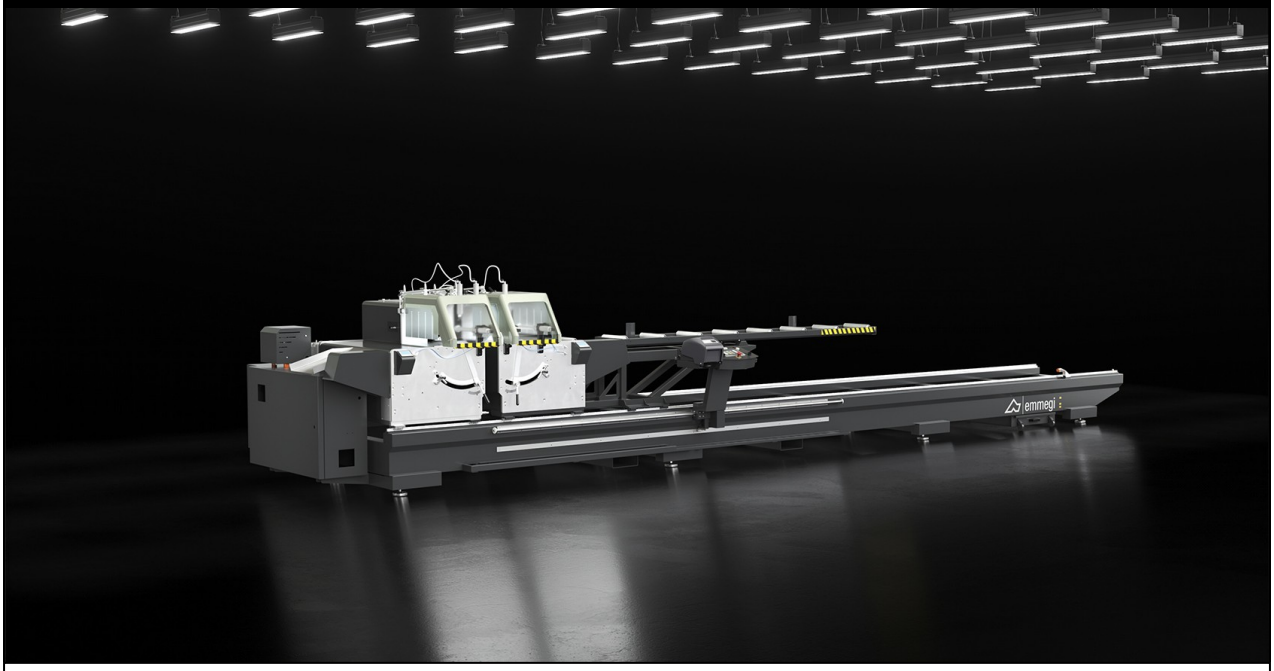
# RADIAL 550

DOUBLE MITRE-SAWS

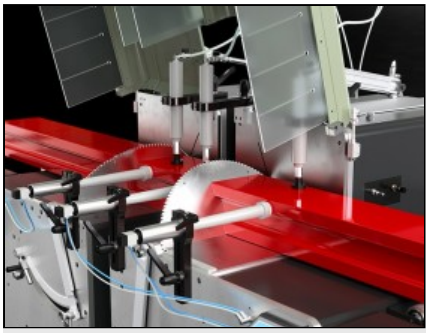



Electronic twin-head cutting-off machine with radial blade movement, automatic traverse of the moving head on recirculating ball bearings by rack and pinion system; tilting inwards up to 30°, designed for cutting large profiles. The blade feed is controled by two hydro-pneumatic cylinders.

**Emmegi S.p.A.**
Via Archimede, 10
41019 - Limidi di Soliera (MO)
ITALY

Tel +39 059 895411
Fax +39 059 566286
P.Iva/C.Fisc 01978870366
info@emmegi.com
www.emmegi.com

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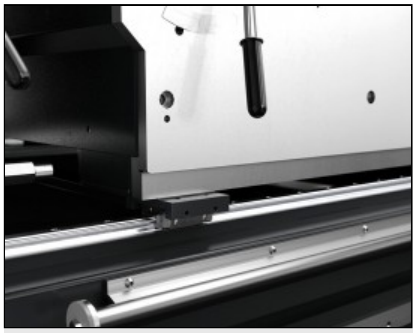
## Mobile heads tilting

The blade holder assembly, located on each of the movable heads, can be positioned by pneumatic cylinders, relative to the profile support plane of the profile, at 90°, 45°, 30° and at intermediate inward angles. Mobile units are equipped with integral pneumatic drop-down protections of the machining area.



## Control

The control panel, installed on a support sliding on bearings along the front side of the machine, allows correct mobile heads positioning in accordance with the required cutting schedule. The interface uses a 7” touch-screen and fully personalised software and is packed with bespoke functions that are unique to this machine. The machining cycle can be optimised by creating cutting lists, thereby reducing scrap and cycle times for parts loading-unloading.



## Movement on recirculating ball bearing guides

The mobile head moves along the X-axis on recirculating ball bearing guides and rails; this solution has low friction resistance so as to allow high speeds and maximum precision of movement. An absolute magnetic band positioning system ensures the correct position.

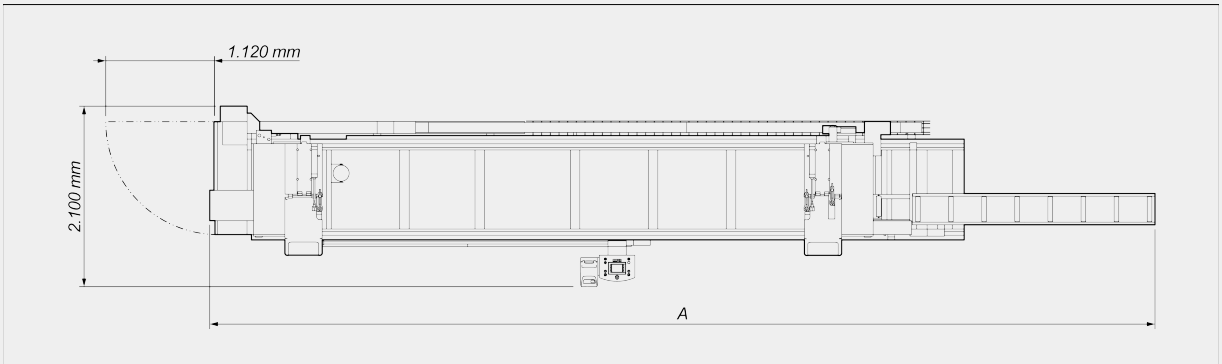
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# **RADIAL 550** / DOUBLE MITRE-SAWS

## LAYOUT




| | A |
|---|---|
| **Radial 550 - 4 m (mm)** | 8.100 |
| **Radial 550 - 6 m (mm)** | 10.950 |

The overall dimensions may vary depending on the product configuration.

## MACHINE CHARACTERISTICS

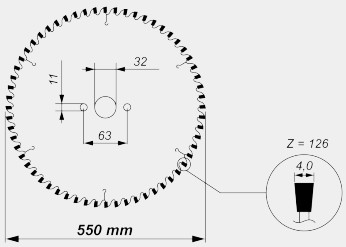
| | |
|---|---|
| Electronic control of the X axis | ● |
| X axis positioning speed (m/min) | 25 |
| Mobile head position reading with absolute magnetic strip direct measuring system | ● |
| Moving head movement on recirculating ball guides and slides | ● |
| Electronic control of intermediate angles | ● |
| Digital readouts for intermediate angles | ○ |
| Work area lighting | ○ |
| Maximum internal inclination | 30° |
| Hydropneumatic blade feed | ● |
| Effective cut, according to model (mm) | 4.000 / 6.000 |
| Standard minimum cut with 2 heads at 90° (mm) | 415 |
| Minimum cut with PLUS software with 2 heads at 90° (mm) | 335 |
| Cemented carbide blade | 2 |
| Blade diameter (mm) | 550 |
| Blade motor power (kW) | 2,2 |
| Loading surface height (mm) | 1.035 |

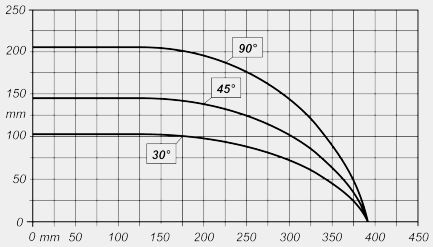
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## CUTTING DIAGRAM




## CUTTING UNIT TILTING




Electronic adjustment of intermediate angles

## SAFETY DEVICES AND PROTECTIONS

| | |
|---|---|
| Pneumatically-operated front local protection | ● |

## LUBRICATION AND SUCTION

| | |
|---|---|
| Water spray-mist lubrication system with oil emulsion or minimal diffusion oil spray-mist (depending on version) | ● |
| Pre-setting for automatic exhauster start | ● |
| Swarf drawers | ○ |

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## PROFILE POSITIONING AND CLAMPING

| | |
|---|---|
| Pair of horizontal and vertical pneumatic vices with "low pressure" device | ● |
| Profile support roller conveyor | ● |
| Additional horizontal clamp for supporting profile on mobile head | ○ |
| Additional vertical clamp for supporting profile on mobile head | ○ |
| Clamp and support for cleat cutting (90° cuts only) | ○ |
| Mechanical stop gauge for "V" cuts | ○ |
| Intermediate pneumatic profile support | ○ |

## FUNCTIONS

| | |
|---|---|
| Perform single cuts | ● |
| Execution of intermediate angles cuts | ● |
| Execution of cyclical cuts from cutting lists | ● |
| Cutting lists import | ● |
| Special cuts PLUS (extended cuts, short cuts, cleat cuts, bevel cuts) | ○ |

Included ● Available ○

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