

A solid experience

Attention to details

Customized solutions

FIMAT has been operating in the Machine Tools market for more than 30 years. The Company started its activities with retrofits and overhauling of machines tools for the automotive industry. The experience gained over the year, the technical knowledge and the skills of its personnel, beside the support of important and selected suppliers, has allowed to FIMAT to conquer its own market spots and to propose as Machine Tools Maker. Nowadays, FIMAT operates in a recently renewed 3.000 m<sup>2</sup> building, studied for all the needs of designing, management, assembling and testing of the Machines that FIMAT constructs.



## RM SPLINE ROLLING MACHINES

FIMAT is the only Italian constructor of Spline Rolling Machines with racks and it has acquired a large experience in this process. Since its foundation, FIMAT has built or refurbished more than 150 Spline Rollers and nowadays it can offer to its customers a complete package of Machine, Automation and Tools (through its partner company REFIL). The new electromechanical Spline Rollers of the RM series are the result of more than 30 years of continuous improvement.



Solid

Reliable

Durable



## Electromechanical Spline Rolling Machines with Racks

### SOLIDITY

Weighing from 9 to 13 tons depending on the model, the machines of the RM series feature baseplates made of cast iron for the best behavior under heavy duty stress, vibration damping and thermal stability.

Very quick and productive, they can ensure high quality results requiring very small corrections over hours and hours of hard work.

### DESIGN FEATURES

The racks slides are driven by Planetary Roller Screws, Torque Motors and High Resolution Absolute Encoders. The motors are directly connected to the screws as well as the encoders, in order to avoid any backlash due to elastic joints and to ensure the high precision required for the NC synchronization of the slides. NC Tailstock and headstock allow an easy management of the workpart positioning with respect to the racks. They also allow the use of bladed racks, necessary when rolling parts with Seeger grooves.

Tailstock area is protected by light curtains to ensure operator's safety in case of manual loading/unloading.

The software matches the last Industry 4.0 requirements for connectivity and data remote controlling.

### AUTOMATION SOLUTIONS

Beside the machine, FIMAT is able to offer to its customers solutions with robot or gantry for automated loading and unloading, including conveyors, fences, buffers and so on.



MODEL	RM 800	RM 1150	RM 1400
<b>Weight (kg)</b>	9500	11000	13500
<b>Dimensions (L x D x H) (mm)</b>	2900X3100X2000	3600X3200X2000	3900X3300X2100
<b>Max Slide Stroke (mm)</b>	800	1150	1400
<b>Max Racks Length (in)</b>	24	36	48
<b>Max Module</b>	1.0583	1.2700	1.5875
<b>Max Spline Length (mm)</b>	125	125	125
<b>Max workpart diameter (mm)</b>	50	50	60
<b>Max workpart length (mm)</b>	1000	1000	1000
<b>Installed power (KW)</b>	75	75	100





Worldwide solutions



Our best customers



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RM SPLINE  
ROLLING MACHINES



ELECTROMECHANICAL SPLINE ROLLING MACHINES WITH RACKS