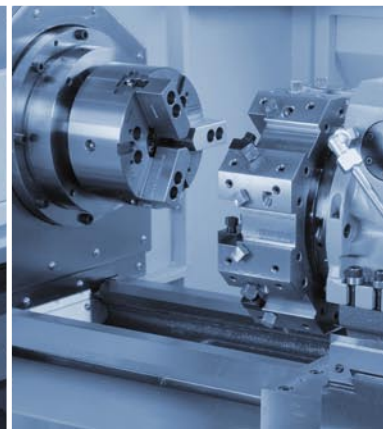




ROMI[®]

CNC LATHES



ROMI C Series

ROMI C 420

ROMI C 510

ROMI C 620

ROMI C 680

Romi: one of the most recognized Machine Tools manufacturer of the market

Founded in 1930, Romi is a company capable of generating innovative solutions that add value for its customers.

Romi is recognized by its leadership in the Machine Tools, Plastic Processing Machines and Cast Iron Parts markets.

Its industrial complex is one of the most modern and advanced in the capital goods industry.

Romi continuous investment in research and development drives the company to supply customers with state-of-the-art products.

The high technology of Romi machines brings high competitiveness for its customers.

Romi R&D is focused on it.

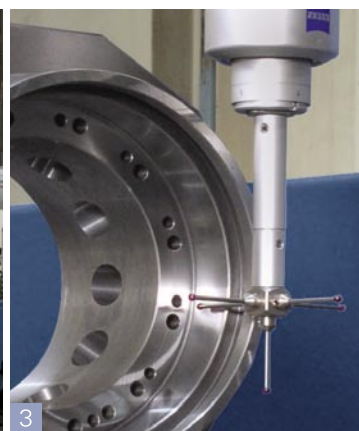
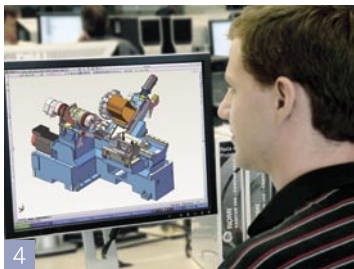
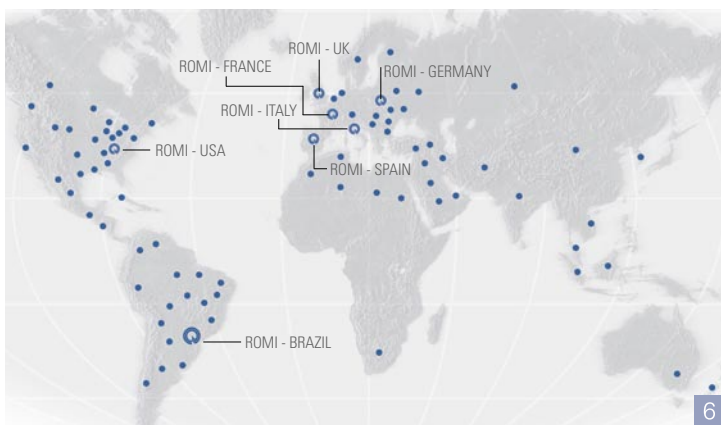
The result is an advanced machine tool line that incorporates the best of the worldwide technology and provides significant productivity increases that result in improved profitability for small, medium and large companies.

Investing in the **innovation** and **quality** as market differential



Romi Industrial Site view, in Santa Bárbara d'Oeste SP, Brazil

- 1 Plant 16 - Machine tools assembly
- 2 Plant 19 - Heavy duty CNC lathes assembly
- 3 Plant 15 - Injection molding machines assembly
- 4 Plant 14 - Electronic panels assembly
- 5 Plant 11 - Heavy parts machining
- 6 Plant 82 - Foundry new plant



Quality and Environmental Management

Romi Quality System and Environmental Management System (EMS) is assured in compliance with ISO 9001:2008, ISO 14001:2004 and ISO/TS 16949:2002 international standards.

Always close to the customer

Romi Sales and Service network covers all the Brazilian territory through more than 30 offices.

International market is covered by its subsidiaries in the USA, Germany and Italy and along with distributors located at strategic logistic centers around the world that are fully prepared to support customers supplying an extensive range of services: spare parts, technical information, performing tests and machining demonstrations.

- 1 Plant 16 machine tools production line. One of the most modern and best-equipped machine tool factory in the world
- 2 Romi machine tools are finish machined using large capacity and high quality equipment
- 3 CNC Coordinate Measuring Machine (CMM) used to inspect complex machined parts
- 4 Development of projects by CAD System of latest generation
- 5 Spindle cartridges are assembled in an ultra clean room, where the temperature, relative humidity and atmospheric particles are strictly controlled
- 6 Romi is a Brazilian multinational company, with operations in over 60 countries



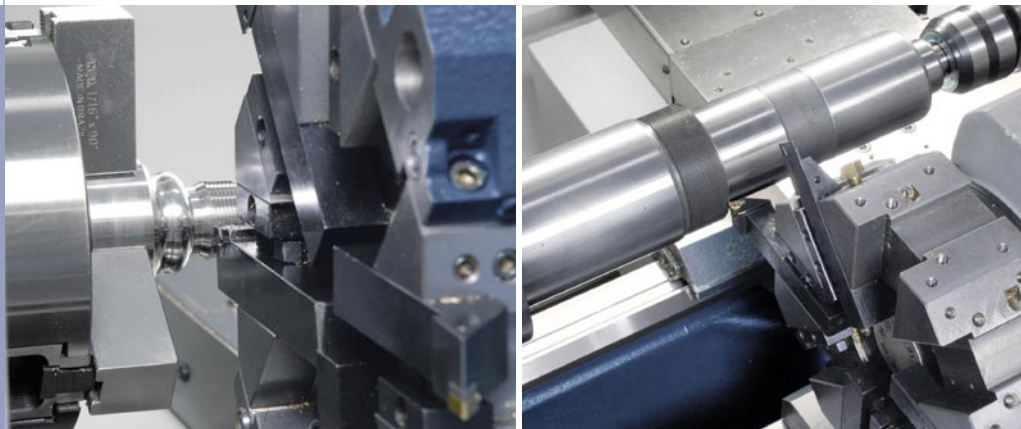
Providing versatility and assured productivity at multiple applications

The ROMI C 420, ROMI C 510, ROMI C 620 and ROMI C 680 CNC Lathes are truly versatile machines that can handle many different types of workpieces, with high power cuts, rapid tool positioning and accuracy.

The high performance and reliable hardware of the Siemens Sinumerik 802D CNC Control offers multiple means of programming and operating, including a Graphic module for machining simulation.

These machines can be equipped with RMMP Romi Manual Machining Package (optional) that allows simple operations to be completed without any type of programming. It is as simple to use as an Engine Lathe but with the added capability and productivity of a CNC Lathe.

Designed to offer **flexibility** and **high machining productivity**



Illustrative image
Equipped with optional



Illustrative image
Equipped with optional



Illustrative image
Equipped with optional



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Equipped with optional

Robust cast iron structure, providing **rigidity** and **high capacity to absorb machining efforts**

1 Headstock

Driven by a high tech AC motor through pulleys and poly-V belt, Spindle speed range is continuous and infinitely variable.

The main spindle is supported by high precision bearings permanently lubricated.

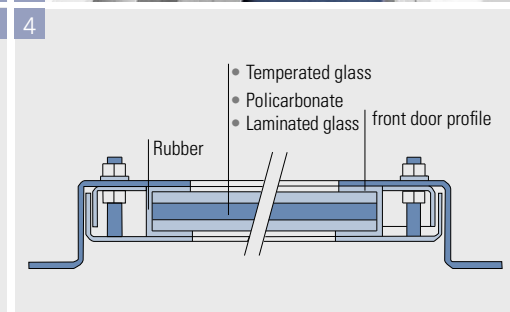
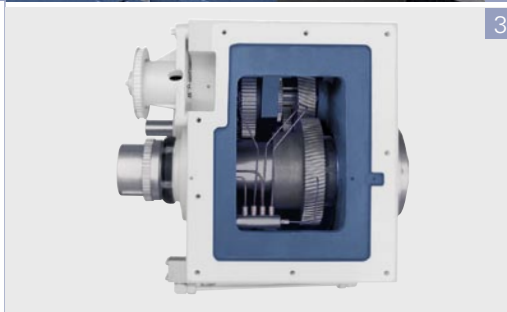
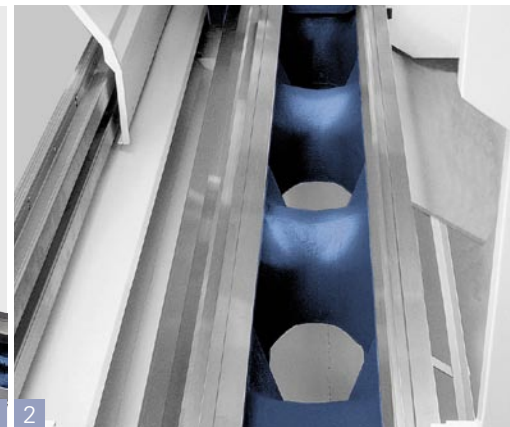
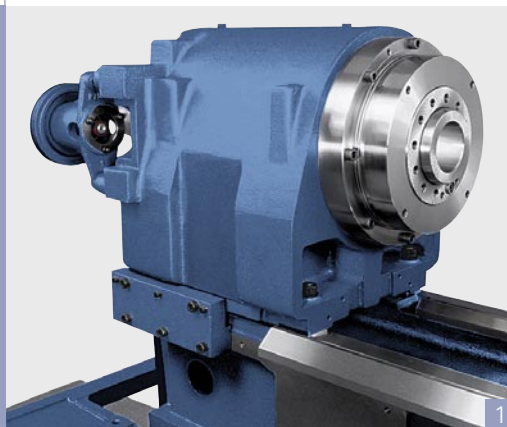
The high load bearings capacity combined with a heavy cast iron housing, provide rigidity and high vibration absorption under the most severe cutting conditions, therefore obtaining excellent-precision parts.

2 Bed

Supported by internally ribbed cast iron columns, providing great vibration absorption over a wide range of machining conditions.

The induction-hardened and ground prismatic and plane guideways (Vee and Flat) constitute a self adjusting system assuring permanent saddle contact on the bed.

These features offer rigidity, stability and accuracy, throughout the entire range of power output of the machine.



3 Geared headstock (*)

Offers two ranges of rotation with high torque at low revs.

It has hardened and ground gears.

4 Safe view finder

Offers wide visibility for the operator.

The safety, validated by ballistics tests, is the result of the structure composed by a internal layer of temperate glass, intermediate layer of polycarbonate and a external layer of laminated glass.

(*) Exclusive for ROMI C 620 and ROMI C 680 - geared version



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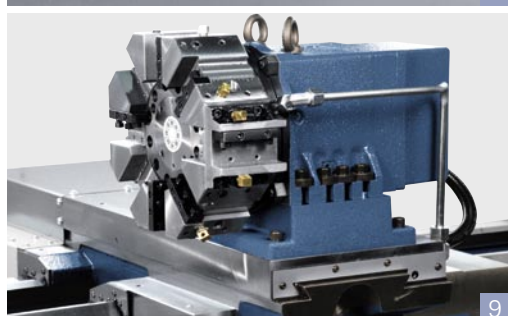
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Illustrative image

- 5 Universal chuck (optional)
- 6 Pneumatic chuck (optional)
- 7 Hydraulic chuck (optional)
- 8 Quick change toolholder (optional)
- 9 8-station disk type automatic turret (optional)
- 10 Gang-tooling plate (optional)
- 11 Manual tailstock (standard)
- 12 Pneumatic operated tailstock (optional)
- 13 Hydraulic operated tailstock (optional)

CNC lathes for
multiple operations
with several chuck
and toolholder
configurations

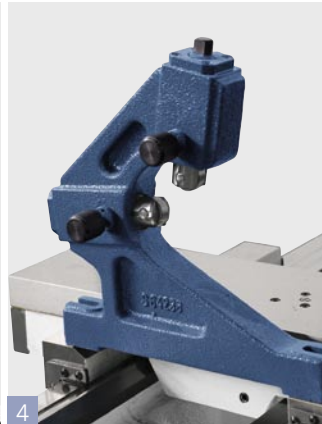
Optional equipment and accessories increase productivity and the machining efficiency



Steady rests (optional)

To support long workpieces, such as axes, pipes, etc., the ROMI C Series offers different types of steady rest

- 1 Steady rest U type (ROMI C 420 / C 510 / C 680)
- 2 Steady rest (open) (ROMI C 420 / C 510)
- 3 Steady rest (closed) (ROMI C 420 / C 510 / C 620 / C 680)
- 4 Follow rest (ROMI C 420 / C 510)



Illustrative images



5 Oil skimmer

Contributes to increase coolant fluid useful life because it separates the lubricating oil from the coolant fluid and it minimizes some alterations of the coolant fluid characteristics.

6 Foot switches (optional)

For automatic chuck and automatic tailstock quill operation.

7 Chip conveyor (optional)

The chip generated by the machining flows directly to the chip box, where are removed by the chip conveyor.

In this way, the heat transferred to the machine mechanical components is minimum, contributing to keep the thermal and geometric stability of the equipment.



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8 High pressure coolant pump (optional)

Supplied with 2 bar / 29 PSI pressure (ROMI C 420, C 510, C 620 and C 680), and 7 bar / 101PSI pressure (ROMI C 510, C 620 and C 680).

RMMP - Romi Manual Machining Package (optional)

This application allows the user to operate the machine in both manual and auto mode. There are three levels of operation according to the operator skill.

Manual Mode

The operator machines the part as on a conventional lathe using Control Apron.

In this mode, manual operations such as parallel turning, taper turning, radius turning, drilling and grooving can be performed.

Teach In Mode

In this mode the operator saves the operations step by step as he is machining the first part. The operator can then save these into a program for use on later parts.

Both manual operations and cycles operations can be saved together into the same program and the programs can then be saved in the CNC memory or a compact flash card.

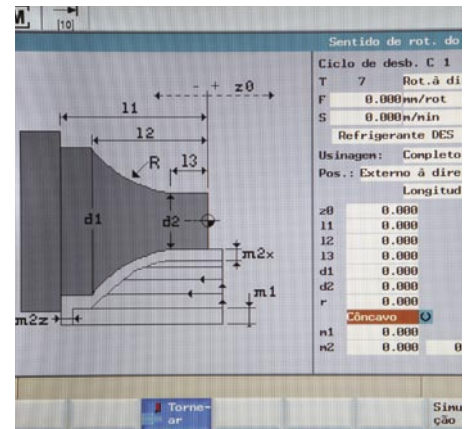
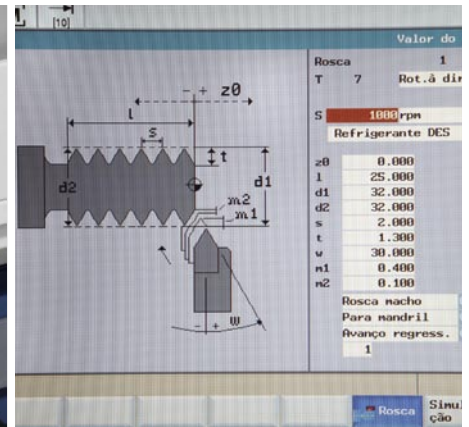


Control Apron (optional)

Cycles Mode

In this mode the machinist operates the machine in semi automatic mode. He fills in the conversational screen fields for feed, speed and cycle data, then moves the tool to a safe starting point using the Control Apron and then presses the Cycle Start button to perform the cycle.

Cycles as drilling, tapping, grooving / parting, threading and roughing / finishing turning can also be performed. There are fixed cycles and free form for turning. The filling in the cycles fields are aided by a graphic screen.



Note: There are conversational screens for the machine setup (zero workpiece and tools measuring)

CNC Siemens
802D sl-PLUS
and 802D sl-PRO,
**high technology,
excellent performance
and reliability**

CNC Siemens 802D sl-PLUS

Applied in ROMI C 420, ROMI C 510
and ROMI C 620



The Siemens Sinumerik 802D sl-PLUS and 802D sl-PRO CNC presents high-technology hardware and software.

Color 10.4" LCD display with 16 softkeys to select functions.

Its panel is provided with navigation keys, RS232, Compact Flash Card and USB interface (exclusive for Siemens 802D sl-PRO), offering the user more flexibility for loading programs and parameters.

Programming

The CNC 802D sl-PLUS and 802 sl-PRO offers to the programmer complete resources for part program creation and editing as required by most expert users of CNC machines, facilitating and activating the entire programming process, even for the most geometrically complex parts.

It offers functions for linear and circular interpolation, threading and referencing, as well as coordinate systems, Macro B, 64 offset pairs, tool life management, 1 Mbytes (CNC Siemens 802 sl-PLUS) and 3 Mbytes (CNC Siemens 802 sl-PRO) of part program storage capacity, background editing, canned cycles for turning and facing, multiple repetitive cycles for turning, drilling cycles, and other functions.

It also offers part program test and dry run, where part programs can be executed with the axes movement disabled and the spindle stopped.

Spindle orientation

Allows the spindle to be positioned at any predefined angle, making it easy to load and unload asymmetrical parts.

CNC Siemens 802D sl-PRO

Applied in ROMI C 680



Maintenance facilities

Remote diagnosis (optional) (*)

This resource enables the analysis and solution of machine problems by a Romi service technician located at a distance, using a PC installed at Romi and a user's telephone line connected to the machine.

The Romi technician may see and command through its micro computer the same screen he would have seen if he was "in front of the machine", to diagnose and solve equipment problems.

Remote Diagnostic enables:

- To visualize machine work operations (follow-up process)
- Parameters reading for analysis with full possibilities of changes
- Alarms visualization and analysis



- Virtual machine operation via softkeys, but without axes movement for safety reasons
- Machining programs reading and loading
- Programs editing directly on the machine
- Machine electronic configuration back-ups

Advantages of remote diagnosis:

- Fast analysis and solution of problems
- Reduction of machine idle time
- Reduction of maintenance costs

(*) Requires the accessory "Remote Diagnosis Interface"



For additional and updated information visit our site: www.romi.com
CE safety regulation compliance available only for the European Community or under request



ROMI®

A TRADITION OF INNOVATION | WWW.ROMI.COM

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