



MOVING COLUMN VERTICAL MACHINING CENTER

ROMI **DCM 3000**



ROMI Industrial Complex, in
Santa Bárbara d'Oeste - SP, Brazil

INNOVATION + QUALITY

ROMI: Since 1930 producing high technology.

Since its foundation, the company is recognized by its focus on creating products and innovative solutions which guarantees its technological leadership among big manufacturers of machine tools market. ROMI industrial complex is among the most modern and productive ones in the segments of machine tools, plastic processing machines and cast iron parts of high quality.

Continuous investments in Research & Development result in products with state-of-the-art technology.

The high technology applied to Romi machines offer highly reliable products, with high accuracy, efficiency and great flexibility for several types of machining processes.

Romi R&D is focused on increasing competitiveness for its customers.

Present throughout Brazil and in over 60 countries.

Romi covers all domestic territory through its sales subsidiaries network fully prepared to support customers supplying an extensive range of services from marketing to after sales.

International market is covered by its subsidiaries located in United States, Mexico and Europe and also by its dealers network located in strategic logistic centers around the globe completely capable for serving customers in 5 continents.



Final assembly of machine tools



ROMI DCM 3000

| ROMI DCM 3000

Flexibility for machining long and heavy parts with high geometric precision.

The moving column vertical machining center ROMI DCM 3000 provides an efficient answer for a wide range of manufacture requirements. Equipped with fixed working table, allows machining long and heavy parts without any changes of machine geometrical accuracy,

due to robust structure that offers excellent efforts and vibrations absorption. Thanks to the concept of fixed bed the machine provides great ease for hydraulic and pneumatic devices applying.

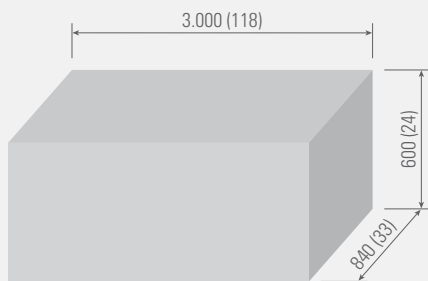
Flexibility for machining aerospace and railway components, large machines structures, etc.



- Headstock: 10.000 rpm
- Spindle taper: ISO 40
- Main motor: 30 hp / 22 kW
- 40 tools capacity magazine
- Fixed table: 3.200 x 840 mm (126 x 33")
- CNC: Siemens Sinumerik 828D

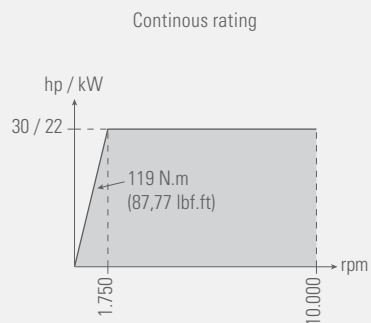
ROMI DCM 3000

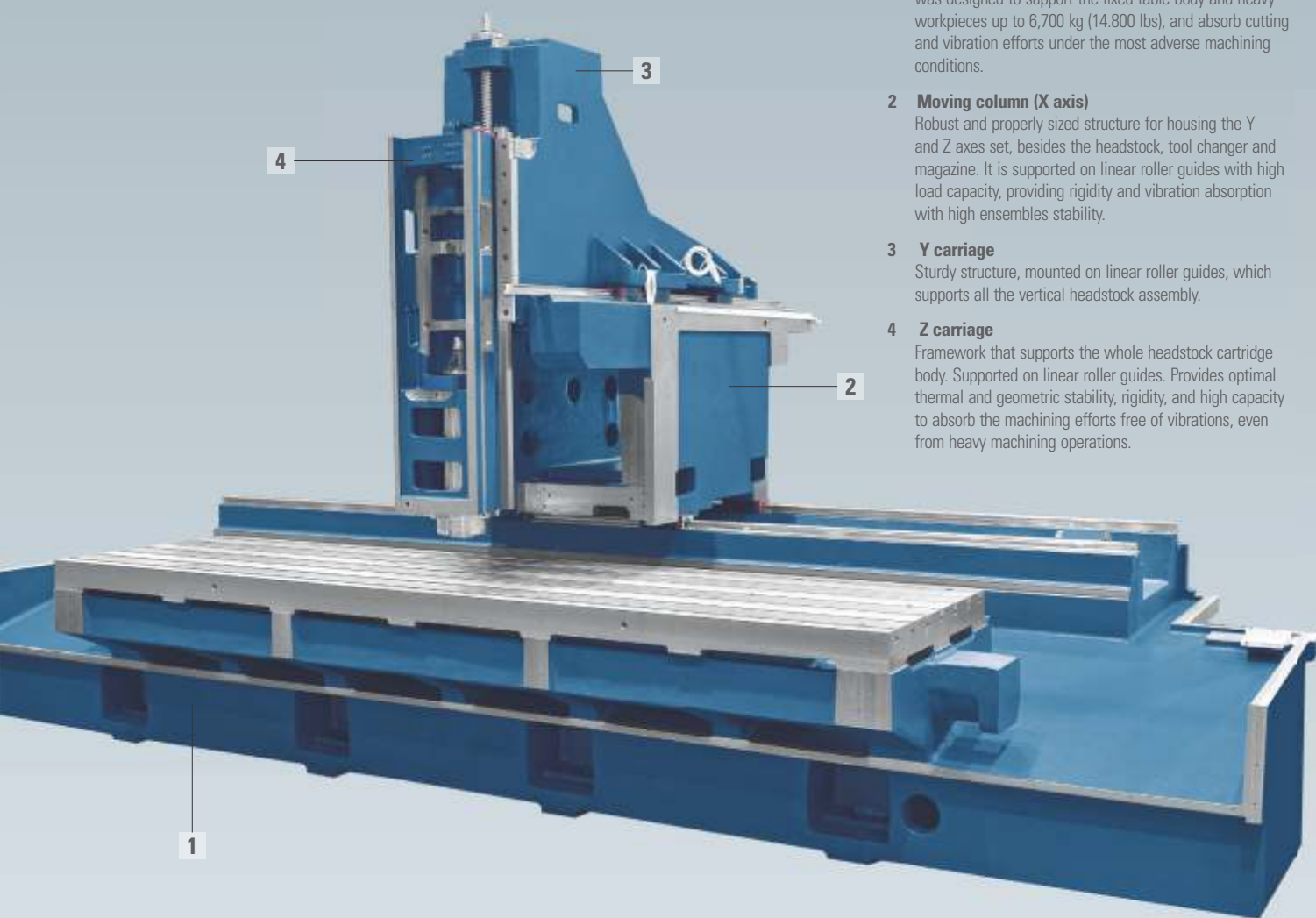
Travels



Dimensions in mm (in)

Power Graphs





1 Base with fixed table

Wide monobloc structure, cast iron constructed, that houses the table and the moving column set. Its structure was designed to support the fixed table body and heavy workpieces up to 6,700 kg (14.800 lbs), and absorb cutting and vibration efforts under the most adverse machining conditions.

2 Moving column (X axis)

Robust and properly sized structure for housing the Y and Z axes set, besides the headstock, tool changer and magazine. It is supported on linear roller guides with high load capacity, providing rigidity and vibration absorption with high ensembles stability.

3 Y carriage

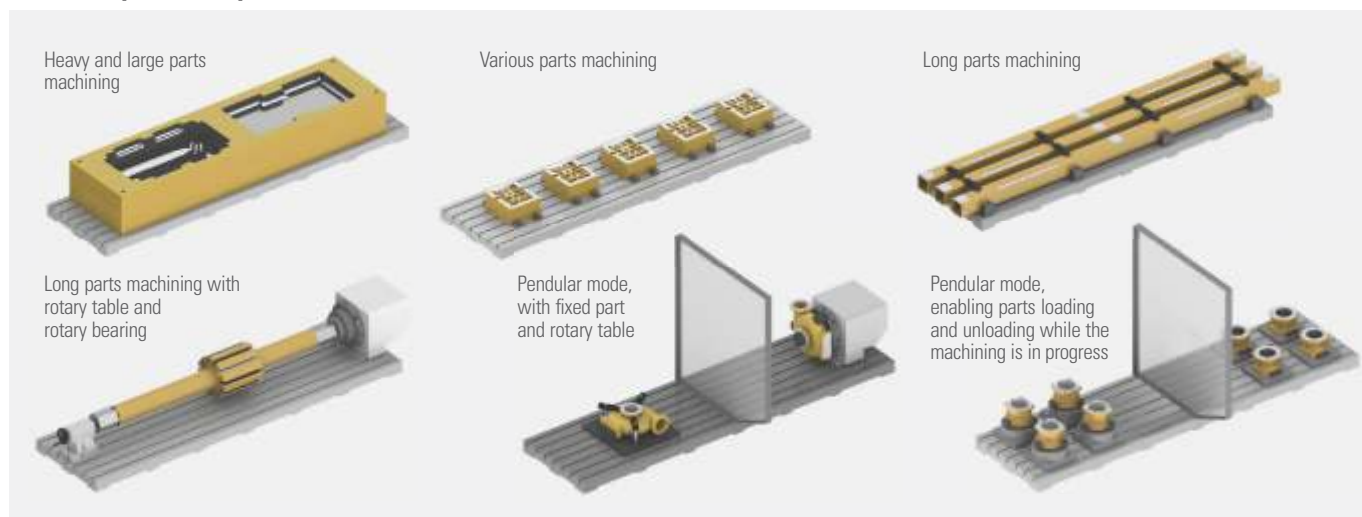
Sturdy structure, mounted on linear roller guides, which supports all the vertical headstock assembly.

4 Z carriage

Framework that supports the whole headstock cartridge body. Supported on linear roller guides. Provides optimal thermal and geometric stability, rigidity, and high capacity to absorb the machining efforts free of vibrations, even from heavy machining operations.

STRUCTURE

Machined parts examples



Headstock

Robust cartridge with spindle supported on high-precision bearing. Allows high speeds, ensuring performance even under severe cutting conditions. Shows excellent running accuracy, with minimum temperature rise of bearings, even when operating in continuous regime at high rpm.



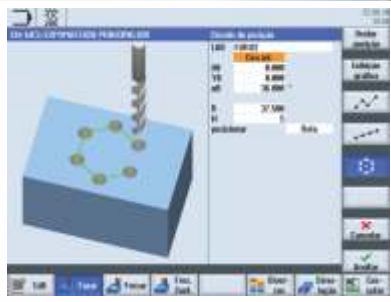
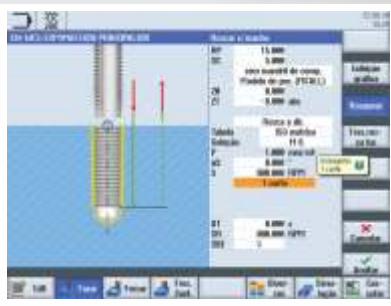
TOOL CHANGER

Efficiency and productivity

Double arm automatic tool changer, fast, accurate and reliable, which increases productivity and gives machining efficiency.

Magazine prepared for tool shanks BT / BBT 40, up to 40 tools capacity, where all the mechanical assembly is built into the column, near the spindle, bringing as benefit minimized changing times.





CNC

Technology, performance and reliability

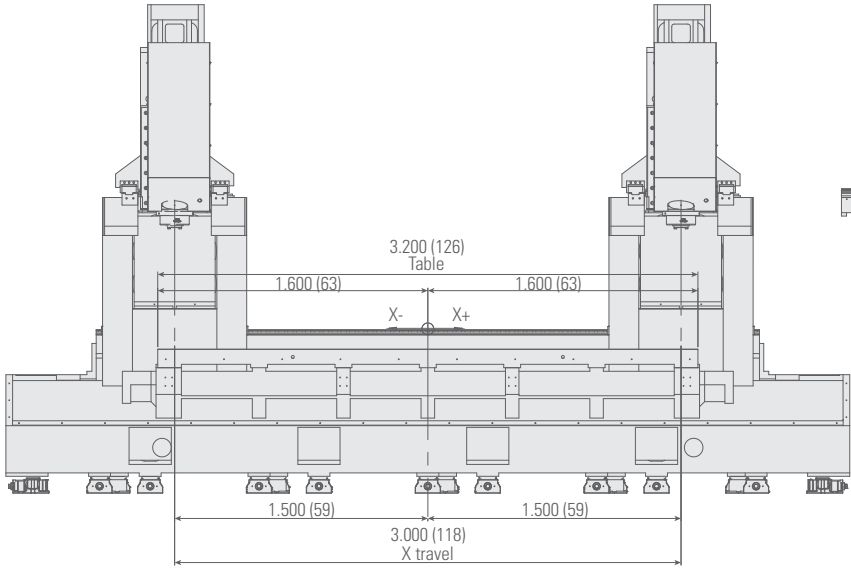
The moving column vertical machining center ROMI DCM 3000 is equipped with CNC Siemens Sinumerik 828D, which offers the user great facilities for programming.

CNC Siemens Sinumerik 828D

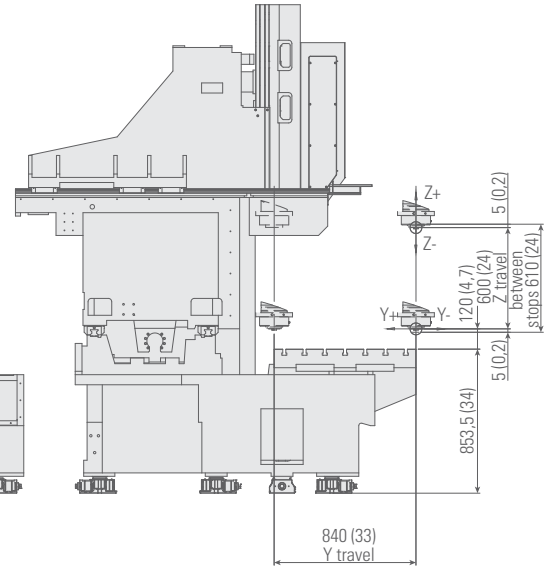
- 10,4" LCD color monitor
- Interfaces: drive for compact Flash card, USB port and ethernet interface
- Function Advanced Surface that allows the machine work with precision and smooth motion at high feed rates in the axes, allowing a better surface finishing of machined parts, in shorter time and with high finish machining quality in comparison to conventional machining processes.



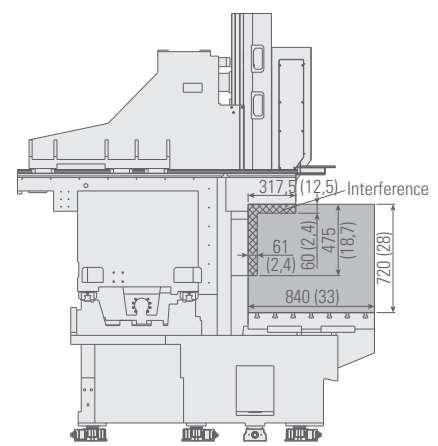
Work area layout - dimensions in mm (in)



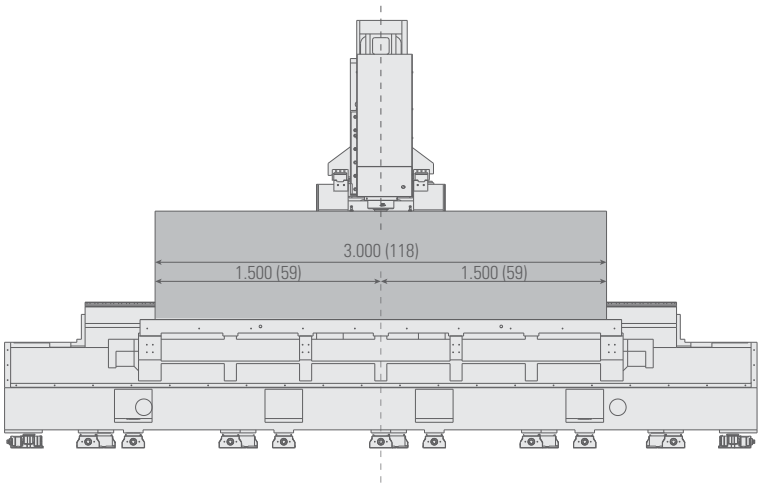
Front view



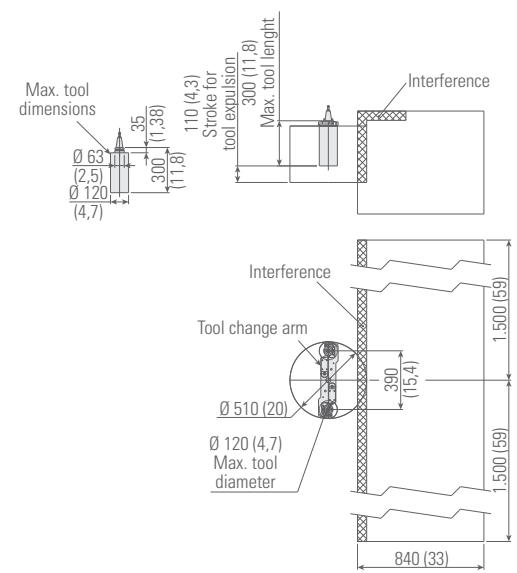
Side view



Side view

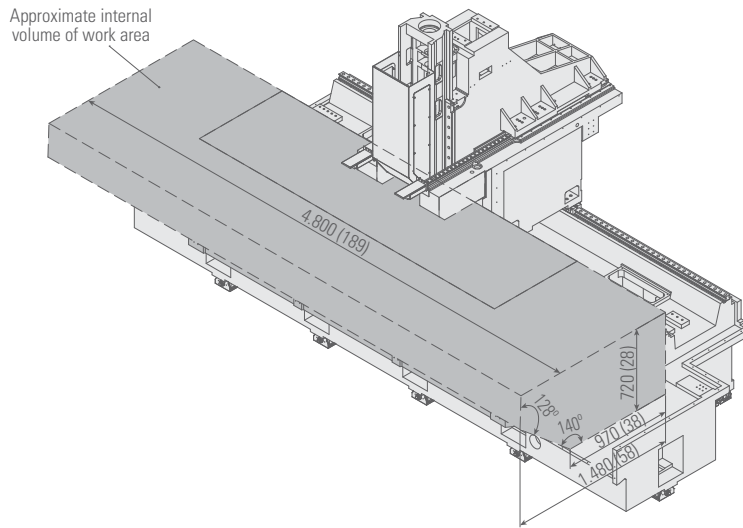
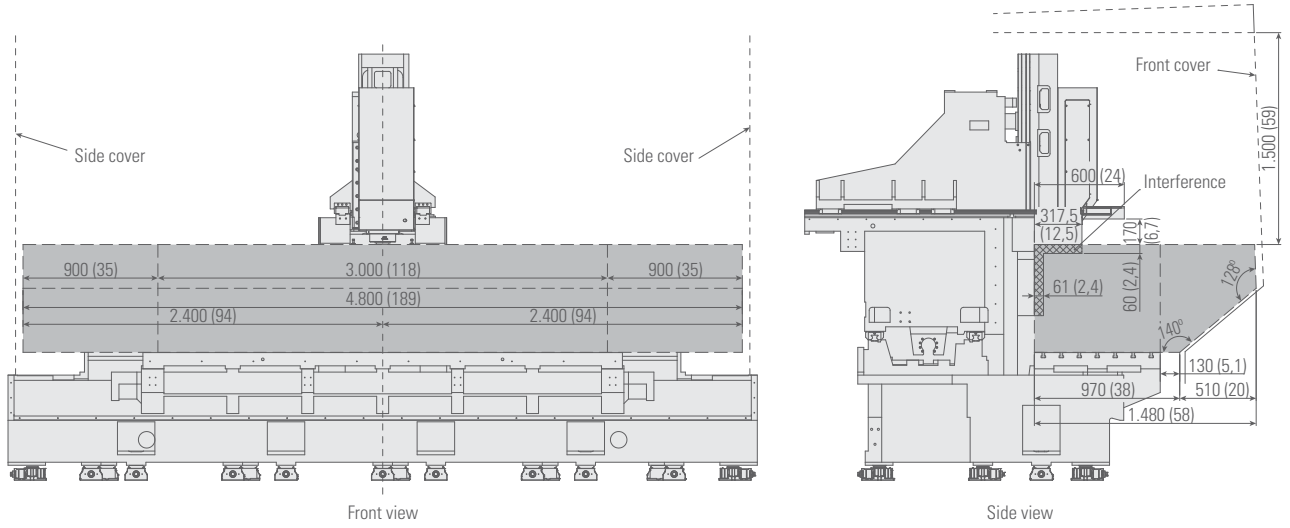


Front view



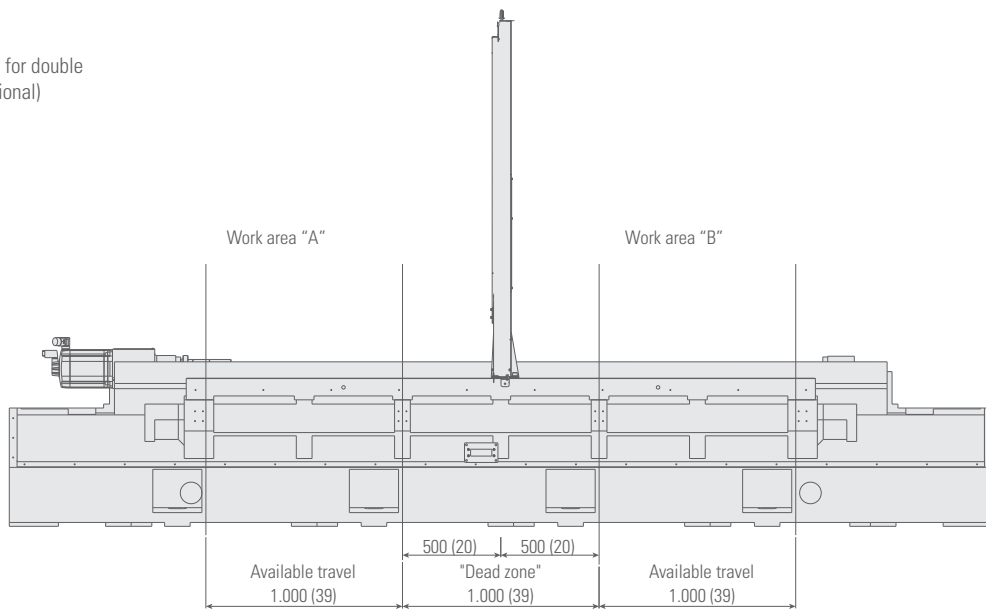
Drawings are not in scale.

Work area layout - dimensions in mm (in) (A)



Work area layout - dimensions in mm (in)

Central division for double workspace (optional)

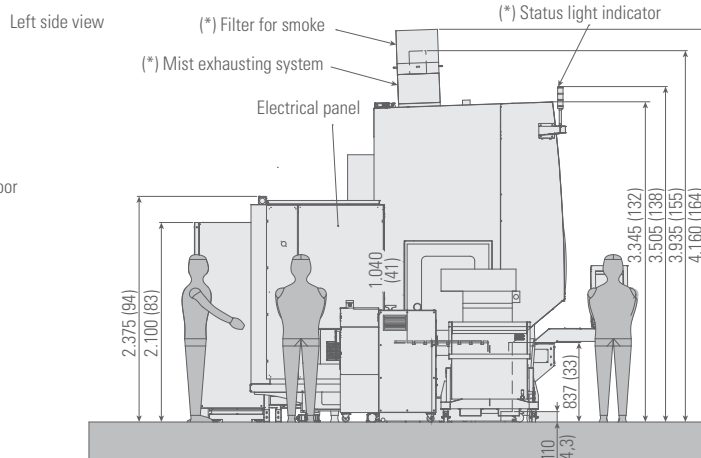
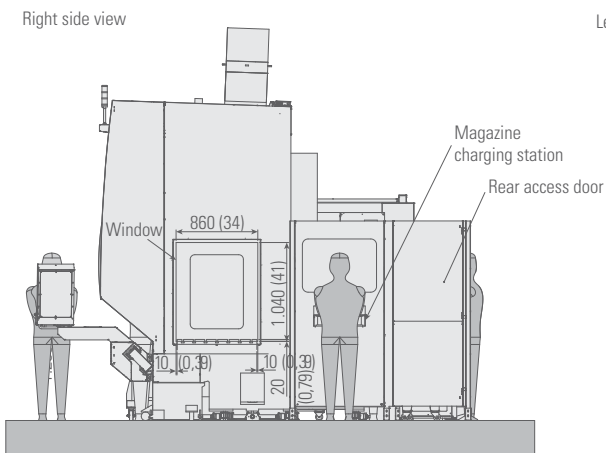
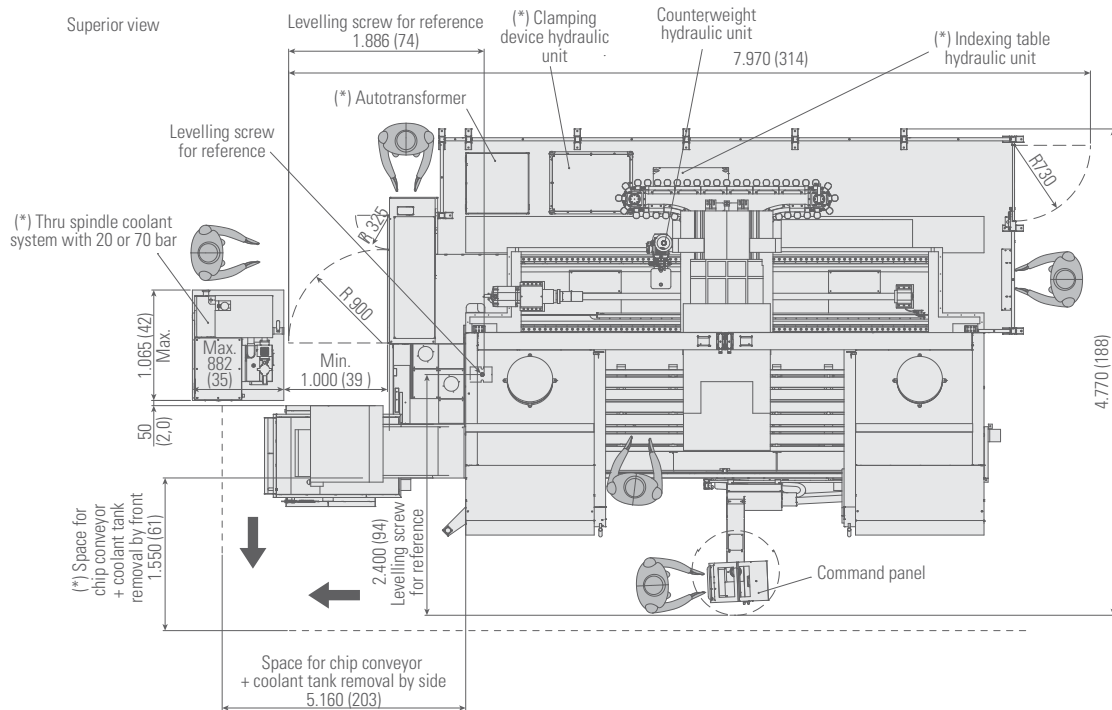
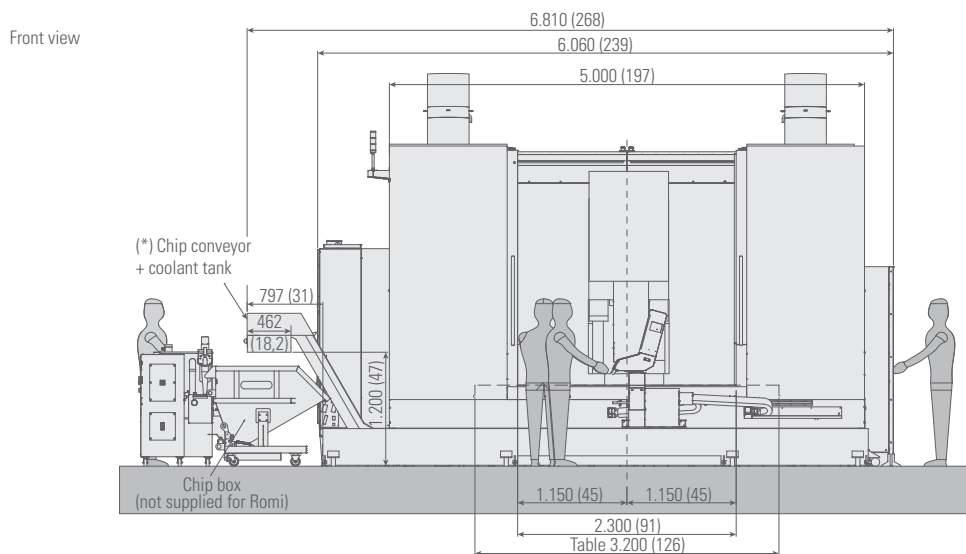


(A) This layout is valid only for machines without options.

Drawings are not in scale.



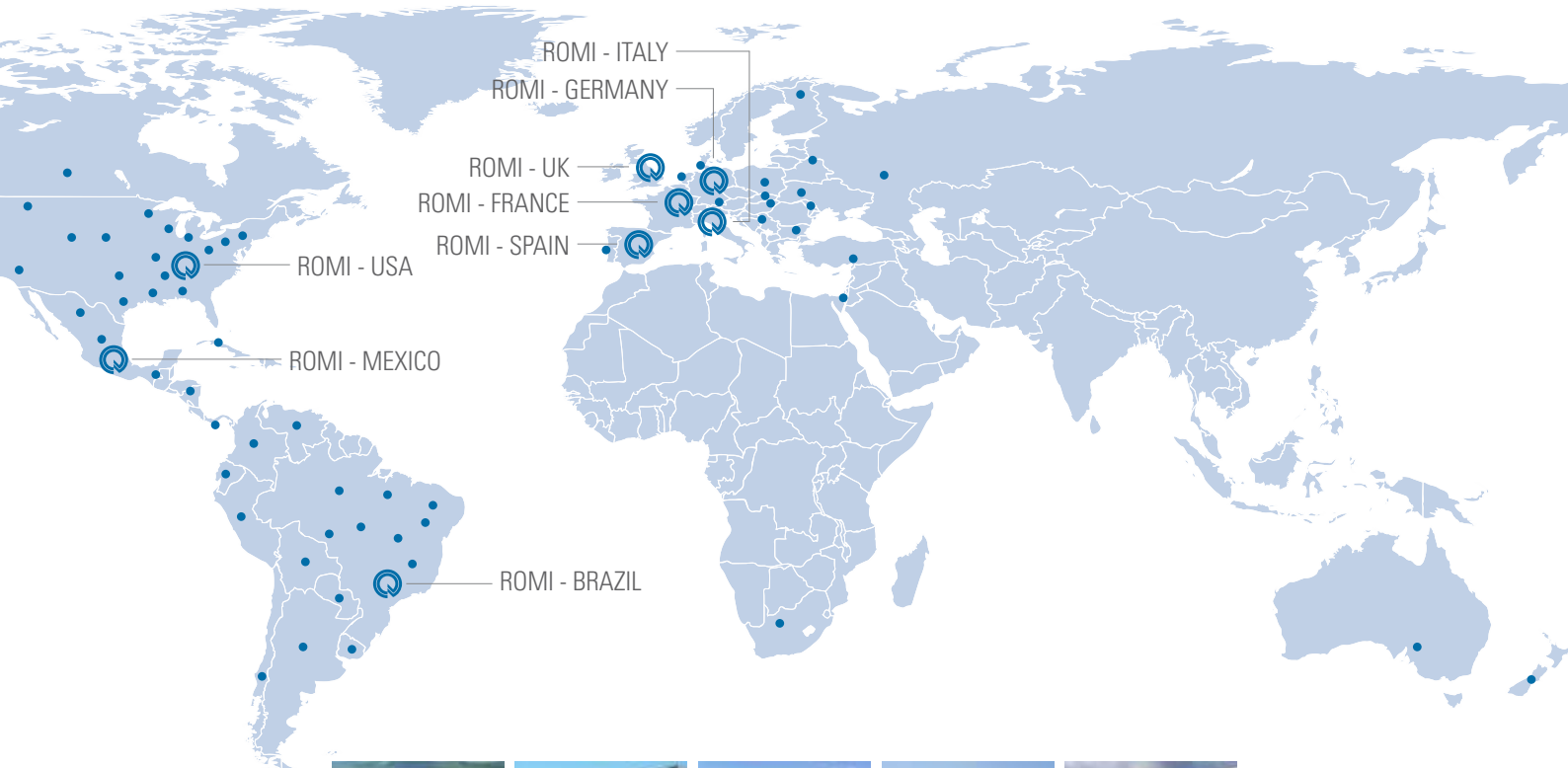
Machine dimensions - dimensions in mm (in)



Drawings are not in scale.

(*) Optional equipment

WORLDWIDE PRESENCE



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