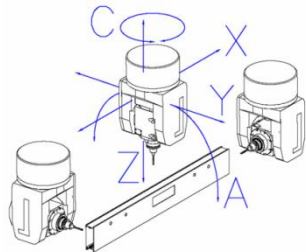
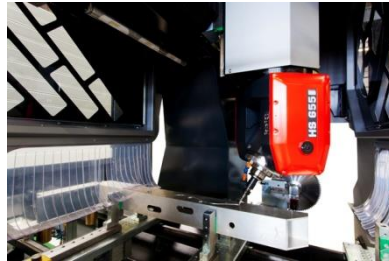


# RMC SL

Machining centre



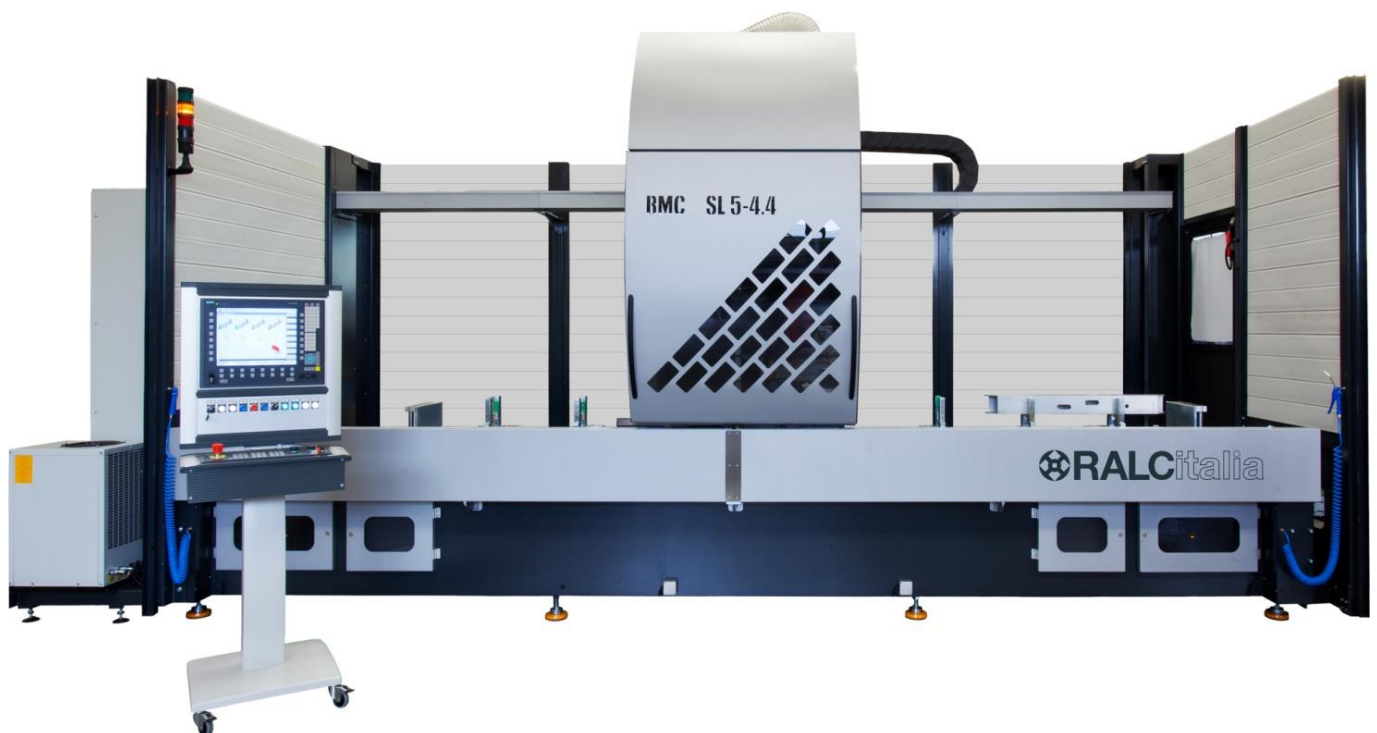
4 or 5 axis



2 axis head



Saw blade



RMC SL is the most stable CNC machining center with movable carriage of its category. It is the machine which better satisfies the most demanding requests of firms processing extrusions. The axis are fully interpolating and therefore allow optimal finishing and far above the average working speed.

It is available with 4 or 5 controlled axis, it is fully automatic and it performs drilling, milling and rigid tapping. The machine is available in three standard versions according to the X axis travelling capacity: 4.400-6.700-9.000 mm. The working area can be used exploiting the full length of the center (single zone mode) or two independent zones. The RMC SL center is equipped with a remote assistance system on IP network.



Tool magazine



Automatic length measurement



CNC Control

# RMC SL

## Machining center



Clamps	Electrospindle	Tool magazine	Strokes	CNC Control
The number of clamps depends on the length of the center and on the processing needs. Their positioning is executed by the movable carriage, their height can be set from the control console. The clamps travel along the entire X axis if the center works in single zone mood. The independent closing of the clamps can be controlled during the charge of the parts.	The 12 kW S6 electrospindle with high torque allows the execution of hard processing which are typical of the industry. The spindle is cooled with a fluid system, which allows its use for steel extrusions and for aluminium profiles. The tool is lubricated with an minimal oil diffusion system which is directly controlled by the numerical control.	The tool magazine is integrated in the control console and moves together with the electrospindle. Since it is not in a fixed position, the tool change is very fast. The standard system with arm is typical of the traditional machine tool and permits a strong reduction of the time needed for the tool change.	At the end of the machine strong and rigid strokes are used as reference point of the bar. Each stroke is driven by a pneumatic cylinder and can disappear. It is automatically selected from the machine software, depending on the machining to be executed. The central strokes can be provided as optional.	The industrial CNC is open and limitless. It can be ECS (YASKAWA motors) or SIEMENS (SIEMENS motors). The control pulpit is assembled on a mobile support. The user interface is a 15" color display with USB keys to interface with PC and CN with button strip. Mouse, button strip and remote handwheel are available upon request.
<b>AXIS</b>				
Axis number		4 or 5		
Useful travel of X axis		4.400-6.700-9.000 (mm)		
Useful travel of Y axis		600 (mm)		
Useful travel of Z axis		400 (mm)		
Useful travel of A axis (version with 5 axis)		± 120 (°)		
Useful travel of C axis (version with 5 axis)		± 240 (°)		
Traverse speed of X axis		80 (m/min)		
Traverse speed of Y axis		55 (m/min)		
Traverse speed of Z axis		30 (m/min)		
Rotating speed of A axis		30 (°/sec)		
Rotating speed of C axis		50 (°/sec)		
<b>ELECTROSPINDLE</b>				
Max. S6 power (kW)		12		
Max. power (rev/min)		24.000		
Tool holder		HSK F63		
Cooling system		fluid		
<b>TOOL MAGAZINE</b>				
Max. number of tools in the magazine		12 o 20 (revolving magazine available as optional)		
Maximum diameter cutting blade for butts		500 (mm)		
Max. tool length		200 (mm)		
<b>MACHINE SPECIFICATIONS</b>				
Max. size of the profile which can be machined on 5 sides		400 x 300 x 6500 (with projecting miller 40 mm on L=6700)		
Max. tolerance of repeatability		± 0,07 (mm)		
Working possibilities		Single or double zone (max. 2 pieces)		
Material to be machined		aluminium, light alloy, steel profiles with max. thickness 5 mm		
<b>STANDARD EQUIPMENT</b>				
Strokes		2 or 4		
Clamps automatic shift		Through portal movement		
Chips removing conveyor		Oil and wear resistant		
Tool preset		Length measurement (diameter measurement as optional)		
Remote assistance		With internet connection		
<b>OPTIONS</b>				
<ul style="list-style-type: none"> <li>• Customised clamps group</li> <li>• Spindle for tube rotation</li> <li>• Smoke suction system</li> <li>• Soundproof cabin</li> </ul>		<ul style="list-style-type: none"> <li>• SIEMENS or ECS numeric control</li> <li>• Hydraulic clamps</li> <li>• Automatic charging and discharging system</li> <li>• Programming Software</li> </ul>		

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