.32	31.09	1.115	1.224	TR-1279	TRR-30	TR-1280	TRR-30-A	TRM-68	
1 3/8" 34.90mm	08	26.06	28.83	1.026	1.135	TR-1277	TRR-31	TR-1278	TRR-31-A	TRM-67	
	09	26.92	29.69	1.060	1.169	TR-1273	TRR-29	TR-1274	TRR-29-A	TRM-67	
	10	27.61	30.38	1.087	1.196	TR-1275	TRR-30	TR-1276	TRR-30-A	TRM-67	
	11	28.32	31.09	1.115	1.224	TR-1279	TRR-30	TR-1280	TRR-30-A	TRM-68	
	12	28.78	31.55	1.133	1.242	TR-1281	TRR-32	TR-1282	TRR-32-A	TRM-68	
	13	29.46	32.38	1.160	1.275	TR-1283	TRR-33	TR-1284	TRR-33-A	TRM-69	
	14	29.95	32.87	1.179	1.294	TR-1285	TRR-34	TR-1286	TRR-34-A	TRM-70	
	15	30.63	33.55	1.206	1.321	TR-1287	TRR-35	TR-1288	TRR-35-A	TRM-70	
1 ½" 38.10mm	16	30.63	33.55	1.206	1.321	TR-1287	TRR-35	TR-1288	TRR-35-A	TRM-70	
	08	29.08	32.00	1.145	1.260	TR-1289	TRR-34	TR-1290	TRR-34-A	TRM-69	
	09	29.95	32.87	1.179	1.294	TR-1285	TRR-34	TR-1286	TRR-34-A	TRM-70	
	10	30.63	33.55	1.206	1.321	TR-1287	TRR-35	TR-1288	TRR-35-A	TRM-70	
	11	31.37	34.29	1.235	1.350	TR-1291	TRR-36	TR-1292	TRR-36-A	TRM-70	
	12	31.93	34.85	1.257	1.372	TR-1293	TRR-37	TR-1294	TRR-37-A	TRM-70	
	13	32.64	35.56	1.285	1.400	TR-1295	TRR-37	TR-1296	TRR-37-A	TRM-71	
	14	32.64	35.56	1.285	1.400	TR-1295	TRR-37	TR-1296	TRR-37-A	TRM-71	
15	33.81	36.73	1.331	1.446	TR-1297	TRR-38	TR-1298	TRR-38-A	TRM-71		

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TUBE EXPANDERS

PBE BOILER EXPANDER



- Designed for expanding tubes in Fire and Water Tube Boilers.
- Ideal for re-rolling leaky tubes and new construction

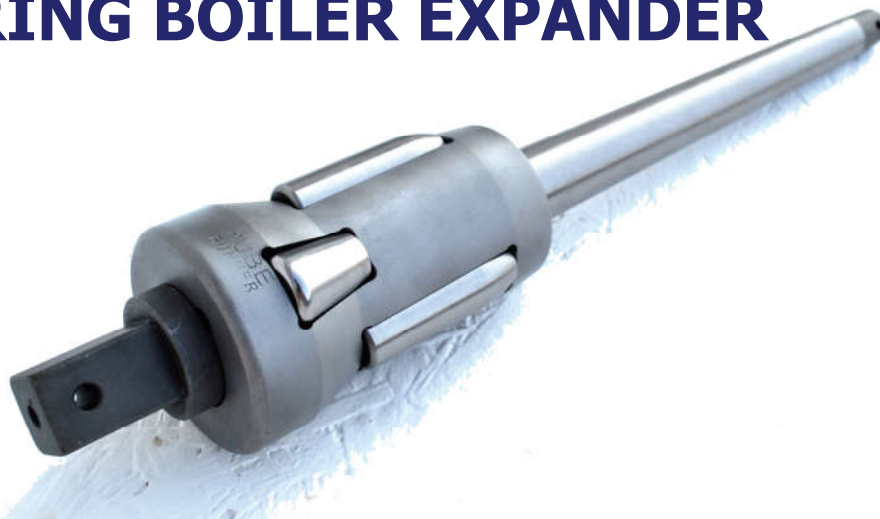
EXPANDER SIZE	EXPANSION RANGE mm	ROLLS	STANDARD ROLL LENGTH mm *	MANDREL	SHORT MANDREL SET (3PCS)	SQUARE DRIVE SIZE
PBE – 19	19 – 22mm	RR12	42mm	TK19	--	1/2"
PBE – 20	20 – 23mm	RR12	42mm	TK20	--	1/2"
PBE – 22	22 – 25mm	RR13	42mm	TK22	--	1/2"
PBE – 25	25 – 28mm	RR13	42mm	TK25	--	1/2"
PBE – 28	28 – 32mm	RR16	42mm	TK28	--	3/4"
PBE – 29	29 – 33mm	RR16	42mm	TK29	--	3/4"
PBE – 30	30 – 34mm	RR16	42mm	TK30	--	3/4"
PBE – 32	32 – 36mm	RR17	42mm	TK32	--	3/4"
PBE – 35	35 – 41mm	RR21	42mm	TK37	TKK37	3/4"
PBE – 37	37 – 43mm	RR22	42mm	TK37	TKK37	3/4"
PBE – 40	40 – 46mm	RR40	50mm	TK42	TKK42	3/4"
PBE – 42	42 – 48mm	RR23	50mm	TK42	TKK42	3/4"
PBE – 44	44 – 50mm	RR23	50mm	TK44	TKK44	3/4"
PBE – 47	47 – 54mm	RR24	50mm	TK47	TKK47	3/4"
PBE – 49	49 – 56mm	RR24	50mm	TK49	TKK49	3/4"
PBE – 52	52 – 59mm	RR25	50mm	TK49	TKK49	3/4"
PBE – 54	54 – 62mm	RR26	50mm	TK54	TKK54	3/4"
PBE – 57	57 – 66mm	RR27	50mm	TK57	TKK57	3/4"
PBE – 60	60 – 69mm	RR28	50mm	TK57	TKK57	3/4"
PBE – 65	65 – 74mm	RR29	50mm	TK65	TKK65	3/4"
PBE – 68	68 – 78mm	RR30	50mm	TK72	TKK72	1"
PBE – 72	72 – 82mm	RR31	50mm	TK72	TKK72	1"
PBE – 77	77 – 87mm	RR32	50mm	TK77	TKK77	1"
PBE – 82	82 – 92mm	RR33	50mm	TK82	TKK82	1"
PBE – 86	86 – 96mm	RR34	50mm	TK86	TKK86	1"
PBE – 90	90 – 102mm	RR34	50mm	TK90	TKK90	1"
PBE – 96	96 – 108mm	RR35	50mm	TK96	TKK96	1"

* Other Roll Lengths also available please enquire.



TUBE EXPANDERS

KBE FLARING BOILER EXPANDER



- Designed for expanding and flaring tubes in Boilers, Superheaters, Waterwalls and Economisers.
- Three expanding rolls & 3 flaring rolls, simultaneously expands & flares.

EXPANDER SIZE	EXPANSION RANGE mm	ROLLS	STANDARD ROLL LENGTH mm *	MANDREL	SHORT MANDREL SET (3PCS)	SQUARE DRIVE SIZE
KBE – 19	19 – 22mm	RR12RK5	42mm	TK19	--	1/2"
KBE – 20	20 – 23mm	RR12RK5	42mm	TK20	--	1/2"
KBE – 22	22 – 25mm	RR12RK5	42mm	TK22	--	1/2"
KBE – 23	23 – 26mm	RR13RK6	42mm	TK23	--	1/2"
KBE – 24	24 – 27mm	RR13RK6	42mm	TK24	--	1/2"
KBE – 25	25 – 28mm	RR13RK5	42mm	TK25	--	1/2"
KBE – 27	27 – 30mm	RR15RK7	42mm	TK27	--	1/2"
KBE – 28	28 – 32mm	RR16RK8	42mm	TK28	TKK28	3/4"
KBE – 29	29 – 33mm	RR16RK8	42mm	TK29	TKK29	3/4"
KBE – 30	30 – 34mm	RR16RK8	42mm	TK30	TKK30	3/4"
KBE – 32	32 – 36mm	RR17RK9	42mm	TK32	TKK32	3/4"
KBE – 35	35 – 41mm	RR21RK35	42mm	TK37	TKK37	3/4"
KBE – 37	37 – 43mm	RR22RK10	42mm	TK37	TKK37	3/4"
KBE – 40	40 – 46mm	RR40RK40	50mm	TK42	TKK42	3/4"
KBE – 42	42 – 48mm	RR23RK11	50mm	TK42	TKK42	3/4"
KBE – 44	44 – 50mm	RR23RK11	50mm	TK44	TKK44	3/4"
KBE – 47	47 – 54mm	RR24RK12	50mm	TK47	TKK47	3/4"
KBE – 49	49 – 56mm	RR24RK12	50mm	TK49	TKK49	3/4"
KBE – 52	52 – 59mm	RR25RK13	50mm	TK49	TKK49	3/4"
KBE – 54	54 – 62mm	RR26RK14	50mm	TK54	TKK54	3/4"
KBE – 57	57 – 66mm	RR27RK15	50mm	TK57	TKK57	3/4"
KBE – 60	60 – 69mm	RR28RK16	50mm	TK57	TKK57	3/4"
KBE – 65	65 – 74mm	RR29RK17	50mm	TK65	TKK65	3/4"
KBE – 68	68 – 78mm	RR30RK18	50mm	TK72	TKK72	1"
KBE – 72	72 – 82mm	RR31RK19	50mm	TK72	TKK72	1"
KBE – 77	77 – 87mm	RR32RK20	50mm	TK77	TKK77	1"
KBE – 82	82 – 92mm	RR33RK21	50mm	TK82	TKK82	1"
KBE – 86	86 – 96mm	RR34RK22	50mm	TK86	TKK86	1"
KBE – 90	90 – 102mm	RR34RK22	50mm	TK90	TKK90	1"
KBE – 96	96 – 108mm	RR35RK23	50mm	TK96	TKK96	1"

* Other Roll Lengths also available please enquire.

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TORNADO

TORQUE CONTROLLED TUBE EXPANDER DRIVE



The Tornado is a pneumatic pistol motor for the expansion of light wall tubes used in Heat Exchangers, Condensers and Coolers. It has the ability to expand tubes from 8mm up to 16mm OD.

The Tornado combines adjustable torque drive with an ergonomic trigger design, for simple and effective repetitive use.

Each machine is supplied with carrying case, instruction manual, quick-change coupling, air fitting and spare rotor blades.

Features:

- Torque Controlled to ensure repeatability.
- Very light weight.
- Ergonomic finger throttle control.
- Simple to use and maintain.

MODEL	TUBE CAPACITY		CHUCK SIZE	FREE SPEED	MAX TORQUE	LENGTH	WEIGHT
	Steel	Non Ferrous					
TORNADO 16	16x1mm 5/8"	19x1mm 3/4"	3/8"	800 RPM	8.0 NM 71 In.lbs	255mm 10"	2 KG 4.15 lbs



TORNADO

EXPANDERS SUITABLE FOR USE WITH THE TORNADO EXPANDER DRIVE

ALL 900 SERIES EXPANDERS

ALL 1300 SERIES EXPANDERS

800 SERIES EXPANDERS

TR-797 – TR-829 1 ½" Roll length

TR-810 – TR-830 2 ¼" Roll length

1200 SERIES EXPANDERS

TR-1197 – TR-1229 1 ½" Roll length

TR-1210 – TR-1230 2 ¼" Roll length

(Based on non-ferrous materials, maximum expander size will be reduced for steel tube)

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R3



CYCLONE

TORQUE CONTROLLED TUBE EXPANDER DRIVE



The Cyclone is a pneumatic torque controlled motor for the expansion of tubes used in Heat Exchangers, Condensers and Coolers.

Three machines are available offering expansion of tubes of nominal sizes 3/4", 1" and 1 1/4" The Cyclone's torque control system has been specifically designed and engineered to ensure precise repeat expansion, preventing under or over expansion of the tubes. Each machine is supplied with carrying case, instruction manual and quick-change coupling.

Features:

- Torque Controlled to ensure repeatability.
- Light weight and Robust
- Simple to use and maintain.
- Ergonomic wrist-roll throttle control.

MODEL	TUBE CAPACITY		CHUCK SIZE	FREE SPEED	MAX TORQUE	LENGTH	WEIGHT
	Steel	Non Ferrous					
CYCLONE 19	19x1mm	22x1mm (3/4")	3/8"	1250 RPM	15 NM 133 in.lb	214mm 8 1/2"	4.0 KG 8.8 lbs
CYCLONE 25	20x2mm	25x1mm (1")	3/8"	700 RPM	23 NM 204 in.lb	220mm 8 1/2"	4.2 KG 9.3 lbs
CYCLONE 32	25x3mm	30x1mm (1 1/4")	3/8" & 1/2"	500 RPM	35 NM 310 in.lb	240mm 9 1/2"	4.5 kg 9.9 lbs



CYCLONE

EXPANDERS SUITABLE FOR USE WITH THE CYCLONE EXPANDER DRIVE

MODEL	RECOMMENDED EXPANDERS
C19-1250 3/4"	800 SERIES EXPANDERS TR-797 – TR-829 1 1/2" Roll Length TR-810 – TR-830 2 1/4" Roll Length 1200 SERIES EXPANDERS TR-1197 – TR 1229 1 1/2" Roll Length TR-1210 – TR1230 2 1/4" Roll Length
C25-700 1"	800 SERIES EXPANDERS TR-819 – TR-855 1 1/2" Roll Length TR-820 – TR-856 2 1/4" Roll Length 1200 SERIES EXPANDERS TR-1219 – TR 1255 1 1/2" Roll Length TR-1220 – TR1256 2 1/4" Roll Length
C32-500 1 1/4"	800 SERIES EXPANDERS TR-841 – TR-875 1 1/2" Roll Length TR-842 – TR-876 2 1/4" Roll Length 1200 SERIES EXPANDERS TR-1241 – TR 1275 1 1/2" Roll Length TR-1242 – TR1276 2 1/4" Roll Length

(Based on non-ferrous materials, maximum expander size will be reduced for steel tube)

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R3



K50 ROLL MOTOR

HEAVY DUTY PNEUMATIC ROLLING MOTOR



The K50 is a heavy duty pneumatic torque controlled motor for the expansion of tubes used in Heat Exchangers, Condensers and Coolers.

This machine is particularly well suited to extended periods of operation. It features an ergonomically designed push/pull throttle mechanism to reduce operator fatigue.

The torque control clutch mechanism is easily set and ensures precise, repeat expansions over long periods of use.

Three machines are available to suit tubes of nominal sizes 3/4", 1" and 1 1/4"

Features:

- Heavy Duty & Highly Durable.
- Ensures precise, repeat expansions.
- Reliable & easy to use.
- Ergonomic Push/Pull throttle control.

MODEL	TUBE CAPACITY		CHUCK SIZE	FREE SPEED	MAX TORQUE	LENGTH	WEIGHT
K50-1250	19mm	3/4"	3/8"	1250 RPM	12.2 NM 108 in.lb	311mm 12 1/4"	4.8 KG 10.5 lbs
K50-600	25mm	1"	3/8"	485 RPM	21.8 NM 193 in.lb	311mm 12 1/4"	4.8 KG 10.5 lbs
K50-400	32mm	1 1/4"	3/8" & 1/2"	400 RPM	36.0 NM 318 in.lb	311mm 12 1/4"	4.8 KG 10.5 lbs



K50 ROLL MOTOR

EXPANDERS SUITABLE FOR USE WITH THE K50 EXPANDER DRIVE

	RECOMMENDED EXPANDERS	
MODEL	1 1/2" Rolls	2 1/4" Rolls
K50-1250	813, 815, 817, 819, 819[S], 827, 829, 831, 843, 855,	814, 816, 818, 820, 820[S], 828, 830, 832, 844, 856,
	1213, 1215, 1217, 1219, 1219[S], 1227, 1229, 1231, 1243, 1255,	1214, 1216, 1218, 1220, 1220[S], 1228, 1230, 1232, 1244, 1256,
K50-600	807, 809, 811, 815($\frac{3}{4}$ "), 819($\frac{3}{4}$ "), 821, 823, 825, 829($\frac{7}{8}$ "), 831($\frac{7}{8}$ "), 833, 835, 837, 839, 845, 847, 849, 851,	810, 812, 816($\frac{3}{4}$ "), 820($\frac{3}{4}$ "), 822, 824, 826, 830($\frac{7}{8}$ "), 832($\frac{7}{8}$ "), 834, 836, 838, 840, 846, 848, 850, 852
	1207, 1209, 1211, 1215($\frac{3}{4}$ "), 1219($\frac{3}{4}$ "), 1221, 1223, 1225, 1229($\frac{7}{8}$ "), 1231($\frac{7}{8}$ "), 1233, 1235, 1237, 1239, 1245, 1247, 1249, 1251,	1210, 1212, 1216($\frac{3}{4}$ "), 1220($\frac{3}{4}$ "), 1222, 1224, 1226, 1230($\frac{7}{8}$ "), 1232($\frac{7}{8}$ "), 1234, 1236, 1238, 1240, 1246, 1248, 1250, 1252
K50-400	835(1"), 837(1"), 841, 849(1 $\frac{1}{8}$ "), 851(1 $\frac{1}{8}$ "), 853, 855(1 $\frac{1}{8}$ "), 857, 859, 861, 863, 865, 867, 869, 871, 873, 875, 879,	836(1"), 838(1"), 842, 850(1 $\frac{1}{8}$ "), 852(1 $\frac{1}{8}$ "), 854, 856(1 $\frac{1}{8}$ "), 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880,
	1235(1"), 1237(1"), 1241, 1249(1 $\frac{1}{8}$ "), 1251(1 $\frac{1}{8}$ "), 1253, 1255(1 $\frac{1}{8}$ "), 1257, 1259, 1261, 1263, 1265, 1267, 1269, 1271, 1273, 1275, 1279,	1236(1"), 1238(1"), 1242, 1250(1 $\frac{1}{8}$ "), 1252(1 $\frac{1}{8}$ "), 1254, 1256(1 $\frac{1}{8}$ "), 1258, 1260, 1262, 1264, 1266, 1268, 1270, 1272, 1274, 1276, 1278, 1280,

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VORTEX

TORQUE CONTROL RIGHT ANGLE EXPANDER DRIVE



The Vortex is a right angle pneumatic torque controlled motor designed for the expansion of Boiler tubes in Steam and Mud Drums, Fire Tube Boilers and similar equipment. Four machines are available offering expansion of tubes of nominal sizes 1 3/4", 2 1/2", 3", 4". The Vortex's torque control system has been specifically designed and engineered to ensure precise repeat expansion, preventing under or over expansion of the tubes. Each machine is supplied with carrying case, instruction manual and drive coupling.

Features:

- Torque Controlled to ensure repeatability.
- Light weight and Robust.
- Simple to use and maintain.
- Ergonomic wrist-roll throttle control.

MODEL	TUBE CAPACITY	CHUCK SIZE	FREE SPEED	MAX TORQUE	LENGTH	WEIGHT
VORTEX 45	1 3/4"	1/2"	220 RPM	100 NM 75 ft.lbs	480mm 19"	5.8 KG 12.8 lbs
VORTEX 63	2 1/2"	3/4"	145 RPM	170 NM 125 ft.lbs	485mm 19"	6.0 KG 13.2 lbs
VORTEX 76	3"	3/4"	100 RPM	245 NM 180 ft.lbs	495mm 19.5"	6.3 kg 13.9 lbs
VORTEX 110	4"	3/4" & 1"	100 RPM	400 NM 295 ft.lbs	550mm 21.5"	9.6 KG 21.2 lbs



VORTEX

EXPANDERS SUITABLE FOR USE WITH THE VORTEX RIGHT ANGLE EXPANDER DRIVE

MODEL	RECOMMENDED EXPANDERS
V45-220 1 ¾"	PBE SERIES EXPANDERS PBE-19 - PBE-40 KBE SERIES EXPANDERS KBE-19 – KBE-40
V63-145 2 ½"	PBE SERIES EXPANDERS PBE-28 – PBE-52 KBE SERIES EXPANDERS KBE-28 – KBE-52
V76-100 3"	PBE SERIES EXPANDERS PBE-32 - PBE-72 KBE SERIES EXPANDERS KBE-32 – KBE-72
V110-75 4"	PBE SERIES EXPANDERS PBE-40 - PBE-90 KBE SERIES EXPANDERS KBE-40 – KBE-90

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K70 ROLL MOTOR

HEAVY DUTY PNEUMATIC ROLLING MOTOR



The K70 is a heavy duty, right angle, pneumatic torque controlled motor for the expansion of Boiler tubes in Steam and Mud Drums, Fire Tube Boilers and similar equipment.

This machine is particularly well suited to extended periods of operation and is equipped with a Roll Throttle as standard. (A lever throttle is available as an option).

The machine has a unique head design which features a fully enclosed bearing for long life.

With Industry input the K70 has been engineered to precisely and consistently expand boiler tubes.

3 machines are available to suit tubes of nominal size 2", 2 1/2", and 4"

Features:

- Heavy Duty & Highly Durable.
- Ensures precise, repeat expansions.
- Reliable and easy to use.

MODEL	TUBE CAPACITY		CHUCK SIZE	FREE SPEED	MIN TORQUE	MAX TORQUE	LENGTH	WEIGHT
K73-RT-375	2"	50.8mm	3/4"	375 RPM	40 NM 30 ft.lbs	110 NM 82 ft.lbs	530mm 20"	5.8 KG 13 lbs
K73-RT-190	2 1/2"	63.5mm	3/4"	190 RPM	95 NM 70 ft.lbs	200 NM 140 ft.lbs	530mm 20"	5.8 KG 13 lbs
K72-RT-90	4"	101.6mm	3/4" 1"	90 RPM	200 NM 150 ft.lbs	410 NM 305 ft.lbs	550mm 22"	6.7 kg 15 lbs



K70 ROLL MOTOR

EXPANDERS SUITABLE FOR USE WITH THE K70 EXPANDER DRIVE

MODEL	RECOMMENDED EXPANDERS	
	PBE Type	KBE Type
K73-RT-375	PBE19 to PBE42	KBE19 to KBE42
K73-RT-190	PBE32 to PBE57	KBE32 to KBE57
K72-RT-90	PBE40 to PBE96	KBE40 to KBE96

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TUBE TRIMMER

TUBE END FACER



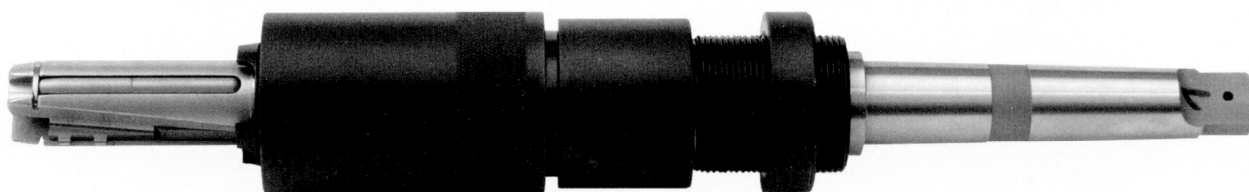
- Used for facing back the ends of tubes after expansion.
- The Tube End Facer can be driven with a Pneumatic or Electric drill motor.
- The tool uses various pilots to match tube gauge thickness.
- Cutters available for use on Stainless Steel.

TUBE SIZE (OD.)			PART NUMBER	
mm	INCH	Pilot Range	COMPLETE TOOL	CUTTER BIT
9.5	3/8"	16-20g	42.EF0375	42.EFC0375
12.5	1/2"	16-20g	42.EF0500	42.EFC0500
15.8	5/8"	14-18g	42.EF0625	42.EFC0625
19.0	3/4"	10-18g	42.EF0750	42.EFC0750
22.2	7/8"	14-18g	42.EF0875	42.EFC0875
25.4	1"	10-18g	42.EF1000	42.EFC1000
31.7	1 1/4"	10-18g	42.EF1250	42.EFC1250
38.1	1 1/2"	10-18g	42.EF1500	42.EFC1500
50.8	2"	10-18g	42.EF2000	42.EFC2000
63.5	2 1/2"	10-18g	42.EF2500	42.EFC2500



GROOVING TOOLS

TUBE SHEET SERATION TOOLS



Note: Tool shown includes optional rollers

- The grooving tool allows the cutting of grooves in tube sheet holes, cutting depth can be adjusted from 22.5mm to 54.0mm.
- Standard grooving configuration of 3-6-3. 3mm groove, 6mm space then another 3mm groove. Other configurations are available as a special order.
- Circumferential Rollers can be specified as an option to extend mandrel life.

HOLE SIZE	COMPLETE TOOL	MORSE TAPER	GROOVING BLADES	CUTTER RETAINER SPRING
*3/8"	42.GT0375	3	42.3753-S	19.0018
*1/2"	42.GT0500	3	42.5003-S	19.0021
5/8"	42.GT0625	3	42.6203-S	19.0019
3/4"	42.GT0750	3	42.7503-S	19.0020
7/8"	42.GT0875	3	42.7503-S	19.0020
1"	42.GT1000	3	42.7503-S	19.0020
1 1/8"	42.GT1125	4	42.7503-S	19.0020
1 1/4"	42.GT1250	4	42.7503-S	19.0020
1 1/2"	42.GT1500	4	42.7503-S	19.0020
1 3/4"	42.GT1750	4	42.7503-S	19.0020
2"	42.GT2000	5	42.7503-S	19.0020
2 1/4"	42.GT2250	5	42.7503-S	19.0020
2 1/2"	42.GT2500	5	42.7503-S	19.0020

Tools available for tube sizes up to 4" and for metric size tubes, please ask for details.
Items marked * are not available with Rollers.

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Tube Prepping & Bevelling





THUNDERBOLT

TUBE & PIPE BEVELLING MACHINE

- **CUTTING RANGE:**
12.5mm ID – 89.0mm OD



The Thunderbolt machine is a lightweight, High Power tube-prepping machine, designed to bevel, face and counterbore most types of tube and pipe work.

Drawing on our vast experience in the production of tube bevelling equipment this machine offers several improvements over our previous machines.

A completely new pneumatic motor provides equivalent power and torque in a smaller, lighter package. A further benefit of this motor is a reduction in operational noise levels. The new motor, coupled with the revised throttle also allows the operator greater control over the machine's cutting speed.

The machine is offered with a hand wheel feed mechanism as standard. This provides the operator with greater 'feel'. When paired with the improved speed control this allows the skilled operator to 'balance' his cut to obtain the best possible finish in the minimum time.

The Cutter head design utilises modern work-holding technology to reduce the time needed to change cutters. This system also ensures optimum clamping of the cutter bit in any position within the head.

The machine utilises a torque reacted mandrel system which aligns and clamps to the internal diameter of the tube. As standard the machine is supplied with the mandrel system to cover 25mm to 89mm tube. Additional shafts are available to cover 12 to 19mm and 19 to 25mm.



THUNDERBOLT

SPECIFICATION

TUBE CUTTING RANGE

RANGE: 12.5mm UP TO 89mm OD
1/2" UP TO 3 1/2" OD

STANDARD SHAFT:

METRIC: 25mm UP TO 80mm ID.

INCH: 1" UP TO 3.1" ID.

OPTIONAL SHAFT 1:

METRIC: 12mm UP TO 19mm ID.

INCH: 1/2" UP TO 3/4" ID.

OPTIONAL SHAFT 2:

METRIC: 19mm UP TO 25mm ID.

INCH: 3/4" UP TO 1" ID.



DIMENSIONS

LENGTH: 390mm 15 1/4"

DEPTH: 375mm 14 3/4"

WEIGHT: 8 Kg 17 1/2 lbs

CUTTER FEED: 40mm 1 1/2"

MOTOR

POWER: 630 W 0.85 hp

AIR FLOW: 1100 l/min 40 cfm

AIR PRESSURE: 6 bar 90 psi

HOSE SIZE: 10 mm 0.394"

MACHINE DETAIL

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LIGHTNING

TUBE & PIPE BEVELLING MACHINE

- **CUTTING RANGE:**
12.5mm ID – 115.0mm OD



The Lightning machine is a lightweight, High Power tube-prepping machine, designed to bevel, face and counterbore most types of tube and pipe work.

Drawing on our vast experience in the production of tube beveling equipment this machine offers several improvements over our previous equivalent machine (the Super Hornet)

A completely new pneumatic motor provides nearly twice as much power in a package of similar size and weight. A further benefit of this motor is a reduction in operational noise levels. The new motor, coupled with the revised throttle also allows the operator greater control over the machine's cutting speed.

The machine is offered with a hand wheel feed mechanism as standard. This provides the operator with greater 'feel'. When paired with the improved speed control this allows the skilled operator to 'balance' his cut to obtain the best possible finish in the minimum time.

The Cutter head design allows for the use of traditional HSS cutter bits, or newly developed Tip-Tools and holders. The use of Tip-Tools allows for easy positioning and clamping of the tool holders and quick changing of worn bits.

The machine utilises a torque reacted mandrel system which aligns and clamps to the internal diameter of the tube. As standard the machine is supplied with the mandrel system to cover 25mm to 115mm tube. Additional shafts are available to cover 12 to 19mm and 19 to 25mm.



LIGHTNING

SPECIFICATION

TUBE CUTTING RANGE

RANGE: 12.5mm UP TO 115mm OD
1/2" UP TO 4 1/2" OD

STANDARD SHAFT:

METRIC: 25mm UP TO 103mm ID.
INCH: 1" UP TO 4" ID.

OPTIONAL SHAFT 1:

METRIC: 12mm UP TO 19mm ID.
INCH: 1/2" UP TO 3/4" ID.

OPTIONAL SHAFT 2:

METRIC: 19mm UP TO 25mm ID.
INCH: 3/4" UP TO 1" ID.

DIMENSIONS

LENGTH: 390mm 15 1/4"
DEPTH: 530mm 21"

WEIGHT: 10 Kg 22 lbs

CUTTER FEED: 40mm 1 1/2"

MOTOR

POWER: 1500 W 2.0 hp
AIR FLOW: 1800 l/min 60 cfm
AIR PRESSURE: 6 bar 90 psi
HOSE SIZE: 12 mm 1/2"



MACHINE DETAIL



CASE & TOOL KIT

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COBRA 400

PORTABLE PIPE BEVELLING MACHINE

■ CUTTING RANGE:

METRIC: 38mm ID - 171mm OD.

IMPERIAL: 1 1/2" ID to 6 3/4" OD.

■ POWER OPTIONS:

ELECTRIC: 0.9 HP

PNEUMATIC: 2.0 HP

■ PREPARATIONS:

BEVEL

FACE

COUNTER BORE

BEVEL AND FACE IN ONE

BOILER MEMBRANE END PREP



The **COBRA 400** machine is a mid-size, High Power portable tube-prepping machine, designed to bevel, face and counter bore most types of tube and pipe work.

This versatile midrange machine utilises torque reacted mandrels which align themselves on the inside of the work piece enabling the machine to cover a range of 38.5mm (1 1/2") to 172mm (6 3/4") OD.

The Cobra 400 machine can also be used with Short Locking Units for machining short parallel pipe lengths and fittings.

A heavy duty worm and spur gear drive system combines a compact head design with smooth reliable power transmission.

Fitted with either an electric 110/240v or pneumatic motor the Cobra 400 has the ability to withstand the toughest working environments.



COBRA 400

SPECIFICATION

TUBE CUTTING RANGE

RANGE: 38mm UP TO 171mm OD
1 1/2" UP TO 6 3/4" OD

OPTIONAL SHAFT 1:

METRIC: 38mm UP TO 103mm ID.
INCH: 1 1/2" UP TO 4" OD.

OPTIONAL SHAFT 2:

METRIC: 96mm UP TO 160mm ID.
INCH: 3.78" UP TO 6.3" ID.

POWER

ELECTRIC: 670 Watts 0.9 hp
PNEUMATIC: 1500 Watts 2.0 hp

DIMENSIONS

ELECTRIC: 190 x 610mm 7 1/2" x 24"
PNEUMATIC: 190 x 585mm 7 1/2" x 23"

CUTTER FEED: 32mm 1 1/4"

WEIGHT

ELECTRIC: 13 Kg 29 lbs
PNEUMATIC: 12 Kg 26 lbs

AIR REQUIREMENTS

AIR FLOW: 1800 l/min 60 cfm
AIR PRESSURE: 6 bar 90 psi
HOSE SIZE: 12.5mm 1/2"



THE BORE LOCKING SYSTEM
& CUTTER HEAD DETAIL



THE ELECTRIC VARIANT
AND FIN SET

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SUPER ROCKET

TUBE & PIPE BEVELLING MACHINE

■ **CUTTING RANGE:**
90.0mm ID – 305.0mm OD



The Super Rocket machine is a High Power portable tube-prepping machine, designed to bevel, face and counter bore most types of tube and pipe work.

The high power and torque of the newly developed pneumatic motor combined with heavy duty worm and spur gear drive provide a rugged reliable machine for working on large diameter or heavy wall tube (eg. 5 1/2" Sched XX Heavy).

The motor provides the operator with a high degree of control over the cutting speed by means of an accurate lever throttle, whilst keeping operational noise levels to a minimum.

The machine utilises a versatile torque reacted shaft system to align on the inside of the work piece. The entire range of the machine (64mm to 300mm ID) is covered with just 2 shafts, minimising the number of parts required.

The construction of the shaft system is such that the shaft and machine can be mounted to the tube together, or the shaft can be mounted first and the machine then loaded to the shaft in order to ease operations in overhead or confined spaces.

The Cutter head design allows the use of standard size HSS cutter bits or when machining Heavy Wall, thicker Heavy Duty cutters. For extreme applications a roughing cutter can be paired with a finishing cutter to reduce the cutting forces.



SUPER ROCKET

SPECIFICATION

TUBE CUTTING RANGE

RANGE: 90mm UP TO 305mm OD
3 9/16" UP TO 12" OD

OPTIONAL SHAFT 1:

METRIC: 90mm UP TO 196mm ID.
INCH: 3 9/16" UP TO 7 3/4" ID.

OPTIONAL SHAFT 2:

METRIC: 194mm UP TO 300mm ID.
INCH: 7 5/8" UP TO 11 3/4" ID.

DIMENSIONS

LENGTH: 500mm 19 5/8"
DEPTH: 700mm 27 1/2"

WEIGHT: 19Kg 42 lbs
(Machine)

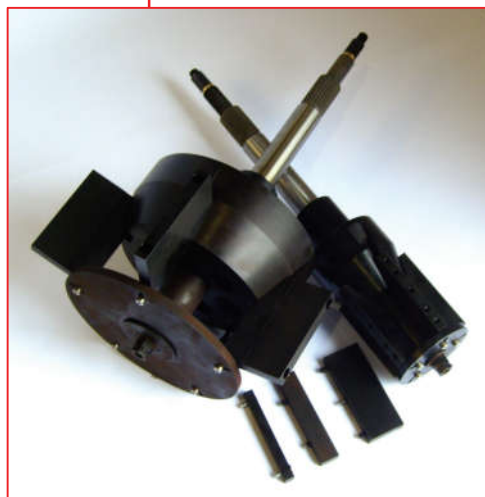
WEIGHT: 25Kg 55 lbs
(With Shaft 1)

WEIGHT 35Kg 77 lbs
(With shaft 2)

CUTTER FEED: 40mm 1 1/2"

MOTOR

POWER: 1500 W 2.0 hp
AIR FLOW: 1800 l/min 60 cfm
AIR PRESSURE: 6 bar 90 psi
HOSE SIZE: 12 mm 1/2"



BORE LOCKING SHAFTS



**WORKING HEAVY
WALL TUBE
(5 1/2" XX HEAVY)**

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SPLIT FRAMES

SPLIT FRAME CLAMSHELL CUTTERS

■ CUTTING RANGES:

51mm – 1220mm OD
2" - 48" OD

■ POWER OPTIONS:

PNEUMATIC
HYDRAULIC

■ PREPARATIONS:

CUT / PART-OFF
BEVEL
FACE
COUNTER BORE



The MSF Range of clamshell pipe and casing cutter are low clearance, split frame cutting and bevelling machines designed for cutting and bevelling pipe efficiently. They can operate on many materials including carbon steel, stainless steel, Hastelloy, Incoloy and Super Duplex.



The machine is supplied complete with 1 off split half drive ring, gearbox and drive motor, 2 off combination tool slides for cutting & bevelling, striker feed unit with adjustable cut feature, integral clamping unit and spacers, toolkit inc. air filter lubricator & hose connection, storage / shipping box

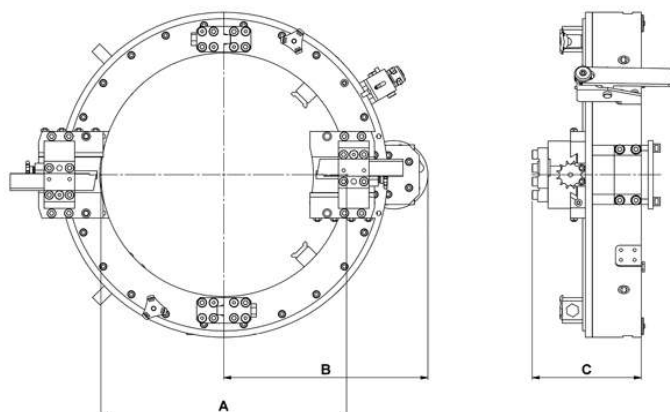


SPLIT FRAMES

SPECIFICATIONS

Weights and Dimensions

Model	Size Range		A	B	C	Weight
MSF2-6	2 - 6"	51 – 152mm	6.88" (175mm)	7.51" (191mm)	6.0" (152mm)	14 Kgs
MSF4-8	4 - 8"	102 – 203mm	8.87" (225mm)	9.21" (234mm)	6.0" (152mm)	20 Kgs
MSF6-12	6 - 12"	152 - 305mm	13.00" (330mm)	10.94" (278mm)	6.0" (152mm)	25 Kgs
MSF8-14	8 - 14"	203 - 356mm	14.25" (362mm)	11.45" (291mm)	6.0" (152mm)	27 Kgs
MSF14-20	14 - 20"	356 - 508mm	20.25" (514mm)	14.70" (373mm)	6.0" (152mm)	42 Kgs
MSF18-24	18 - 24"	457 - 610mm	24.25" (616mm)	16.63" (422mm)	7.0" (178mm)	86 Kgs
MSF26-32	26 - 32"	660 - 813mm	32.50" (826mm)	20.63" (524mm)	7.0" (178mm)	107 Kgs
MSF30-36	30 - 36"	762 - 915mm	36.50" (927mm)	22.63" (575mm)	7.0" (178mm)	118 Kgs
MSF36-42	36 - 42"	915 - 1067mm	42.50" (1079mm)	25.64" (651mm)	7.0" (178mm)	135 Kgs
MSF42-48	42 - 48"	1067 - 1220mm	48.50" (1232mm)	28.64" (727mm)	7.0" (178mm)	150 Kgs



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FLANGE FACERS

AX012 AND AX024 ROTARY MACHINING CENTERS

The **AXL012** and **AX024** are versatile machines capable of accomplishing a variety of on-site machining tasks including RTJ grooving and lapping, lens ring machining and polishing, clamp type connector hub machining, line boring, as well as flange facing, valve seat and oval man way machining.

The **AXL012** is externally mounted and suitable for outside diameters up to 12 inches (305mm). Mounted on four independent jaw blocks, it is powered by two 0.85HP (0.66Kw) high torque pneumatic motors and rotates on a high precision bearing giving excellent rigidity. Two continuous automatic feeds, fine and "gramophone" meet all industry standards.

The **AX024** is a larger version of the AXL012 and is suitable for diameters up to 23 inches (584mm). It is mounted on eight jaw blocks, is driven by two 1.55HP (1.2Kw) high torque motors and also uses a continuous feed gearbox.



FXB630 FLANGE FACER

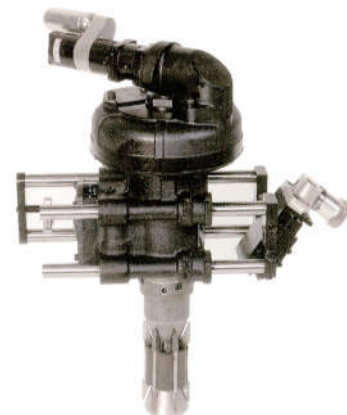
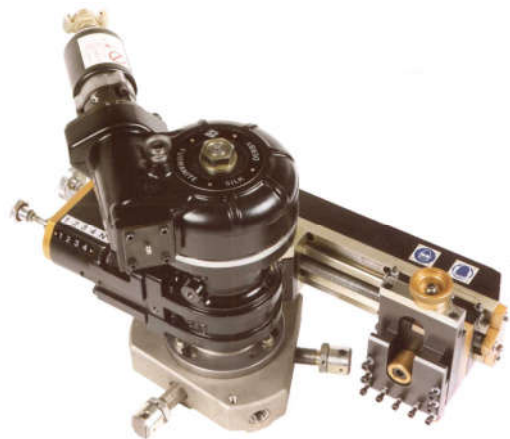
The **FXB630** is modular, compact, strong and suitable for flanges measuring from 6 inches (153mm) to 30 inches (762mm) in diameter. It is internally mounted and comes with three base modules complete with jaws sets. Driven by a 1.55HP (1.2Kw) pneumatic motor, the tool post is mounted on a dove tail cast iron slide arm, fed by a continuous groove type gearbox with four fixed feeds and featuring forward, neutral and reverse.

This machine is also available in a **FXB645** version covering diameters from 6 inches (153mm) to 45 inches (1143mm).

AX321 FLANGE FACER

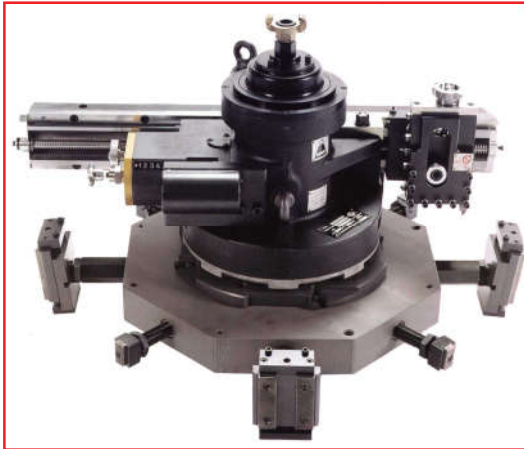
The **AX321** is a light and compact machine, covering flanges measuring from 3 inches (75mm) to 21 inches (533mm). Depending on the bore diameter, rapid and effective internal mounting is achieved by a unique system of collets or a three jaw chuck.

The feed assembly consists of four rails and a cross head with tool posts supported by precision linear bearings for rigidity and extreme accuracy. The gearbox is automatic with two fixed feeds and with interchangeable lead screws giving a range of four feeds as standard. It is driven by a 0.85HP (0.66Kw) pneumatic motor mounted vertically or if space is restricted, horizontally. Optional extras include a 2.2HP (1.65Kw) hydraulic motor and an extension base adapter for larger work.





FLANGE FACERS

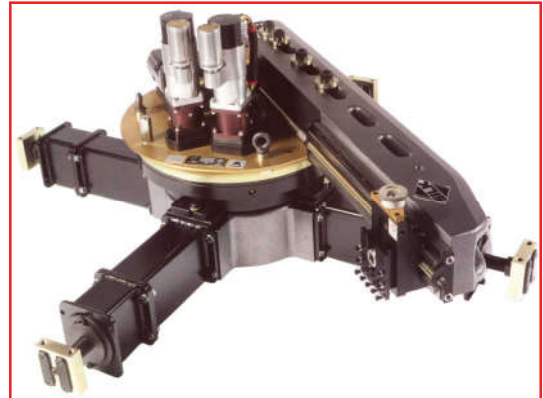


AX1445 FLANGE FACER

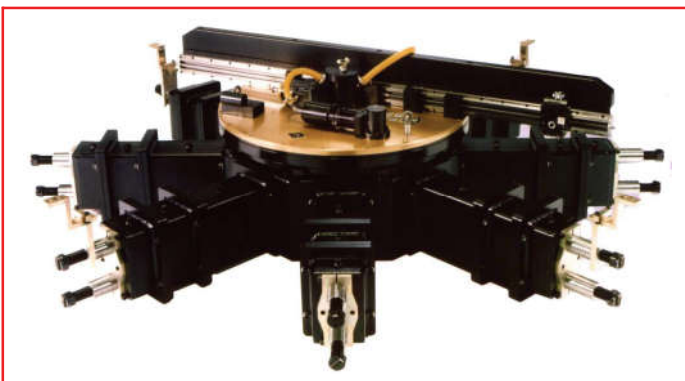
The **AX1445** is an internally mounting machine of modular design to cover flanges of 14 inches (355mm) to 45 inches (1140mm). Fitted with an integrated 2.61 Kw (3.5Hp) pneumatic motor, so plenty of power to tackle welds, bolt holes and exotic materials. Light in weight it can be positioned anywhere. Designed for facing, lens ring seats, v groove cutting & tube sheet machining. Comes complete with shipping case and necessary tools to operate.

SX2872 FLANGE FACER

The **SX2872** is an internally mounted machine of modular design to cover flanges in the range of 28 inches (710mm) to 72 inches (1828mm). Fitted with twin 1.55HP (1.2Kw) motors a feature of which is to compensate for backlash, the SX2872 also has a low profile. While capable of completing all the RTJ grooves, lens rings and standard type flanges, this machine is also particularly suitable for tube sheet and back facing applications. Optional extras include tube sheet mounts and back facing kits.



AX48120 FLANGE FACER

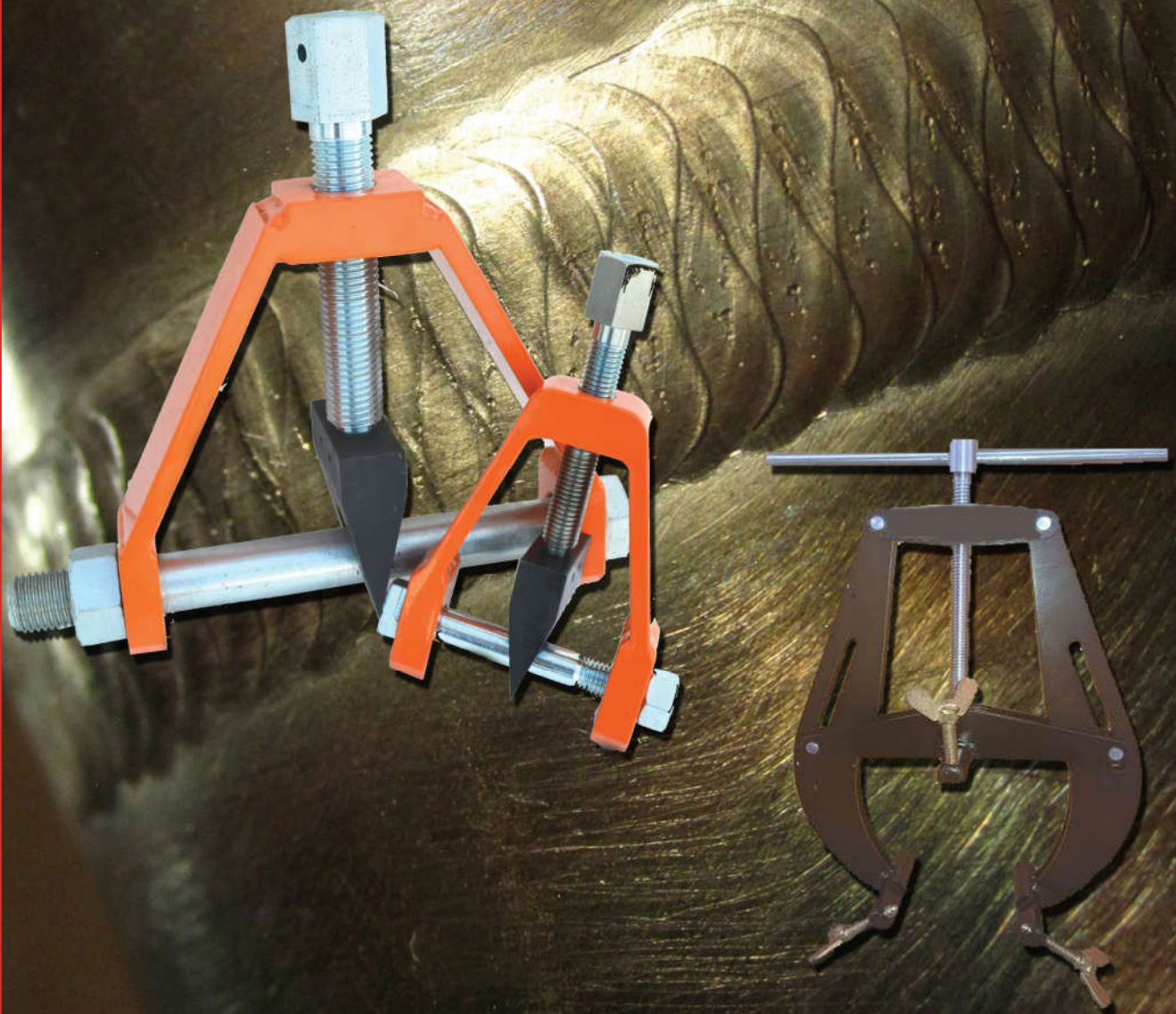


The **AX48120** is the largest internally mounted facer in the current range, covering flange sizes from 48 inches (1219mm) bore to 120 inches (3048mm) OD. This machine is of modular design and like all of the Silk range, will operate in any position. The mounting base has eight ram type jaw assemblies; four of these are unique levelling devices. Power is provided by two 3.5HP (2.63Kw) pneumatic motors. It has the same continuous feed gearbox and air distribution system as the SX2872. Optional extras include grinding and milling attachments.

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Clamps & Stands





PIPE CLAMPS

BLACK BRIDGE CLAMPS

The Black Bridge Pipe Clamps can be used in the welding of all kinds of materials such as carbon steel, stainless, duplex, super duplex and titanium. Due to its design, the Black Bridge Clamp ensures that the clamping forces are evenly spread around the pipe to be welded.

This is true for all pipe dimensions within the range of the BB Clamp.

The adjusting screws have stainless steel bearings, thus reducing the risk of carbon contamination and corrosion.

The arms are fabricated from steel which allows a clamping force to meet the requirements for all pipe dimensions within the range of the Clamp.

The welding of pipe to pipe and pipe to fittings is easily performed with BB Clamp.

Three sizes of clamp are available covering all pipe diameters between 1" - 14"



Features

- Quick and easy to use
- Combines accuracy with safety
- Instant centring
- A quality product at low cost
- Wing bolts with stainless steel bearings

PART No.	PIPE DIAMETER IMPERIAL	PIPE DIAMETER METRIC	WEIGHT KG / LBS
BBC3	1 - 3"	27 - 64	1.5 / 3.50
BBC6	2 - 6"	60 - 168	3.75 / 8.0
BBC14	6 - 14"	168 - 355	7.50 / 15.00



PIPE CLAMPS

CHAIN CLAMPS

The Chain Clamp is Double Jackscrew clamp for aligning and reforming Pipes upto 54" diameter. Supplied in a metal storage box each clamp comes with the length of chain required for the given pipe range and double jackscrew jackbars for clamping and aligning.

A fitting alignment device is also included for the positioning of tees and elbows. A range of double chain clamps is also available for ultra heavy duty applications, please enquire.

Features

- Can align all pipe schedules accurately
- Jackscrews enable elimination of Hi-Lo Points either side of the joint. Can re-form Up to schedule 40 pipes.
- Joints can be fully welded without removing the clamp
- Elbows, Tees and other fittings can be accurately aligned
- Jackbars have two jackscrews with pivoting pads to compensate for uneven surfaces.
- Available in both Carbon & Stainless steel versions.



PART No.	PIPE DIAMETER RANGE "/	NO. OF JACKBARS	REFORMS PIPE TO SCHEDULE	ALIGNS PIPE TO SCHEDULE	SHIPPING WT KGS
SCC8	1-8	3	40	80	12
SCC8SS	1-8	3	40	80	12
SCC20	4-20	7	40	80	33
SCC20SS	4-20	7	40	80	33
SCC36	10-36	8	40	80	67
SCC36SS	10-36	8	40	80	67
SCC54	10-54	13	40	80	82
SCC54SS	10-54	13	40	80	82

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PIPE STANDS

PJ1 PIPE JACKS

The PJ1 Pipe Stands are a basic single tubed pipe stand, simple to use and easy to set-up. A favourite for low level work in all fab shops. Available in 4 standard heights from 7" (18cm) to 28" (72cm). Optional roller heads from the PJ3 series can also be fitted to the Vee Head of the PJ1 Stand to suit varying applications.



PART NO.	MIN/MAX HEIGHT INCHES	MIN/MAX HEIGHT METRIC
PJ1-1	7"-10.25"	175-260mm
PJ1-2	10"-15.5"	250-395mm
PJ1-3	15.5"-22.5"	395-570mm
PJ1-4	21.5"-28"	545-715mm

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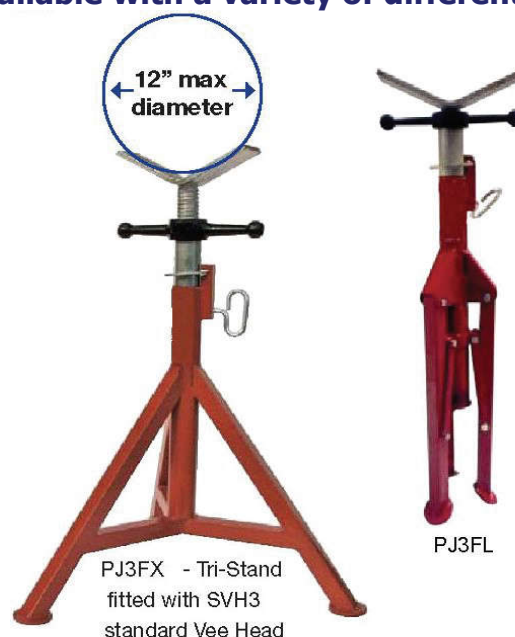
PIPE STANDS

PJ3 PIPE JACKS

The PJ3 Pipe Stands Three leg height adjustable pipe stands are constructed from box section and are available with a variety of different head styles to suit any application.

Features

- Square box section construction
- 1,000kg / 2,205lbs load capacity
- Choice of fixed base or folding leg base
- Folding legs allow for easy storage and storage
- Comprehensive range of head types
- Adjustable in height from 27"-48" (71cm-122cm)
- Independently load tested



HEAD OPTIONS

Vee-Head



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SVH3	1,000 / 2,205	3.4 / 7	up to 12"

Steel Wheel



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SWK3	450 / 990	3.4 / 7	1"-12"
SWK3/SS*	450 / 990	3.4 / 7	1"-12"

Nylon Wheel*



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
NWK3*	450 / 992	2 / 5	1"-12"

Steel Wheel



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SWK350	1,000 / 2,205	4.9 / 11	1"-12"
NWK350	450 / 990	4.9 / 11	1"-12"

Stainless Steel



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SSC3*	1,000 / 2,205	1.0 / 2	1"-12"

Ball Transfer



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
BTK300	450 / 990	2.5 / 6	1"-12"
BTK3SS*	450 / 990	2.5 / 6	1"-12"

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PIPE STANDS

PJ5 MAXI STANDS

The Pipe Jack 5 Maxi Pipe Stands are the ideal solution for heavy duty pipe handling, in the workshop or for site applications.

The Large Vee Head, heavy duty base and variety of head options make the Pipe Jack 5 (PJ5) the most durable and versatile pipe stand on the market.

The Pipe Jack 5 (PJ5) stand is supplied as standard with a 5 piece wheel kit. Weight load tested to 1225kg / 2,700lbs per stand, the PJ5 can support pipes of up to 36" diameter and any length can be moved around a workshop or site, without using a crane or forklift.



Features

- 1,225kg / 2,700lbs load capacity
- Variety of head options
- Castor wheels for pipe transportation
- Height adjustable
- Suitable for carbon or stainless steel
- Independently load tested

HEAD OPTIONS

Steel Wheels

Roller wheels come in either steel or stainless steel.

*Suitable for stainless steel



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
SVK5	1,200 / 2,645	3 / 6	1"-36"
SVK5/SS*	1,200 / 2,645	3 / 6	1"-36"

Ball Transfers

Consists of two 1-½" roller balls which can be mounted in vee-head slots.

*Suitable for stainless steel



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
BTK5	1,200 / 2,645	2.3 / 5	1"-36"
BTK5SS*	1,200 / 2,645	2.3 / 5	1"-36"

Nylon Wheel

The kit consists of four nylon wheels that can be mounted into the 12" (30cm) vee-head,

*Suitable for stainless steel



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
NWK5	450 / 990		1"-36"

Stainless Steel Sleeves

The sleeves option instantly converts the PJ5 into a speciality tool for stainless steel welding



PART NO.	LOAD CAPACITY KG / LBS	WEIGHT KG / LBS	PIPE SIZE
PJ5SS	1,200 / 2,645	1 / 2	1"-36"



FLANGE SPREADERS



Flange spreaders are used in many industrial applications; Chemical, Petroleum, North Sea Oil and Food Processing for example. There is also a wide application on board ships. In fact they find use in any environment that requires Safety, Speed and Reliability. Further benefits are their ease of use and Low Spark risk. Strongly constructed these tools are available in a range of sizes, and the option of special versions manufactured to order.

- Will split and support the flange in one tool.
- Low Sparking risk compared with more manual methods.
- Ultra Reliable
- Lightweight
- Powder Coated with High Tensile bolt and Wedge.



STANDARD FLANGE SPREADERS

PART NO.	TYPE	BOLT DIA.	SPREAD	WEIGHT	NOMINAL PIPE SIZE
25.0001	1	5/8" (16mm)	2 3/4" (70mm)	5 lbs (2.27Kg)	UP TO 4"
25.0002	2	3/4" (19mm)	3 3/4" (95mm)	6 lbs (2.73Kg)	6" OR 8"
25.0003	3	7/8" (22mm)	4 7/8" (124mm)	9 lbs (4.10Kg)	10" OR 12"
25.0004	4	1" (25mm)	6 1/8" (155mm)	14 lbs (6.36Kg)	14" OR 16"
25.0005	5	1 1/8" (28mm)	7 1/8" (181mm)	18 lbs (8.18Kg)	18"
25.0006	6	1 1/4" (31mm)	9 1/8" (231mm)	21 lbs (9.55Kg)	OVER 18"



CONVERSION TABLES

WIRE GAUGES TO MILLIMETRES

GAUGE NO.	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
BG-mm	3.99	3.55	3.17	2.83	2.52	2.24	1.99	1.77	1.59	1.41	1.26	1.12	1.00	0.79	0.79	0.71	0.63
SWG-mm	4.05	3.66	3.25	2.95	2.64	2.34	2.03	1.83	1.62	1.42	1.22	1.02	0.91	0.81	0.71	0.61	0.56
BWG-mm	4.19	3.76	3.40	3.05	2.77	2.41	2.11	1.83	1.65	1.47	1.24	1.07	0.89	0.81	0.71	0.63	0.56

CHART TO DETERMINE INSIDE DIAMETER OF TUBES (INCHES)

BWG	WALL THICKNESS	OUTSIDE DIAMETER TUBES																				
		1/4	3/8	1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	1 3/4	2	2 1/4	2 1/2	2 3/4	3	3 1/4	3 1/2	3 3/4	4	4 1/4	4 1/2
00	.380	-	-	-	-	-	.115	.240	.490	.740	.990	1.24	1.49	1.74	1.99	2.24	2.49	2.74	2.99	3.24	3.49	3.74
0	.340	-	-	-	-	.070	.195	.320	.57	.82	1.07	1.32	1.57	1.82	2.07	2.32	2.57	2.82	3.07	3.32	3.57	3.82
1	.300	-	-	-	.025	.150	.275	.400	.550	.900	1.15	1.40	1.65	1.90	2.15	2.40	2.65	2.90	3.15	3.40	3.65	3.90
2	.284	-	-	-	.057	.182	.307	.432	.682	.932	1.182	1.432	1.682	1.932	2.182	2.432	2.682	2.932	3.182	3.432	3.682	3.932
3	.259	-	-	-	.107	.232	.357	.482	.732	.982	1.232	1.482	1.732	1.982	2.232	2.482	2.732	2.982	3.232	3.482	3.732	3.982
4	.238	-	-	.024	.149	.274	.399	.524	.774	1.024	1.274	1.524	1.774	2.024	2.274	2.524	2.774	3.024	3.274	3.524	3.774	4.024
5	.220	-	-	.060	.185	.310	.435	.560	.810	1.060	1.310	1.560	1.810	2.050	2.310	2.560	2.810	3.060	3.310	3.560	3.810	4.060
6	.203	-	-	.094	.219	.344	.469	.594	.844	1.094	1.344	1.594	1.844	2.094	2.344	2.594	2.844	3.094	3.344	3.594	3.844	4.094
7	.180	-	-	.140	.265	.390	.515	.640	.890	1.140	1.390	1.640	1.890	2.140	2.390	2.640	2.890	3.140	3.390	3.640	3.890	4.140
8	.165	-	.045	.170	.295	.420	.545	.670	.920	1.170	1.420	1.670	1.920	2.170	2.420	2.670	2.920	3.170	3.420	3.670	3.920	4.170
9	.148	-	.079	.204	.329	.454	.579	.704	.954	1.204	1.454	1.704	1.954	2.204	2.454	2.704	2.954	3.204	3.454	3.704	3.954	4.204
10	.134	-	.107	.232	.357	.482	.607	.732	.982	1.232	1.482	1.732	1.982	2.232	2.482	2.732	2.982	3.232	3.482	3.732	3.982	4.232
11	.120		.135	.260	.385	.510	.635	.760	1.010	1.260	1.510	1.760	2.010	2.260	2.510	2.760	3.010	3.260	3.510	3.760	4.010	4.260
12	.109	.032	.157	.282	.407	.532	.657	.782	1.032	1.282	1.532	1.782	2.032	2.282	2.532	2.782	3.032	3.282	3.532	3.782	4.032	4.282
13	.095	.060	.185	.310	.435	.560	.685	.810	1.060	1.310	1.560	1.810	2.060	2.310	2.560	2.810	3.060	3.310	3.560	3.810	4.060	4.310
14	.083	.084	.209	.334	.459	.584	.709	.834	1.084	1.334	1.584	1.834	2.084	2.334	2.584	2.834	3.084	3.334	3.584	3.834	4.084	4.334
15	.072	.106	.231	.356	.481	.606	.731	.856	1.106	1.356	1.606	1.856	2.106	2.356	2.606	2.856	3.106	3.356	3.606	3.856	4.106	4.356
16	.065	.120	.245	.370	.495	.620	.745	.870	1.120	1.370	1.620	1.870	2.120	2.370	2.620	2.870	3.120	3.370	3.620	3.870	4.120	4.370
17	.058	.134	.259	.384	.509	.634	.759	.884	1.134	1.384	1.634	1.884	2.134	2.384	2.634	2.884	3.134	3.384	3.634	3.884	4.134	4.384
18	.049	.152	.277	.402	.527	.652	.777	.902	1.152	1.402	1.652	1.902	2.152	2.402	2.652	2.902	3.152	3.402	3.652	3.902	4.152	4.402
19	.042	.166	.291	.416	.541	.666	.791	.916	1.166	1.416	1.666	1.916	-	-	-	-	-	-	-	-	-	-
20	.035	.180	.305	.430	.555	.680	.805	.930	1.180	1.430	1.680	1.930	-	-	-	-	-	-	-	-	-	-
21	.032	.186	.311	.436	.561	.686	.811	.936	1.186	1.436	1.686	1.935	-	-	-	-	-	-	-	-	-	-
22	.028	.194	.319	.444	.569	.694	.819	.944	1.194	1.444	1.694	1.944	-	-	-	-	-	-	-	-	-	-
23	.025	.200	.325	.450	.575	.700	.825	.950	1.200	1.450	1.700	1.950	-	-	-	-	-	-	-	-	-	-
24	.022	.206	.331	.456	.581	.706	.831	.956	1.206	1.456	1.706	1.956	-	-	-	-	-	-	-	-	-	-

CHART TO DETERMINE PIPE SIZE AND SCHEDULE NUMBER

NOMINAL PIPE SIZE	O.D. (IN)	SCHEDULE NUMBER FOR PIPE SIZES WALL THICKNESS / INSIDE DIAMETER (INCHES)							
		40	I.D.	80	I.D.	120	I.D.	160	I.D.
1/8	.405	.068	.269	.095	.215	-	-	-	-
1/4	.540	.088	.364	.119	.302	-	-	-	-
3/8	.675	.091	.493	.126	.423	-	-	-	-
1/2	.840	.109	.622	.147	.546	-	-	.187	.466
3/4	1.050	.113	.824	.154	.742	-	-	.218	.614
1	1.315	.133	1.049	.179	.957	-	-	.230	.815
1 1/4	1.660	.140	1.380	.191	1.28	-	-	.250	1.160
1 1/2	1.900	.145	1.610	.200	1.500	-	-	.281	1.338
2	2.375	.154	2.067	.218	1.939	-	-	.343	1.689
2 1/2	2.875	.203	2.469	.276	2.323	-	-	.375	2.125
3	3.500	.216	3.068	.300	2.900	-	-	.437	2.626
3 1/2	4.000	.226	3.548	.318	3.364	-	-	-	-
4	4.500	.237	4.026	.337	3.826	.437	3.626	.531	3.438
5	5.563	.258	5.047	.375	4.813	.500	4.563	.625	4.313
6	6.625	.280	6.065	.432	5.761	.562	5.501	.718	5.189
8	8.625	.322	7.981	.500	7.625	.718	7.189	.906	6.813
10	10.750	.365	10.020	.593	9.564	.843	9.064	1.125	8.500
12	12.750	.406	11.938	.687	11.376	1.000	10.750	1.312	10.126



CONVERSION TABLES

COMMON IMPERIAL SIZES TO METRIC

mm	6.35	9.53	12.70	15.89	19.05	22.23	25.40	31.75	38.10	44.45	50.80	57.15	69.85
Inch	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/4"	2 3/4"

CONVERSION FROM MILLIMETRES TO INCHES

mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches
0.1	0.00394	1	0.03937	51	2.0079	101	3.9764	151	5.9449
0.2	0.00787	2	0.07874	52	2.0472	102	4.0157	152	5.9842
0.3	0.01181	3	0.11811	53	2.0866	103	4.0551	153	6.0236
0.4	0.01575	4	0.15748	54	2.1260	104	4.0945	154	6.0630
0.5	0.01969	5	0.19685	55	2.1654	105	4.1339	155	6.1024
0.6	0.02362	6	0.23622	56	2.2047	106	4.1732	156	6.1417
0.7	0.02756	7	0.27559	57	2.2441	107	4.2126	157	6.1811
0.8	0.03150	8	0.31496	58	2.2835	108	4.2520	158	6.2205
0.9	0.03543	9	0.35433	59	2.3228	109	4.2913	159	6.2598
1.0	0.03937	10	0.39370	60	2.3622	110	4.3307	160	6.2992
1.1	0.04331	11	0.43307	61	2.4016	111	4.3701	161	6.3386
1.2	0.04724	12	0.47244	62	2.4409	112	4.4094	162	6.3779
1.3	0.05118	13	0.51181	63	2.4803	113	4.4488	163	6.4173
1.4	0.05512	14	0.55118	64	2.5197	114	4.4882	164	6.4567
1.5	0.05906	15	0.59055	65	2.5591	115	4.5276	165	6.4961
1.6	0.06299	16	0.62992	66	2.5984	116	4.5669	166	6.5464
1.7	0.06693	17	0.66929	67	2.6378	117	4.6063	167	6.5748
1.8	0.07087	18	0.70866	68	2.6772	118	4.6457	168	6.6142
1.9	0.07480	19	0.74803	69	2.7165	119	4.6850	169	6.6535
2.0	0.07874	20	0.78740	70	2.7559	120	4.7244	170	6.6929
2.1	0.08268	21	0.82677	71	2.7953	121	4.7638	171	6.7323
2.2	0.08661	22	0.86614	72	2.8346	122	4.8031	172	6.7716
2.3	0.09055	23	0.90551	73	2.8740	123	4.8425	173	6.8110
2.4	0.09449	24	0.94488	74	2.9134	124	4.8819	174	6.8898
2.5	0.09843	25	0.98425	75	2.9528	125	4.9212	175	6.9291
2.6	0.10236	26	1.0236	76	2.9921	126	4.9606	176	6.9685
2.7	0.10630	27	1.0630	77	3.0315	127	5.0000	177	7.0079
2.8	0.11024	28	1.1024	78	3.0709	128	5.0394	178	7.0472
2.9	0.11417	29	1.1417	79	3.1102	129	5.0787	179	7.0472
3.0	0.11811	30	1.1811	80	3.1496	130	5.1181	180	7.0866
3.1	0.12205	31	1.2205	81	3.1890	131	5.1575	181	7.1260
3.2	0.12598	32	1.2598	82	3.2283	132	5.1968	182	7.1653
3.3	0.12992	33	1.2992	83	3.2677	133	5.2362	183	7.2047
3.4	0.13386	34	1.3386	84	3.3071	134	5.2756	184	7.2441
3.5	0.13780	35	1.3780	85	3.3465	135	5.3149	185	7.2835
3.6	0.14173	36	1.4173	86	3.3858	136	5.3543	186	7.3228
3.7	0.14567	37	1.4567	87	3.4252	137	5.3937	187	7.3622
3.8	0.14961	38	1.4961	88	3.4646	138	5.4331	188	7.4016
3.9	0.15354	39	1.5354	89	3.5039	139	5.4724	189	7.4409
4.0	0.15748	40	1.5748	90	3.5433	140	5.5118	190	7.4803
4.1	0.16142	41	1.6142	91	3.5827	141	5.5512	191	7.5197
4.2	0.16535	42	1.6535	92	3.6220	142	5.5905	192	7.5590
4.3	0.16929	43	1.6929	93	3.6614	143	5.6299	193	7.5984
4.4	0.17323	44	1.7323	94	3.7008	144	5.6693	194	7.6378
4.5	0.17717	45	1.7717	95	3.7402	145	5.7087	195	7.6772
4.6	0.18110	46	1.8110	96	3.7795	146	5.7480	196	7.7165
4.7	0.18504	47	1.8504	97	3.8189	147	5.7874	197	7.7559
4.8	0.18898	48	1.8898	98	3.8583	148	5.8268	198	7.7953
4.9	0.19291	49	1.9291	99	3.8976	149	5.8661	199	7.8346
5.0	0.19685	50	1.9685	100	3.9370	150	5.9055	200	7.8740



CONVERSION TABLES

CONVERSION FACTORS

WEIGHTS

	FACTOR		FACTOR	
Grams	0.0010	Kilograms	1,000.00	Grams
Grams	0.0353	Ounces	28.3495	Grams
Grams	0.0022	Pounds	453.592	Grams
			4	
Kilograms	35.2740	Ounces	0.0283	Kilograms
Kilograms	2.2046	Pounds	0.4536	Kilograms
Ounces	0.0625	Pounds	16.0000	Ounces

FLOW RATES

	FACTOR		FACTOR	
Cubic Feet per Minute	0.0283	Cubic Meters per Minute	35.3133	Cubic Feet per Minute
Cubic Feet per Minute	7.4805	Gallons per Minute	0.1337	Cubic Feet per Minute
Cubic Feet per Minute	28.3163	Litres per Minute	0.0353	Cubic Feet per Minute
Cubic Meters per Minute	264.1700	Gallons per Minute	0.0038	Cubic Meters per Minute
Cubic Meters per Minute	1,000.00	Litres per Minute	0.0010	Cubic Meters per Minute
Gallons per Minute	3.7878	Litres per Minute	0.2641	Gallons per Minute

MEASURES

	FACTOR		FACTOR	
Millimetres	0.1000	Centimeters	10.0000	Millimetres
Millimetres	0.0010	Metres	1,000.00	Millimetres
Millimetres	0.0033	Feet	304.801	Millimetres
Millimetres	0.0394	Inches	25.4000	Millimetres
Metres	100.0000	Centimeters	0.0100	Metres
Metres	3.2808	Feet	0.3048	Metres
Metres	39.3700	Inches	0.0254	Metres

PRESSURE

	FACTOR		FACTOR	
Bar	1.0197	Kilograms/sq Centimetre	0.9807	Bar
Bar	14.5038	Pounds/sq Inch	0.0689	Bar
Pounds/sq Inch	0.0703	Kilograms/sq Centimetre	14.22	Pounds/sq Inch