



Basic P  
Double head cutting machine



# GEMMA

## BASIC

Double head cutting machine with front blades; fixed left unit and mobile right unit with automatic movement

### STANDARD CHARACTERISTICS

#### Structure

- Electrowelded steel basement
- Feeding roller conveyor combined with mobile head
- 4 horizontal pneumatic clamps

#### Cutting unit

- Pneumatic tilting for 20°/45° / 90°/135° angles controlled by software
- Mechanical stops for intermediate angles
- Venturi cutting lubrication with pure oil
- 2 blades Ø 500 mm included

#### Axes (x-y-z)

- Axes movements controlled by brushless motors
- Mobile head movement on round guides

#### Control panel

- Latest generation electronic control unit at 1 axis on Windows PC (10,4" colour touch-screen) for interface and electronic axes management
- HICAM 2 software to upload and run machining programs; list machining and visualization of profile/workpiece data
- Ethernet, wi-fi and teleassistance
- RJ 45 – USB network ports



#### Safety

- Integral cutting area protections with automatic opening and closing
- Complies with CE safety regulations as standard

#### Electrical cabinet

- IP 55 protection

#### Cutting capacity

90°  
45°



155x155 mm  
145x145 mm



220x140 / 270x100 mm  
155x140 / 190x100 mm

#### General specifications



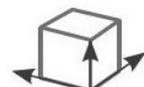
500 mm



1,8 kW (x2)



1.200 kg



6.000x1.650x1.700 mm



## TECHNICAL INFO

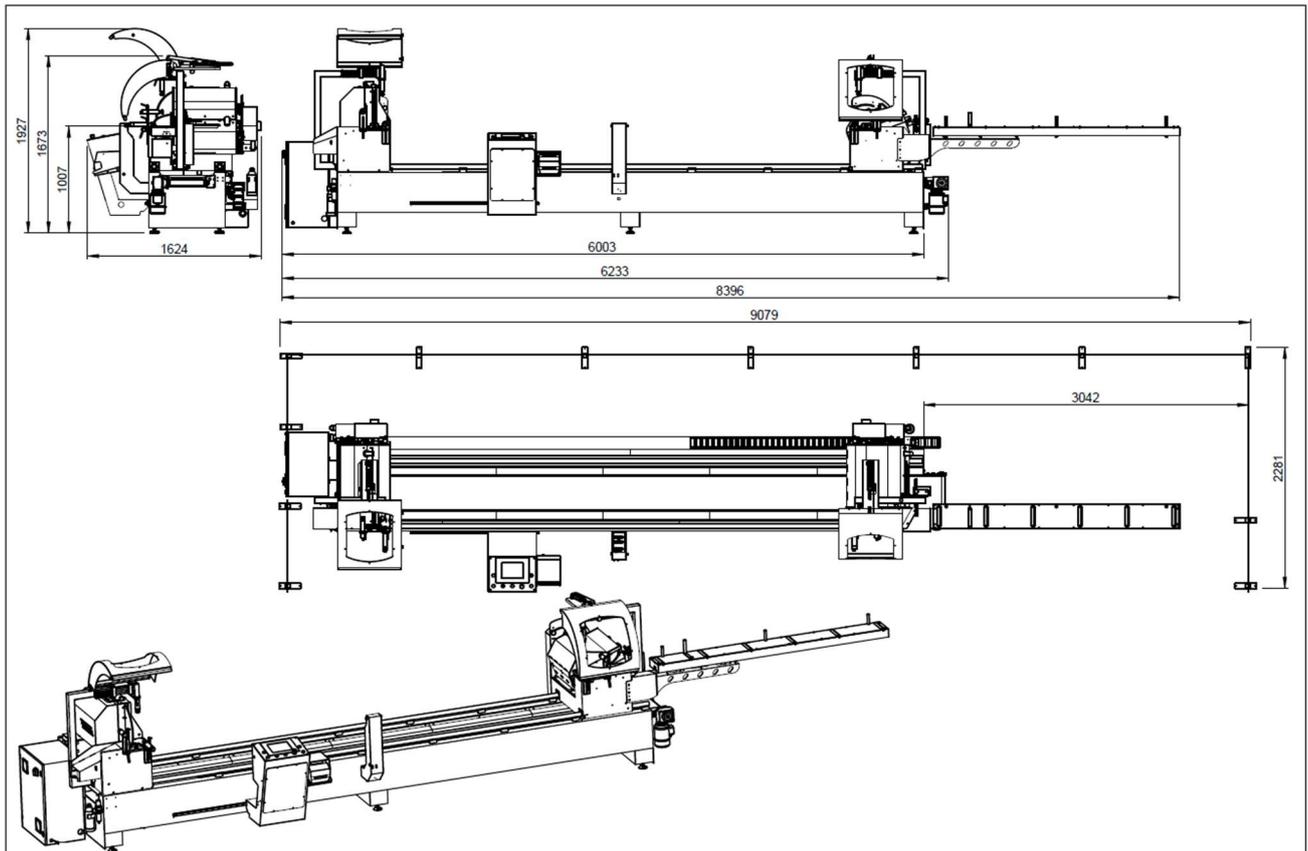
Positioning axes		Cutting unit	
X axis		Blade diameter	500 mm
Stroke	4.600 mm	Shaft diameter	30 mm
Speed	20 m/min	Blade revolutions	2.800 rpm
Y e Z axes		Max cutting speed	6 m/min
Tilting angles	20° - 135°	Blade output management	Oleopneumatic
		Motor power	1,85 kW
		Cutting angles	20°-135°

Power supply		Cutting specifications	
Electric power	400 V / 50 Hz	Minimum cutting length between 2 blades	320 mm
Air compressed supply	7 Bar	Maximum cutting length between 2 blades	4.600 mm
Air consumption per cycle	33 NI	Under and over size cuts possible by software	



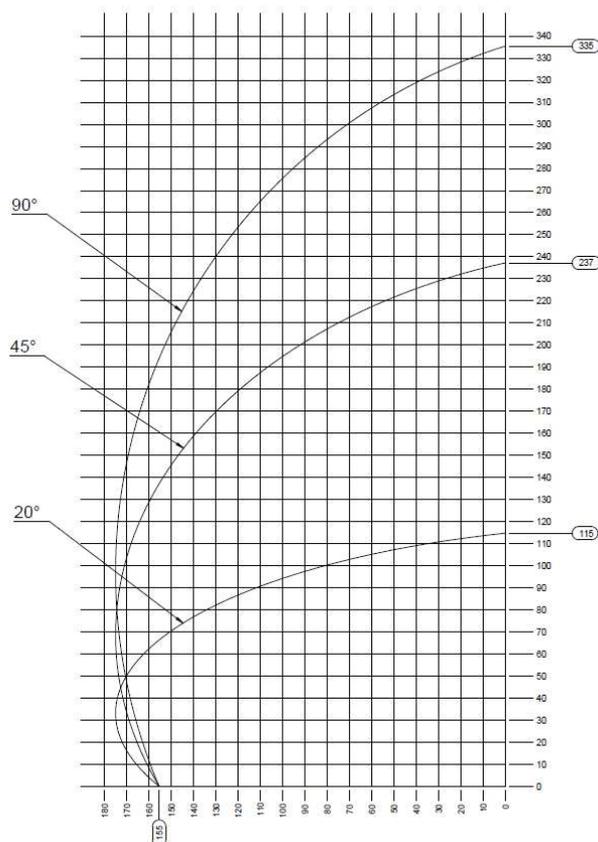
Optionals	
• Blade Ø 500 mm	• Label printer
• Central intermediate support	• Safety protection with photocells
• Profile final support	• Oil tank 25 l
• Couple of vertical clamps	• Autotransformer for special voltage (230V/480/600V)
• Motorized belt conveyor for swarf	• UL-CSA compliant components
• Automatic device measuring profile height	• Ocean freight packaging

## Cutting diagram



## Machine Layout

CUTTING DIAGRAM BASIC 500





Gemma Group srl  
Via Dante Alighieri, 6  
47853 Coriano – Rimini – Italy  
Tel. +39 0541 905811  
[www.gemma-group.com](http://www.gemma-group.com)  
email: [info@gemma-group.com](mailto:info@gemma-group.com)