



| GL 170G | GL 240 | GL 240M | GL 280 | GL 280M | GL 350 | GL 350M | GL 350Y | GL 350B | GL 400 | GL 400M

TURNING CENTERS

ROMI GL SERIES



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

INNOVATION + QUALITY

ROMI: Producing high quality technology since 1930.

Since the beginning, Romi has been recognized for its focus on creating products and innovative solutions which has guaranteed its technological leadership among large manufacturers of machine tools. Romi's industrial complex is among the most modern and productive sites in the fields of machine tools, plastic processing machines, and high quality cast iron parts.

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

The technology applied to Romi machines offers 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 sale subsidiaries network fully prepared to support customers by supplying an extensive range of services from marketing to after sales assistance.

The international market is covered by Romi's subsidiaries which are located in the United States, Mexico, Europe, and by its many dealers located in strategic logistic centers around the globe that are capable of serving customers in 5 continents.



Plant 16

ROMI GL SERIES



ROMI GL 170G



ROMI GL 240
ROMI GL 240M



ROMI GL 280
ROMI GL 280M



ROMI GL 350
ROMI GL 350M



ROMI GL 350Y
ROMI GL 350B



ROMI GL 400
ROMI GL 400M

Robust structure for machining at full power.

ROMI GL Series Turning Centers were designed to operate in environments of medium and high production. High power and torque are appropriate for machining at full power.

Robust structure offers high rigidity in severe machining operations. Thermal and geometric stability grants accuracy, high performance and productivity.

Flexibility, speed, precision and high productivity for machining of parts from bars.

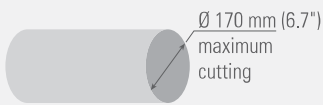


- Headstock (cartridge type) - 6,000 rpm (ASA A2-5")
- Main motor AC 15 hp / 11 kW
- Gang tools saddle for tool holders
- Bar feeder (optional)
- Parts catcher (optional)

ROMI GL 170G

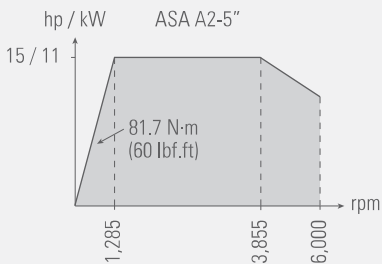
Capacities

**ROMI
GL 170G**

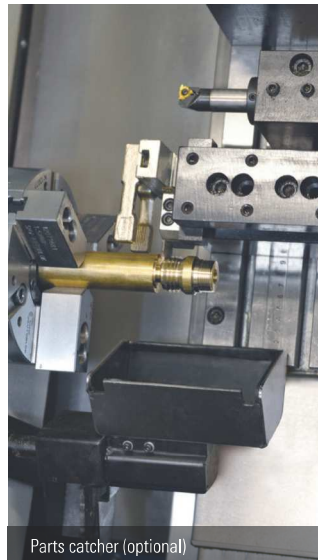


Power Graph

Headstock ASA A2-5"
(S3 25% - 15 min rating)



Drawings are not in scale.



Parts catcher (optional)

Compact equipment efficient for machined parts removal.

Together with the bar feeder (optional) it can compound an automated production cell for productivity increase in manufacturing process.

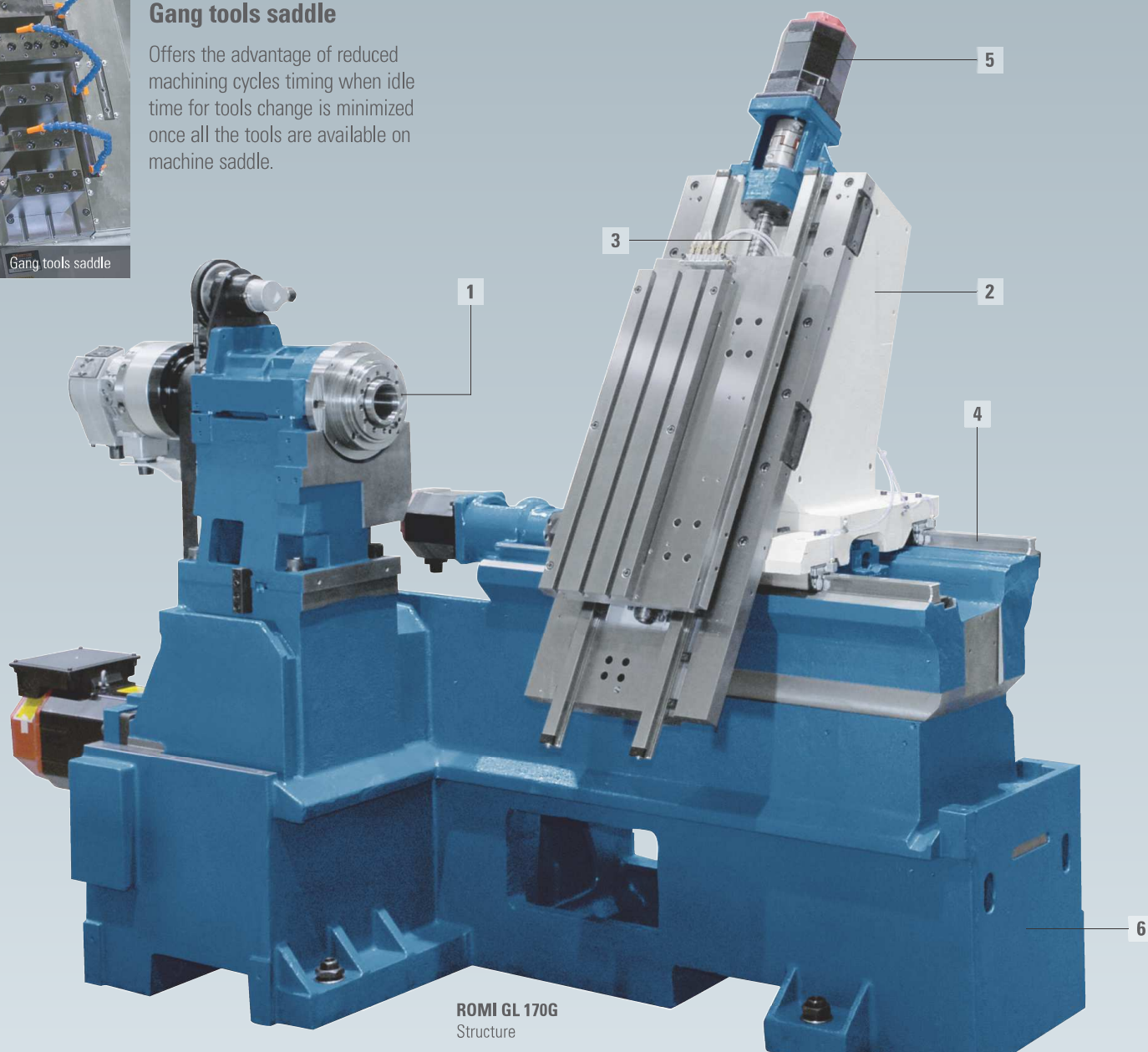


Gang tools saddle

Offers the advantage of reduced machining cycles timing when idle time for tools change is minimized once all the tools are available on machine saddle.



Gang tools saddle



ROMI GL 170G
Structure

STRUCTURE

1 Headstock

Great precision spindle designed to withstand high machining efforts and speeds.

2 Gang tools saddle and cross slide

Their high rigidity assures machine accuracy in heavy duty machining conditions.

They are supported on linear guides with great precision and high load capacity dimensioned to support high machining efforts. The 60° saddle inclination provides effective chips outflow.

3 Ball screws

High precision ball screws are designed for high machining efforts. Together with servomotors they offer quick precise displacements, high speeds and accelerations.

4 Linear guides

Allow fast and accurate displacements, and high accelerations, due the low friction coefficient among the rails and blocks. Enables feed rate of 36 m/min (X axis); fast positioning of turret; idle time reduction; productivity increase; low coolant oil consumption; ease maintenance and long durability.

5 Servomotors

Directly coupled to the high precision ball screws they offer great acceleration performance and axes speed.

6 Monoblock base

Robust, dimensioned to absorb vibrations with geometry to facilitate chips outflow from machining area.

Fast movements and high precision machining for environments of medium and high production.

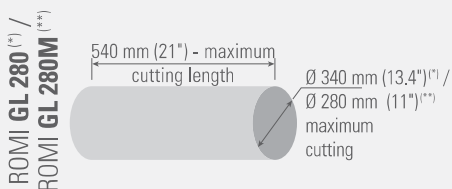
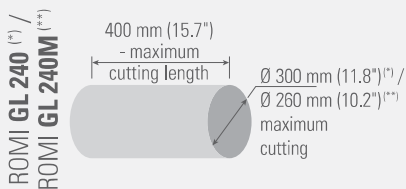


- Headstock (cartridge type) - 6,000 rpm (ASA A2-5") or 4,500 rpm (ASA A2-6")
- Main motor AC 20 hp / 15 kW
- 12-station turret for fixed tools, Romi disc (ROMI GL 240)
- 12-station turret for driven tools, VDI-30 disc and holders for drilling, milling and tapping (ROMI GL 240M)
- Tailstock with manual positioning and hydraulic drive quill

- Headstock (cartridge type), 4,500 rpm (ASA A2-6") or 3,500 rpm (ASA A2-8")
- Main motor AC 25 hp / 18.5 kW
- 12-station turret for fixed tools, Romi disc (ROMI GL 280)
- 12-station turret for driven tools, VDI-40 disc and holders for drilling, milling and tapping (ROMI GL 280M)
- Tailstock with manual positioning and hydraulic drive quill

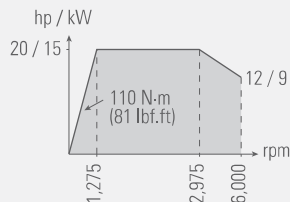
ROMI GL 240 / GL 240M / GL 280 / GL 280M

Capacities

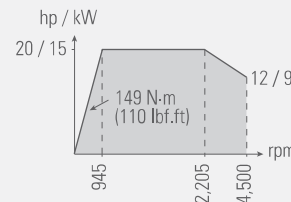


Power Graphs

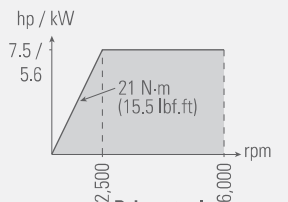
Headstock ASA A2-5" (S2 - 15 min rating)



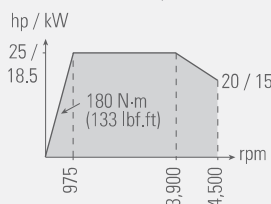
Headstock ASA A2-6" (S2 - 15 min rating)



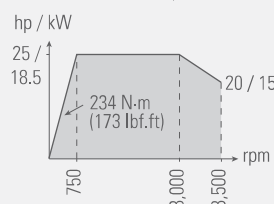
Driven tool (S3 - 40% - 10 min rating)



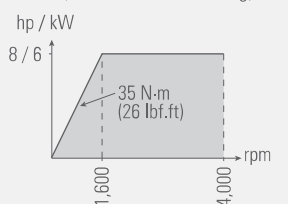
Headstock ASA A2-6" (S2 - 30 min rating)



Headstock ASA A2-8" (S2 - 30 min rating)



Driven tool (S3 - 40% - 10 min rating)



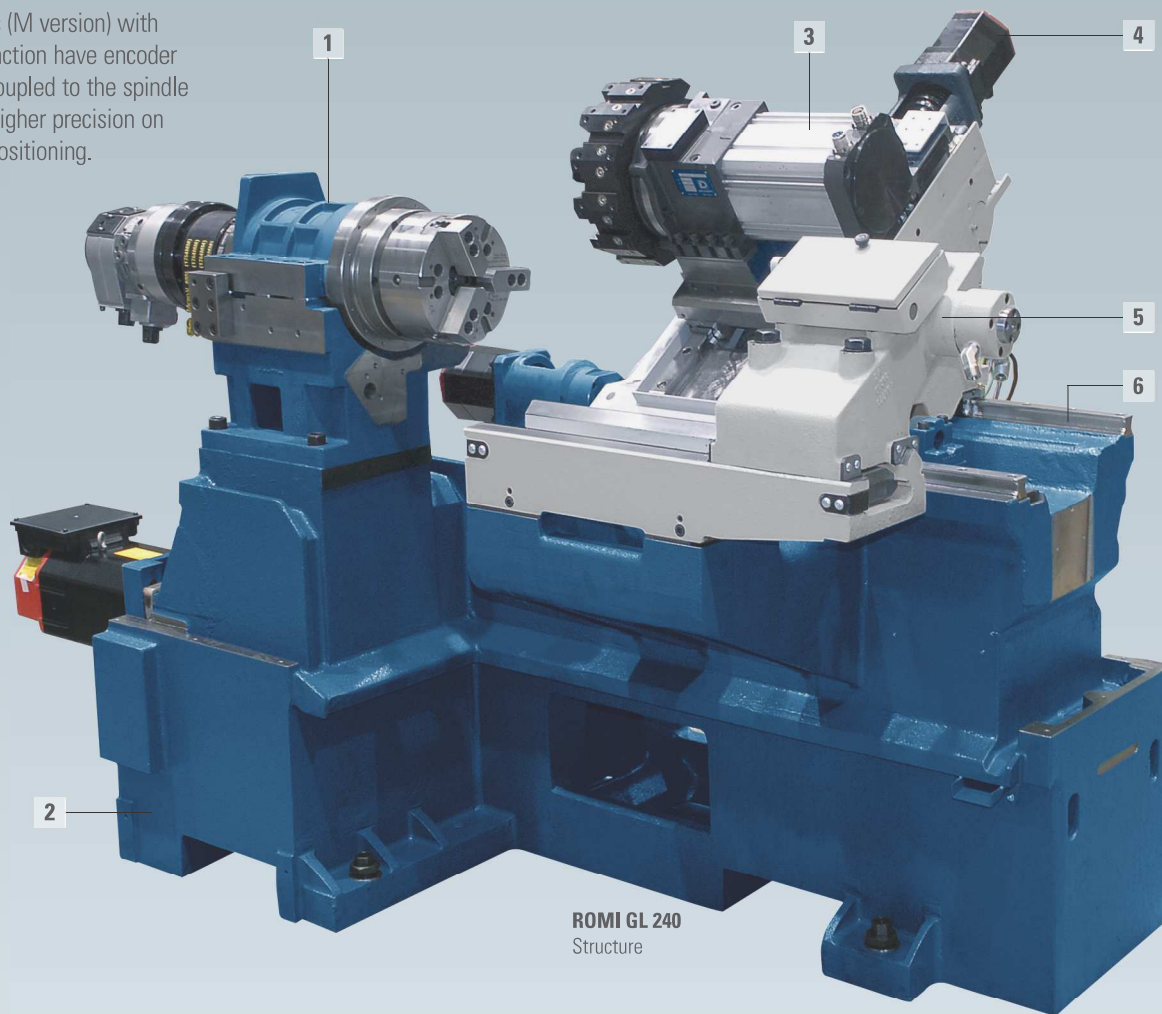
Drawings are not in scale.



Robust monoblock base especially designed for machining maximum performance.

C axis

Machines (M version) with C axis function have encoder directly coupled to the spindle offering higher precision on angular positioning.



ROMI GL 240
Structure

Projected with 3D CAD system with aid of finity element analysys (FEA), its structure has the main purpose to minimize the thermal distortions and absorb machining efforts and vibrations.

STRUCTURE



T type turret for fixed tools -
for ROMI GL 240 and ROMI GL 280



M type turret for fixed and driven tools
with VDI disc - for ROMI GL 240M and
ROMI GL 280M

1 Headstock

Great precision spindle designed to withstand high machining efforts and speeds.

2 Monoblock base

Robust and designed to absorb vibrations. Offers better parts finishing, longer durability for machine and cutting tools.

3 Turret

12-station, quick indexing, servodriven and hydraulic locking.

4 Servomotors

Directly coupled to the high precision ball screws enables excellent performance on acceleration and speed of axes.

5 Tailstock

It is supported on the bed with hardened and ground guides. Its positioning is manual with hydraulic drive quill.

6 Linear guides

Allow fast displacements of X and Z axes and offer great rigidity.



Power and high flexibility for machining of shafts up to 1m (39") long.

ROMI GL 350

- Distance between centers 1,140 mm (45")
- Headstock (cartridge type), 4,500 rpm (ASA A2-6") or 3,500 rpm (ASA A2-8")
- Main motor AC 25 hp / 18.5 kW
- 12-station turret for fixed tools
- Tailstock (servodriven) base with automatic manual positioning adjustable via PLC, prepared for cartridge with MT-4 center or built-in (with incorporated bearings)



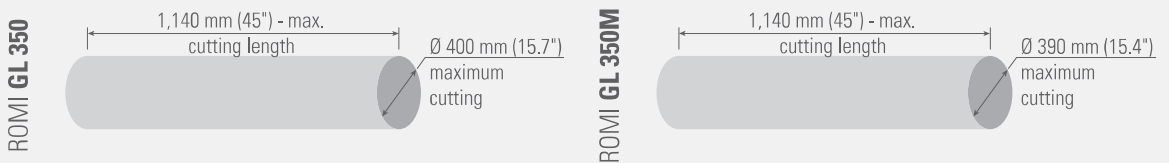
ROMI GL 350M

- Distance between centers 1,140 mm (45")
- Headstock (cartridge type), 4,500 rpm (ASA A2-6") or 3,500 rpm (ASA A2-8")
- Main motor AC 25 hp / 18.5 kW
- 12-station turret for fixed and driven tools, BMT-65 disc for drilling, milling and tapping operations
- Tailstock (servodriven) base with automatic manual positioning adjustable via PLC, prepared for cartridge with MT-4 center or built-in (with incorporated bearings)

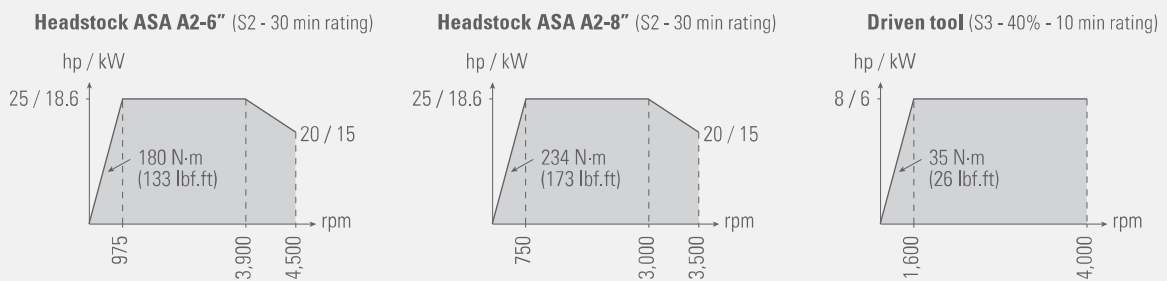


ROMI GL 350 / GL 350M

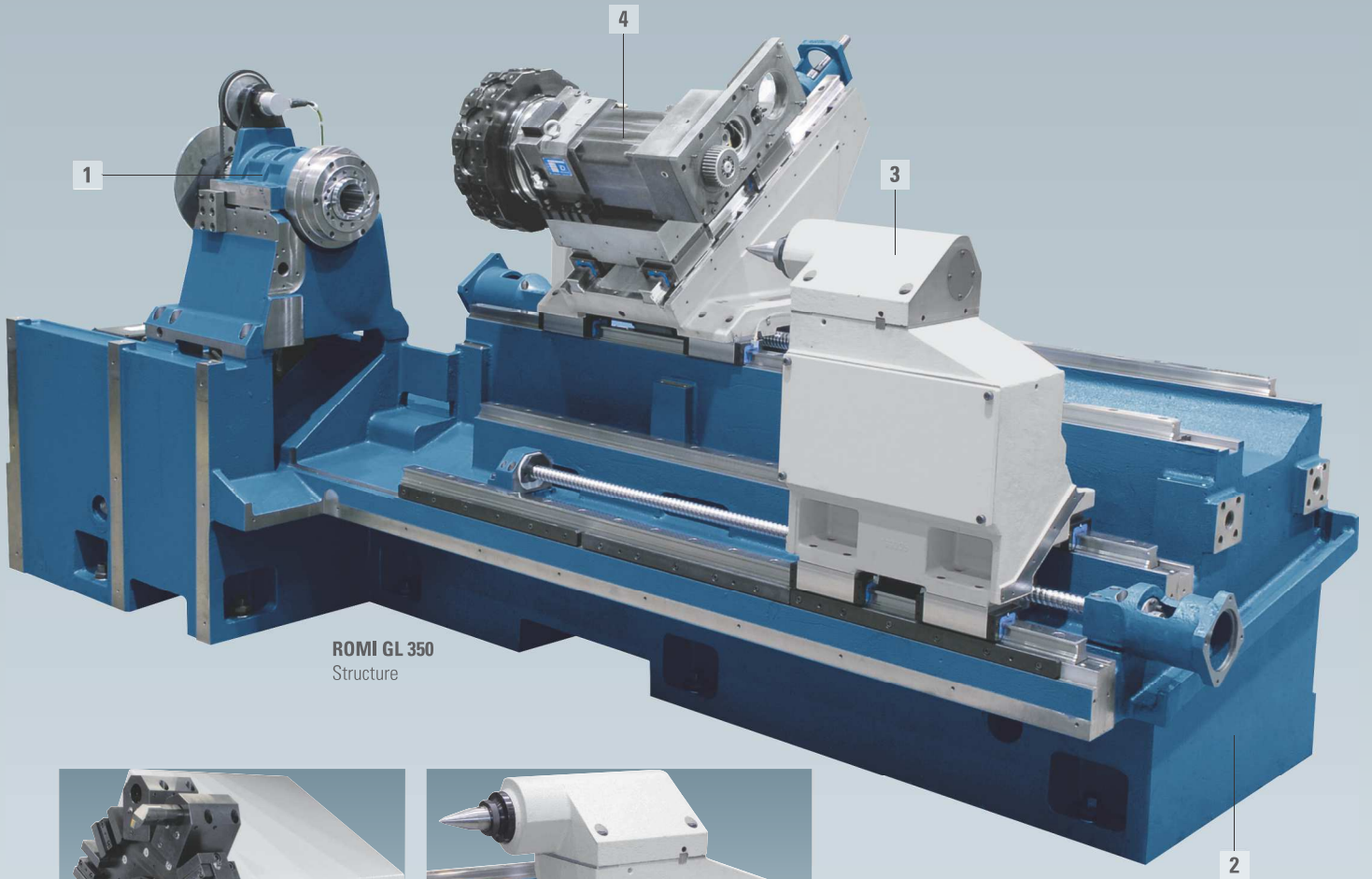
Capacities



Power Graphs



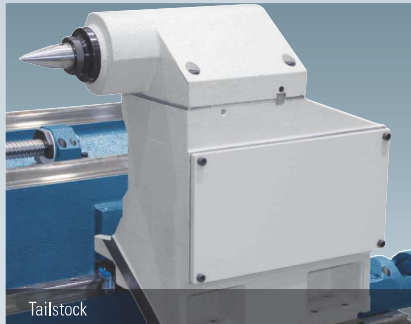
Drawings are not in scale.



ROMI GL 350
Structure



M type turret - ROMI GL 350M



Tailstock

STRUCTURE

1 Headstock

Spindle cartridge driven by AC motor and designed to withstand high machining efforts.

2 Monoblock base

Robust and dimensioned to absorb efforts and vibrations from severe machining conditions. It has linear guides of high load capacity for X and Z axes and tailstock.

3 Tailstock

Tailstock with automatic positioning, driven by servomotor and ball screws, supported on linear guides, adjustable via PLC. It is prepared for cartridge with MT-4 center or built-in (with incorporated bearings).

4 Turret

ROMI GL 350:

T type turret for fixed tools, 12 station disc, quick indexing, servodriven and hydraulic locking.

ROMI GL 350M:

M type turret for fixed and driven tools, BMT 65 disc, with high precision and reliable transmission to withstand demands of drilling, milling and tapping processes.

Equipped with turret for fixed and driven tools, Y axis, consolidating turning, drilling operations with only one fixation, offering significant productivity.



ROMI GL 350B

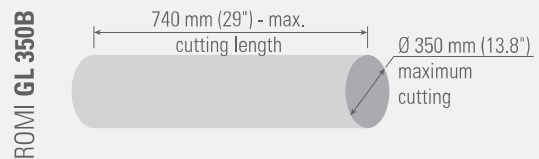
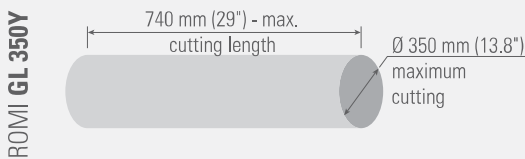
- Distance between centers 740 mm (29")
- Headstock (left):
 - 5,000 rpm (ASA A2-6"), built-in (with incorporated motor), 33 hp / 25 kW; or
 - 4,000 rpm (ASA A2-8"), built-in (with incorporated motor), 33 hp / 25 kW
- Headstock (right) 6,000 rpm (ASA A2-5"), built-in (with incorporated motor), 29 hp / 22 kW
- 12-station turret, with BMT-65 disc for fixed and driven tools, besides the Y axis for drilling, milling and tapping operations

ROMI GL 350Y

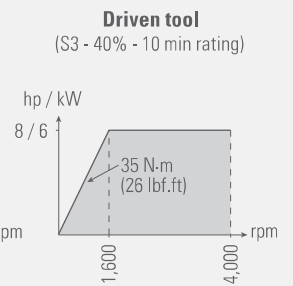
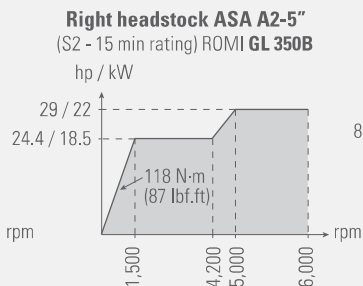
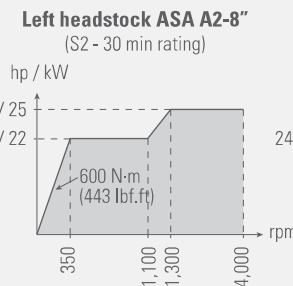
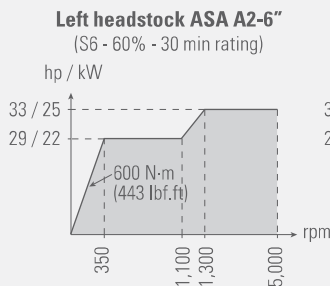
- Distance between centers 740 mm (29")
- Headstock (left):
 - 5,000 rpm (ASA A2-6"), built-in (with incorporated motor), 33 hp / 25 kW; or
 - 4,000 rpm (ASA A2-8"), built-in (with incorporated motor), 33 hp / 25 kW
- Turret for fixed and driven tools, 12-station, BMT-65 disc, Y axis for drilling, milling and tapping operations

ROMI GL 350Y / GL 350B

Capacities



Power Graphs



Drawings are not in scale.



1 Headstock (left)

Built-in system with incorporated motor (Fanuc) with high technology and performance. High precision spindle is designed to withstand high machining efforts and high speeds with continuous variation. Offers huge power and torque and has cooling system for housing which brings great thermal and geometric stability to the assembly.

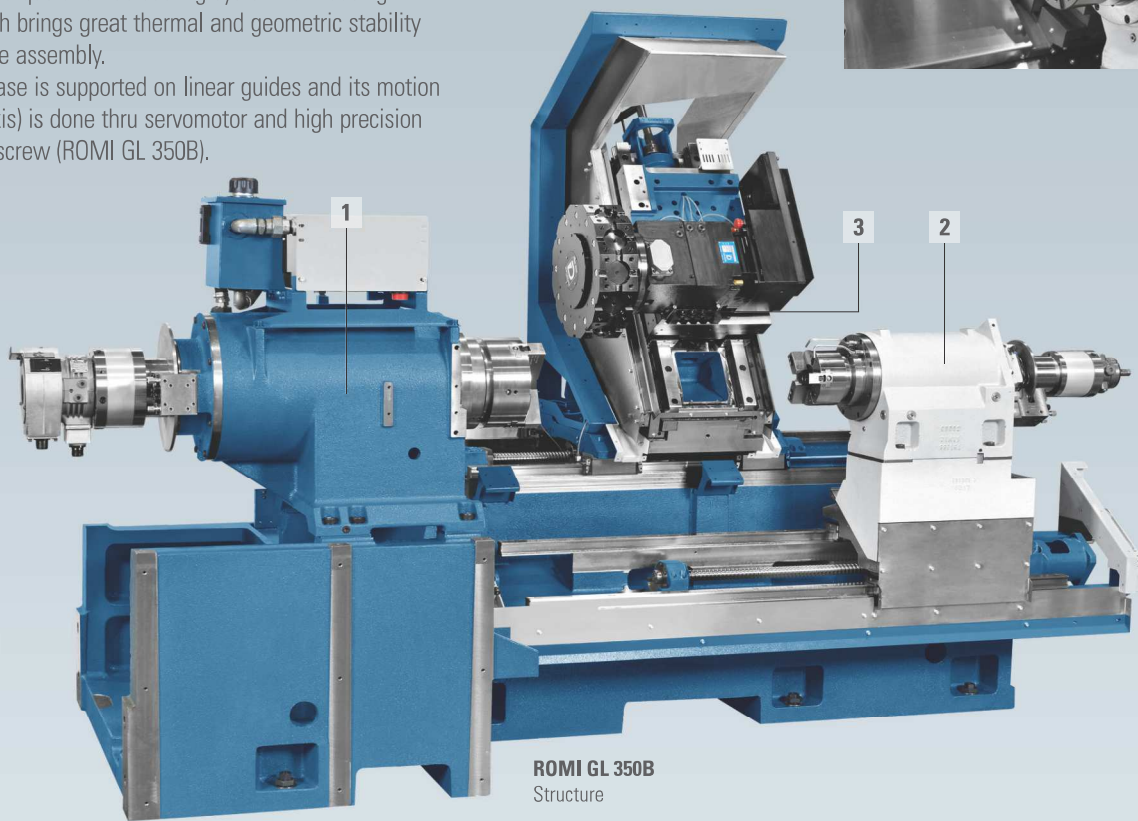
2 Headstock (right)

Built-in system with incorporated motor (Fanuc) with high technology and performance. Offers high power and torque and has cooling system for housing which brings great thermal and geometric stability to the assembly.

Its base is supported on linear guides and its motion (B axis) is done thru servomotor and high precision ball screw (ROMI GL 350B).

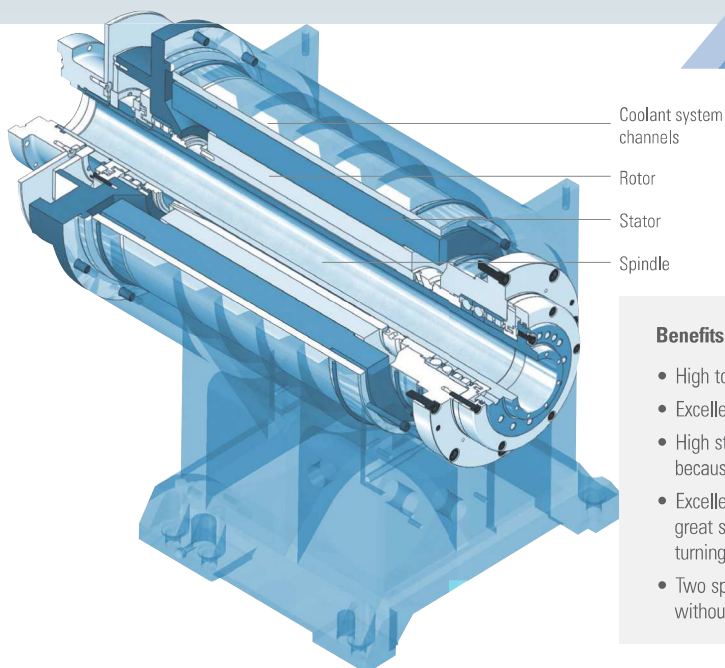
3 Y axis

Enables turning operations out of workpiece Center line allowing drilling, milling and tapping operations with only one fixation.



ROMI GL 350B
Structure

STRUCTURE



Headstock built-in

Headstock built-in is a compact equipment IF compared with conventional headstock. It is comprised of a motor (Fanuc) incorporated to the spindle cartridge, where the rotor is the same spindle and the stator is fixed in the housing.

Benefits

- High torque in low rotations
- Excellent level of power and performance
- High stability system, without vibrations because of the absence of pulleys and belts.
- Excellent spindle run-out contributing for great surface finishing and roundness on turning operations
- Two speed ranges, with automatic range change, without need of M Codes programming
- Low inertia contributing for high accelerations
- Incorporated high resolution encoder assuring extreme precise angular positioning (C axis) for operations with driven tools
- High thermal and geometric stability due to its efficient cooling system
- Technology Fanuc

Robust structure which offers rigidity, stability, power and high torque for heavy machining in high production environments.

ROMI GL 400 (*)

- Distance between centers 1,140 mm (45")
- Headstock (cartridge type), 3,000 rpm (ASA A2-8"), Ø 80 mm (3.1") thru-hole; or
- Headstock (cartridge type), 2,500 rpm (ASA A2-8"), Ø 104 mm (4.1") thru-hole
- Main motor AC 30 hp / 22 kW
- Turret for fixed tools, 12-station



ROMI GL 400M (*)

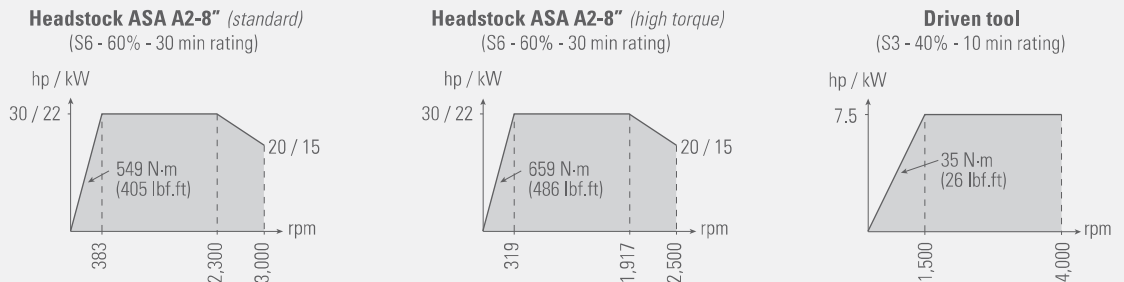
- Distance between centers 1,140 mm (45")
- Headstock (cartridge type), 3,000 rpm (ASA A2-8"), Ø 80 mm (3.1") thru-hole; or
- Headstock (cartridge type), 2,500 rpm (ASA A2-8"), Ø 104 mm (4.1") thru-hole
- Main motor AC 30 hp / 22 kW
- Turret for fixed and driven tools, 12-station, BMT-65 disc, for drilling, milling and tapping operations

ROMI GL 400 / GL 400M

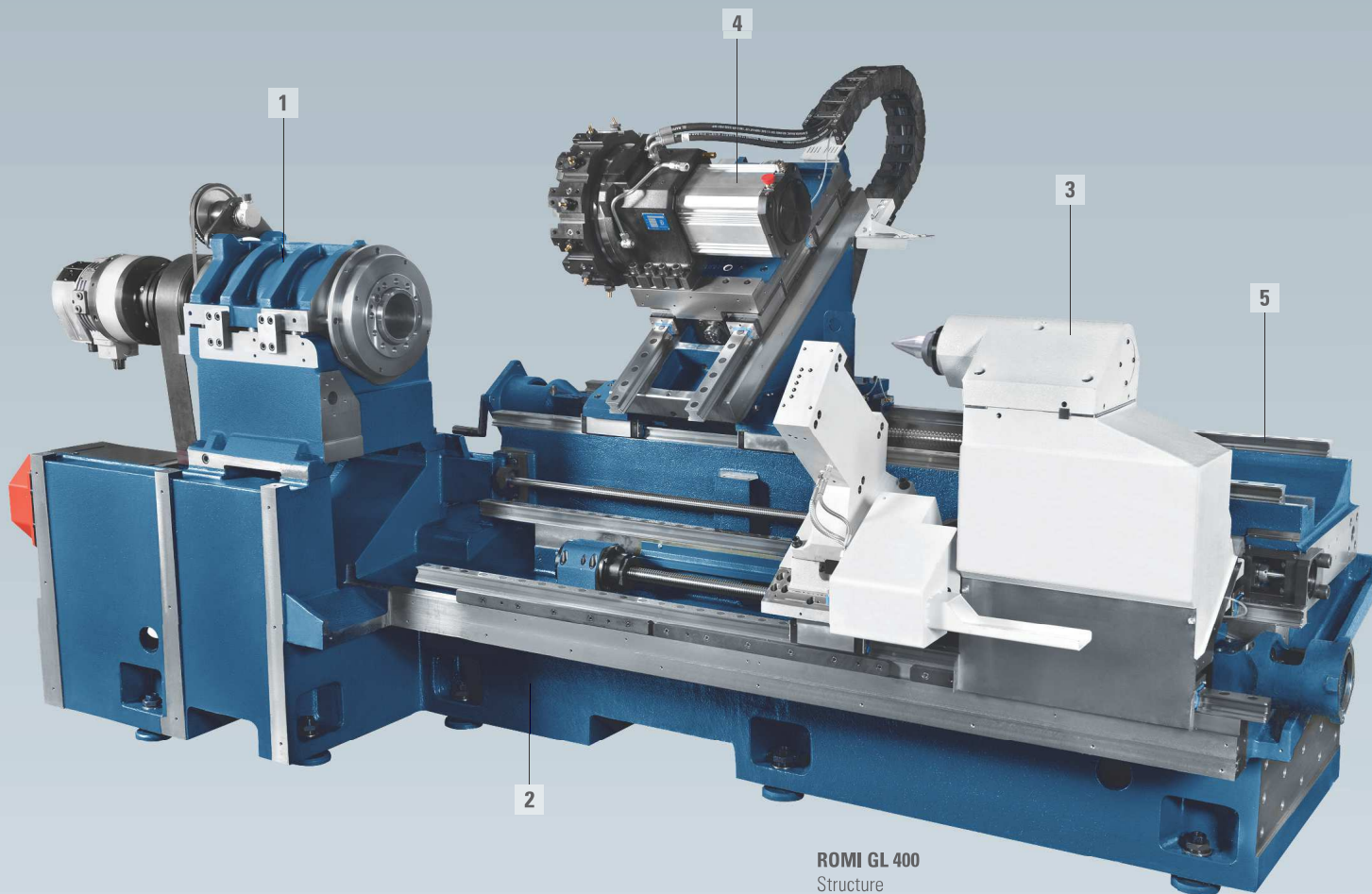
Capacities



Power Graphs



(*) Available for brazilian market. Drawings are not in scale.



ROMI GL 400
Structure



Hydraulic rest (optional)

In order to perform shafts machining ROMI GL 400 can be equipped with hydraulic rest, with functions of steady rest or follow rest.

Its positioning is programmable and it is driven by servomotor and ball screw.

STRUCTURE

1 Headstock

Spindle cartridge driven by AC motor and designed to withstand high machining efforts.

2 Monoblock base

Robust and dimensioned to absorb efforts and vibrations from severe machining conditions. It has linear guides of high load capacity for X and Z axes, tailstock and hydraulic rest (optional).

3 Tailstock

Tailstock with automatic positioning driven by servomotor and ball screws, supported on linear guides, adjustable via PLC. It is prepared for cartridge with live center or built-in (with incorporated bearings).

4 Turret

ROMI GL 400

T type turret for fixed tools, 12 station disc, quick indexing, servodriven and hydraulic locking.

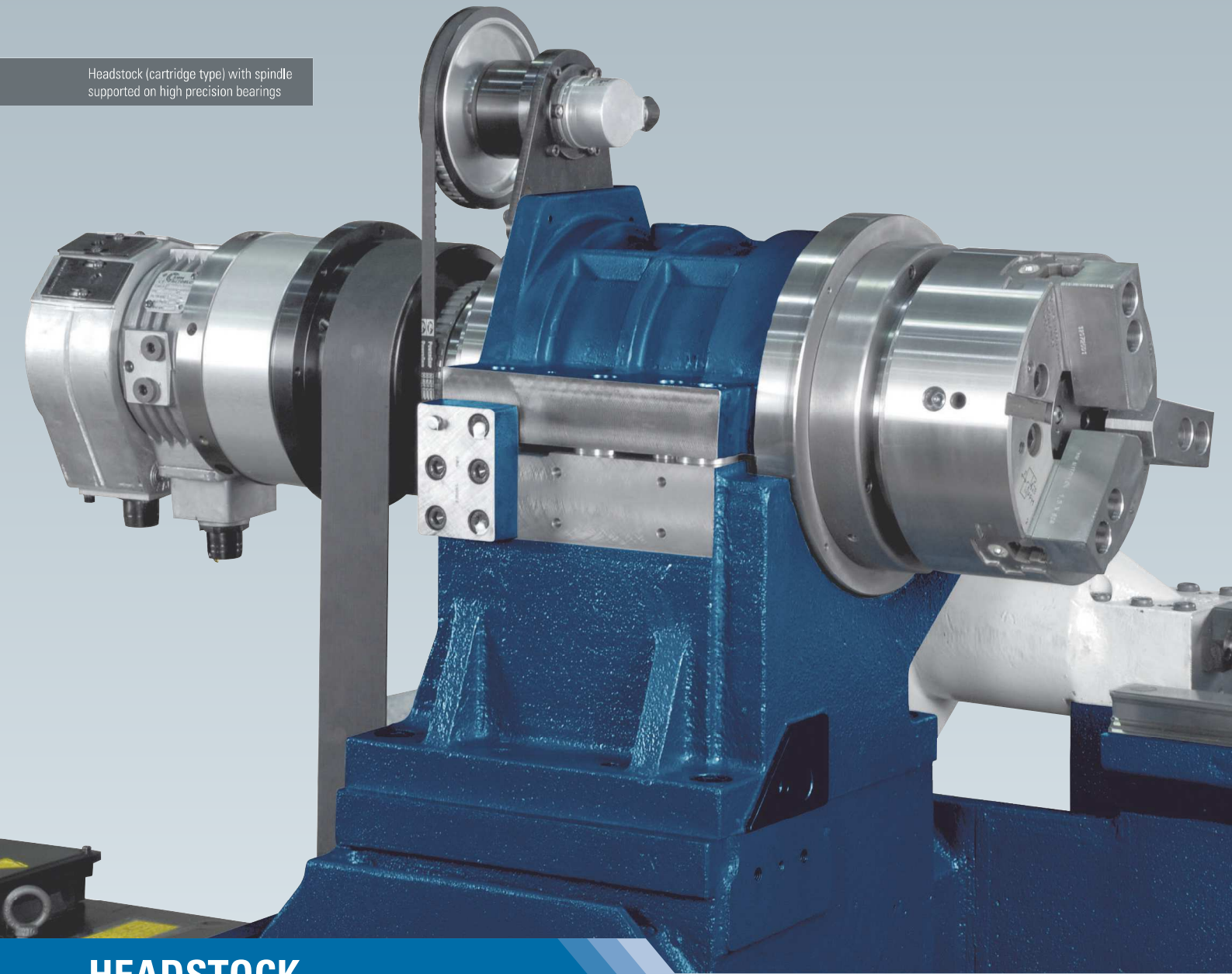
ROMI GL 400M

M type turret for fixed and driven tools, 12-station, BMT 65 disc, with high precision and reliable transmission to withstand demands of drilling, milling and tapping processes.

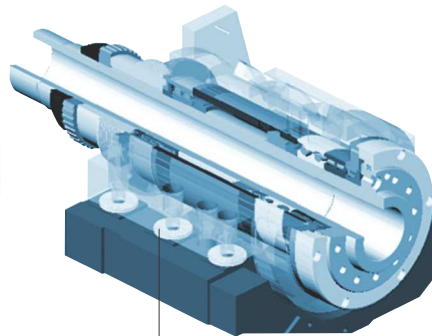
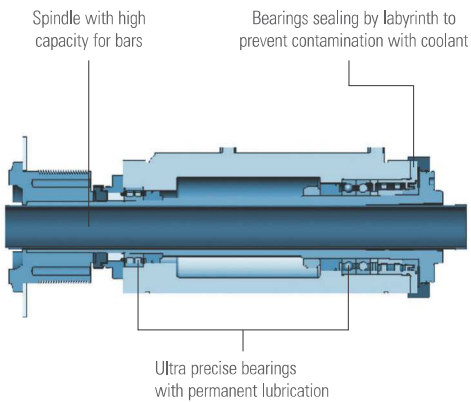
5 Linear guides in X and Z axes

Offers high load capacity and force to the saddle and cross slide for machining operations at full power. Tailstock and hydraulic rest (optional) are supported in roller guides that give high stability for the components.

Headstock (cartridge type) with spindle supported on high precision bearings



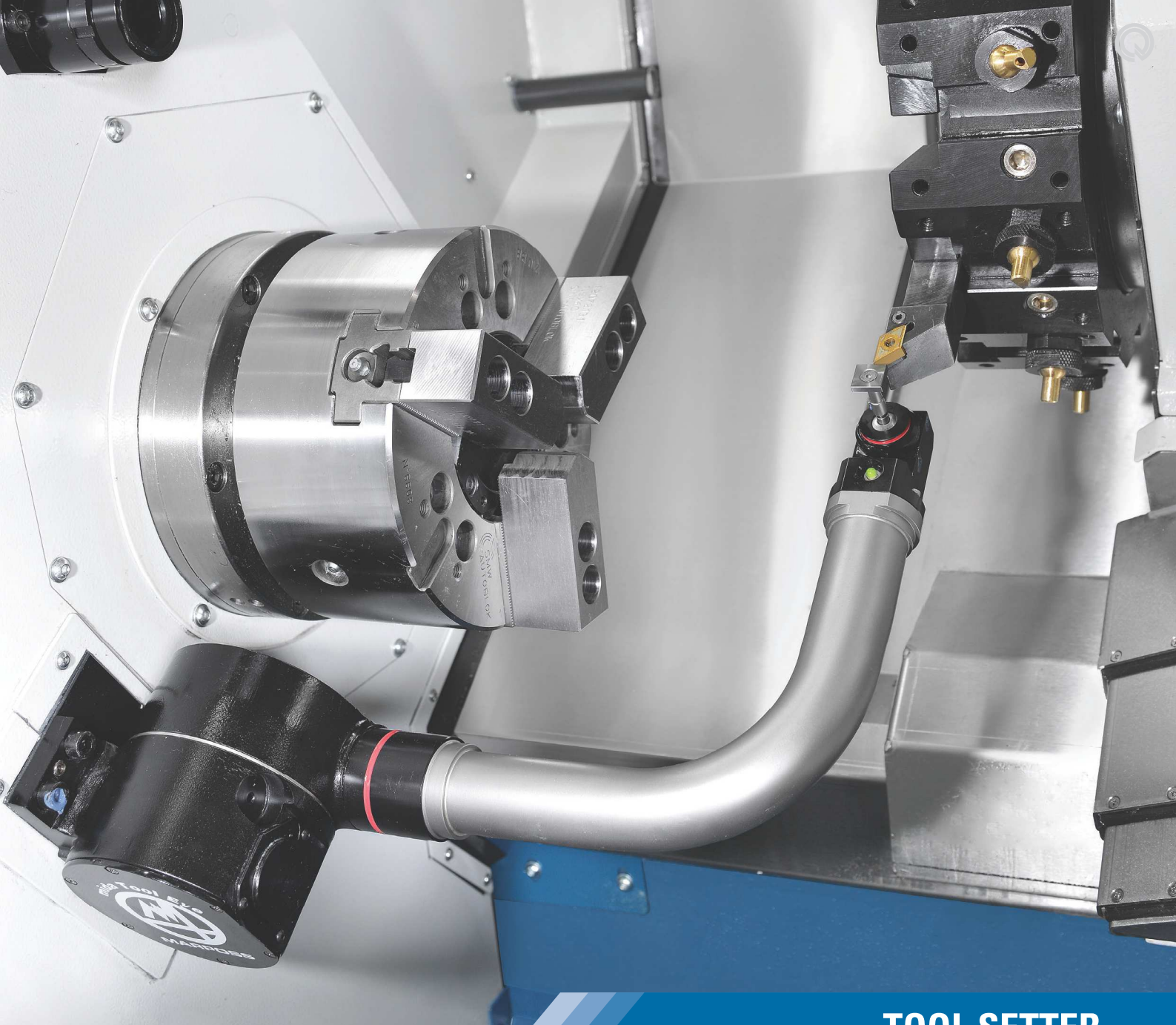
HEADSTOCK



Enables high speeds ensuring high performance even under severe cutting conditions.

It offers excellent running accuracy, with minimal temperature rise of the bearings, even under continuous operating at high speeds.

The cartridge symmetrical housing, separated from its base by insulating plates, reduces heat transfer to the base and minimizes the spindle center line displacement.



TOOL SETTER

This system uses a four-face sensor that informs to the CNC the tool position facilitating a fast preset and tool life management.

Manual tool preset

Enables the operator to execute tool measurement in manual mode with no need to create a program to perform the tool preset process.

Graphic screens guide the operator in a friendly and interactive mode.

The operator performs tool approaching on X and Z axes up to the tool setter sensor, via electronic handwheel or JOG commands, and the system measures the tool informing its dimensions to the CNC.

Semi-automatic tool preset

It enables tool measuring through a program execution by selecting a tool to be measured and its position in relation to the sensor.

By starting the program, the tool setter is automatically positioned preparing the CNC for the required measuring movements.

Automatic Tool Wear Compensation System

The tool setter can perform automatically the wear compensation.

It measures the tool wear and the system can accomplish automatically the tool wear compensation.

It is an excellent resource for a high production environment.



AUTOMATION SYSTEMS



Short bar feeder for bars up to 980 mm (39") long

Parts catcher (optional)

Compact equipment efficient for machined parts removal.

Together with the bar feeder (optional) it can compound an automated production cell for productivity increase in manufacturing process.

Automation systems (optional)

Due to the project features and construction, ROMI GL Series machines are prepared to integrate automatic and flexible production cells.

They can be customized to work with bar feeders, load and unload systems type gantry loader, manipulators and others.



CNC

CNC Fanuc Oi-TD

ROMI GL Series Turning Centers are equipped with CNC Fanuc Oi-TD and drives, main motor and servomotors from Fanuc. CNC uses hardware of high technology, offers 10.4" LCD color monitor, softkeys with multi-functions, RS 232 serial plug, drive for PCMCIA card and ETHERNET network for programs and parameters transfer and storage.

Programming

ISO system and GUIDE interactive language which facilitates complex profiles programming. Offers the user several resources for program creating and editing thru canned cycles. Graphic function with machining simulation offers the view of solid workpiece and helps in the interpretation of the piece to be machined.

Operation

Offers functions like tool offset, geometry corrections, tool life management, entrance of relative tool offset, memory capacity for 400 programs, simultaneous edition with machining, program test, dry run, alarm and diagnostics function on screen, among other functions.

Technical specifications		ROMI GL 170G	ROMI GL 240	ROMI GL 240M	ROMI GL 280	ROMI GL 280M
Capacity						
Swing over Z axis cover	mm (in)	410 (16.1)	420 (16.5)	420 (16.5)	425 (16.7)	425 (16.7)
Max. cutting diameter	mm (in)	170 (6.7)	300 (11.8)	260 (10.2)	340 (13.4)	280 (11)
Max. cutting length (between centers)	mm (in)	-	400 (15.7)	400 (15.7)	540 (21)	540 (21)
Travel (X axis)	mm (in)	465 (18.3)	188 (7.4)	188 (7.4)	212 (8.3)	212 (8.3)
Travel (Z axis)	mm (in)	400 (15.7)	400 (15.7)	400 (15.7)	540 (21)	540 (21)
Headstock						
Spindle nose	ASA	A 2-5"	A 2-5" / A 2-6"	A 2-5" / A 2-6"	A 2-6" / A 2-8"	A 2-6" / A 2-8"
Spindle thru-hole	mm (in)	60 (2.4)	60 (2.4) / 73 (2.9)	60 (2.4) / 73 (2.9)	73 (2.9) / 85 (3.3)	73 (2.9) / 85 (3.3)
Bar capacity (diameter)	mm (in)	51 (2)	51 (2) / 64 (2.5)	51 (2) / 64 (2.5)	64 (2.5) / 76 (3)	64 (2.5) / 76 (3)
Speed range	rpm	6 to 6,000	6 to 6,000 / 4 to 4,500	6 to 6,000 / 4 to 4,500	4 to 4,500 / 3 to 3,500	4 to 4,500 / 3 to 3,500
Feeds						
Rapid traverse (X axis)	m/min (in/min)	36 (1,417)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)
Rapid traverse (Z axis)	m/min (in/min)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)
Turret						
Saddle surface (gang tools)	mm (in)	180 x 600 (7.1 x 24)	-	-	-	-
Number of T-slots	-	3	-	-	-	-
Number of tools/stations	un	-	12	12	12	12
Tool holder type	-	gang tools	Romi	VDI - 30	Romi	VDI - 40
Tool section: square	mm (in)	20 x 20 (0.79 x 0.79)	20 x 20 (0.79 x 0.79)	20 x 20 (0.79 x 0.79)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)
Tool section: bar (diameter)	mm (in)	25 (0.98)	32 (1.26)	32 (1.26)	40 (1.57)	40 (1.57)
Axial driven tool holder	DIN 6499	-	-	ER -25 (Ø 3 - Ø 16 mm)	-	ER -32 (Ø 3 - Ø 20 mm)
Radial driven tool holder	DIN 6499	-	-	ER -25 (Ø 3 - Ø 16 mm)	-	ER -32 (Ø 3 - Ø 20 mm)
Speed range (driven tool)	rpm	-	-	6 to 6,000	-	4 to 4,000
Driven tool motor (S3 - 40% - 10 min. rating)	hp / kW	-	-	7.5 / 5.6	-	8 / 6
Index time: next tool (incl. clamp and unclamp)	s	-	0.4	0.52	0.67	0.67
Index time: 180°	s	-	0.9	0.88	1.15	1.15
Tailstock						
Body travel	mm (in)	-	445 (17.5)	445 (17.5)	335 (13.2)	335 (13.2)
Quill travel	mm (in)	-	95 (3.7)	95 (3.7)	130 (5.1)	130 (5.1)
Quill diameter	mm (in)	-	55 (2.2)	55 (2.2)	80 (3.1)	80 (3.1)
Body positioning	-	-	manual	manual	manual	manual
Quill activation	-	-	hydraulic	hydraulic	hydraulic	hydraulic
Quill taper hole	CM	-	4	4	4	4
Installed power						
Main motor AC	hp / kW	15 / 11 (S3 - 15 min)	20 / 15 (S2 - 15 min)	20 / 15 (S2 - 15 min)	25 / 18.5 (S2 - 30 min)	25 / 18.5 (S2 - 30 min)
Total installed power	kVA	20	25	25	30	30
Dimension and weight (approx.)						
Floor space required (front x side)	m (in)	3.50 x 1.57 (138 x 62)	2.73 x 1.64 (107 x 65)	2.73 x 1.64 (107 x 65)	2.92 x 1.82 (115 x 72)	2.92 x 1.82 (115 x 72)
Net weight (approx.)	kg (lbs)	3,200 (7,000)	3,200 (7,000)	3,200 (7,000)	3,800 (8,400)	3,800 (8,400)



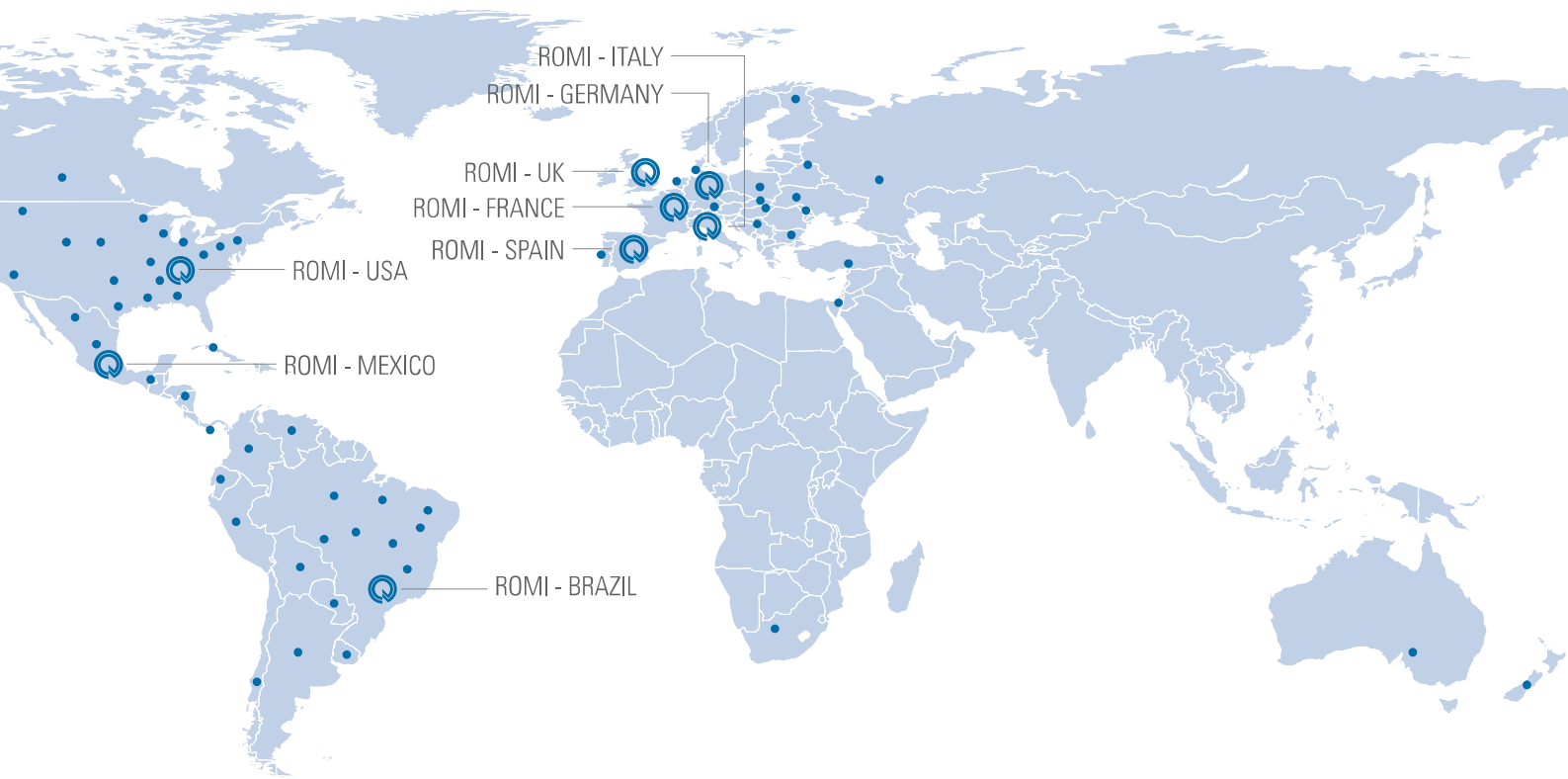
Technical specifications		ROMI GL 350	ROMI GL 350M	ROMI GL 350Y	ROMI GL 350B	ROMI GL 400 ^(***)	ROMI GL 400M ^(***)
Capacity							
Max. diameter over cover (Z-axis)	mm (in)	675 (27)	675 (27)	675 (27)	675 (27)	675 (27)	675 (27)
Maximum cutting diameter	mm (in)	400 (15.7)	390 (15.4)	350 (13.8)	350 (13.8)	400 (15.7)	400 (15.7)
Maximum cutting distance between centers	mm (in)	1,140 (45)	1,140 (45)	740 (29)	740 (29)	1,140 (45)	1,140 (45)
X-axis travel	mm (in)	230 (9.1)	250 (9.8)	243 (9.6)	243 (9.6)	230 (9.1)	250 (9.8)
Z-axis travel	mm (in)	1,140 (45)	1,140 (45)	740 (29)	740 (29)	1,140 (45)	1,140 (45)
Y-axis travel	mm (in)	-	-	100 (+50 / -50) (3.9) (+2/-2)	100 (+50 / -50) (3.9) (+2/-2)	-	-
B-axis travel (right headstock)	mm (in)	-	-	-	830 (33)	-	-
Headstock (left)							
Spindle nose	ASA	A2-6" / A2-8"	A2-6" / A2-8"	A2-6" / A2-8"	A2-6" / A2-8"	A2-8"	A2-8"
Spindle thru-hole	mm (in)	73 / 85 (2.9 / 3.3)	73 / 85 (2.9 / 3.3)	75 / 85 (3 / 3.3)	75 / 85 (3 / 3.3)	80 / 104 (3.1 / 4.1)	80 / 104 (3.1 / 4.1)
Bar capacity (diameter)	mm (in)	51 or 64 / 64 or 76 (2 or 2.5 / 2.5 or 3)	51 or 64 / 64 or 76 (2 or 2.5 / 2.5 or 3)	51 or 64 / 64 or 76 (2 or 2.5 / 2.5 or 3)	51 or 64 / 64 or 76 (2 or 2.5 / 2.5 or 3)	64 / 76 or 90 (2.5 / 3 or 3.5)	64 / 76 or 90 (2.5 / 3 or 3.5)
Speed range	rpm	4 to 4,500 / 3 to 3,500	4 to 4,500 / 3 to 3,500	5 to 5,000 / 4 to 4,000	5 to 5,000 / 4 to 4,000	3 to 3,000 / 2 to 2,500	3 to 3,000 / 2 to 2,500
Headstock (right)							
Spindle nose	ASA	-	-	-	A2-5"	-	-
Speed range	rpm	-	-	-	6 to 6,000	-	-
Feeds							
Rapid traverse (X axis)	m/min (in/min)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)
Rapid traverse (Z axis)	m/min (in/min)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)	30 (1,181)
Rapid traverse (Y axis)	m/min (in/min)	-	-	18 (0.71)	18 (0.71)	-	-
Rapid traverse (B axis) (right headstock)	m/min (in/min)	-	-	-	30 (1,181)	-	-
Turret							
Number of tools/stations	un	12	12	12	12	12	12
Tool holder type		Romi	BMT-65	BMT-65	BMT-65	Romi	BMT-65
Tool section: square	mm (in)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)	25 x 25 (0.98 x 0.98)
Tool section: bar (diameter)	mm (in)	40 (1.57)	40 (1.57)	40 (1.57)	25 (0.98) and 40 (1.57)	50 (2)	50 (2)
Axial driven tool holder	DIN 6499	-	ER-32 (Ø 3 to Ø 20 mm)	ER-32 (Ø 3 to Ø 20 mm)	ER-32 (Ø 3 to Ø 20 mm)	-	ER-32 (Ø 3 to Ø 20 mm)
Radial driven tool holder	DIN 6499	-	ER-32 (Ø 3 to Ø 20 mm)	ER-32 (Ø 3 to Ø 20 mm)	ER-32 (Ø 3 to Ø 20 mm)	-	ER-32 (Ø 3 to Ø 20 mm)
Speed range (driven tool)	rpm	-	4 to 4,000	4 to 4,000	4 to 4,000	-	4 to 4,000
Driven tool motor (S3 - 40% - 10 min)	hp / kW	-	8 / 6	8 / 6	8 / 6	-	8 / 6
Tailstock base							
Body positioning		Automatic (servodriven)	Automatic (servodriven)	Automatic (servodriven)	-	Automatic (servodriven)	Automatic (servodriven)
B axis travel	mm (in)	1,230 (48)	1,230 (48)	830 (33)	-	1,230 (48)	1,230 (48)
Rapid traverse (B axis)	m/min (in/min)	8 (315)	8 (315)	8 (315)	-	8 (315)	8 (315)
Cartridge for tailstock MT-4 (optional)		Live Center or Built-in	Live Center or Built-in	Live Center or Built-in	-	Built-in	Built-in
Power							
Left headstock motor AC	hp / kW	25 / 18.5 (S2 - 30 min)	25 / 18.5 (S2 - 30 min)	33 / 25 (**) (S2 - 30 min)	33 / 25 (**) (S2 - 30 min)	30 / 22 (S6 - 60% - 30 min)	30 / 22 (S6 - 60% - 30 min)
Right headstock motor AC	hp / kW	-	-	-	29 / 22 (**) (S2 - 30 min)	-	-
Total installed power	kVA	30	30	40	60	30	30
Dimension and weight (approx.) (*)							
Floor space required (front x side)	m (in)	4.85 x 2.06 (191 x 81)	4.85 x 2.06 (191 x 81)	3.83 x 2.08 (151 x 82)	3.83 x 2.08 (151 x 82)	4.85 x 2.06 (191 x 81)	4.85 x 2.06 (191 x 81)
Net weight (approx.)	kg (lbs)	8,450 (18,600)	8,450 (18,600)	9,500 (21,000)	9,600 (21,100)	8,600 (19,000)	8,700 (19,200)

(*) Without chip conveyor

(**) Motor built-in

(***) Available for Brazilian market.

WORLDWIDE PRESENCE



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