



SIGMA 500 PRO

PERFECT CUTS



CUTS SAFELY

SIGMA 500 PRO is the new band saw designed for cutting fiberglass, HDPE, PP, PVDF, and PVC pipes with diameters up to 500 mm. It allows both straight and angled cuts ranging from -45° to $+67,5^{\circ}$.

The SIGMA 500 PRO can be equipped with a dedicated blade kit specifically for cutting PP-R pipes. Compact in size yet offering wide cutting angles and the new advancement system is maintenance-free. Handling is easy and is done by a forklift. It is a professional solution for demanding applications.

This band saw is the ideal companion for the ALFA series welding machines, enabling the fabrication of special fittings from pipe sections, such as bends, wyes, tees, and crosses.

**STRAIGHT
AND ANGULAR
CUTS**

**RANGE OF
ANGLES**
 $-45^{\circ} + 67,5^{\circ}$ mm

PRECISE



TO MAKE IT SIMPLE

MATERIALS
HDPE, PP, PP-RTC,
PVDF, PVC
FIBERGLASS

**SOLID WALL
PIPE**

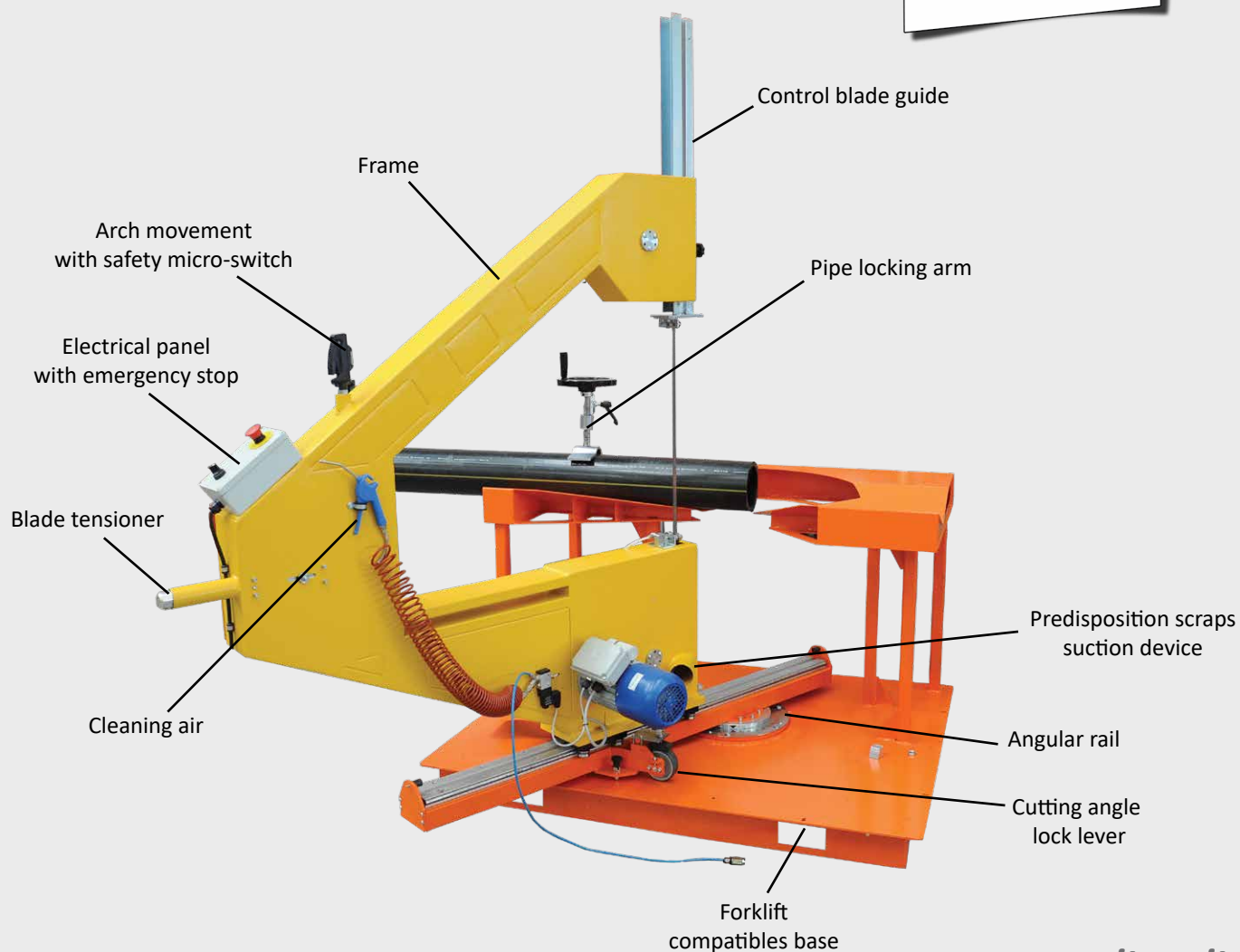
**CORRUGATED
PIPE**

**SPIRAL
PIPE**



KIT PP-R

Sigma 500 Pro has a specific kit for cutting PP-RTC pipes.



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CAPACITY

ANGLE
0°

Ø 60 ÷ 500 mm

ANGLES
- 45° + 67,5°

Ø 90* ÷ 500 mm

*With auxiliary bench for cutting Tees

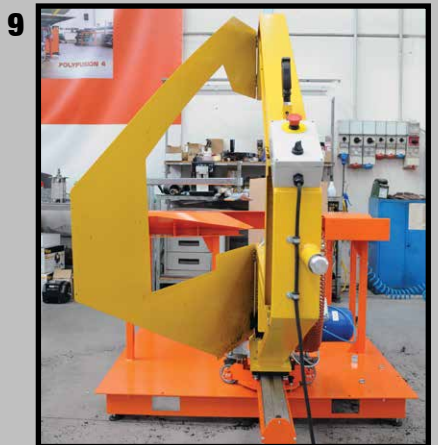
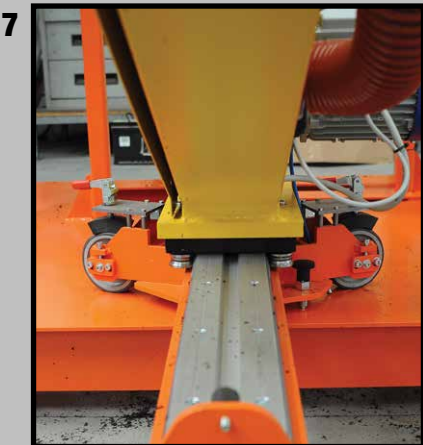
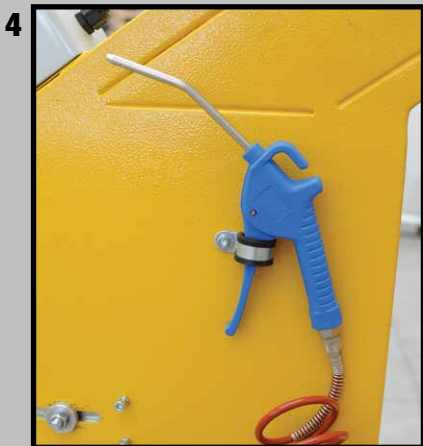
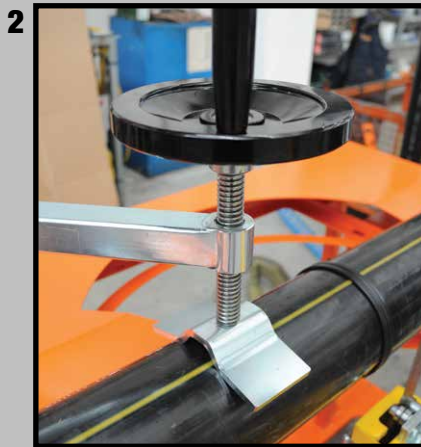
	SIGMA 500 PRO
Working range	60 ÷ 500 mm - Ø 90* ÷ 500 mm;
Angles	- 45° ÷ 67,5°
Materials	FIBERGLASS, HDPE, PP, PVDF, PVC
Power supply	400 V 3F+N+PE 50/60 Hz 230 V 3F+N+PE 50/60 Hz 230 V Single Phase 50/60 Hz
Total absorbed power	860 W
Weight	340 Kg (749,5 lb)
Dimensions	2433 x 3105 x 2333 mm 95,7" x 122.2" x 91.8"

EXTRA DETAILS FOR A PERFECT JOB

EVERYTHING YOU NEED

Sigma 500 Pro is equipped with a lot of small details that improve your work's efficiency.

- 1 – Auxiliary bench for cutting tees
- 2 – Locking pipe system
- 3 – Pipe housing bench
- 4 – Air blower for perfect cleaning
- 5 – Handle for moving with safety micro-switch
- 6 – Scraps suction device
- 7 – Lateral motion on wheels
- 8 – Graduated scale angles
- 9 – Easy maintenance

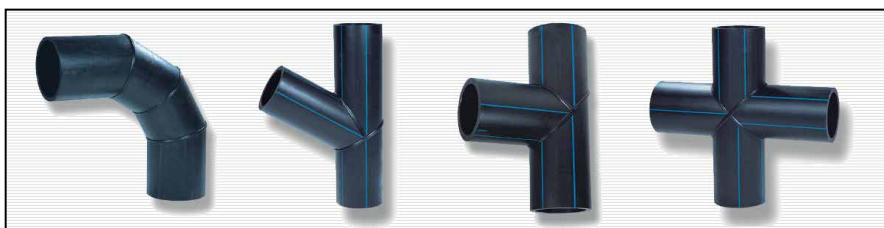
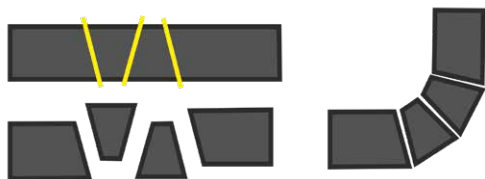


A COMPLETE SYSTEM

SIGMA PRO BAND SAWS and ALFA FITTINGS MACHINES

A perfect combination: precise cuts and high-quality welds. Sigma Pro and Alfa are products designed to complement each other, enabling seamless workflows with easy and intuitive steps. This synergy allows customers to create reliable fittings with diameters of up to 1600 mm.

Together, Sigma Pro and Alfa represent the ultimate choice: a unified system for professional excellence.



SIGMA 800 PRO



CAPACITY

ANGLE

0°

Ø 90 ÷ 800 mm
3" IPS ÷ 30" IPS

ANGLES

-30° + 30°

Ø 90 ÷ 800 mm
3" IPS ÷ 30" IPS

ANGLES

-45° + 67,5°

Ø 90 ÷ 655 mm
3" IPS ÷ 24" DIPS



SIGMA 1200 PRO

SIGMA 1600 PRO

PROFESSIONAL SAWS

Designed for pipes with large dimensions, they ensure the highest quality performance and results.

With the advanced PLC control system, operators can easily and precisely set the cutting length and angle, ranging from -45° to 67.5° , to achieve flawless results.



**PERFECTS
ON CORRUGATE
PIPE**



	SIGMA 800 PRO	SIGMA 1200 PRO	SIGMA 1600 PRO
Working range	90 ÷ 800 mm; 3" IPS ÷ 30"	200 ÷ 1290 mm; 8" IPS ÷ 48" DIPS	200 ÷ 1702 mm; 8" IPS ÷ 67"
Angles	from -45° to 67.5°	from -45° to 67.5°	from -45° to 67.5°
Materials	HDPE, PP, PVDF, PVC	HDPE, PP, PVDF, PVC	HDPE, PP, PVDF, PVC
Power supply	400 V 3F+N+PE 50/60 HZ	400 V 3F+N+PE 50/60 HZ	400 V 3F+N+PE 50/60 HZ
Total absorbed power	3400 W	4600 W	4600 W
Weight	950 Kg (2094.4 lb)	4380 Kg (9656 lb)	4690 Kg (10340 lb)
Dimensions	4340 x 3460 x 2681 mm 170.9" x 136.2" x 105.5"	7100 x 9200 x 4500 mm 279.5" x 362" x 177.2"	8600 x 11800 x 5500 mm 338.5" x 464.6" x 216.5"

COMPLETE PRODUCT

RADIUS 40-315

Sawing machine for making precise radial cuts on HDPE, PP, PVC plastic pipes.

Thanks to a sliding carriage and a graduated scale, the cutting radius can be configured quickly. The pipe fixing bench is also sliding and allows you to cut even small pieces of just 15 cm. The rotation of the saw during cutting is performed manually and in total safety by the operator using the two handles on the control panel.



**RADIALS
CUTS**



Materials	HDPE, PP, PVC
Branch pipe OD	40 ÷ 323 (1.6" x 12.7")
Main pipe OD	until 630 mm (24.8")
Minimum pipe length	15 cm (6")
Power	110 V 60 Hz 230 V 50 Hz
Maximum absorbed power	1100 W
Weight	425 Kg (937 lb)
Dimensions	1000 x 1566 x 1642 mm 39.4" x 61.5" x 64.6"

The information and photos in this publication are not binding and RITMO S.P.A. is free to make any alterations without prior notice. ED 11 / 2024

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