



- Timeline
- Social Responsibility
- Highlights
- Business Units
- Burkhardt+Weber
- Global player
- Brazilian manufacturing plants







Romi is founded Garage Santa Bárbara



Starts manufacturing IMOR engine lathes

1941



Toro: first Brazilian tractor

1948



Launch of the

1934

Change its name to Agricultural Machines Romi Ltda



1938

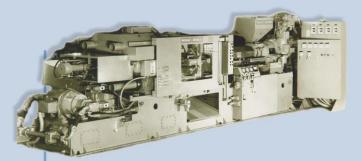
Starts exporting



Timeline



Romi-Isetta: 1st Brazilian-made car



Plastic injection Moulding Machines



Launch of the Tech Center

1956

1957

1972

1978

2007

2011

2014



Heavy Duty Machine Tools

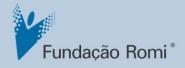


Acquisition of Burkhardt + Weber



Romi Foundation sponsor

- Social Organization
- Mission: to promote social and human development through education and culture





Vocational education

- Approximately 2,500 machines
 delivered to many Brazilian
 educational institutions in the past 6
 years
- WorldSkills São Paulo 2015







Romi machines



Burkhardt+Weber machines



Raw and Machined Cast Iron Parts







Machine Tools

Robustness, accuracy and versatility

Wide portfolio: the best solutions for any size machining

High technology with excellent value

Safe and easy-to-operate equipment



Machine Tools



Plastic Processing Machines

Complete solutions for plastic processing

Supplies many market segments



Highly precise and excellent repeatability

Reduced power and raw material consumption with less noise









Casting and Machined Parts

Assorted alloys for production of many parts

High installed capacity

Complete machining solutions

Quality and reliability



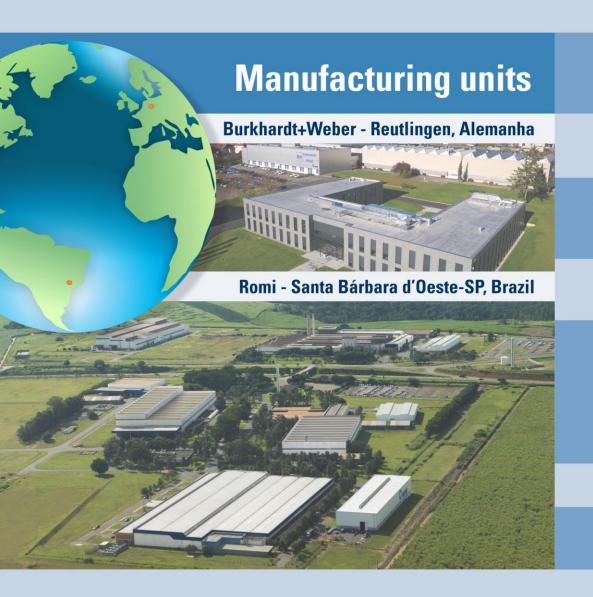


 Manufacturing machine tools in Reutlingen – Germany since 1888

- Special solution in manufacturing
- Customized projects
- Highly precise applications







Subsidiaries

Americas USA Mexico



Europe

Germany France United Kingdon Spain Italy



Asia China







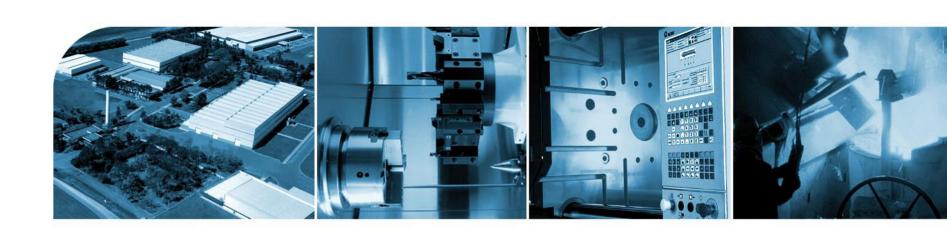
Brazilian manufacturing plants



Eduardo Paiva

epaiva@romiusa.com









CNC Vertical Lathes:

- VT 1400
- VT 2000
- VT 2500







Typical Application

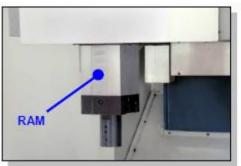


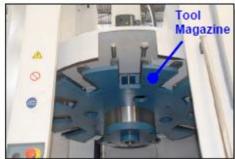








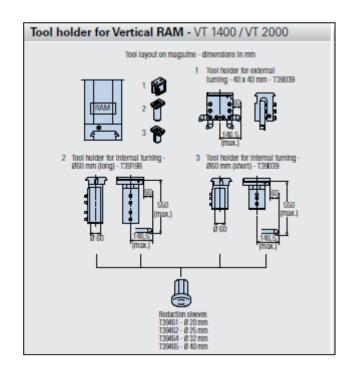


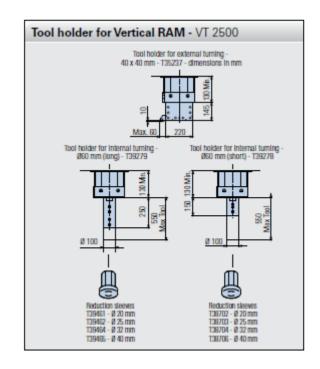


Fixed tool with 12 Tool magazine









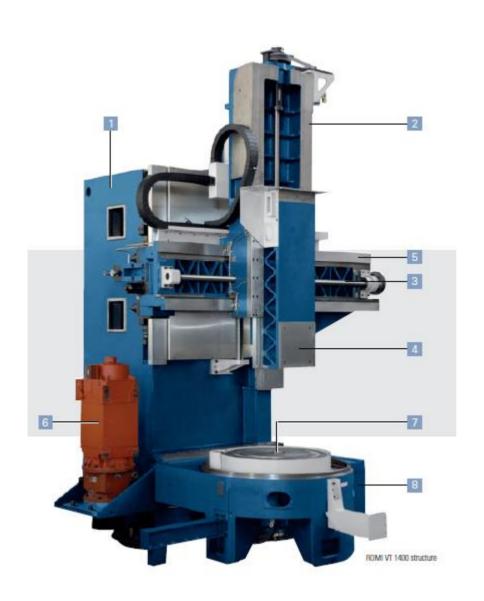








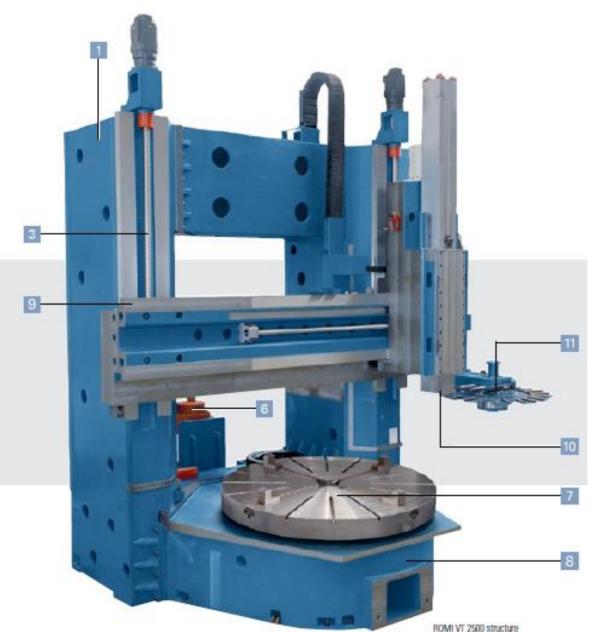




VT 1400 & VT 2000 Single Column







VT 2500 Double Column



Double Column is programmable and clamp in place with pins.

Z axis is the vertical column. The two motors shown are for positioning only.









Base:

Mono block and robust. Designed to support high loads and absorb vibrations.

The base encloses the headstock assembly, as well as the precision bearing way and the chuck transmission system.

Headstock:

Provides two variable speed ranges. Provide torque for roughing and speed for finishing.

In the VT2500, the gear transmission system is incorporated in the machine base.





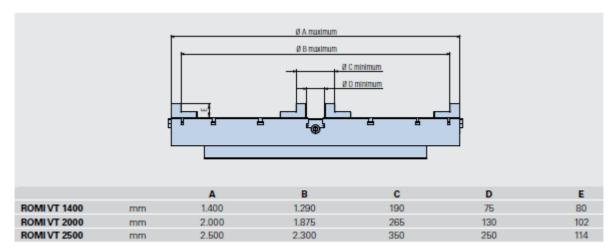


Column - The robust structure supports the cross rail and the vertical slide. The column is the basis for the machine rigidity, vibration absorbency and geometric stability. These are critical factors during heavy machining operations.









4 Jaw Chuck







Central Lubrication System

Headstock Oil Cooler

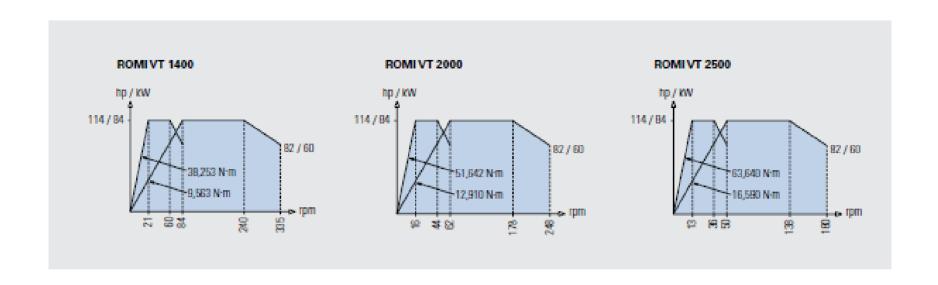




Sheet Metal – fully enclosed work area



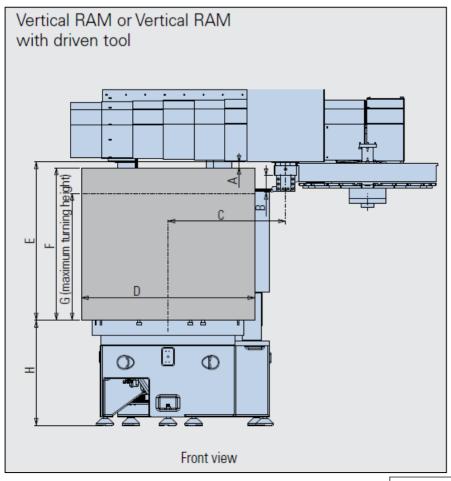




Power Graphs







Work Area Layout

		Α	В	С	D	Е	F	G	Н
ROMI VT 1400									
Vertical RAM	mm	55	156	1085	1600	1555	1500	1265	1026
	inch	2.1654	6.1417	42.717	62.992	61.22	59.055	49.803	40.394
ROMI VT 2000									
Vertical RAM	mm	55	156	1415	2200	1555	1500	1265	1026
	inch	2.1654	6.1417	55.709	86.614	61.22	59.055	49.803	40.394
ROMI VT 2500									
Vertical RAM	mm	200	145	1570	2700	2300	2500	2100	1171
	inch	7.874	5.7087	61.811	106.3	90.551	98.425	82.677	46.102





	Feeds		
Vertical rapid traverse (Z axis) m/min (ipm)	10/393.7	10/393.7	10/393.7
Horizontal rapid traverse (X axis) m/min (ipm)	10/393.7	10/393.7	10/393.7
	Chuck	10/333.7	10/333.7
Diameter mm (in)	1,400 / 55.12	2000 / 78.74	2500 / 98.43
Speed range rpm	1-335	1-248	1-180
Range 1 rpm	1-84	1-62	1-45
Range 2 rpm	1-335	1-248	1-180
Max. admissible weight kg (lbs)	12000 / 26,455	18000 / 39,683	25000 / 55,116
Ver	tical RAM		
Vertical axis max. stroke (ram) mm (in)	1000 / 39.37	1000 / 39.37	1500 / 59.06
Cross rail max. stroke locking in each 160 mm / 6.30") mm (in)	960 / 37.8	960 / 37.8	
Horizontal axis max. stroke X axis) mm (in)	1240 / 48.82	1540 / 60.63	2100 / 82.68
DANA based continue discoursions are (in)	200 x 200	200 x 200	250 x 250
RAM head section dimensions mm (in)	7.87 x 7.87	7.87 x 7.87	10 x 10
ATC tool capacity	12	12	12
C axi	s (optional)		
Max. Torque N·m (lbf·ft)	12300 / 9,072	14500 / 10,694	24300 / 17,923
Speed range rpm	0-2	0-2	0-2
Vertical RAI	M with driven tool		
Spindle Taper ISO	50	50	50
Speed Range rpm	3 -3,000	3 - 3,000	3 - 3,000
Max. Torque N·m (lbf·ft)	1100/811	1100 / 811	1100 / 811
Driven Tool Power hp / kW	40 / 30	40 / 30	40 / 30
Max. Installed Power kVA	100	100	100
Tool Magazine Capacity	20	20	20
	Power		
AC main motor 30 minutes continuous) hp / kW	114/84 (82/60)	114/84 (82/60)	114/84 (82/60)
Dimensions and	weight (approximately		
Height m (in)	4.9 /192.91	4.9 /192.91	6 / 236.22
Area (lenght x width) mm (in)	5.5 x 4.5	5.8 x 4.8	5.8 x 5.2
	216.54 x 177.17)	228.35 x 188.98	288.35 x 204.72
Net weight kg (lbs)	23,400	28,700	50,000





CNC Siemens 840D sl with 10.4" LCD color screen

Headstock with 2 two continuously variable speed ranges, from: 1 to 84 rpm and 1 to 335 rpm, and 1600mm max cutting diameter and 114hp / 84kW (regime 30min) main motor

Ø 1.400mm 4-jaw independent chuck

Programmed Movable crossrail (axis travel = 960mm with programmable stopping every 160mm)

Vertical RAM (section 200 x 200mm) travel = 1,000mm

Automatic Tool Changer with capacity for 12 tools

Rapid feed vertical and horizontal of 10,000mm/min

Splash guard with frontal sliding door and electrical safety interlock. Telescopic protection made of steel for X axis and protection for the Z axis

Electrical installation available for the following voltage/frequencys: 380VCA / 50-60Hz

Worklight

Chip conveyor interface

Ethernet interface

Linear scale for X and Z axis

Pivoted operation panel

Manual auxiliary panel, with JOG and handwheel functions for the both axis;

Cleaning system for protections

Centralized lubrication system with line filter and oil level sensor for the axes guides vertical and horizontal ballscrews.

Lubricate and coolant system of the headstock equipped with heat exchanger, temperature, pressure, flow and dirty filter sensors

Electric panel with air cooling

Set of leveling screws and nuts

Set of wrenches for machine operation

Complete documentation for Romi product on CD

Standard colors: Texturized epoxy enamel Munsell Blue 10B-3/4 and Texturized Epoxy Gray RAL 7035

Siemens Maintenance Service (RSC - Repair service contract), converting 24 months of service provided by Siemens World Wide Service Net, including labor and travel expenses. Note: Find RSC Rules in "Standard Functions" page.







Headstock with 2 two continuously variable speed ranges, from: 1 to 62 rpm and 1 to 248 rpm, and 2200mm max cutting diameter, and 114hp / 84kW (regime 30min) main motor

Ø 2000mm 4-jaw independent chuck

Programmed Movable crossrail (axis travel = 960mm with programmable stopping every 160mm





Headstock with 2 two continuously variable speed ranges, from: 1 to 51 rpm and 1 to 180 rpm, and 2700mm max cutting diameter, and 114hp / 84kW (regime 30min)

- . Ø 2,500mm 4-jaw independent chuck
- . Programmed Movable crossrail (axis travel = 1600mm with programmable stopping every 160mm)
- . Vertical RAM (section 250 x 250mm) travel = 1,500mm





	Options			
X54143	Autotransformer - 360 to 480VCA / 50-60Hz (#3) 4.646			
SE1008	2 Generic interface with miscellaneous functions (4 M codes) 128			
X55518	Line Filter 4.049			
X54157	Oil skimmer 767			
X54784	Remote diagnosis interface 622			
X54154	Wash gun 2.249			
SE1008	5 Extra set of operating, maintenance, programing, instalation and parts manuals on CD 132			
SE1008	6 Extra set of operating, maintenance, programing, instalation and parts manuals on paper 282			
	Tooling			
T35237	Turning tool holder (external) 40 x 40 mm 2.197			
T39278	Turning tool holder (internal) Ø 60 mm (short) 2.160			
T38702	Reduction sleeve Ø 20 x 60mm 128			
T38703	Reduction sleeve Ø 25 x 60mm 128			
T38704	Reduction sleeve Ø 32 x 60mm 128			
T38706	Reduction sleeve Ø 40 x 60mm 128			
T39279	Turning tool holder (internal) Ø 60 mm (long) 2.375			
T39461	Reduction sleeve Ø 20 x Ø 60mm 128			
T39462	Reduction sleeve Ø 25 x Ø 60mm 128			
T39464	Reduction sleeve Ø 32 x Ø 60mm 128			
T39465	Reduction sleeve Ø 40 x Ø 60mm 128			





	Machine	
X ROMI	VT 1400- with auto transformer	\$564,580
	Coolant Pum - Choose one	
X Coola	nt pump (10lpm @ 2 bar, 0,5kw / .75cv)	\$979
Coola	nt pump (10lpm @ 7bar, 1,5kw / 2cv)	
	Chip Conveyor - Choose one	
Trans	versal (rear) Drag belt chip conveyor (TCA) (for short thin chips, cast iron and non-ferrous - not proper for steel	
X Trans	versal (rear) Hinged belt chip conveyor (TCE) (universal, many types of chips, indicated for short curled chips, usually steel	\$16,491
		\$582,050
	Machine	
X ROMI	VT 2000- with auto transformer	\$644,829
	Coolant Pum - Choose one	
X Coola	nt pump (10lpm @ 2 bar, 0,5kw / .75cv)	\$979
Coola	nt pump (10lpm @ 7bar, 1,5kw / 2cv)	
	Chip Conveyor - Choose one	
Trans	versal (rear) Drag belt chip conveyor (TCA) (for short thin chips, cast iron and non-ferrous - not proper for steel	
X Trans	versal (rear) Hinged belt chip conveyor (TCE) (universal, many types of chips, indicated for short curled chips, usually steel	\$16,491
		\$662,299
	Machine	
X ROMI	VT 2000- with auto transformer	\$809,142
	Coolant Pum - Choose one	
	nt pump (10lpm @ 2 bar, 0,5kw / .75cv)	\$979
Coola	nt pump (10lpm @ 7bar, 1,5kw / 2cv)	
	Chip Conveyor - Choose one	
Trans	versal (rear) Drag belt chip conveyor (TCA) (for short thin chips, cast iron and non-ferrous - not proper for steel	
X Trans	versal (rear) Hinged belt chip conveyor (TCE) (universal, many types of chips, indicated for short curled chips, usually steel	\$14,497
		\$824,618







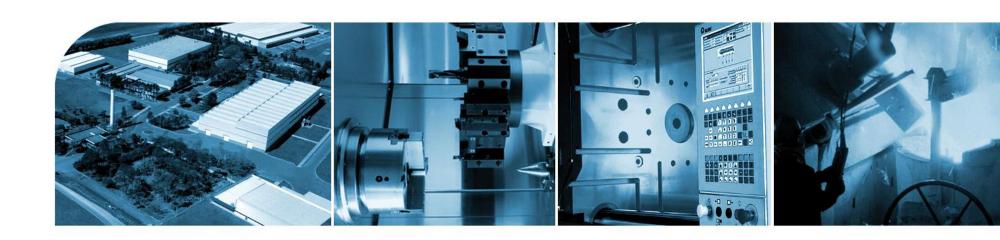


ROMI MACHINE TOOLS www.romiusa.com



For our BURKHARDT+WEBER Products contact our BW Product Group www.burkhardt-weber.com





Gerdau Corsa – Mexico Mill rolls production with ROMI CNC Lathes

Indústrias Romi SA





www.romiusa.com

Who we are

Indústrias Romi S.A.

Founded in 1930, Romi is the Brazilian leader in the Machine Tools and Plastic

Processing Machines sector, as well as an important Castings producer.







Plastic Processing Machines



Castings





www.romiusa.com

Machine Tools



OUR CLIENTS BUSINESS SECTORS

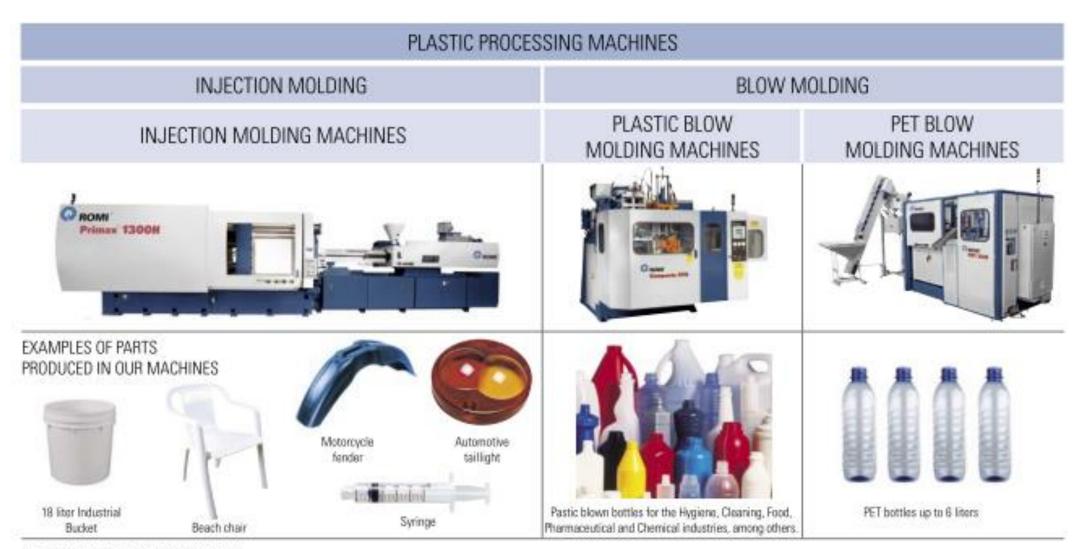
MACHINING AND TOOLING SHOPS, PARTS MAKER FOR THE AUTOMOTIVE, AVIATION, OIL/ENERGY/SUGAR AND ALCOHOL INDUSTRIES, CAPITAL GOODS AND OTHER





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Plastic Processing Machines



OUR CLIENTS BUSINESS SECTORS

SERVICE PROVIDERS, PACKAGING MANUFACTURERS FOR THE FOOD, CLEANING AND CHEMICAL SECTORS, AMONG HOUSEWARES, FURNITURE, HI-TECH PARTS FOR THE AUTOMOTIVE AND CAPITAL GOODS, CONSTRUCTION SECTORS AND OTHERS





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Castings

FOUNDRY ROUGH CASTINGS MACHINED CASTINGS PARTS PRODUCED OF GRAY, NODULAR CNC MACHINING CASTS AND VERMICULAR IRON CAST **EXAMPLES OF PARTS** PRODUCED Fifth Wheel Coupling Reducer Housing Pump Housing Differential Cage Pinion Cage Wind Generator Hub

OUR CLIENTS BUSINESS SECTORS

PARTS FOR AUTOMOTIVE INDUSTRIES (CARS AND COMMERCIAL), ENERGY, AGRICULTURE AND CAPITAL GOODS, AMONG OTHERS





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Our headquarters in Brazil Total 1,500,000 ft² built area



District plant





Downtown plant



UF82 Foundry





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Worldwide Presence





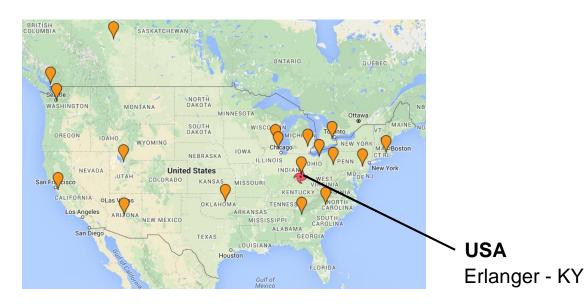


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ROMI in USA



Romi Machine Tools LTD



- Since 1985
- Located in Northern Kentucky
- 18 distributors
- Thousands of machines sold in US
- Subsidiary with sales support, service and spare parts





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New plant in Ciudad Sahagún, Hidalgo - Mexico

- US \$600 million investment
- Capacity: 2.2 Bn lbs of steel and 1.5 Bn lbs of rolled products
- Main segments: construction and industrial development in Mexico
- The try outs started in 2014 and full operation in 2015
- Production: I and H beams
- Beams sizes: 150 to 610 / W and HP





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New plant in Ciudad Sahagún, Hidalgo - Mexico













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New plant in Ciudad Sahagún, Hidalgo - Mexico

- All the machining process with ROMI Lathes:
 - ✓ Two horizontal CNC lathe
 - ✓ One vertical CNC lathe
- Total of 43 Romi lathes at Gerdau Group:

CUSTOMER
GERDAU CORSA
GERDAU CORSA
GERDAU CORSA
GERDAU
GERDAU AÇO MINAS

UTC 42A	GERDAU AÇO MINAS
UTC 42A	GERDAU AÇO MINAS
UTC 55	GERDAU AÇO MINAS
UTC 55	GERDAU AÇO MINAS
MHS II	GERDAU AÇOS ESPECIAIS
S140	GERDAU AÇOS ESPECIAIS
S90A	GERDAU AÇOS ESPECIAIS
UT 27	GERDAU AÇOS ESPECIAIS
UT 29	GERDAU AÇOS ESPECIAIS
UT 29	GERDAU AÇOS ESPECIAIS
UT 42	GERDAU AÇOS ESPECIAIS
UT 50	GERDAU AÇOS ESPECIAIS
UT 62	GERDAU AÇOS ESPECIAIS





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ROMI C 2200H x 236 in (6,000 mm) – 2 machines



- 82.7" (2,100 mm) max.
 turning diameter
- 110,231 lb (50,000 kg) load capacity

- Double blade type turret
- Sandvik Capto C8-X tool holders
- ARTIS tool load monitor system





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ROMI VT 1400



- 63" (1,600 mm) max. turning diameter
- Vertical RAM
- 12-station tool magazine
- 26,455 lb (12,000 kg) load capacity







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BD rolls

- Material: Forging adamit steel
- Roll diameter: 55.7 in (1,415 mm)
- Hardness: 60hs
- Cutting tool insert: solid carbide
- Constant surface speed: 295 feet/min (90 m/min)
- Cutting depth: 2.05 in (52 mm) per pass
- Feedrate: 0.05 in/rev (1.3 mm /rev)
- Cutting length with the same cutting edge:
 47.2 in (1200 mm)
- Finishing: to 32 μin (0.8 μm)









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Horizontal rolls

- Material: Centrifuged adamit steel
- Roll diameter: 47.2 dia (1200 mm)
- Hardness: 75hs
- Cutting tool insert: ceramic
- Constant surface speed: 492 feet/min (150 m/min)
- Cutting depth: 1.26 in (32 mm) per pass
- Feedrate: 0.02 in/rev (0.5 mm /rev)
- Cutting length with the same cutting edge:
 23.6 in (600 mm)
- Finishing: to 32 μin (0.8 μm)









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Vertical turning





Chris Lamping

Cell 859-412-5540

Phone: (859) 647-7566

clamping@romiusa.com

www.romi.com