



ALFA 400 CNC TAB
ALFA 16 CNC TAB
NEW WELDING EXCELLENCE



A STEP FORWARD



ALFA 400 CNC TAB and ALFA 16 CNC TAB are not only the evolution of a CNC welding machine for making quality fittings from pipe segments, but a new Premium concept where “Welding and Connection” now generate a new work experience. The new graphic interface makes welding easier, while the “real-time connected” work cycle opens up new productivity scenarios for the customer.

The welding machines are managed via a 10” Android tablet mounted on an articulated and adjustable support. The graphic resolution of 1920 x 1080 pixels guarantees highly sharp images.

- ALFA 400 CNC TAB creates bends up to \varnothing 400 mm, wyes, tees or crosses up to \varnothing 315 mm and thanks to thin clamps are able to weld fittings or molded bends.
- ALFA 16 CNC TAB creates bends up to 16” IPS, wyes, tees or crosses up to 12” IPS.

WELDING STANDARDS LOADED:

- ISO 21307 (12/17) Single - Low Pressure
- ISO 21307 (12/17) Double - Low Pressure
- ISO 21307 (12/17) Single - High Pressure
- ISO 21307 (12/17) Low Pressure
- DVS 2207 /1 (08/15)
- DVS 2207/11 (02/17)
- ASTM F2620-13
- UNI 10520 (06/09) Single
- UNI 10520 (06/09) Double

EASIER

**MORE
INTUITIVE**

**BETTER
RESULTS**



EVERYTHING MADE EASY

VERSATILE

- Materials*: PE, PP
- Elbow jaws for metric pipe
- Jaws for wyes, tees, crosses**
- Jaws in IPS, DIPS**
- Metric steel inserts/reducers**
- Steel inserts/reducers in IPS - DIPS**
- Special thin Jaws**
- PVC facer blades**
- Flange neck adapter**

PRECISE

- CNC welding cycle
- Data logging included
- Customizable welding parameters
- Welding report
- Memory to save work cycles
- Pipe alignment lever
- Control Panel on Tablet
- Intuitive graphics

COMPLETE

- Fittings that can be made: curves, wyes, tees, and crosses**
- Top cylinder for high pressures or large thicknesses/SDR of the pipe
- Heating plate with automatic extraction even with the upper cylinder in use
- Connection to the customer's LAN network
- Remote connection for remote preliminary diagnostics
- USB port

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

** Accessory on request

CNC SAFE FAST WELDING

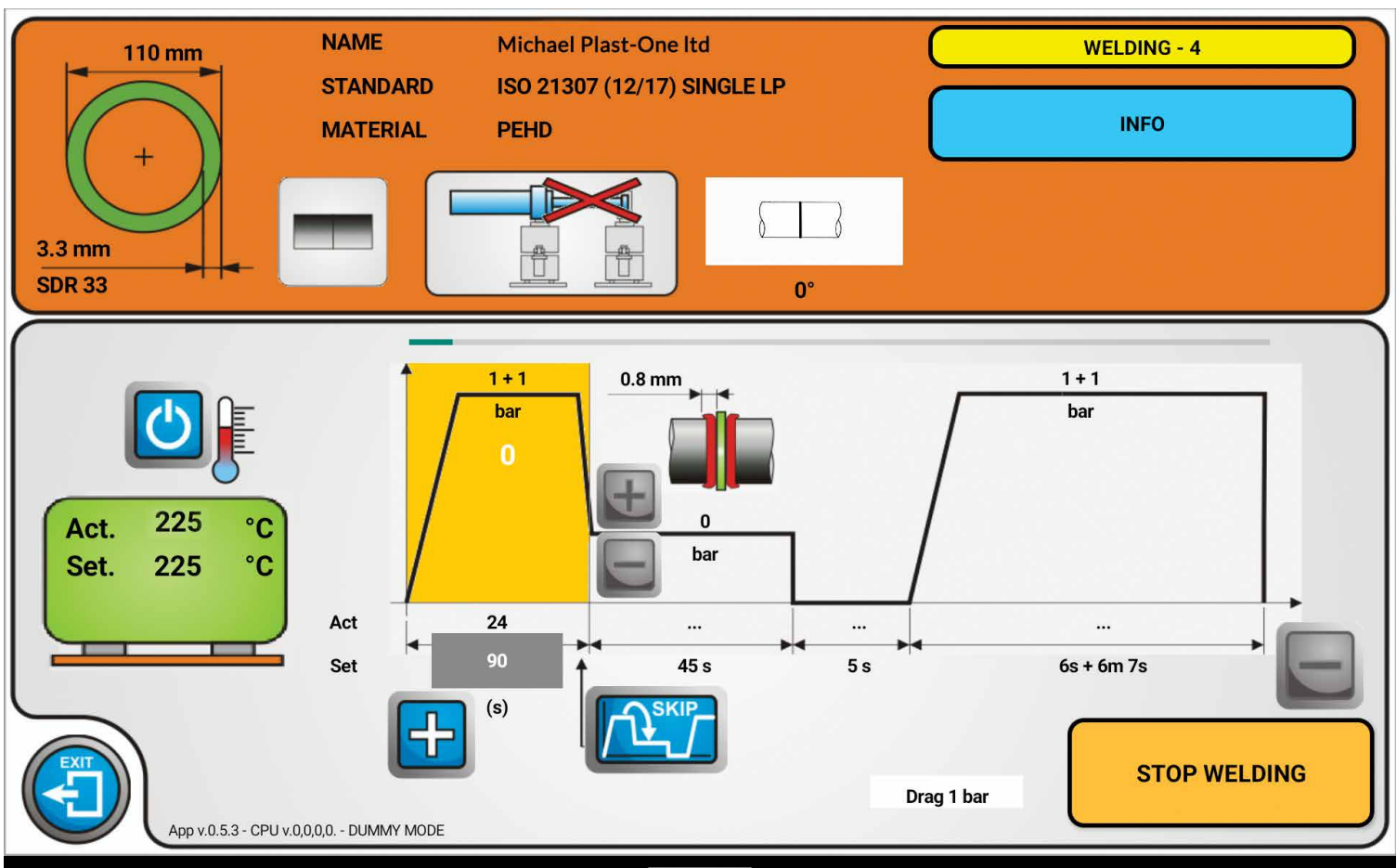
HOW IT WORKS

The operator is asked to SET-UP the welding cycle and the calculation of the drag pressure to the automatic management of the work cycle. Hardware and software communicate continuously with the exchange of information for the correct management of the work phases. The operator's function is one of control. In the exchange phase, the CNC system automatically manages the opening of the machine, the extraction of the heating plate and the subsequent joining of the pipe according to the requirements of the set standard. 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.

**CREATE
VALUE**

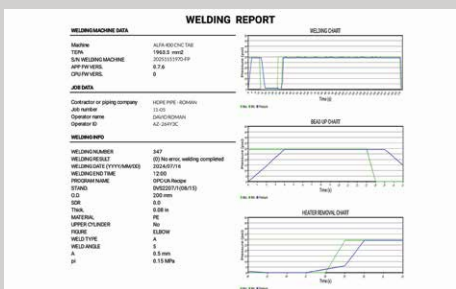
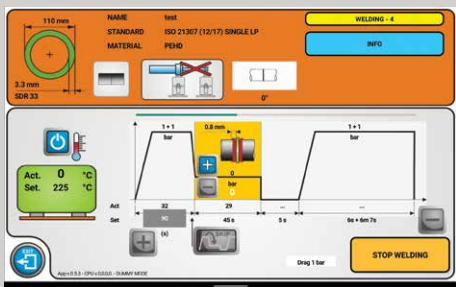
- 1 - AUTOMATIC WELDING
- 2 - ELIMINATES OPERATOR ERROR
- 3 - DATA-LOGGING INCLUDED
- 4 - PERSONALIZED PARAMETERS
- 5 - WELDING REPORT

www.ritmo.it



MORE CONNECTED WITH YOU

NEW FEATURES



A NEW MANAGEMENT OF YOUR WORK

Simplify and optimize your processes with our APP. Experience a new way of working.

SETUP AREA

Let our system guide you through the delicate setup phase in an easy and intuitive way. Just a few steps and you'll have the calculation of work parameters right away. Everything is done quickly, accurately, and ready to use. To be even faster, create a "welding archive" with your favorite configurations.

WELDING AREA

Our system automatically manages the work cycle, ensuring precise results and consistent quality over time.

OPTIONS AREA

Whether you are a solo welder or part of a team, activate additional features to work more efficiently, customized, and worry-free.

AND FURTHERMORE, YOU HAVE:

1 - EASY SHARING

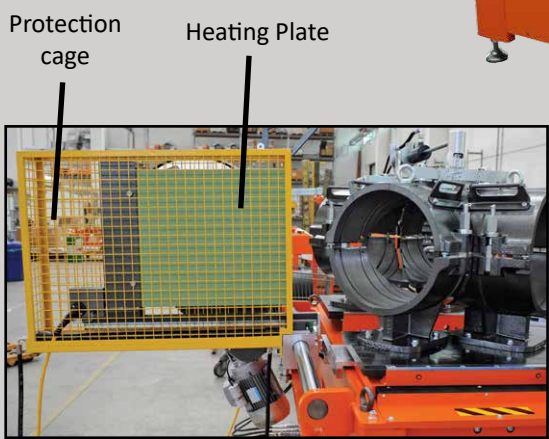
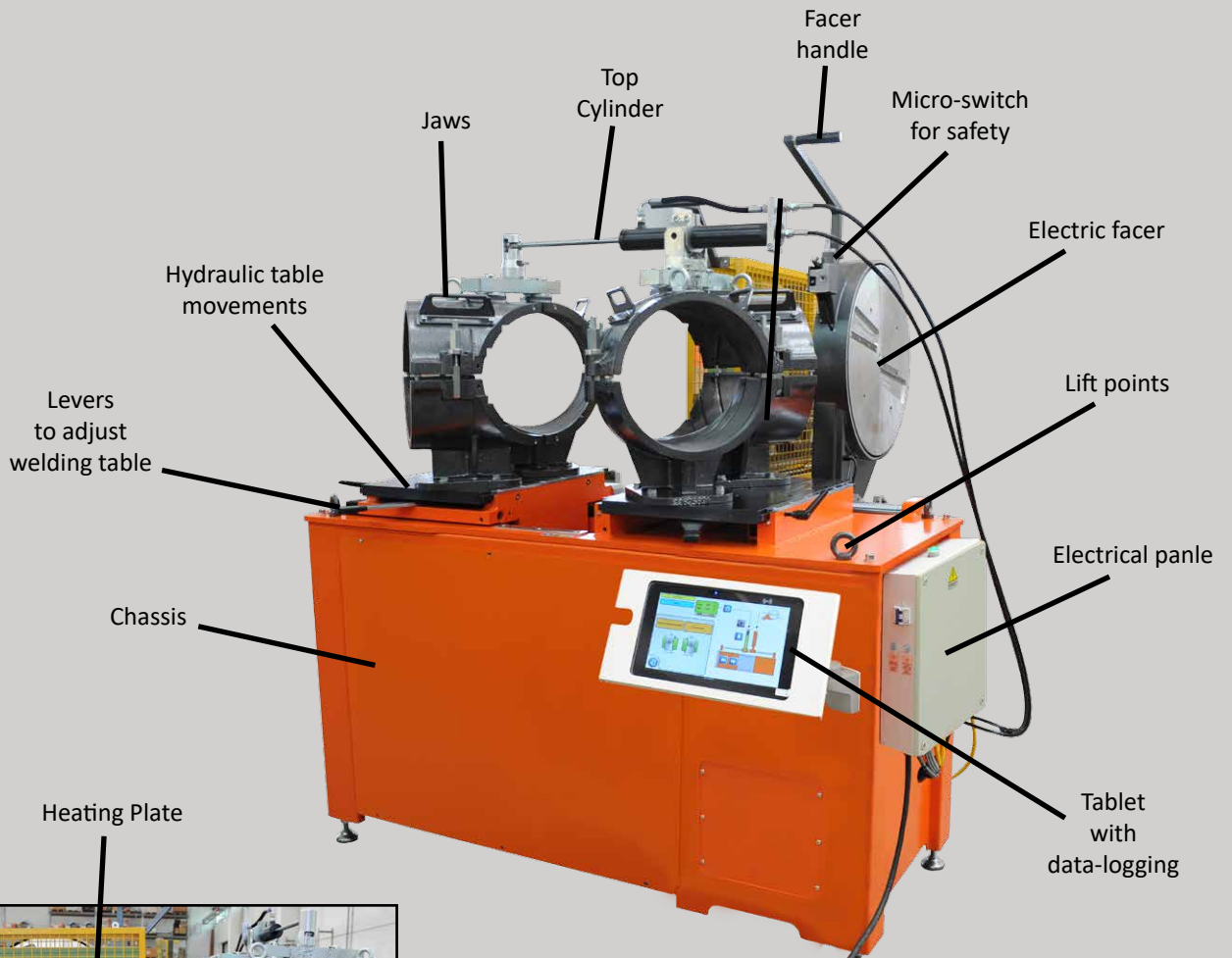
Make your work more efficient with welding reports and your preferred setup always accessible quickly and easily via data backup over Wi-Fi, email, or within a shared network folder.

2 - DIAGNOSIS AND SUPPORT

Wherever you are, our technical support is always by your side for remote, real-time diagnosis to resolve minor issues or schedule maintenance.

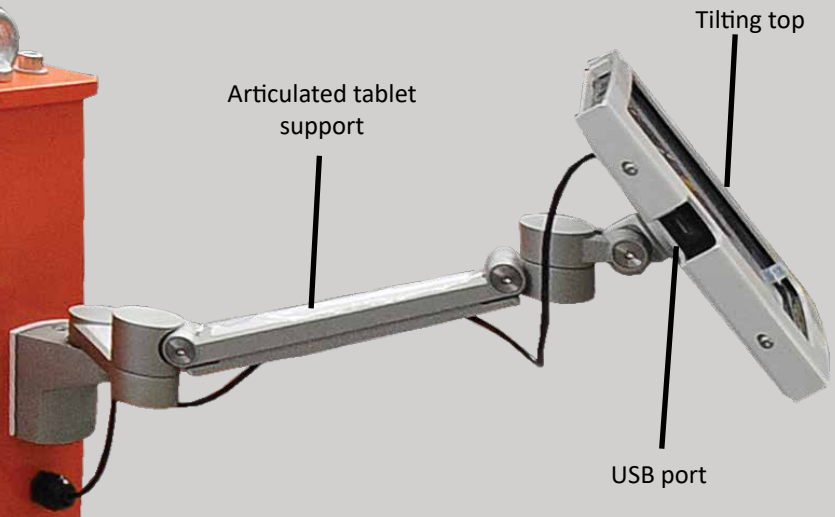
3 - A NEW VALUE (OPTIONAL)

Do you want to monitor your productivity and have a comprehensive analysis in real time? With the OPC UA module (available upon request), you can open new horizons and create new value for your work by integrating the welder into your management system. This requires technical infrastructure and specific development based on customer needs.



CNC AUTOMATIC MOVEMENT

The exchange phase is managed automatically by the welding machine with the extraction of the heating plate, the closing of the tables and the application of pressure, according to the welding requirements of the set standard.



10" IP65 touchscreen tablet
Video resolution 1920 x 1080 pixel
16:10 format

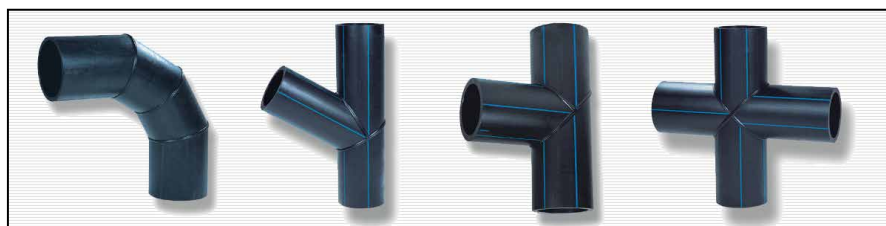
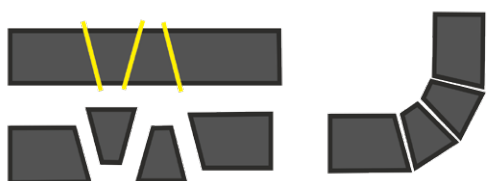
A COMPLETE SYSTEM

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.



Model SIGMA 1600 PRO



Models SIGMA 1600 PRO and ALFA 1000 CNC



ALFA 400 CNC TAB with special jaws and tool for flange necks



TECHNICAL FEATURES

	ALFA 400 CNC TAB	ALFA 16 CNC TAB
BUTT-WELDING \varnothing	90 ÷ 400 mm	4" ÷ 16 IPS 4" ÷ 14" DIPS
ELBOW/CURVES \varnothing Angles	90 ÷ 400 mm 0° ÷ 60°	4" ÷ 16 IPS 4" ÷ 14" DIPS 0° ÷ 60°
WYES,TEES,CROSSES \varnothing Angles	90 ÷ 315 mm 45° ÷ 60°	4" ÷ 12 IPS 4" ÷ 10" DIPS 45° ÷ 60°
OPENING AND CLOSING OF THE JAWS	Manual	Manual
THIN JAWS \varnothing	90 ÷ 400 mm on request	---
FLANGE NECK ADAPTER	on request	---
WELDABLE MATERIALS	HDPE - PP	HDPE - PP
WELDING PRESSURE RANGE	0 ÷ 150 bar	0 ÷ 150 bar
PORTS	USB	USB
WELDING REPORTS	√	√
MEMORY	64 Gigabytes	64 Gigabytes
FAVORITE WELD PARAMETER STORAGE	√	√
COMMAND CENTER	Tablet Android 10" IP65	Tablet Android 10" IP65
AMBIENT TEMPERATURE RANGE ALLOWED	-5° ÷ 40° C (23° ÷ 104° F)	-5° ÷ 40° C (23° ÷ 104° F)
POWER REQUIREMENTS (Vac)	230 V Single phase or 400 V Three phase	230 V Single phase or 400 V Three phase
FREQUENCY	50/60 Hz	50/60 Hz
MAX POWER ABSORPTION	7400 W	7400 W
DIMENSIONS	168 x 219 x 180 cm 5.51 x 7.19 x 5.91 ft	168 x 219 x 180 cm 5.51 x 7.19 x 5.91 ft
WEIGHT	647 Kg (1426 lb)	647 Kg (1426 lb)

ALFA 400 TAB - 230 V 50-60 Hz - cod. 92650572

ALFA 400 TAB - 400 V 50-60 Hz - cod. 92650570

ALFA 16 TAB - 230 V 50-60 Hz - cod. 92650573

ALFA 16 TAB - 400 V 50-60 Hz - cod. 92650574

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