

The manual vinyl (PVC) profile-bending machine is used for bending vinyl profiles to form an arch. When required, a tail of 100 mm (4") in length may be allowed to facilitate the welding procedure.

THE BASIC COMPONENTS WHICH FORM THE MACHINE

- 1-Work Bench
- 2-Bending Moulds, Interior Spades, Distance Gauges
- 3-Heater
- 4-Compass
- 5-Compass Lengthening
- 6-Traction Apparatus
- 7-Immersion Gravities
- 8-Washing Tank
- 9-Draining Tank
- 10-Front Trestle Bracket
- 11-Rear Trestle Bracket

WORKING BENCH

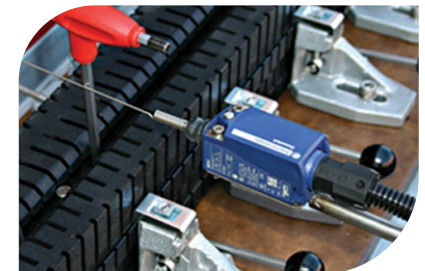
15 exterior and 15 interior mould holder aluminum set squares are inserted into the T-channels on the work bench to support the bending moulds. The bending moulds may be fixed to a desired diameter by using the aluminum set squares. The top spandrel may move to both sides, the left or the right, approx. 400 mm (16") with an aid of a gear.

BENDING MOULDS

These are heat resistant and flexible. The Interior spades prevents the profile from deteriorating when working at small diameters. The internal spades are formed from a material similar to the moulds. Distance gauges and aluminum mould holders can bend glass bars without adjusting.



**Manual Hot Liquid Bending
Machine for Vinyl Profiles**



THEATER

The heater is made from stainless steel, and has a 2-mm thickness. The 10 kW power allow the heater to supply sufficient temperature for the oil. The temperature control is achieved by digital thermometers and thermostats. It is insulated by a 30 mm thick glass wool, which is covered by stainless steel. This insulation provides a 25% reduction in power use. The steam emission equipment provides the steam coming from the heater, and does not permit its diffusion into the working area. The aspirator may work with a low capacity when the lids are closed. When the lids are opened, it may work at a higher capacity to emit the steam to the exterior environment. The heater has a switch box containing the necessary equipment to operate as needed. The heater level may be adjusted with respect to the workbench. The round rollers in the profile resting pan prevent the heated profiles to rub on the pan.

COMPASS

The compass is used to adjust the mould bender holders to any desired diameter. It has 2 rulers with 1100 mm (43") and a 3100 mm (122") in length.

COMPASS LENGTHENING BAR

The central compass lengthening bar is used for radiuses over 950 mm (37"). It may be assembled to the working bench. It may also work as a centering device for the traction apparatus.

TRACTION APPARATUS

The traction apparatus may be used to facilitate the procedure of pulling the heated profiles including its padding materials into the bending mould.

IMMERSION GRAVITIES (2 PIECES)

This unit is used to immerse the heated profile with padding into the oil. They are stainless steel.

WASHING TANK

The washing tank is made from stainless with 1.5 mm thickness, and used to wash the bent profiles.

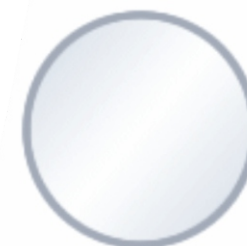
DRAINING TANKS

These are used to drain the oil remaining inside the profiles. These are 2 pieces and are manufactured from stainless steel. This oil is discharged back to the heater tank to re-use.

FRONT TRESTLE BRACKET

This is used in order to prevent any deterioration of the exterior parts of the bending mould that hangs loosely from the sides of the working bench.

DESCRIPTION	UNIT	
Model and Type		ARIES
Dimensions of work table	mm (inch)	800x2850x3000 (32" x 112" x 118")
Height of work table from ground	mm (inch)	900 (35")
Weight of work table	kg (lb)	548 (1206)
Left/right movement allowance of work table	mm (inch)	300 (12")
No. of mould holders mounted on work table	Pcs	30
HEATER		
Heater volume	m ³ (ft ³)	0.35 (12.35)
No. of heaters	Pcs	2
Heating capacity	kW	2 x 10
No. of hold down weights	kg (lb)	3 x 1870 (3 x 4114)
Type of heating liquid		Glycerin
No. of ventilating fans	Pcs	1
Capacity of ventilating fan	m ³ /h (ft ³ /h)	1650 - 1400 rpm (58500 - 1400 rpm) 2800 - 2800 rpm (99000 - 2800 rpm)
Ventilating fan power	kW (Hp)	0.85 (1 Hp)
Ventilating fan discharge pressure	Pa	40mmss - 1400 rpm 80mmss - 2800 rpm
No. of ventilating fan connection	Pcs	1
Size of ventilating fan connection	mm (inch)	102 (4")
Volume of washing tank	m ³ (ft ³)	0.282 (10)
Heater drainage valve size.	mm (inch)	13 (1/2")
ELECTRIC MOTOR		
No. of Electric motors	Pcs	1
Power of Electric motors	kW (Hp)	0.85 (1.1)
POWER SUPPLY		
Total power absorbed	kW	21.70
Electric connection	V, Hz, Ph	380, 50, 3 (208, 60, 3)
GENERAL SPECIFICATION		
General dimensions (length x width x height)	mm (inch)	8350 x 3000 x 865 (329" x 118" x 34")
Weight (total)	kg (lb)	1200 (2640)



CIRCLE



1/2 ROUND



OVAL



1/4 ARCH



**EXTENDED
CIRCLE ARCH**



**SEGMENTAL
EYEBROW**



ELLIPSE