




| ROMI T 240 | ROMI T 350 | ROMI T 500

ENGINE LATHES

# **ROMI T** SERIES



**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.**

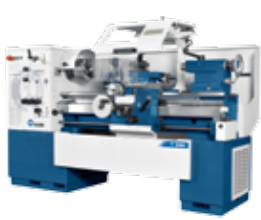
Romi covers all domestic territory through its sales subsidiaries network fully prepared to support customers supplying an extensive range of services from marketing to after sales.

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.





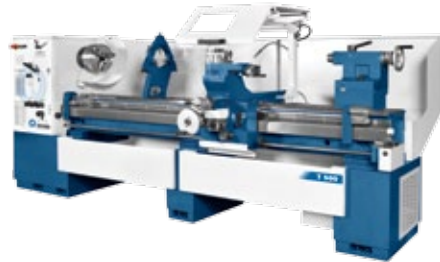
# ROMI T SERIES



| ROMI T 240



| ROMI T 350

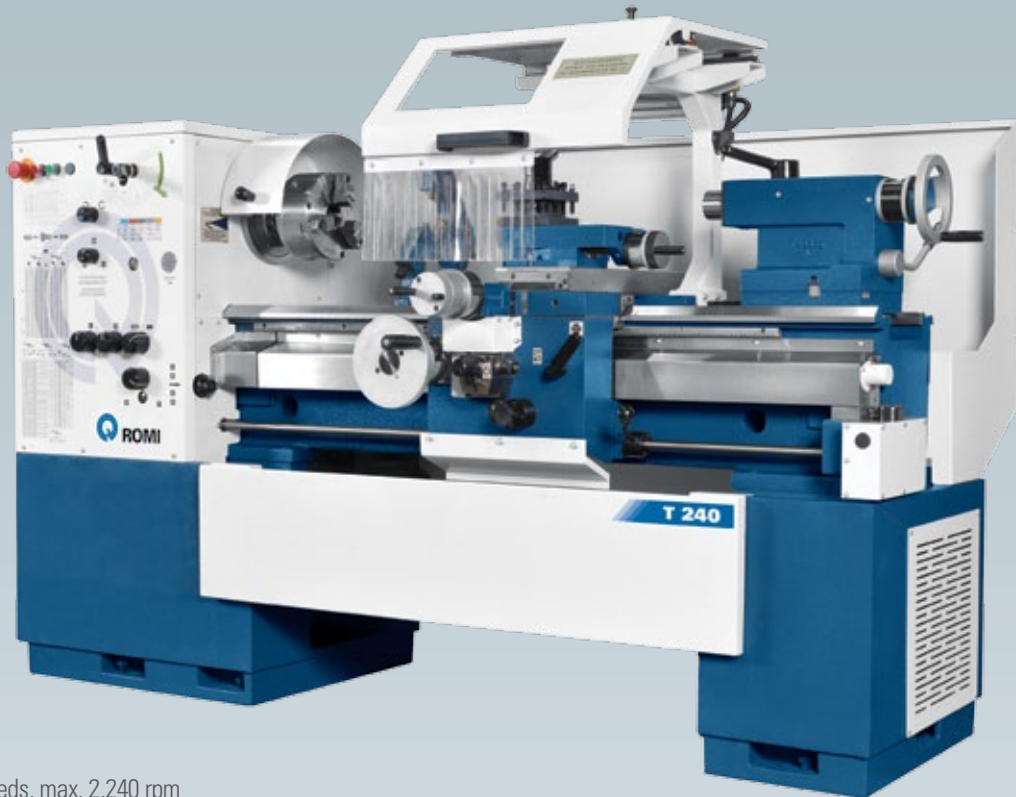


| ROMI T 500

**Engine lathes for tool room, production, maintenance and training.**

ROMI T Series machines are carefully designed to provide full security to the operator, according to NR-12 Safety Standards (Dec 17, 2010). They are safety machines, versatile and reliable for many types of applications.

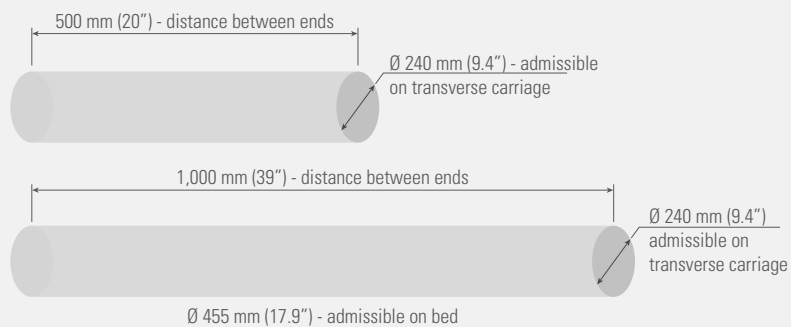
Flexibility and productivity  
for several types of application.



- Headstock: 20 speeds, max. 2,240 rpm
- Spindle nose ASA L0,  $\varnothing$  52 mm (2.0") thru-hole
- Main motor: 7.5 hp / 5.6 kW

## ROMI T 240

### Capacities





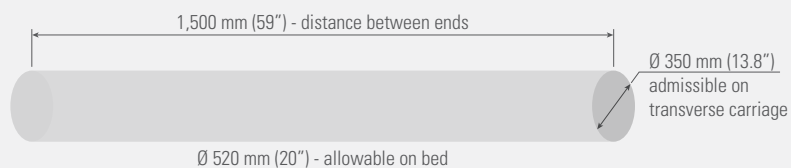
Mechanical and electrical projects according to NR-12 Standards.



- Headstock: 20 speeds, max. 2,000 rpm
- Spindle nose ASA L0,  $\varnothing$  52 mm (2") thru-hole
- Main motor: 7.5 hp / 5.6 kW

## ROMI T 350

### Capacities





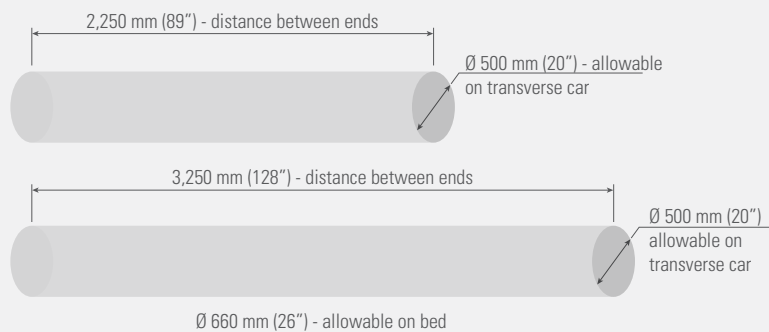
Rigidity, stability and accuracy for machining pieces with the aid of chucks and shafts.

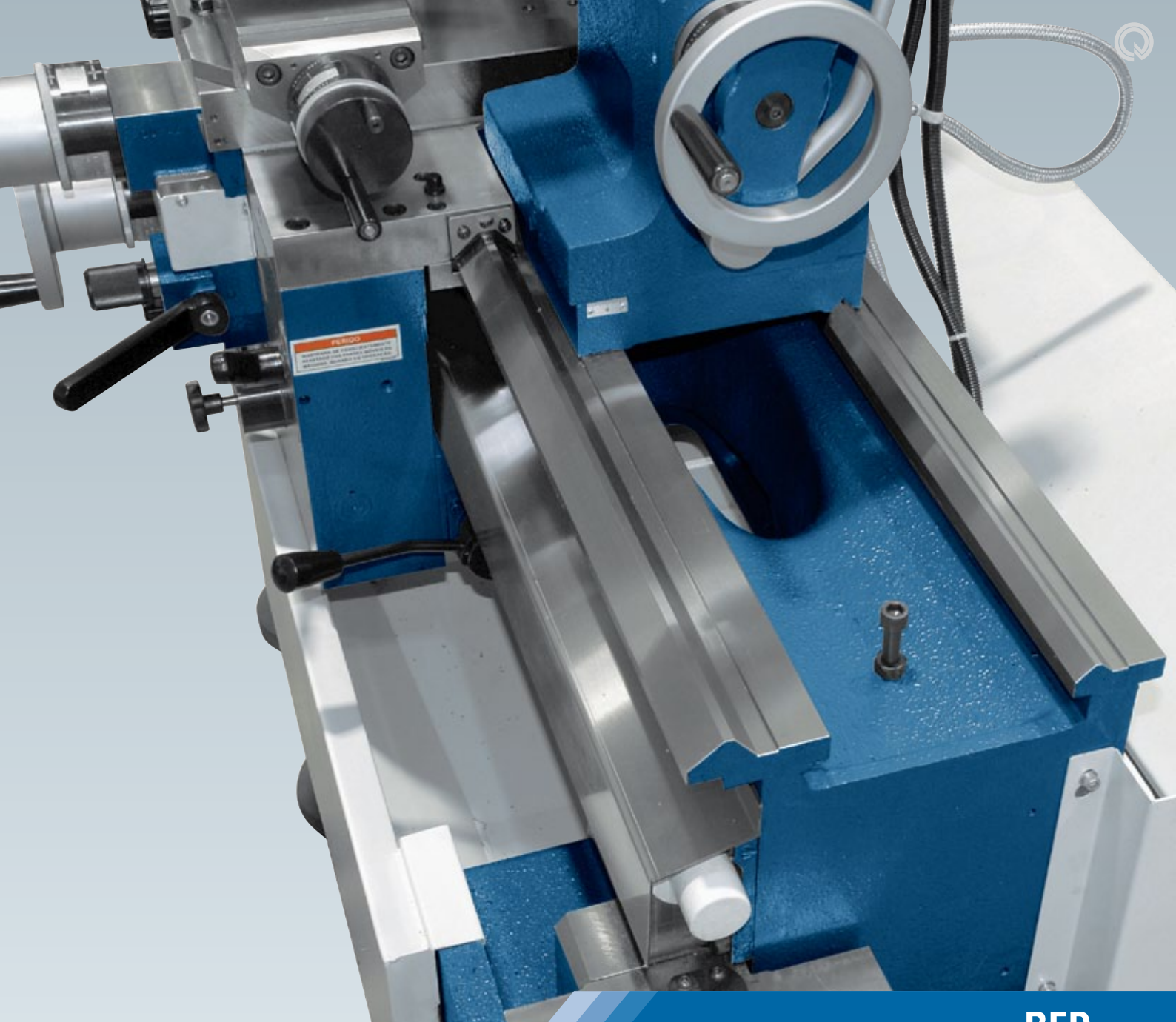


- Headstock: 20 speeds, max. 1,800 rpm
- Spindle nose ASA L0, Ø 52 mm (2.0") thru-hole
- Main motor: 7.5 hp / 5.6 kW

## ROMI T 500

### Capacities



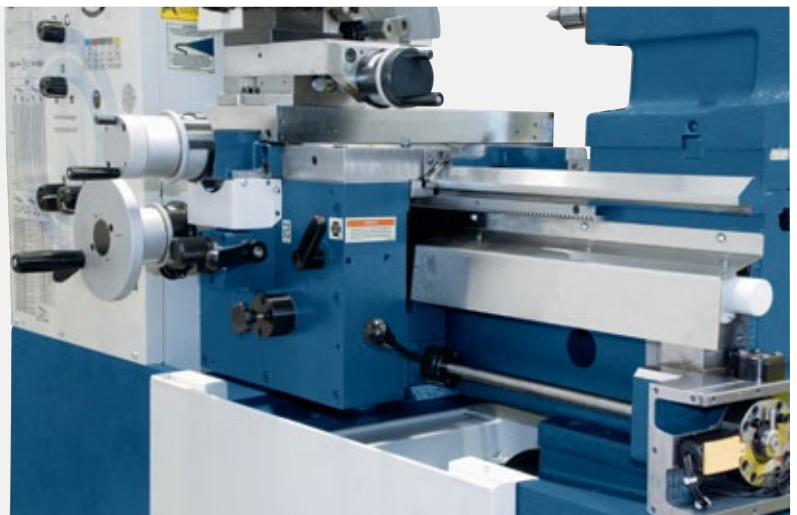


## BED

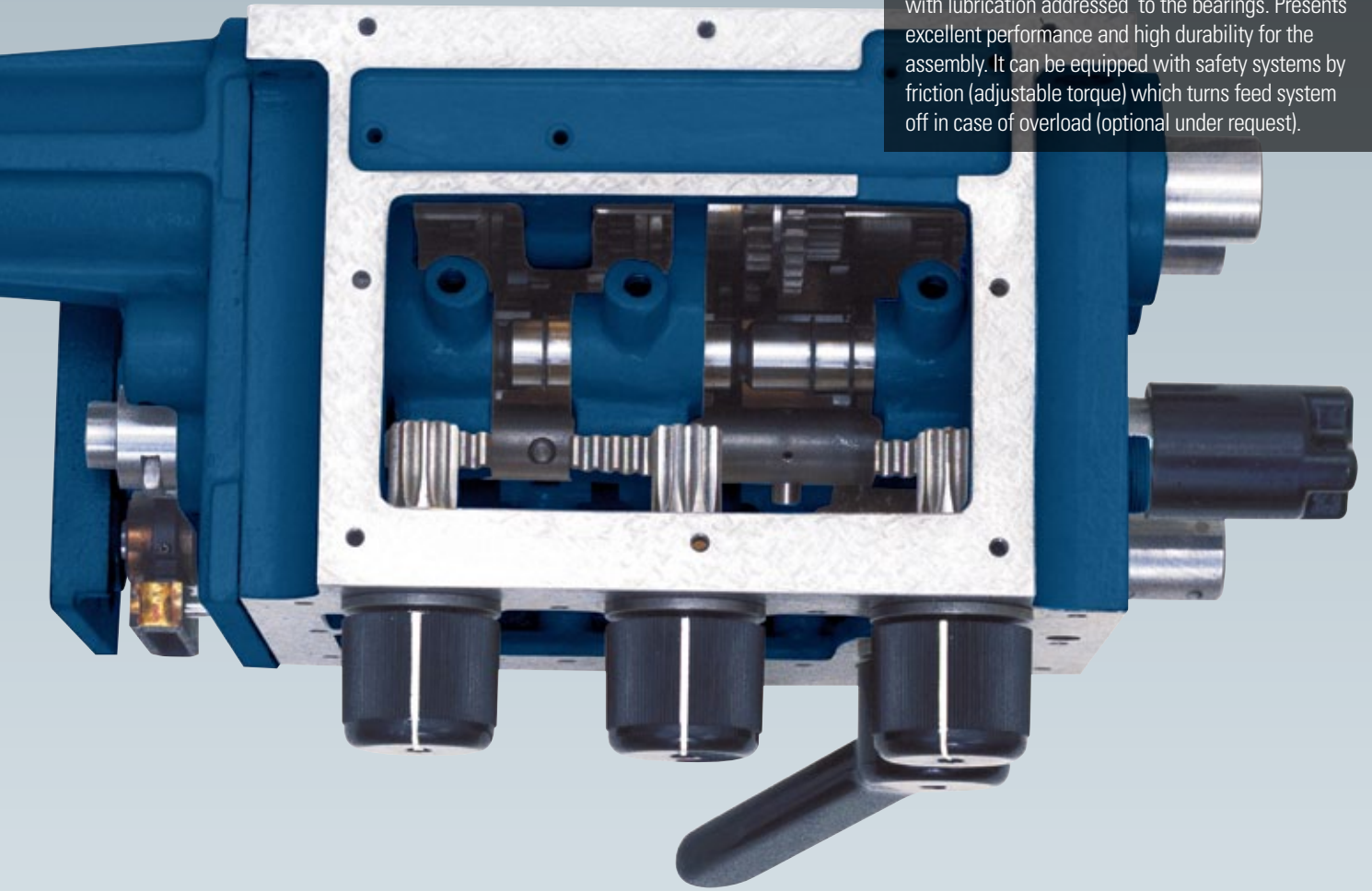
### **Lead screw and feed rod protection system**

Manufactured in stainless steel, provides full protection and security, not allowing any operator contact with the lead screw and feed rod, avoiding any type of accident.

It also protects the lead screw and feed rod against chips and cutting fluid, contributing for better lubrication system.



Several types of feeds and thread pitches are offered. Its gears and shafts are hardened and run in oil bath with lubrication addressed to the bearings. Presents excellent performance and high durability for the assembly. It can be equipped with safety systems by friction (adjustable torque) which turns feed system off in case of overload (optional under request).



## GEAR BOX AND FEEDS

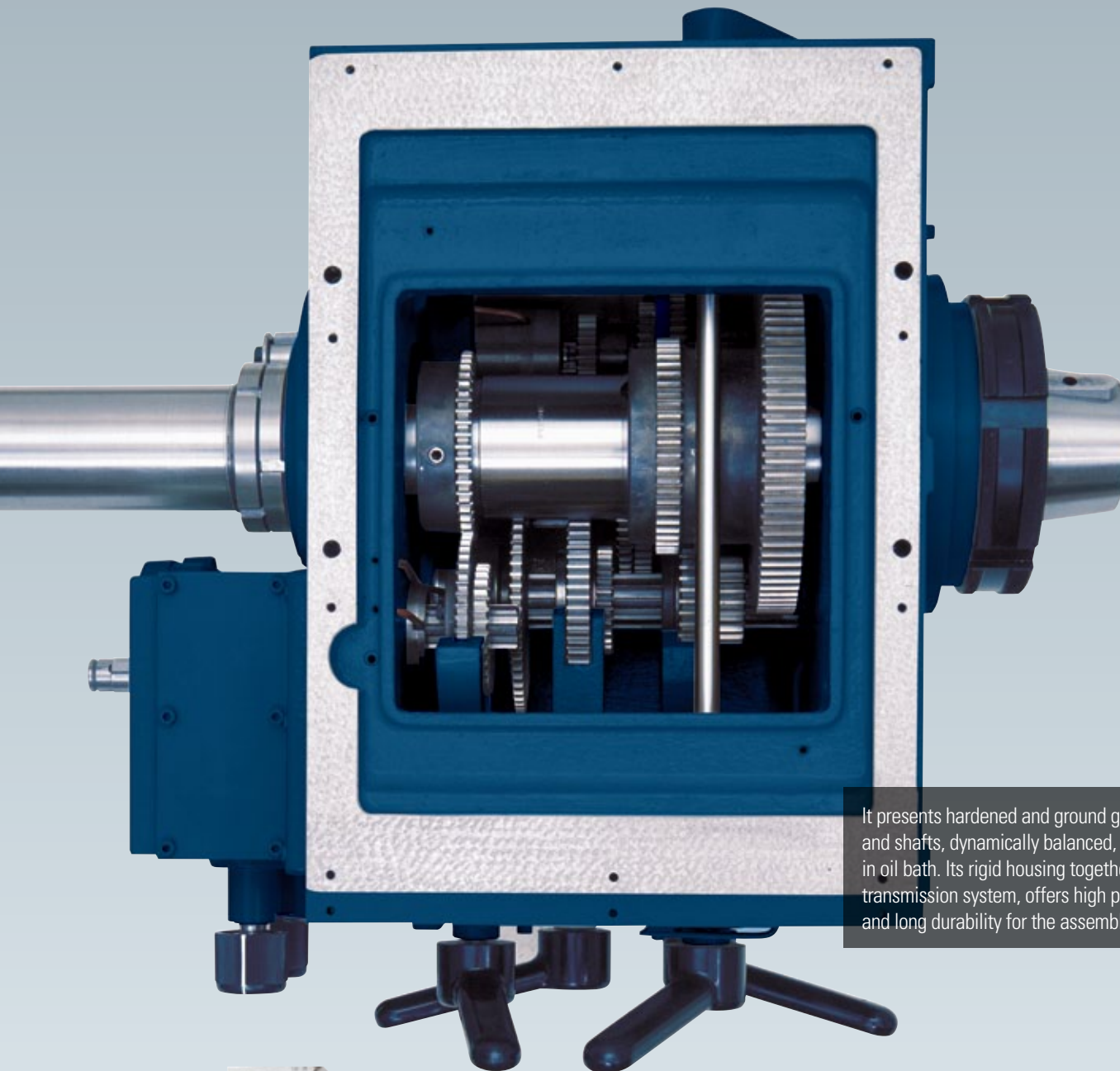
### Endgearing

Equipped with acoustic protection and gears made by steel and Delrin to provide low noise during machining. Two configurations can be possible by changing just one gear: One for Metric and Inches threads, and other for Module and Diametral Pitch.

Delrin gears can be replaced by metallic gear (optional under request)







It presents hardened and ground gears and shafts, dynamically balanced, running in oil bath. Its rigid housing together with transmission system, offers high performance and long durability for the assembly.

## HEADSTOCK



### Safety micro switch for headstock access

For operator safety, machine can not be turned on if the door is open NR-12 (Dec 17, 2010). Micro switch has anti-fraud system.

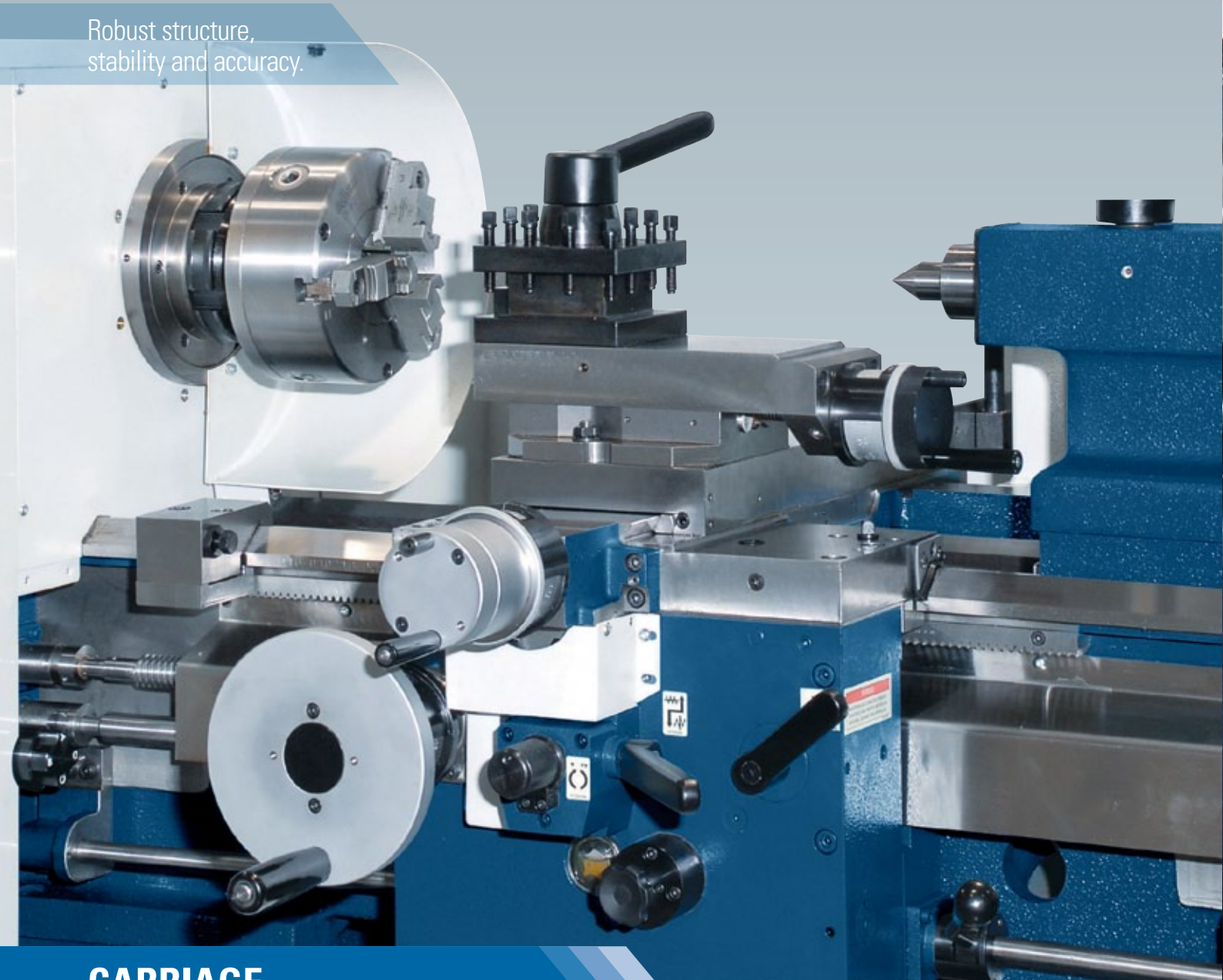
### Braking system

Electromagnetic brake coupled directly to the motor offers immediate spindle stop with low noise. It has automatic safety system that activates the brakes if an energy power failure occurs.

### Transmission system

ROMI T lathes has motor-headstock transmission system with pulleys and belt "Multi-V", offering higher efficiency in power and torque transmission.

Robust structure,  
stability and accuracy.



## CARRIAGE

Presents robust structure. It incorporates a system to eliminate backlash between nut and cross feed screw and a system for lubrication thru manual operation pump.

### Turret

4-station turret  
with swivel base.







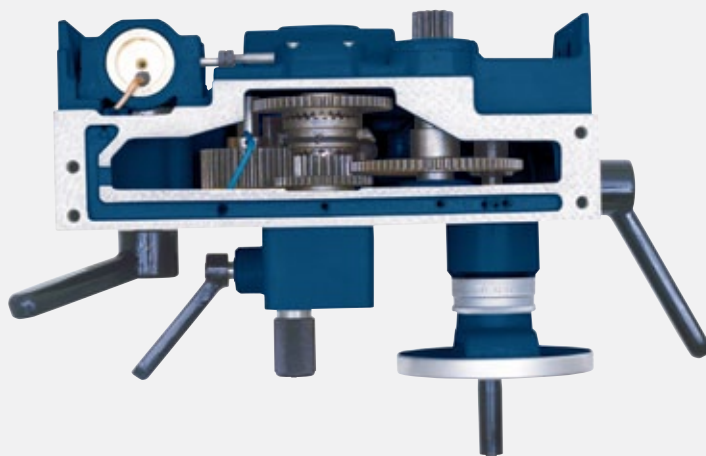
### Manual longitudinal feed handwheel

Manual longitudinal handwheel remains stationary during turning operations with longitudinal automatic feed or during execution of threads with leadscrew to assure safety for the operator, avoiding any type of accident. Dual graduated in mm and inch.

## APRON

### Apron

Utilizes hardened gears and shafts running in oil bath. It features smooth engagement of cross and longitudinal feed levers. During thread cutting the half-nut is engaged and automatically receives additional lubrication.





### Chuck guard

It is equipped with an anti-fraud interlocked system that does not allow to power on the machine if chuck protection is open. It does not allow the jaw torque wrench to remain on the chuck avoiding accidents when the spindle is turned on. Minimizes the projection of chips and cutting fluid splashes.



## GUARDS



### Splash guard

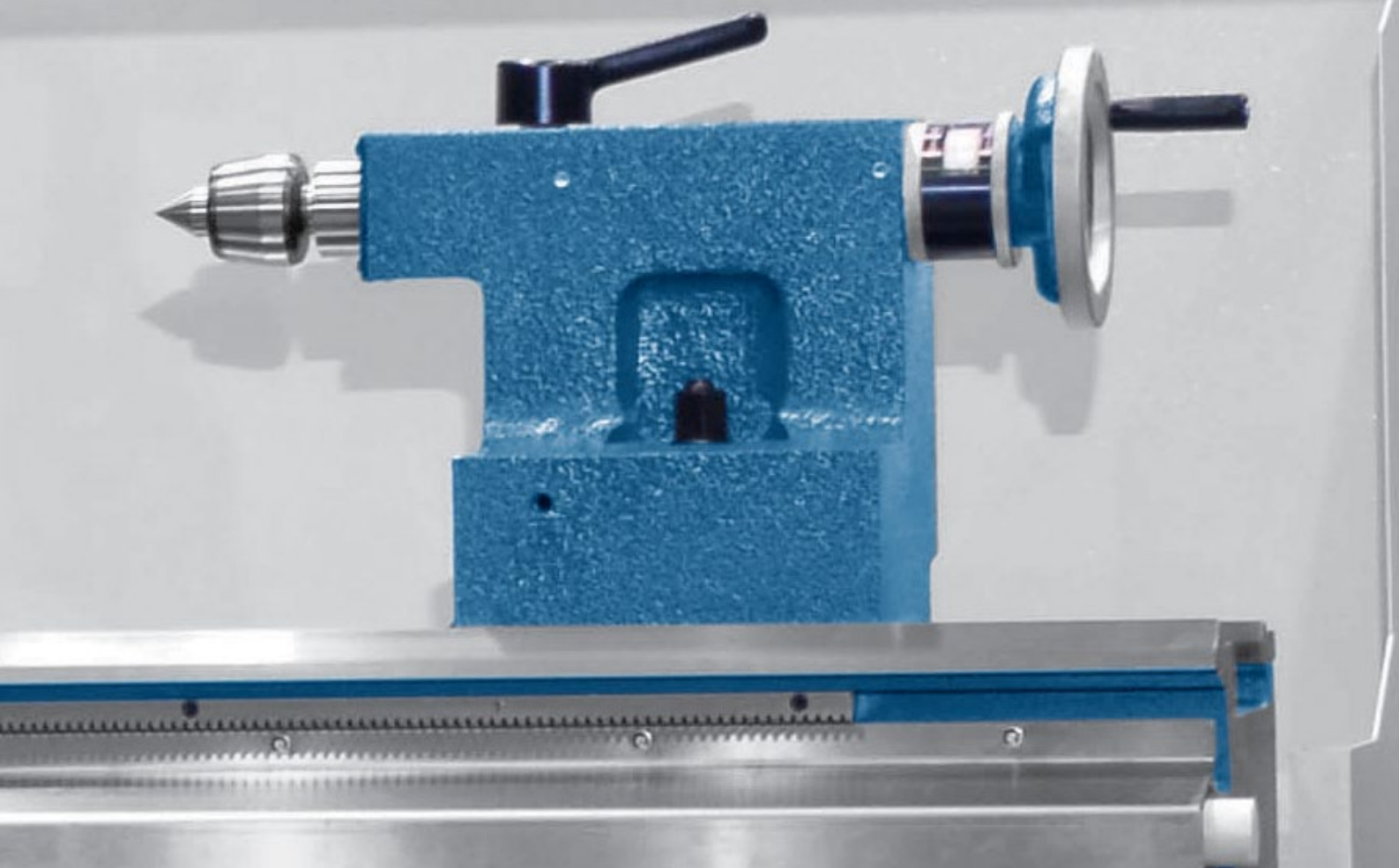
Equipped with polycarbonate viewer protection. It has anti-fraud system, not allowing machine turn on if the splash guard is open.

### Security system with micro stop switch for longitudinal travel (optional)

It has position adjustment to interrupt longitudinal travel, putting limit to travel and avoiding collisions. This system is suitable for training centers. (available for ROMI T 240)



Manual tailstock MT-4 x 60° center, with fixation through screws and nuts and hardened and ground quill graduated in millimeters and inches.



## TAILSTOCK

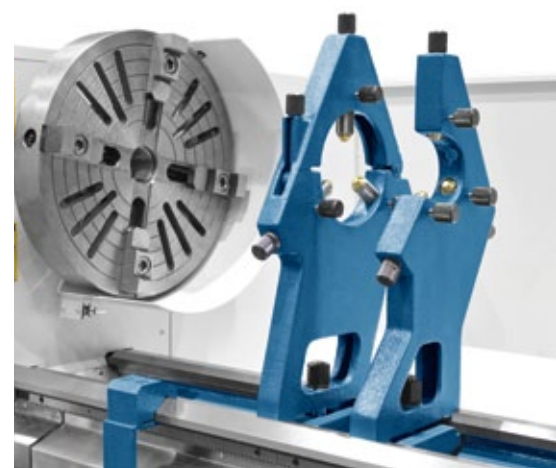


### Rear guard

It minimizes the chips projection and cutting fluid splash from the rear of the machine during machining operations.

### Rests

In order to give support for long pieces (like shafts and tubes) ROMI T Series lathes can be equipped with different types of rests (optionals) ensuring a perfect support for pieces to be machined.



Technical specifications		ROMI T 240	ROMI T 350	ROMI T 500
<b>Capacity</b>				
Centers height	mm (in)	220 (8.7)	268 (10.6)	342 (13.5)
Distance between centers	m (in)	0.5 (20) / 1.0 (39)	1.5 (59)	2.25 (89) / 3.25 (128)
Swing over bed	mm (in)	455 (17.9)	520 (20.5)	660 (26.0)
Swing over saddle wings	mm (in)	390 (15.4)	450 (17.7)	595 (23.4)
Swing over cross slide	mm (in)	240 (9.4)	350 (13.8)	500 (19.7)
Swing thru gap	mm (in)	-	-	855 (33.7) (**)
Gap length at front face	mm (in)	-	-	220 (8.7) (**)
Cross slide travel	mm (in)	250 (9.8)	300 (11.8)	350 (13.8)
Tool post carriage travel	mm (in)	120 (4.7)	120 (4.7)	120 (4.7)
Tool section	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)
<b>Bed</b>				
Width	mm (in)	305 (12.0)	305 (12.0)	305 (12.0)
Height	mm (in)	334 (13.1)	334 (13.1)	334 (13.1)
<b>Headstock</b>				
Spindle nose	ASA	L0	L0	L0
Spindle thru-hole	mm (in)	52 (2.0)	52 (2.0)	52 (2.0)
Spindle taper	grades	1° 26'	1° 26'	1° 26'
Reduction sleeve taper hole	CM	4	4	4
Spindle diameter at front bearing	mm (in)	83 (3.3)	83 (3.3)	83 (3.3)
Number of speeds		20	20	20
Speed range	rpm	44 to 2,240	39 to 2,000	35 to 1,800
<b>Tailstock</b>				
Quill travel	mm (in)	125 (4.9)	125 (4.9)	125 (4.9)
Quill diameter	mm (in)	60 (2.4)	60 (2.4)	60 (2.4)
Quill taper	CM	4	4	4
<b>Thread and feeds gearbox</b>				
Longitudinal feed	mm (in)/rot		(68) 0.05 (0.002) to 8.856 (0.349)	
Cross feed	mm (in)/rot		(68) 0.021 (0.0008) to 3.704 (0.146)	
Inch threads	fpp		(73) 42 to 0.5	
Metric threads	mm (in)		(123) 0.4 (0.016) to 56 (2.2)	
Module threads	Mod		(60) 0.1 to 14	
Diametral Pitch threads	DP		(80) 168 to 2	
Lead screw	mm (in)		6 (0.24)	
<b>Power</b>				
Main motor	hp	7.5	7.5	7.5
Coolant pump	hp	0.125	0.125	0.125
<b>Dimensions and weight (approx.)</b>				
Floor space required (front x side)	mm (in)	1,710 x 1,110 (67 x 44) (E.P. (*) = 0.5 m) 2,310 x 1,110 (91 x 44) (E.P. (*) = 1.0 m)	2,810 x 1,260 (111 x 50)	3,560 x 1,480 (140 x 58) (E.P. (*) = 2.25 m) 4,560 x 1,480 (180 x 58) (E.P. (*) = 3.25 m)
Net weight	kg (lbs)	1,450 (3,200) (E.P. (*) = 0.5 m) 1,750 (3,900) (E.P. (*) = 1.0 m)	2,050 (4,500)	2,550 (5,600) (E.P. (*) = 2.25 m) 3,300 (7,300) (E.P. (*) = 3.25 m)

(\*) E.P. = between centers (\*\*\*) Only for ROMI T 500 - 3.25 m between centers





## Standard equipment

- Apron equipped with manually operated pump for bed and cross slide guides lubrication, and command lever with safety lock
- Chip pan
- Gap bed (ROMI T 500 x 3,250 mm)
- Manual pump for bed and cross slide guideways lubrication
- 20 speeds headstock, ASA L0 spindle nose, Ø 52 mm through hole, equipped with CM-4 reduction sleeve and CM-4 x 60° dead center
- Manual tailstock MT-4 x 60° center, with fixation through lever (ROMI T 240) and through nuts and bolts (ROMI T 350 / ROMI T 500), with quill graduated in millimeters and inches
- Enclosed lead screw and feed rod set
- Thread and feed gearbox for making threads with only two combinations at the end gearing
- Complete documentation on CD
- Electrical installation for 220 / 380 / 440 Vca, 50 / 60 Hz
- Set of wrenches for machine operation
- Set of levelling screws and nuts
- AC motor for headstock drive, with built-in electromagnetic safety brake
- Standard colors: Munsell Blue 10B-3/4 and gray RAL 7035
- Mechanical project according to NR-12 Safety Standard
- Mobile protection for operator with safety interlocked system by microswitch and anti-fraud fixing
- Rear guard
- Chuck guard with safety interlock system by micro switch and anti-fraud fixing
- Enlarged threading turning system incorporated to headstock

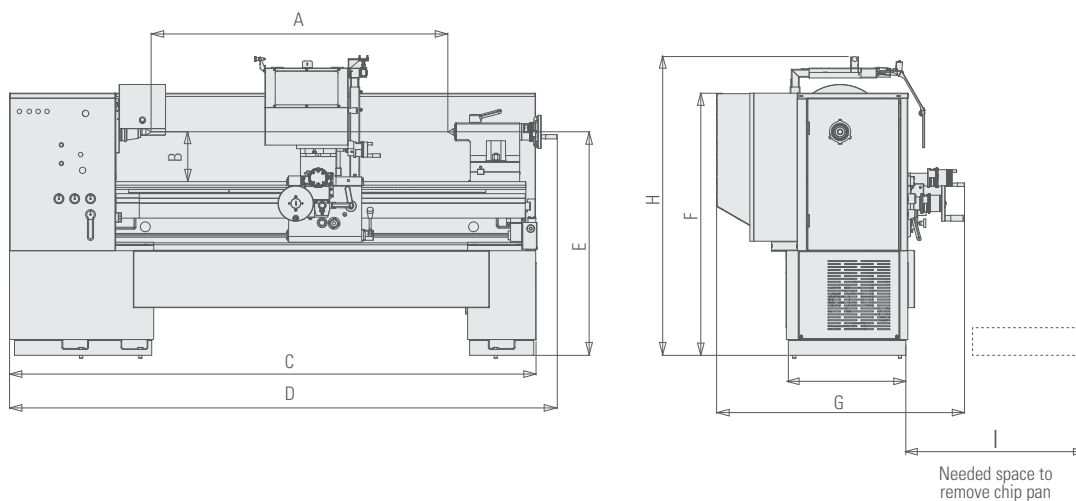
## Optional equipment

- Complete coolant system
- Wooden box for packing
- Adapter plate for universal chuck ASA L0, Ø 200 mm or Ø 250 mm
- Adapter plate for universal chuck ASA L0, Ø 210 mm or Ø 250 mm (to be fitted according to customer's chuck)
- Longitudinal carriage stop
- Micro stop switch
- Sealed worklight
- Follow rest with bronze tips, Ø 8 to Ø 50 mm diameter capacity
- Steady rest (open) with bronze tips, Ø 8 to Ø 80 mm capacity
- Steady rest with bronze tips, Ø 60 to Ø 305 mm capacity, supplied with set of cartridges (only for ROMI T 500)
  - additional set of bronze tips, Ø 152 to Ø 305 mm capacity
  - additional set of rollers, Ø 60 to Ø 205 mm capacity
  - additional set of rollers, Ø 152 to Ø 305 mm capacity
- Steady rest (closed) with bronze tips, Ø 8 to Ø 152 mm capacity, supplied with set of cartridges for Ø 80 to Ø 80 mm capacity
  - additional set of bronze tips, Ø 80 to Ø 152 mm capacity
  - additional set of rollers, Ø 8 to Ø 80 mm capacity
  - additional set of rollers, Ø 8 to Ø 152 mm capacity
- 4-jaw independent chuck, Ø 350 mm, ASA L0 (all versions) or Ø 450 mm (only for ROMI T 350 and ROMI T 500)
- Faceplate ASA L0, Ø 220 mm
- 3-jaw universal chuck, solid jaws, cast iron body Ø 200 mm or Ø 250 mm
- Special painting
- MT-4 live center
- 4-position square tool post mounted on a swivel base
- Safety device with microswitch stops for longitudinal travel (500 mm or 1,000 mm)

### Optionals under request

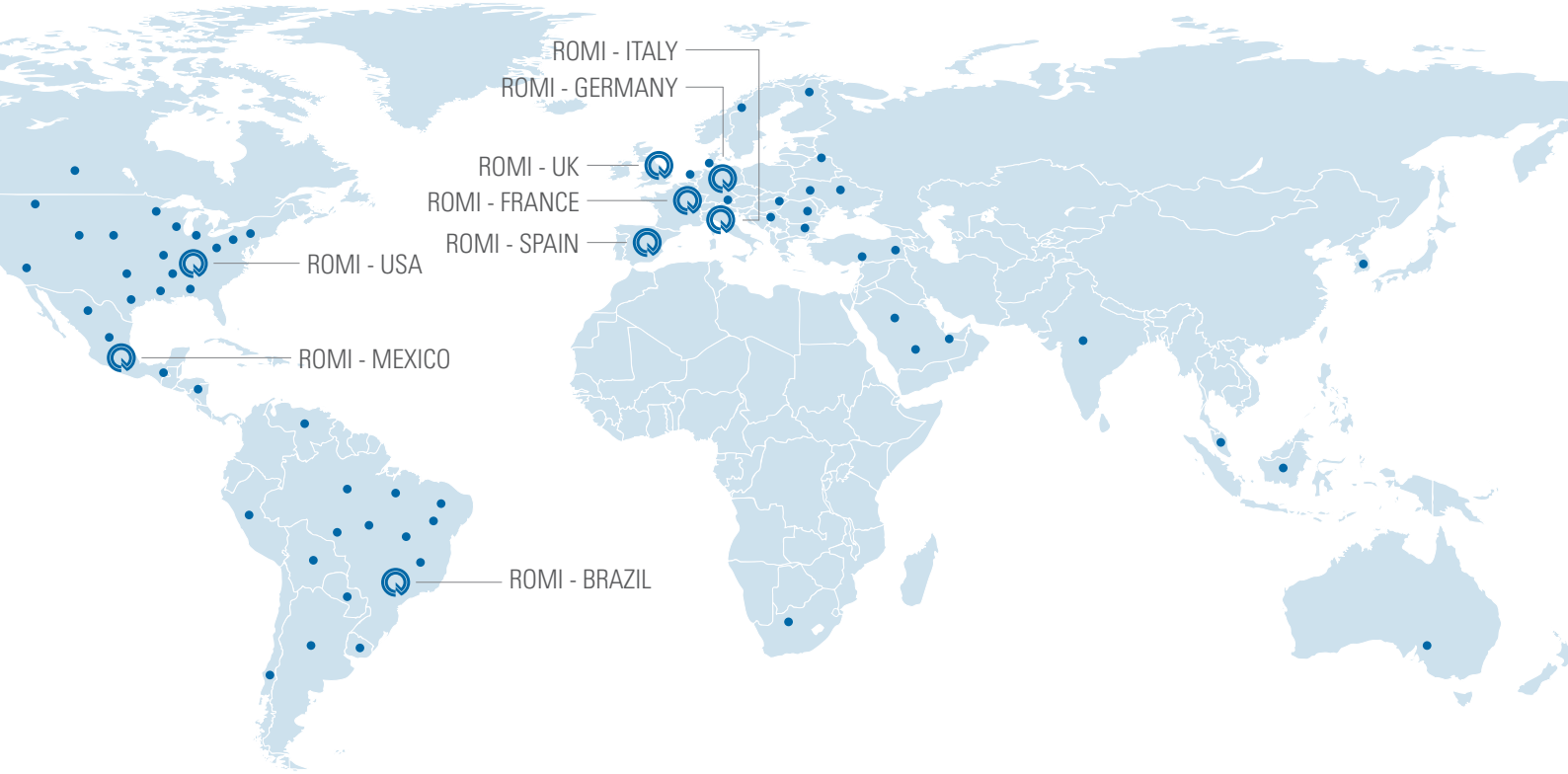
- Metallic gear in place of standard Delrin gear
- Safety system (adjustable torque) for feed system disengagement in case of overloads

## Machine dimensions - dimensions in mm (in)



	E.P.(*)	A	B	C	D	E	F	G	H	I
<b>ROMI T 240</b>	0.5 m	530 (21)	205 (8)	1,710 (67)	1,810 (71)	1,084 (43)	1,280 (50)	1,110 (44)	1,460 (57)	560 (22)
	1.0 m	1,030 (41)	205 (8)	2,130 (84)	2,310 (91)	1,084 (43)	1,280 (50)	1,110 (44)	1,500 (59)	560 (22)
<b>ROMI T 350</b>	1.5 m	1,530 (60)	252 (10)	2,630 (104)	2,810 (111)	1,132 (45)	1,328 (52)	1,260 (50)	1,500 (59)	560 (22)
<b>ROMI T 500</b>	2.25 m	2,280 (90)	326 (13)	3,380 (133)	3,560 (140)	1,205 (47)	1,402 (55)	1,480 (58)	1,660 (65)	560 (22)
	3.25 m	3,280 (129)	326 (13)	4,380 (172)	4,560 (180)	1,205 (47)	1,402 (55)	1,480 (58)	1,660 (65)	560 (22)

(\*) E.P. = between centers



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United States



Germany



England



France



Spain



Italy



Germany - B+W



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