

Astore Keymak

a member of the **Hudaco** group

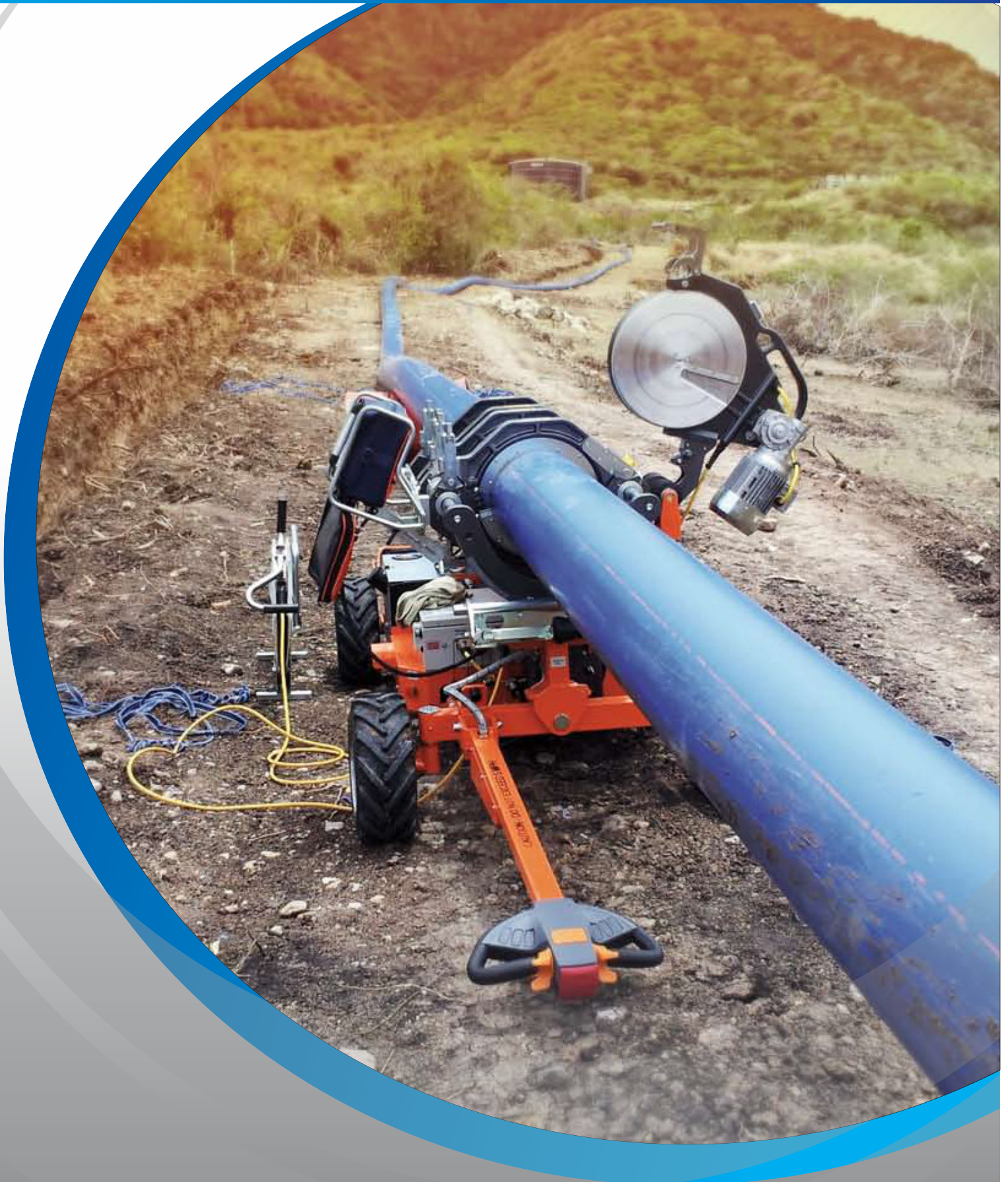
“Driven by quality; Delivered by experience!”



CATALOGUE

WELDING

EQUIPMENT



THERMOSPLASTIC WELDING MACHINES



Did you know?

That the largest Buttweld machine can weld pipes up to 3 meters in Diameter!

WELDING EQUIPMENT

Astore Keymak offers the full comprehensive range of thermoplastic **welding equipment** that compliments the thermoplastic pipes & fittings that we supply. This has assisted customers from all over sub-Saharan Africa to become successful in a wide range of industries

As a reliable, experienced supplier, we offer everything from Butt-welding, Socket Fusion, Electro-Fusion, Extrusion, Wedge welding to IR welding equipment from internationally recognized suppliers.



Butt-Welding Machines:

- Workshop Machines: Hydraulically or CNC-controlled for thermoplastics like PE, PP, and PVDF. Used to fabricate bends and tees, with sizes ranging from 125-1600mm.
- Site Machines: Hydraulically operated for PE, PP, and other thermoplastics, suited for road construction, sewers, and irrigation, with sizes from 40-1600mm.
- Bush-Ranger Machines: Self-motorized, track-mounted, and remotely operated, with a range from 315-630mm, adaptable for larger sizes.

Socket Fusion Machines:

- Manual and hydraulically operated options for welding PE, PP, and PVDF, with sizes ranging from 20-110mm.

Electro-fusion Welding:

- Two machines available, capable of welding up to 1200mm using copper coils to generate heat. Powered by 230v/50Hz electrical network or generator.

Hot Air Welding:

- Used for spot welding of sheets and other applications.

Extrusion Welding:

- Machines for welding sheeting and piping, with different output capacities.

Spares: Astore carries a complete range of spare parts for all machines.

TECNODUE PT - TRENCH BUTT WELDING MACHINES



PT 500

Range: 200mm - 500mm

Weight: 570Kg

Comprising of : Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 200mm - 400mm, stub end device 200mm- 500mm
Short end spigot fitting clamp d 500, d 315 x 500mm (2 narrow clamps for short spigot fittings)
d 250mm x 315mm (2 narrow clamps for short spigot fittings)

NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.



PT 630

Range: 315mm - 630mm

Weight: 755Kg

Comprising of : Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 315mm - 560mm, stub end device 200mm - 630mm

NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.



PT 800

Range: 450mm - 800mm

Weight: 1290 Kg

Comprising of : Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 450mm - 710mm, stub end device 450mm - 800mm

NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.

PT 1000

Range: 630mm - 1000mm

Weight: 2615 Kg

Comprising of : Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 630mm - 1000mm, stub end device 630mm - 1000mm

NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.

PT 1200

Range: 630mm - 1200mm

Weight:

Comprising of : Basic machine with 4 clamps, PTFE-coated heating mirror with electronic thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Electro-hydraulic unit c/w pressure regulator, bypass and accumulator. Reducing rings 630mm - 1200mm, stub end device 630mm - 1200mm

NB: ALSO AVAILABLE WITH CRANE AND ELECTRIC HOIST.

PLEASE CONTACT YOR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARE PARTS

◆ STOCK ITEM

TECNODUE PL WORKSHOP BUTT WELDING MACHINES



PL 125C

Range: 25mm - 125mm

Weight: 60Kg

Comprising of : Basic machine c/w 2 pivoting clamps, PTFE - coated mirror with thermostat, removable electric facing tool with safety switch, mirror and facing tool support. Reducing rings for pivoting clamps 40 - 140mm. Fitting clamps 125mm, reducing rings for fitting clamps 40mm - 140mm. Stub end device 25mm - 125mm, complete with all accessories.



PL 160 C

Range: 40mm - 160mm

Weight: 86Kg

Comprising of : Basic machine c/w 2 pivoting clamps, PTFE - coated mirror with thermostat, removable electric facing tool with safety switch, mirror and facing tool support. Reducing rings for pivoting clamps 25mm - 110mm. Fitting clamps 125mm, reducing rings for fitting clamps 25mm - 110mm. Stub end device 40mm - 160mm, complete with all accessories.



PL - MODEL HYDRAULIC (BENCH / WORKSHOP) BUTT WELD MACHINE

The PI workshop butt welding machine range below, are all hydraulically operated, computer controlled units incorporating a printer facility for the recording of all parameters relative to the butt welding of pipes and fittings in PE, P, PVDF. Pivoting clamps facilitate the fabrication of segmented bends and fittings Special assemblies are also available for fabricating T-pieces and Crosses.

PL 315 C

Range: 90mm - 315mm

Weight: 250Kg

Comprising of : Basic machine c/w motor, hydraulic circuits and control board , 2 pivoting clamps 315mm. PTFE - coated heating mirror with electronic thermostat, reducing rings for pivoting clamps 90mm- 280mm Electric mill cutter with reduction gear safety switch, fitting clamp 315mm, reducing rings for fitting clamps 90mm - 280mm, stub end device 90mm - 315mm

PL 400 C

Range: 90mm - 400mm

Weight: 5080Kg

Comprising of : Basic machine c/w motor, hydraulic circuits and control board , 2 pivoting clamps 400mm. PTFE - coated heating mirror with electronic thermostat, reducing rings for pivoting clamps 90mm- 355mm Electric mill cutter with reduction gear safety switch, fitting clamp 400mm, reducing rings for fitting clamps 90mm - 400mm, stub end device 90mm - 400mm

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TECNODUE PL WORKSHOP BUTT WELDING MACHINES



PL 315 CNC

Range: 90mm - 315mm

Weight: 423 Kg

Comprising of : Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280mm. Stub end device 90mm-315mm. Complete with all accessories

PL400 CNC

Range: 90mm - 400mm

Weight: 508kg

Comprising of : Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315 & 355mm. Stub end device 90mm-400mm. Complete with all accessories

PL500 CNC

Range: 250mm - 500mm

Weight: 1100Kg

Comprising of : Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315,d355,d400 & 500mmmm. Stub end device 250mm-500mm. Complete with all accessories

PT630 CNC

Range: 315mm - 630mm

Weight: 2200Kg

Comprising of : Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315,d355,d400,D500 & 630Mm. Stub end device 315mm-630mm. Complete with all accessories

PL800 CNC

Range: 315mm - 800mm

Weight: 3500Kg

Comprising of : Basic machine c/w 2 pivoting clamps. PTFE - Coated heating mirror with thermostat. Removable electric facing tool with safety switch. Mirror and facing tool support. Reduction inserts for facing tool support. Reduction inserts for pivoting clamps d90,d110,d125,d140,d160,d180,d200,d225,d250, d280,d315,d355,d400,D500,d630 & 710mm. Stub end device 315mm-800mm. Complete with all accessories

Larger PL machines are available on request, please contact your nearest branch for details.




Cranes are available for the larger PL machines please contact your nearest branch for details.

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TECNODUE EXTRUSION WELDING MACHINES & ACCESSORIES



'ESTRO' PORTABLE 3mm/4mm ROD EXTRUSION WELDERS

HOT AIR GUN With our MG-1500 you have a complete set for hot gas welding. This set is also available for landfill version.		1500 W Hand welder MG - 1500 Round nozzle 5mm Adaptor nozzle Tracking nozzle Plastic carrying case	
EXTRUSION GUN MEK-18-S-B Hand extruders supplied from an external air source are the extruder technology of choice for shop welding applications. They are smaller and also lighter than their auto air counterparts.	Welding rate Base materials Weld material Application range Weight Length Electronic speed control Air Heater	1,8 kg/h, Ø 4 mm & 1,1 kg/h, Ø 3 mm PP / PE / PVDF 3 / 4 mm 4 - 15 mm 4,5 kg 455 mm Yes 2300w	
WEDGE - IT PLUS This "Giant" amongst our wedge welders can easily weld geomembranes from 1.0 - 2.5mm. This machine works as a standard with copper wedge, but can be adjusted to stainless steel (for PVC welding) With the special thin on this machine it is possible to switch between 220v & 110v	Weight Travel speed Voltage Consumption Material Thickness Dimension	3.5kg 06m/min 110/220 ; 50/60Hz 1200/ 1600 w PE-HD/PE-LD/Hypalon/XR-5/PVC/PP u. a 0.5 - 3mm 266x280x406mm	

* Other models are available on request.
 PLEASE CONTACT YOUR NEAREST BRANCH IF YOU REQUIRE SERVICING OR SPARES
 ♦ STOCK ITEM


TECNODUE SHEET WELDING MACHINES

TE WELDING

PF SERIES SOCKET FUSION

The range of polyolefin heat welding equipment marketed by Astore Keymak is manufactured by TECNODUE in Italy, with a dimensional range from 16mm up to 110mm. With more than 20 years of experience in the manufacture of the equipment, the quality and reliability of these machines are self-evident in the excellent reputation they have built in local and international markets.


PF063
RANGE: 16-63MM
PORTABLE SOCKET FUSION MACHINE (800watt)




PF110
RANGE : 16mm - 110mm
PORTABLE SOCKET FUSION MACHINE (1600 watt)



POLY 110 M
Range: 16mm - 110mm
Socket fusion machine
Manually operated by control lever with round pipe clamps and V-shaped fitting clamps socket depth selector with automatic setting and electronic thermostat. Essential for correct alignment repetitive welding quality control.



POLY 110 P
Range 16mm - 110mm
Hydraulically operated socket fusion machine with round pipe clamps and V-shaped fitting clamps socket depth selector with automatic thermostat. Essential for correct alignment and repetitive welding quality control



SHEET FABRICATION EQUIPMENT

SL 3000

New manually and / or CNC controlled sheet butt welding machines for PE, PP, and PVC & PVDF materials. Our experience gathered over a period of several years has led to this economic line of sheet welding machines that in spite of the price allow perfect welding according to "DVS" and other international standards. The only ones with hydraulic functions controlling the closing of the pressing bar and the machine opening and closing. The machines can manually release pressing bar's hooks. Certainly a major advantage when fabricating pipe or tanks from sheets. Particular care was taken during the design and manufacturing of the heating mirror. Temperature uniformity along its surface and flexibility being of paramount importance together with the pneumatic cylinder system to speed up the change over time. In conclusion, we felt that most outstanding feature of all is that this machine represents the best compromise between price and quality.

SL 3000
CNC controlled sheet butt welding machine for PE, PP, PVC, PVDF as well as other thermoplastic materials. Our experience gathered over a period of several years in the manufacturing of pipe and fitting fusion equipment, combined with the continuous exchange of information with our customers, has led to this state-of-the-art sheet welding machine. The only one of its kind featuring fully hydraulic functions. Unlike compressed air controlled equipment this hydraulic unit allows for a more progressive welding pressure curve as well as the fine tuning. Therefore, the welding values specified by "DVS" and other international standards can be achieved and maintained in a smooth, precise way. Besides the setting of up to 3 welding parameters (type of material, with, thickness), the machine's computers allows for both a manual and a fully automatic cycle. The end of cycle is marked by the end at the cooling time. The machine will then automatically release the pressing bar's hooks. This unique feature allows the immediate lateral removal of the welded piece from the machine. Certainly a major advantage when fabricating pipe and tanks from sheets. Only top quality parts are used on these machines, from the mechanical movements to the hydraulic system, from each piece of hardware to the computer software. Particular care was taken during the design and manufacturing of the heating mirror due to the fact that the same mirror is used to weld from 5mm to 50mm for PP. Temperature uniformity along its surface and flexibility being of paramount importance. In conclusion, we felt that the most outstanding feature of all is that this machine represents the outcome of extensive "hands on" research most of which were conducted by and with end users.

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TECNODUE SHEET WELDING MACHINES



SL 4000

New manually and / or CNC controlled sheet butt welding machines for PE, PP, and PVC & PVDF materials. Our experience gathered over a period of several years has lead to this economic line of sheet welding machines that in spite of the price allow perfect welding according to "DVS" and other international standards. The only ones with hydraulic functions controlling the closing of the pressing bar and the machine opening and closing. The machines can manually release pressing bar's hooks. Certainly a major advantage when fabricating pipe or tanks from sheets. Particular care was taken during the design and manufacturing of the heating mirror. Temperature uniformity along its surface and flexibility being of paramount importance together with the pneumatic cylinder system to speed up the change over time. In conclusion, we felt that most outstanding feature of all is that this machine represents the best compromise between price and quality.



SL4000 CNC

CNC controlled sheet butt welding machine for PE, PP, PVC, PVDF as well as other thermoplastic materials. Our experience gathered over a period of several years in the manufacturing of pipe and fitting fusion equipment, combined with the continuous exchange of information with our customers, has lead to this state-of-the-art sheet welding machine. The only one of its kind featuring fully hydraulic functions. Unlike compressed air controlled equipment this hydraulic unit allows for a more progressive welding pressure curve as well as the fine tuning. Therefore, the welding values specified by "DVS" and other international standards can be achieved and maintained in a smooth, precise way. Besides the setting of up to 3 welding parameters (type of material, with, thickness), the machine's computer allows for both a manual and a fully automatic cycle. The end of cycle is marked by the end at the cooling time. The machine will then automatically release the pressing bar's hooks. This unique feature allows the immediate lateral removal of the welded piece from the machine. Certainly a major advantage when fabricating pipe and tanks from sheets. Only top quality parts are used on these machines, from the mechanical movements to the hydraulic system, from each piece of hardware to the computer software. Particular care was taken during the design and manufacturing of the heating mirror due to the fact that the same mirror is used to weld from 5mm to 50mm for PP. Temperature uniformity along its surface and flexibility being of paramount importance. In conclusion, we felt that the most outstanding feature of all is that this machine represents the outcome of extensive "hands on" research most of which were conducted by and with end users.

The **SL/PLUS** models have been designed to allow a single operator to carry out all the operations by themselves . Nevertheless, while producing a pipe out of a sheet, the sheet rotation and fixing into machine pressing bars and difficult operations. In this view the rotating device has been designed in order to facilitate such operations by means of using a hydraulic calibre and a steel cable.

MODEL	SL3000 STD/	SL3000 STD/CNC	SL4000	SL4000 STD/CNC
Max sheet width	3000mm	3000mm	4000mm	4000mm
Range of sheet thickness				
PP	3-15mm	3-30MM	3-30MM	3-30MM
PE	3-15mm	3-30MM	3-30MM	3-30MM
PVC	3-10MM	3-10MM	3-10MM	3-10MM
Voltage	400v 50Hz	400v 50Hz	400v 50Hz	400v 50Hz
Heating Mirror	2.7Kw	3Kw	3Kw	3Kw
Power	2.7Kw	3Kw	3Kw	3Kw
Motors Power	1.4Kw	1.8Kw	1.4Kw	1.84Kw
Overall Dimensions	4.3x0.8x1.1	3.8x0.8x1.1	5.5x0.8x1.1	5.1x0.8x1.1
Weight	1750KG	1800KG	2300KG	2300KG

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* NON STOCK ITEM BUT AVAILABLE ON REQUEST