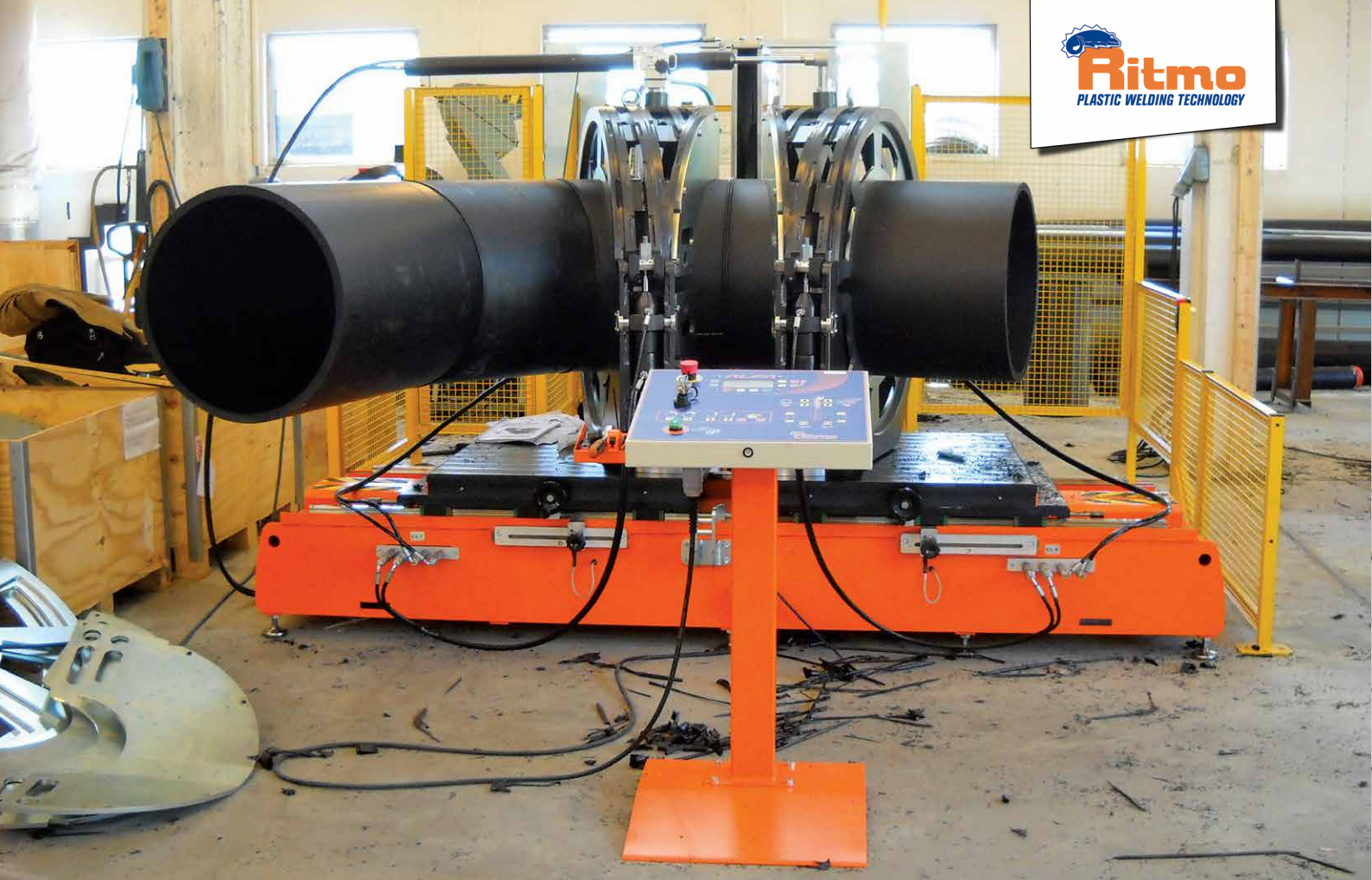




LINEA ALFA FUSION JOINT QUALITY





Model Alfa 1000

PROFESSIONAL BY CHOISE!

ALFA is our range of workshop machines designed for your needs of simplicity of use and constant quality. For elbows, Ys, Ts or crosses, the complete control over the hydraulic system gives you the security that saves you time and money while also increasing productivity. The welding range is vast and can suit your needs with a capability of welding angles from \varnothing 90 mm up to 1600 mm.

Everyone at Ritmo puts passion, experience, and quality care into its product leaving nothing for granted. We know that in your work values like performance, quality and long-term collaboration are important. Which is why we implement the same philosophy when building these machines because choosing Alfa, is a professional choice!

**HIGH
PRODUCTIVITY**

**EASY
TO USE**

**COMPLETE
SYSTEM
METRIC
INCHES**



Model Alfa 63" IPS

TECHNOLOGY FOR YOU

VERSATILE

- Material*: PE, PP
- Fittings: curves, Ys, Ts, and crosses
- Jaws made for pipe in Millimeters or Inches
- Steel Jaws
- Steel Inserts
- Vast working range
- Mange welding through the control panel
- Intuitive control panel
- Multitude of languages available

PRECISE

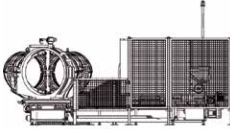
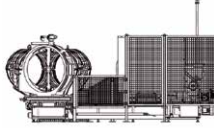
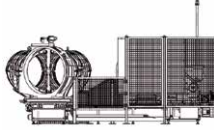
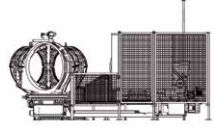
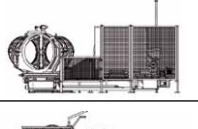


- CNC weld cycle
- Data-logging included
- Top cylinder for high pressure
- 20 personalized welding parameters memory
- Report in PDF format
- Memory of 4000 weld cycles
- Turn handles to adjust pipe alignment

COMPLETE

- Jaws with hydraulic movement
- Hydraulic jaw closing system
- Electric facer with movement on spherical guide bearings
- Heating plate with movement on spherical guide bearings
- Hydraulic connections with quick disconnect for ease of use

* For other material contact RITMO S.p.A.

CAPACITY

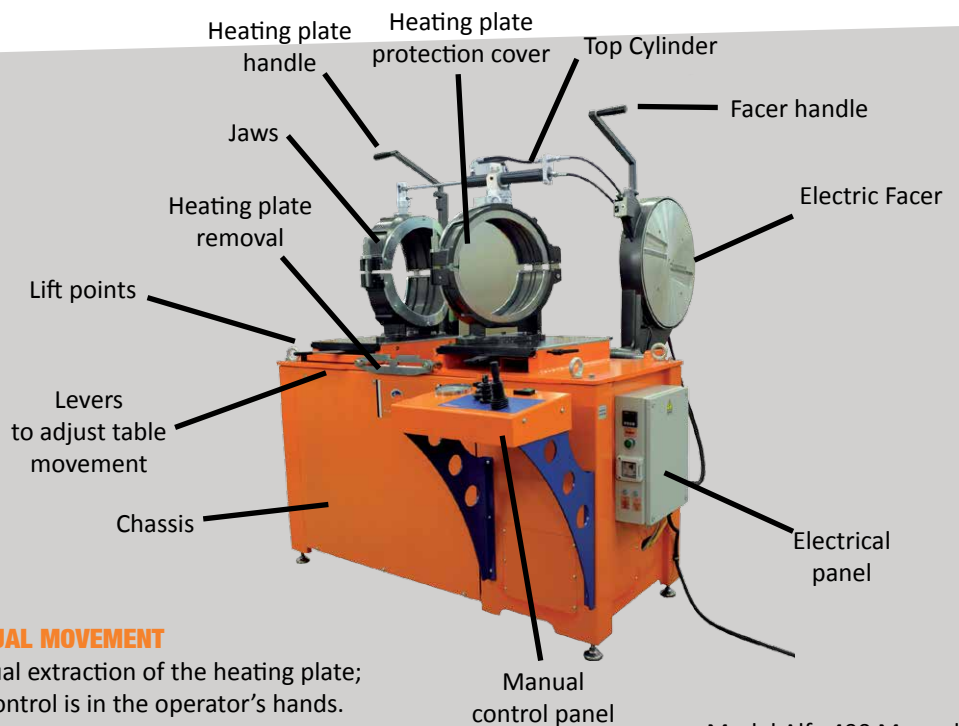
Models	Design	Elbows	Wyes	Tees	Crosses	Materials
ALFA 1600 ALFA 63" IPS		710 ÷ 1600 mm 26" ÷ 63" IPS 0° ÷ 60°	710 ÷ 1200 mm 26" ÷ 48" IPS 45° ÷ 60°	710 ÷ 1200 mm 26" ÷ 48" IPS	710 ÷ 1200 mm 26" ÷ 48" IPS	PE 80, PE 100, PE-HD, PP
ALFA 48" IPS		24" ÷ 48" IPS 0° ÷ 60°	24" ÷ 36" IPS 45° ÷ 60°	24" ÷ 36" IPS	24" ÷ 36" IPS	PE 80, PE 100, PE-HD, PP
ALFA 1200		630 ÷ 1200 mm 0° ÷ 60°	630 ÷ 1000 mm 45° ÷ 60°	630 ÷ 1000 mm	630 ÷ 1000 mm	PE 80, PE 100, PE-HD, PP
ALFA 1000		355 ÷ 1000 mm 0° ÷ 60°	355 ÷ 800 mm 45° ÷ 60°	355 ÷ 800 mm	355 ÷ 800 mm	PE 80, PE 100, PE-HD, PP
ALFA 630 T		225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS 0° ÷ 60°	225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS 45° ÷ 60°	225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS	225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS	PE 80, PE 100, PE-HD, PP
ALFA 400 EASY LIFE		90 ÷ 400 mm 4" ÷ 14 IPS 4" ÷ 14" DIPS 0° ÷ 60°	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS 45° ÷ 60°	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS	PE 80, PE 100, PE-HD, PP, PVDF
ALFA 400 MANUAL		90 ÷ 400 mm 4" ÷ 14 IPS 4" ÷ 14" DIPS 0° ÷ 60°	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS 45° ÷ 60°	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS	PE 80, PE 100, PE-HD, PP, PVDF

MANUAL SMALL DIAMETERS



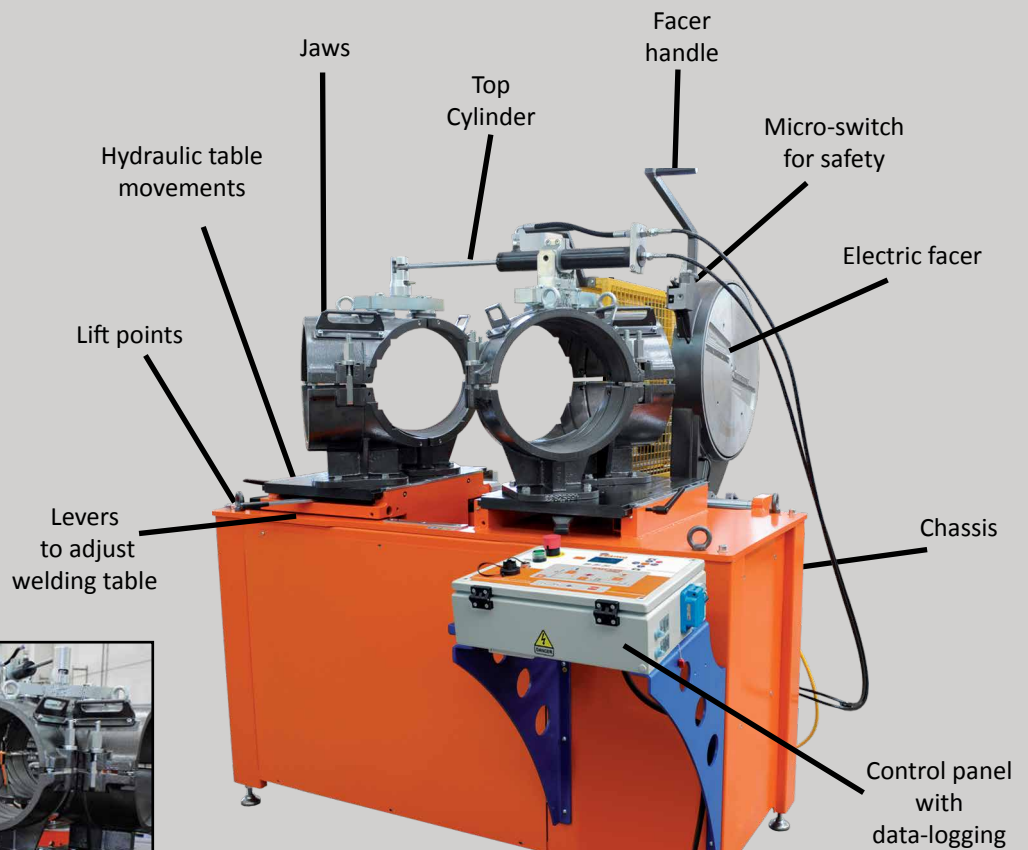
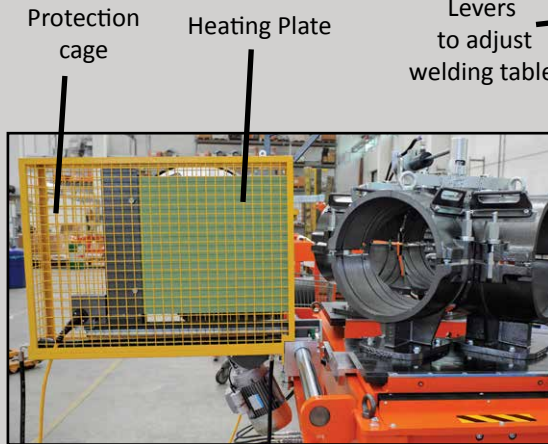
MANUAL MOVEMENT

Manual extraction of the heating plate; the control is in the operator's hands.



Model Alfa 400 Manual

SMALL DIAMETER CNC

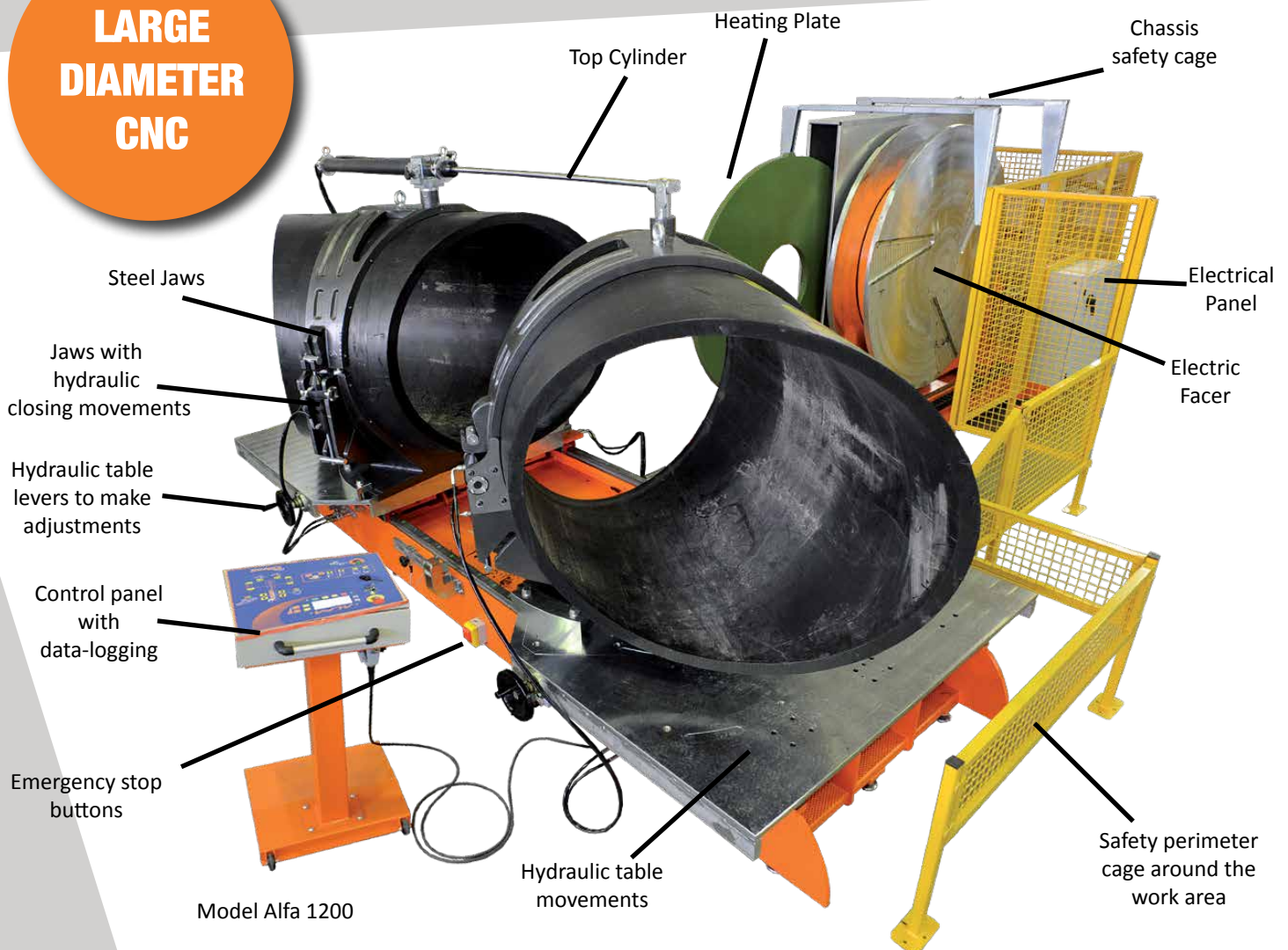


AUTOMATIC MOVEMENT

Heating plate with automatic extraction, allows for a rapid exchange phase.

Model Alfa 400 Easy Life

LARGE DIAMETER CNC



Model Alfa 1200

CNC SECURE WELDING

HOW IT WORKS

Hardware and Software are developed to integrate the entire welding cycle. Once the welding parameters have been inputted, the system guarantees an infinite repetitive process avoiding any errors. All that needs to be done is confirming each step through the control panel. Easy as pressing a button. If for any reason you have the need to change pressures while the welding cycle is in effect, the software automatically resolves it. This results in more free time for the operator for other activities adding productivity.

**DEVELOPED TO
CREATE VALUE**

QUALITY IN THE WELDS

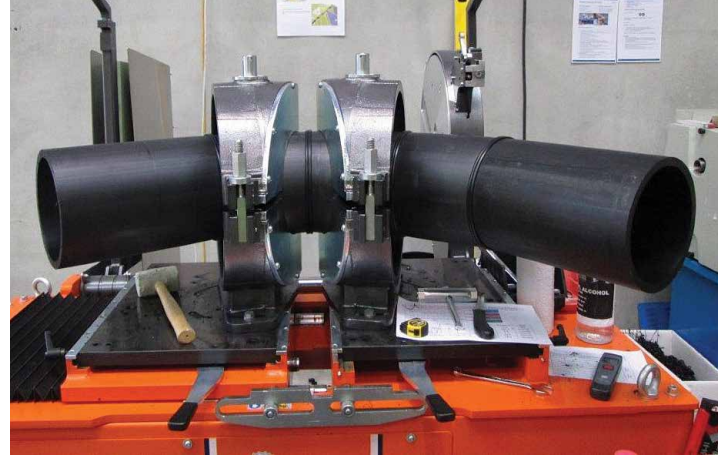
- 20 welding parameter memory for personalized use
- Welding phases monitored via Data-logging
- 4000 welding cycle memory
- Welding reports in PDF format
- Download reports via USB plug-in

www.ritmo.it





Model Alfa 400 Manual



Model Alfa 400 Manual

MANUAL BY DECISION

FREE TO CONTROL

Intuitive and easy to use control panel.

Every phase of the weld cycle is manually controlled. Operator experience is fundamental.



QUALITY ASSURED

TOP CYLINDER

The system guarantees a homogenous hydraulic push for a correct application of force on the welding surface of the pipe.

- The top cylinder uses are:
- Large wall thickness pipes
 - High pressure values

www.ritmo.it



Model Alfa 63" IPS



Model Alfa 1600



WE LIKE IT LIKE THIS!

We curate every detail and we do it with passion. We want every special piece made reflects the value of being Made In Italy - "Quality and aesthetics".

Model Alfa 1000

**ALWAYS
A GOOD
IMPRESSION**



Model Alfa 1000

THE CHARACTER DISTINCTIVE

EVERYTHING HYDRAULIC

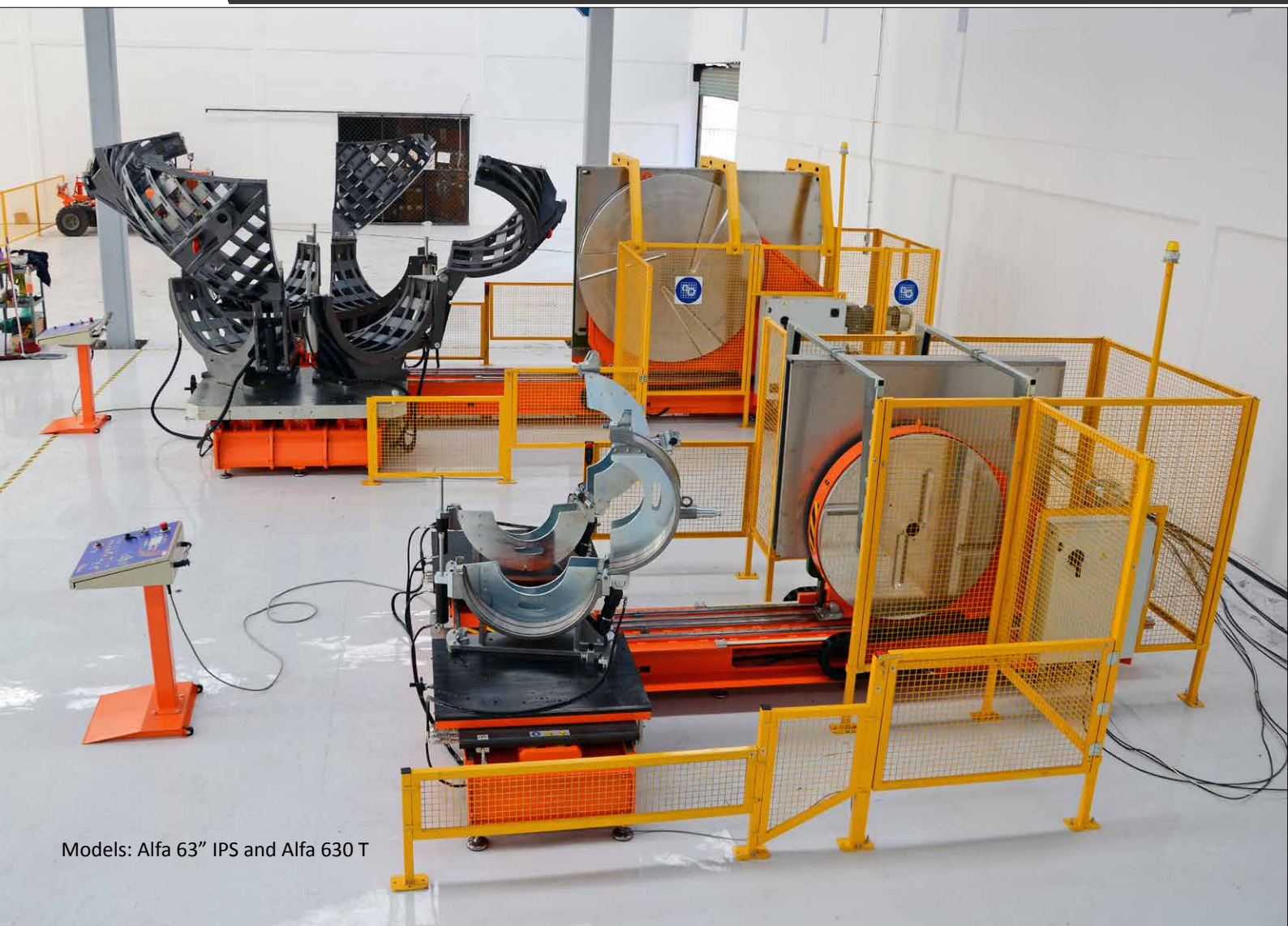
A complete hydraulic system, studied to confront execution times and rendering it easier and faster to equip the machine. Every movement of the jaws: closing/opening and fixing them in place, is handled in an intuitive way that is easy and safe for the operator by the simple click of a button on the control panel. This technology is available in all the different style of jaws; elbows, Ys, Ts, and crosses from Alfa 630 models and up.

ANOTHER ADVANTAGE

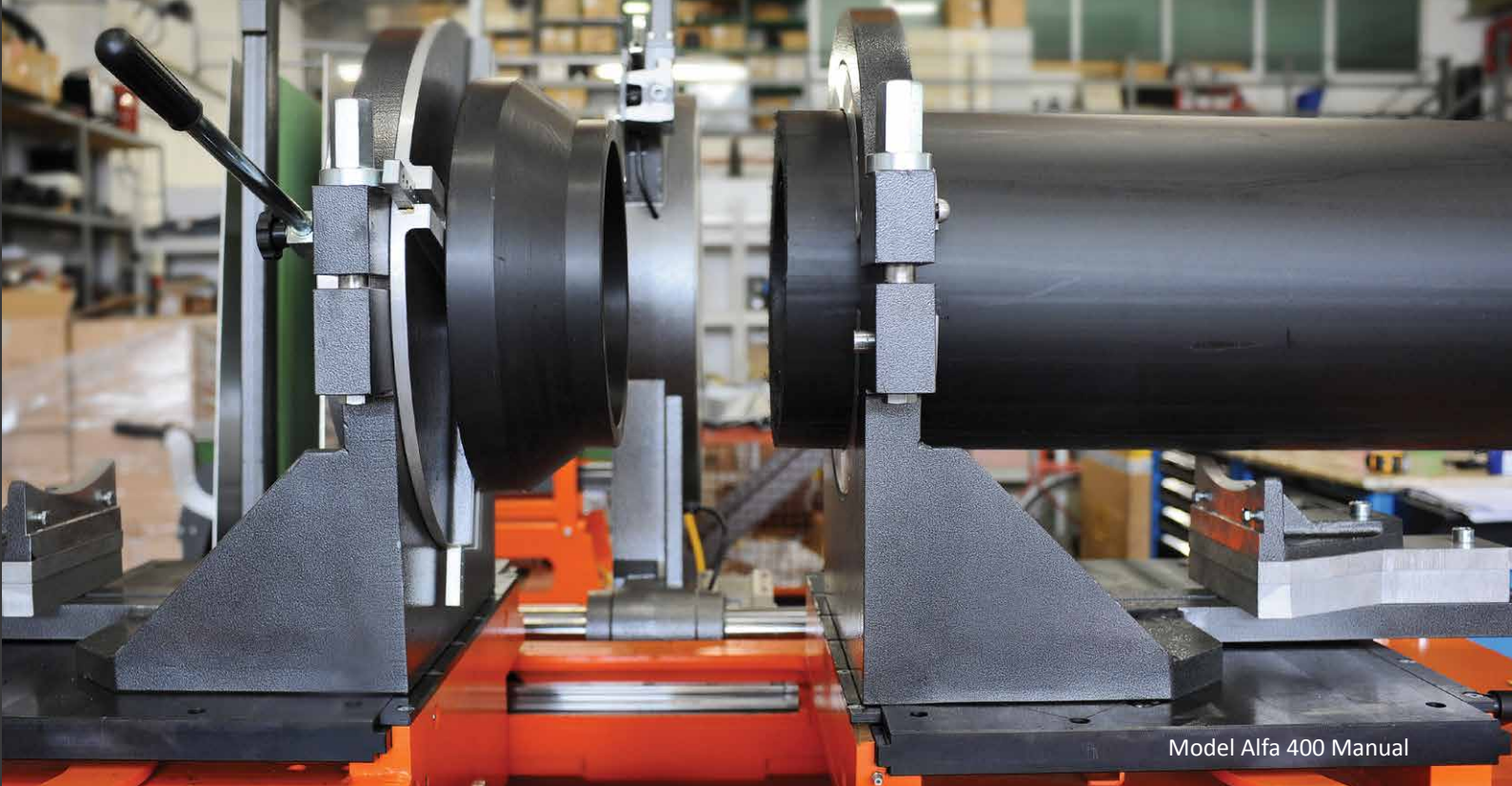
PRECISION

The hydraulic locking mechanism renders the closing/opening of the jaws a lot quicker, allowing you to make alignment adjustments along with pressure adjustments. The combination of having manual levers to regulate the table movements and being able to regulate the jaw pressure allows you to have a precise alignment for the pipe you're about to weld.

www.ritmo.it



Models: Alfa 63" IPS and Alfa 630 T



Model Alfa 400 Manual

TO MAKE IT SIMPLE

NEW FRONTIERS

Plan your necessities with the right method; coordinate your activities keeping the process in mind. New solution is what the Alfa offers. Innovation and tradition are integrated in this system.

Each phase is standardized making everything simple.



Model Alfa 1200

SAFETY FIRST

EVERYTHING VISIBLE

The basic concept of safety is this with the Alfa: make sure the operator has maximum visibility and immediate control of intervention in case anything happens. The control panel is use data safe distance from the machine. The operator is free to move around and observe all angles of the machine to always maintain control. Easily spotted and accessible are the emergency stop buttons, while the perimeter of the machine is protected by a cage that limits access to the facer and heater eliminating any risks.



Model Alfa 1600

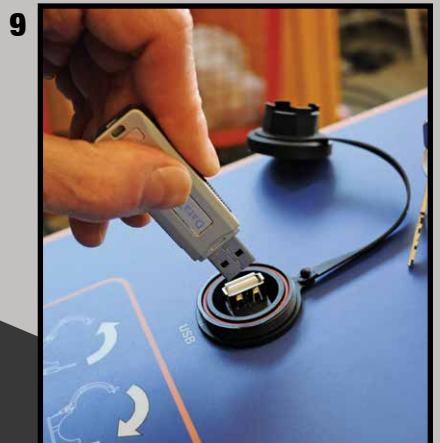
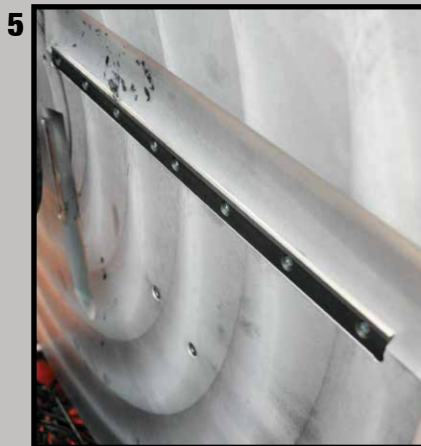
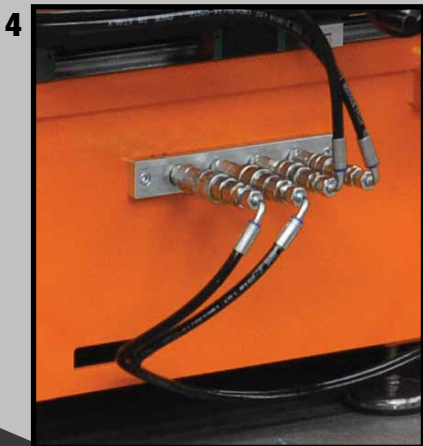
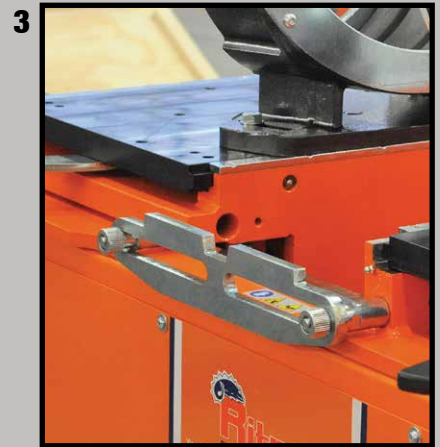
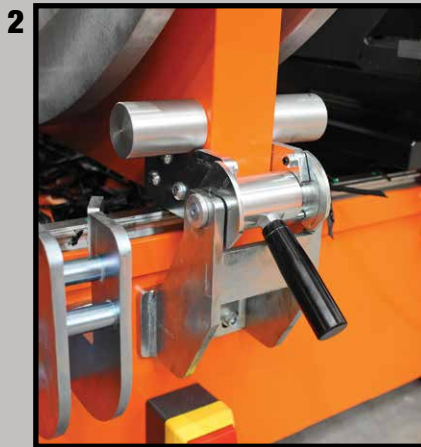
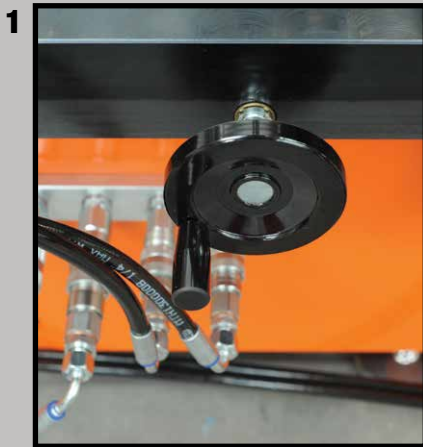


EXTRA DETAILS FOR A PERFECT JOB

EVERYTHING YOU NEED

The Alfa is equipped with a lot of small details that improve your work's efficiency.

- 1 – Horizontal alignment levers
- 2 – Locking system for the facer allows for more precision in your work
- 3 – Heating plate extraction (Alfa 400 Manual version) with CNC models, the heating plate extraction is automatic
- 4 – Jaw hydraulic connections are easily accessible
- 5 – Facer blades available for PVC material as well
- 6 – Inserts
- 7 – Thin Jaws (up to \varnothing 400 mm) for flange adapters, and elbows with reduced grip area
- 8 – Angle scales etched on the table to easily configure your welds
- 9 – Easily accessible USB port to download welding reports



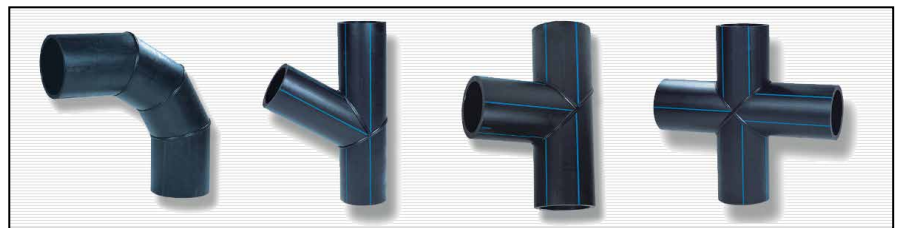
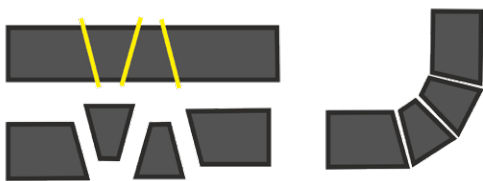
A COMPLETE SYSTEM

ASSEMBLED WITH PRIDE

Sigma Pro band saws, Alfa fittings machines.

A perfect combination, in relation: perfect cuts – impeccable welds. Sigma Pro and Alfa, products that complement each other to create a seamless job, with easy and intuitive steps. The Sigma Pro line is capable of cutting pipe with diameters up to \varnothing 1702 mm with angle measurements of -45° to $+67,5^{\circ}$.

Sigma Pro and Alfa today represent the best possible choice: the union becomes one system.

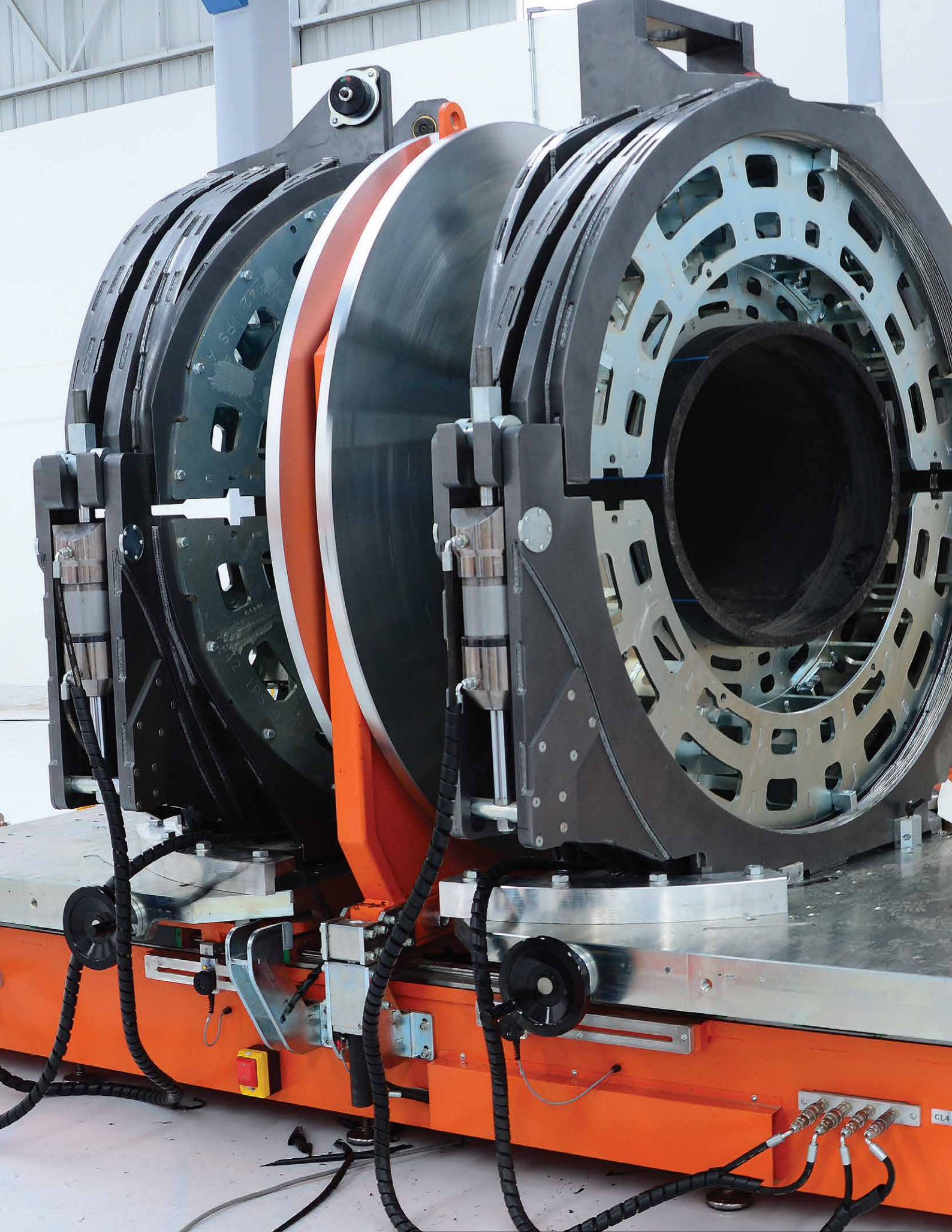


Models Alfa 630 T and Sigma 630 PRO



TECHNICAL FEATURES

	ALFA 400 MANUAL	ALFA 400 EASY LIFE	ALFA 630 T	ALFA 1000	ALFA 1200	ALFA 48" IPS	ALFA 1600 ALFA 63
Straight joints	90 ÷ 400 mm 4" ÷ 14 IPS 4" ÷ 14" DIPS	90 ÷ 400 mm 4" ÷ 14 IPS 4" ÷ 14" DIPS	225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS	355 ÷ 1000 mm	630 ÷ 1200 mm	24" ÷ 48" IPS	710 ÷ 1600 mm 26" ÷ 63" IPS
Working range Elbows Construction angle	90 ÷ 400 mm 4" ÷ 14 IPS 4" ÷ 14" DIPS 0° ÷ 60°	90 ÷ 400 mm 4" ÷ 14 IPS 4" ÷ 14" DIPS 0° ÷ 60°	225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS 0° ÷ 60°	355 ÷ 1000 mm 0° ÷ 60°	630 ÷ 1200 mm 0° ÷ 60°	24" ÷ 48" IPS 0° ÷ 60°	710 ÷ 1600 mm 26" ÷ 48" IPS 0° ÷ 60°
Working range Wyes - Tees, Crosses Construction angles	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS 45° ÷ 60°	90 ÷ 355 mm 4" ÷ 12 IPS 4" ÷ 10" DIPS 45° ÷ 60°	225 ÷ 630 mm 8" ÷ 24" IPS 8" ÷ 20" DIPS 45° ÷ 60°	355 ÷ 800 mm 45° ÷ 60°	630 ÷ 1000 mm 45° ÷ 60°	24" ÷ 36" IPS 45° ÷ 60°	710 ÷ 1200 mm 26" ÷ 48" IPS 45° ÷ 60°
Hydraulic clamps open/close	-	-	√	√	√	√	√
Hydraulic closing movements locking/unlocking	-	-	√	√	√	√	√
Thin jaws	90 ÷ 400 mm on request	90 ÷ 400 mm on request	-	-	-	-	-
Tool for flange necks	on request	on request	-	-	-	-	-
Materials*	PE 80, PE 100, PE-HD, PP, PVDF	PE 80, PE 100, PE-HD, PP, PVDF	PE 80, PE 100, PE-HD, PP	PE 80, PE 100, PE-HD, PP	PE 80, PE 100, PE-HD, PP	PE 80, PE 100, PE-HD, PP	PE 80, PE 100, PE-HD, PP
Pressure range	0 ÷ 150 bar	0 ÷ 150 bar	0 ÷ 230 bar	0 ÷ 230 bar	0 ÷ 230 bar	0 ÷ 230 bar	0 ÷ 250 bar
Reports	on request	√	√	√	√	√	√
Connections	-	USB port Type A	USB port Type A	USB port Type A	USB port Type A	USB port Type A	USB port Type A
Welding report format	on request	PDF	PDF - BIN	PDF - BIN	PDF - BIN	PDF - BIN	PDF - BIN
Memory	on request	4000 cycles	4000 cycles	4000 cycles	4000 cycles	4000 cycles	4000 cycles
Pre-set customized	-	20 cycles	20 cycles	20 cycles	20 cycles	20 cycles	20 cycles
Control panel	Fixed position	Fixed position	Adjustable position	Adjustable position	Adjustable position	Adjustable position	Adjustable position
Ambient Temperature range	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)
Power supply (Vac)	230 V Single Ph or 400 V Three ph	230 V Single Ph or 400 V Three ph	400 V Three ph	400 V Three ph	400 V Three ph	400 V Three ph	400 V Three ph
Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Absorbed power max	7400 W	7400 W	30000 W	38000 W	48600 W	48600 W	92300 W
Dimension	152 x 207 x 180 cm 60" x 81.5" x 70.8"	152 x 207 x 180 cm 60" x 81.5" x 70.8"	294 x 456 x 200 cm 116" x 179" x 78.7"	298 x 456 x 306 cm 117" x 179" x 121"	460 x 325 x 266 cm 183" x 128" x 105"	460 x 325 x 266 cm 183" x 128" x 105"	736 x 448 x 284 cm 290" x 177" x 112"
Weight	647 Kg (1426 lb)	647 Kg (1426 lb)	3000 Kg (66130 lb)	3130 Kg (6900 lb)	6120 Kg (13500 lb)	6120 Kg (13500 lb)	8800 Kg (19400 lb)



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