



SIGMA 800 PRO

PERFECT CUTS



CUTS SAFELY

SIGMA 800 PRO is the new band saw designed for cutting PE, PP, PVDF, and PVC pipes with diameters up to 800 mm. It allows both straight and angled cuts ranging from -30° to $+30^{\circ}$.

Cut preparation is quick and easy, ensuring precise results. Special attention has been given to safety, with features such as a blade-holding arm that slides on spherical bearings and operating controls positioned safely away from the cutting area. Auxiliary devices help reduce blade stress during cutting, minimizing routine maintenance.

The SIGMA 800 PRO can be equipped with a dedicated blade kit specifically for cutting PP-R pipes. Compact in size yet offering wide cutting angles, 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, slings, tees, and crosses.

**STRAIGHT
AND ANGULAR
CUTS**

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

PRECISE



TO MAKE IT SIMPLE

**SOLID WALL
PIPE**

**MATERIALS
HDPE, PP, PP-R,
PVDF, PVC**

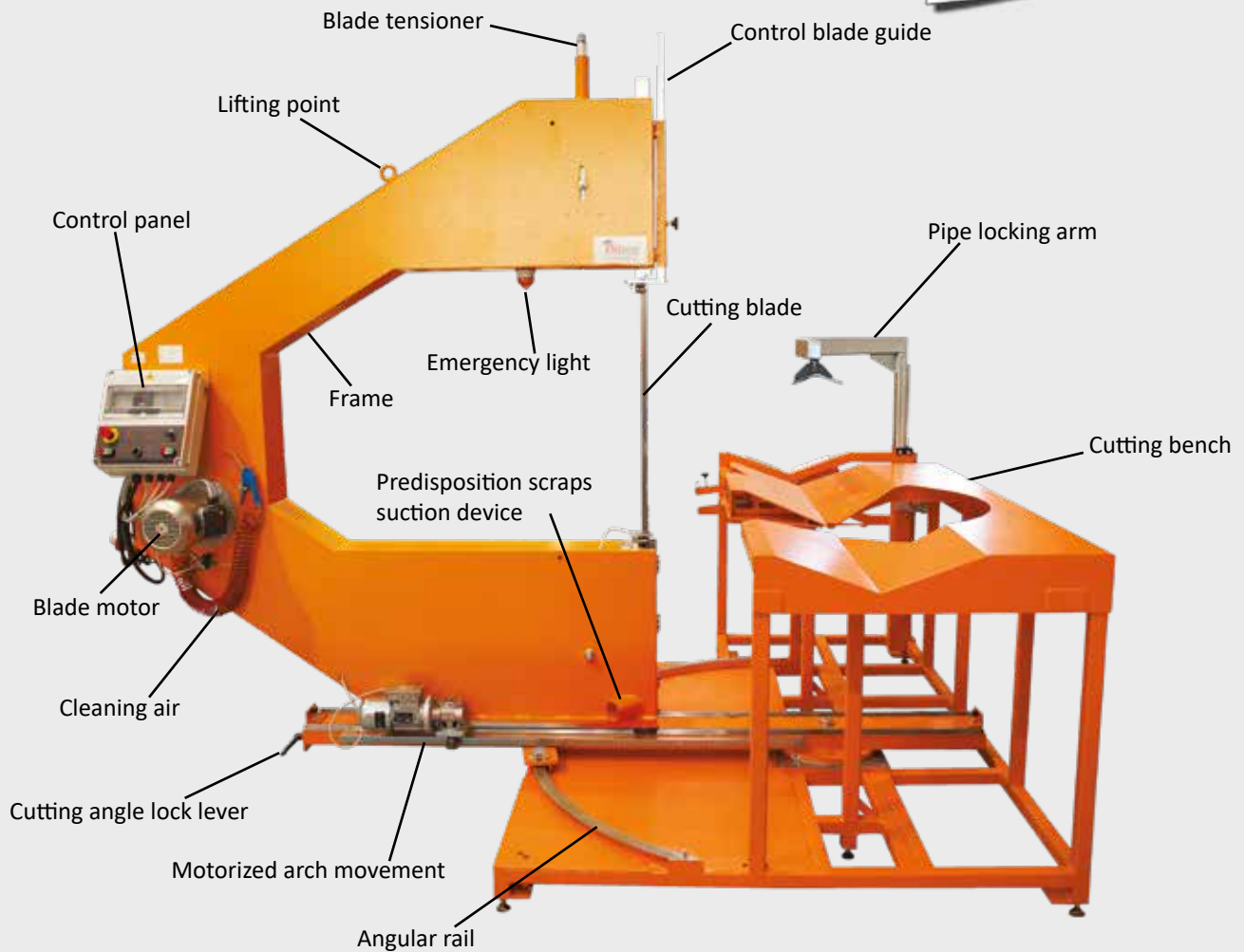
**CORRUGATE
PIPE**

**SPIRAL
PIPE**



KIT PP-R

Sigma 800 Pro has a specific kit for cutting PP-R pipes.



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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

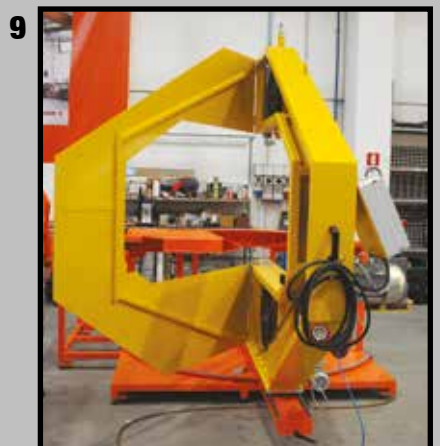
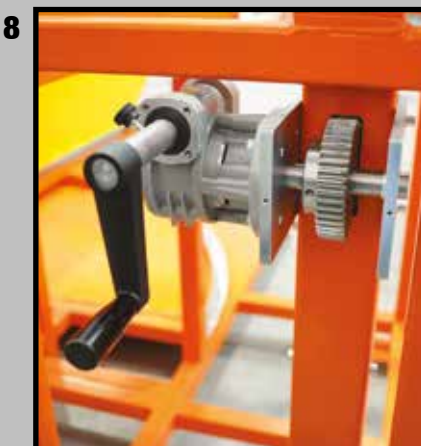
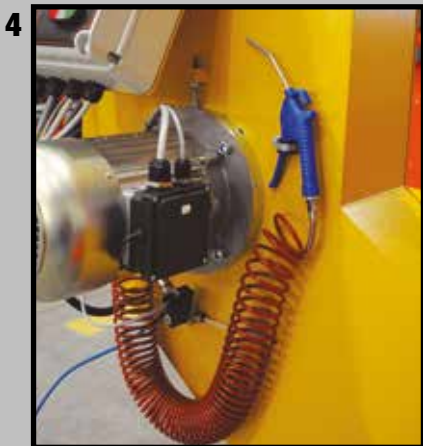
	SIGMA 800 PRO
Working range	90 ÷ 800 mm; 3" IPS ÷ 30"
Angles	See above
Materials	HDPE, PP, PVDF, PVC
Power supply	400 V 3F+N+PE 50/60 HZ
Total absorbed power	3400 W
Weight	950 Kg (2094.4 lb)
Dimensions	4340 x 3460 x 2681 mm 170.9" x 136.2" x 105.5"

EXTRA DETAILS FOR A PERFECT JOB

EVERYTHING YOU NEED

Sigma 800 Pro is equipped with a lot of small details that improve your work's efficiency.

- 1 – Auxiliary bench for cutting tees
- 2 – Control blade guide with telescopic system for precision cuts
- 3 – Pipe housing bench
- 4 – Air blower for perfect cleaning
- 5 – Easy to control cut
- 6 – Scraps suction device
- 7 – Rollers
- 8 – Locking
- 9 – Easy maintenance

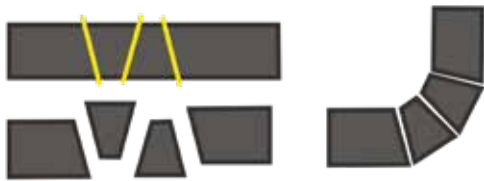


A COMPLETE SYSTEM

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 400 PRO



**SMALL
DIAMETER**

Ø 60 ÷ 450 mm
2" IPS ÷ 18" IPS



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 400 PRO	SIGMA 1200 PRO	SIGMA 1600 PRO
Working range	60 ÷ 450 mm; 2" IPS ÷ 18" IPS	200 ÷ 1290 mm; 8" IPS ÷ 48" DIPS	200 ÷ 1702 mm; 8" IPS ÷ 67"
Angles	from -30° to $67,5^{\circ}$	from -45° to $67,5^{\circ}$	from -45° to $67,5^{\circ}$
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	860 W	4600 W	4600 W
Weight	330 Kg (727.5 lb)	4380 Kg (9656 lb)	4690 Kg (10340 lb)
Dimensions	2980 x 2650 x 2290 mm 117.3" x 104.3" x 90.2"	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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