

Romi M 20 Price List

November 1, 2005

The Romi M series is the latest version of the technology pioneered by Romi since the early 1990's. Romi has manufactured more combination lathes than any other manufacturer. Romi combination lathe technology has now been combined with GE Fanuc reliability to create the most advanced combination lathe ever built.



Software developed by Romi and **GE/Fanuc** gives powerful conversational programming capabilities to the 21i-T control that have not been available on any other lathe. The 21i-T retains the ability to function as a G code control. The fiber optic cable connection to the servo amplifiers as well as the compact design makes the 21i-T the ideal control for this type of lathe. A color monitor enhances visibility and ease of operation.

Romi has also incorporated the latest GE-Fanuc spindle drive motor for the M series. This "P" type drive has an 8:1 constant horsepower output. That gives the M 20 series full horsepower at speeds as low as 275 RPM. The advantages of the "P" drive have allowed us to eliminate the gearbox without significant loss of torque at the spindle.

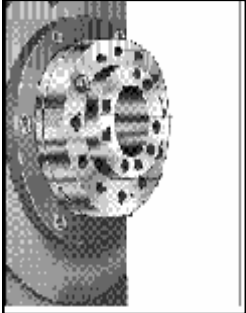
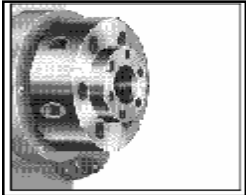

All machines in this series have Romi's **patented** apron technology. All controls are outside the guards where they are not exposed to chips and coolant. The apron can be attached or detached from the carriage as selected by the operator. This allows automatic operation without having the apron travel longitudinally with the carriage. Attaching the apron also allows the operator to choose the most comfortable operating position during manual machining and set up. The joystick can be used for facing and turning cuts at selected feeds and speeds.



A two piece tailstock is standard on all the M20 lathes. The two piece construction allows for easy alignment. A dual clamp design means you can do very large diameter drilling using the tailstock.

The automatic lubrication system has the oil fill port conveniently located on the front of the machine. Warning messages are displayed on the CNC to indicate lube oil level low and lubrication system faults.

Specifications for Romi M20 x 40", 60" or 80" Combination Lathe

Swing over bed	20.00"	
Center Distance	43.15"/62.84"/82.52"	
Swing over Carriage Wings	17.72"	
Swing over Cross Slide	10.00"	
Cross Slide Travel (X-Axis)	11.02"	
Longitudinal Travel (Z-Axis)	41.97"/61.65"/81.34"	
Spindle Motor	15 HP	
Bed Width	13.4"	
Bed Height	12.6"	
Standard Headstock	A2-6"	
Through Hole	2.56"	
Spindle RPM	3-3,000	
Torque	210 FtLbs.	
Full Horsepower at	375 RPM	
Optional Headstock	A2-8"	
Through Hole	3.15"	
Spindle RPM	2-2,200	
Torque	287 FtLbs.	
Full Horsepower at	275 RPM	
Optional Headstock #2	D1-8"	
Through Hole	3.15"	
Spindle RPM	2-2,200	
Torque	287 FtLbs.	
Full Horsepower at	275 RPM	
Rapid Traverse		
Longitudinal	394 IPM	
Cross Slide	295 IPM	
Coolant System		
Pump	.16 HP	
Reservoirs	27.3 Gallons	
Accuracy		
X-Axis Repeatability	.0002"	
Z-Axis Repeatability	.0002"/ 300mm	
Tailstock		
Quill Travel	5.11"	
Quill Diameter	3.15"	
Quill Internal Taper	4 MT	
Tang Slot	Cast In	
Tool Knock Out	Yes	
Approximate Floor Space Required (M20 X 40)	124" x 65"	
Approximate Machine Weight (M20 X 60)	7,716 Lbs.	

Romi M20 x 40"/60"/80" Combination Lathe

Standard Features

- ASA A2-6" spindle nose with 2.56" (65mm) diameter hole through the spindle
- Continuously variable spindle speed from 3 to 3,000 RPM
- 15 HP GE-Fanuc "P" type variable speed spindle motor
- Apron with 2 electronic hand wheels, 4 position joystick and spindle control lever for manual operation
- Apron can be attached to carriage using a simple locking mechanism
- Automatic lubrication system for guide ways (Saddle / Bed and Cross Slide / Saddle) and ballscrews
- Adjustable Z axis home position
- Coolant system with 1/6 HP pump and 27.3 gallon reservoir
- GE-Fanuc CNC control is swivel mounted above the headstock
- GE-Fanuc CNC control swivel is equipped with a shock absorber to prevent movement during data entry
- Removable chip box
- Tailstock with manual quill and dual position clamps
- Tailstock is protected by electro/mechanical safety switch
- Rear splash guard
- Double Overlapping sliding doors, (Triple on M20 X 80)
- Electrical Transformer, 3 taps, (200-250V, 50/60 Hz, 25 KVA) mounted inside machine enclosure
- Work light
- Electrical cabling protected by power track for low maintenance and long life
- Set of operating, maintenance, programming, installation and parts manuals
- Electrical diagrams
- Set of leveling screws and nuts
- Set of wrenches for machine operation
- GE-Fanuc CNC control model 21i-T with **Manual Guidance** software
- GE-Fanuc CNC control includes tool path and part shape graphics
- The M Series may be operated in any one of five ways:
 1. Manually, using the X and Z hand wheels and the DRO.
 2. Manually, using the **Manual Guidance** hand wheel to move both axes simultaneously to cut radii and tapers. A box cycle is created and software limits are set to insure precise angles and radii.
 3. Programs can be created by "teaching" the machine movements.
 4. Programs can be created and the machine can be run using the **Manual Guidance/Romi** Conversational Program System. Rough and Finish Profiling, Threading, Grooving, Drilling and Tapping Conversational menus are used to generate part programs.
 5. G code programming done off line or at the machine.

Standard Control Features

- **GE Fanuc G Code Operating System Family A, B, C**
- **GE Fanuc/Romi Machine Guidance Programming**
- Tool Path and Part Shape Graphic Display with 10.4" Color LCD
- Constant Surface Speed
- Background Editing and Sub-program Editing
- Canned cycles for Turning, Threading & Facing (G77, G78, G 79)
- Chamfering and Corner Rounding
- Canned Cycles for Drilling – (G80-G89)
- Thread Repair
- Multiple Start Threading (G33)
- Rigid Tapping
- Manual Handle Feed
- MDI Operation
- Multiple Repetitive Cycle – (G70-G76)
- Tool Nose Radius Compensation (G40, G41, G42)
- Tool Geometry and Wear Compensation – 16 pairs
- Work Shift
- Inch/Metric Conversion
- Clock Function
- Run Hour and Parts Number Display
- Reader Punch Interface / RS 232
- PCMCIA Slot – for Flash Card Part Program Storage and Execution
- CNC Part Program Storage 64 Kbytes (160M) 99 Processes & 49M per program
- External Message Ladder
- Ladder Screen Visualization, Maintenance Alarms & Operating History
- English, Spanish, German or French Language Display



Romi M 20 Combination Turning Centers

M20 x 40

\$57,220.

M20 x 60

\$61,035.

M20 x 80

\$66,485.

OPTIONAL SPINDLES

X32905-A2-8" with 3.15" diameter through hole

\$ 2,175.

X33240-D1-8" with 3.15" diameter through hole

\$ 2,905.

FOB Erlanger, Kentucky

Terms of Payment are 20% with order

Balance due 30 days after shipment

Terms are subject to credit approval by Romi Machine Tools, Ltd.

Part #	Description	Price
GE-Fanuc 21i-T Control Options		
R89186-	Custom Macro B	\$ 2,945.
R89194-	Extended Part Program Edit	\$ 655.
R97069-	Thread Cutting Retract	\$ 655.
R99311-	Spindle Positioning	\$ 1,635.

WORKHOLDING

Romi recommends Rohm, Schunk, or Pratt Burnerd Chucks depending on your application. Please contact us for price and availability of your preferred brand.

3 Jaw Manual Chucks

Pratt Burnerd 10" Setrite Adjustable 3-Jaw Steel Body Chuck
Maximum Speed 3,300 RPM 3.0" Hole **\$ 1,780.**

PB41006 for A2-6 Spindle
PB41008 for A2-8 Spindle
PB51008 for D1-8 Spindle

Pratt Burnerd 12" Setrite Adjustable 3-Jaw Steel Body Chuck
Maximum Speed 2,300 RPM 4.06" Hole **\$ 2,295.**

PB41206 for A2-6 Spindle
PB41208 for A2-8 Spindle
PB51208 for D1-8 Spindle

Pratt Burnerd 15" Setrite Adjustable 3-Jaw Steel Body Chuck
Maximum Speed 2,000 RPM 4.56" Hole **\$ 3,995.**

PB41508 for A2-8 Spindle
PB51508 for D1-8 Spindle

4 Jaw Manual Chucks

Pratt Burnerd 14" Heavy Duty 4-Jaw Independent Cast Iron Body Chuck
w/ Solid Reversible Hard Jaws 2.95" Hole **\$ 2,190.**

1414511 for A2-6 Spindle
1414512 for A2-8 Spindle
1414524 for D1-8 Spindle

Pratt Burnerd 16" Heavy Duty 4-Jaw Independent Cast Iron Body Chuck
w/ Solid Reversible Hard Jaws 3.15" Hole **\$ 2,640.**

1614512 for A2-8 Spindle
1614524 for D1-8 Spindle

6 Jaw Manual Chucks

Pratt Burnerd 10" Setrite Adjustable 6-Jaw Steel Body Chuck
Maximum Speed 1,900 RPM 3.0" Hole **\$ 2,320.**

PB641006 for A2-6 Spindle
PB641008 for A2-8 Spindle
PB651008 for D1-8 Spindle

Pratt Burnerd 12" Setrite Adjustable 6-Jaw Steel Body Chuck
Maximum Speed 1,500 RPM 4.06" Hole **\$ 2,830.**

PB641206 for A2-6 Spindle
PB641208 for A2-8 Spindle
PB651208 for D1-8 Spindle

Wrench Operated Collet Chucks

Lexair, Inc. Wrench operated collet chucks, includes mounting plate and collet wrench. 5C, 5C-2, 16C or 3J Collet types. 5C-2 is step chuck compatible. **\$ 1,830.**

Lexair, Inc. Wrench operated collet chuck, includes mounting plate and collet wrench. 22J Collet type. **\$ 2,080.**

When ordering a Lexair wrench operated collet chuck, specify collet type and spindle nose

Pneumatic Chucks

X33237- SMW/Autoblok 10" (254mm) pneumatic chuck with rear closed center air actuation with 2.5" bar capacity and a maximum bar length of 25.6" to be fitted to A2-8" spindle. 2,000 RPM. Footswitch included.	\$8,715.
S73800-Set of three hard jaws for 10" Chuck	\$ 950.
S74799-Set of three soft jaws for 10" Chuck	\$ 260.
ONCA/Autoblok 10" (254mm) Front mounted, self contained pneumatic chuck . Allows thru the spindle loading. Manual operation with pushbutton Program operation thru M function. Adjustable clamping pressure.	
*114 - ONCA 250/65, 2,800 rpm @ 85 psi, 2.56 hole, A2-6 mount	\$ 11,070.
*123 - ONCA 250/90, 2,500 rpm @ 85 psi, 3.54" hole, A2-8 mount	\$ 11,655.

Pneumatic Collet Closers

Royal 16C Air Operated Collet Closer with Pushbutton and M function actuation. Adjustable clamping pressure. Maximum Speed 2,500 RPM @ 60 PSI. Installed	
*119 for A2-6 Spindle	\$6,455.
*126 for D1-8 Spindle	\$6,995.
X42083-ROMI Foot Switch for Collet Closer	\$ 295.

Faceplates

X32911-T-slotted faceplate, A2-6" x 16" 375 RPM Max. Speed	\$ 625.
X33262-T-slotted faceplate, A2-8" x 16" 375 RPM Max. Speed	\$ 645.
X33263-T-slotted faceplate, D1-8" x 16" 375 RPM Max. Speed	\$ 730.

Manual Tool Posts

Dorian-SDN40CARS Super Quick Change Tool Post with Riser Block includes	
2- D40CA-1 1" Turning and Facing Holders	
2- D40CA-2 1" Turning, Facing and Boring Holders	
1- D40CA-35 Drill Chuck Holder	
1- D40CA-7-71C Hi Speed/Carbide Reversible Cutoff Holder	\$1,710.

Accessories for SD40CARS

D40CA-1-125 1 1/4" Capacity Turning and Facing Holder	\$ 145.
D40CA-41 1 1/4" Capacity Boring Bar Holder	\$ 150.
D40CA Standard Bushings for Boring Bar Holder	\$ 35.

Dorian-QITP40RS Quadra 4 Position Indexing Tool Post with Riser Block includes

2- QITP40-1-N 1" Turning and Facing Holders	
2- QITP40-2-N 1 " Turning, Facing & Boring Bar Holders	
1- QITP40-N-35 Drill Chuck Holder	
1- QITP40-7-71C Reversible Cut-Off Tool Holder	\$2,285.

Accessories for QITP40RS

QITP-40-1S 1 1/4" Turning and Facing Tool Holder	\$ 175.
QITP40-41 1 1/4" Boring Bar Holder	\$ 215.

Automatic Turret

X44013-8-station disk type automatic turret, electrically driven Inch system (tool holders and reduction sleeves are not included) **\$10,675.**
Cutting Diameter using the turret with standard tools is 10.5"

Toolholders and Accessories for 8 Station Turret

R86866-Facing tool holder 1" x 1"	\$ 305.
S21171-Boring bar holder 1 1/4" diameter	\$ 320.
S21061- Reduction Sleeve 3/8"x1 1/4"	\$ 80.
S21063-Reduction Sleeve 1/2"x1 1/4"	\$ 80.
S21065-Reduction Sleeve 5/8"x1 1/4"	\$ 80.
S21067-Reduction Sleeve 3/4"x1 1/4"	\$ 80.
S21069-Reduction Sleeve 1"x 1 1/4"	\$ 80.
S21070-Drill Socket 1MTx 1 1/4"	\$ 80.
S21208-Drill Socket 2MTx 1 1/4"	\$ 110.

Gang Tooling Plate

X33252-Gang Tooling Plate with 5 tool holders- 2 boring bar holders, 2 facing tool holders and 1 turning tool holder and 3 reduction sleeves. **\$2,505.**
(1/2", 5/8" and 3/4" reduction sleeves are included)

Accessories for Gang Tooling Plate

R87614-Facing Tool Holder 3/4" x 3/4" right side	\$ 320.
R87616-Facing Tool Holder 3/4" x 3/4" left side	\$ 320.
R87613-Turning Tool Holder 3/4" x 3/4"	\$ 305.
R06015-Boring Bar Holder 1"	\$ 305.
R06158-Reduction Sleeve 1/2"x1"	\$ 95.
R06159-Reduction Sleeve 5/8"x1"	\$ 95.
R06160-Reduction Sleeve 3/4"x1"	\$ 95.
R06048-Drill Socket 1MTx1"	\$ 125.

Rear Mounted Tool Post

X33259-Rear mounted tool holder with T-Slot base; includes 1 boring bar holder (1 1/4"), 1 turning/facing tool holder (1") **\$ 1,220.**

Tailstock Accessories

Pneumatic Tailstocks

X37548-Air Operated Tailstock Quill includes pneumatic components and footswitch, installed. **\$4,350.**

Tailstock Centers

10414- Quad-Bearing Live Center – Standard Point	\$ 530.
10664- CNC Quad Bearing Live Center – Extended Point	\$ 530.
10904- Bull Head Live Center	\$ 645.

Please consult Romi for additional live center choices.

X44377-Tailstock Drag Device **\$ 600.**

Steady Rests

X44004- Follow Rest w/Rollers 5/8 – 3 1/8" Capacity	\$1,735.
X32924-Steady rest (closed) with bronze tips, 5/16" to 6" dia.	\$1,035.
X32907-Steady rest (open) with bronze tips, 5/16" to 3 1/8" dia.	\$ 690.

Additional roller sets

X33264-Set of bronze tips for closed steady rest 3 1/8" to 6"	\$ 90.	
X33265-Set of rollers for closed or open steady 5/16" to 3 1/8" dia.	\$ 440.	
X33266-Set of rollers for closed steady rest 3 1/8" to 6" dia.	\$ 395.	
X35803-Steady rest (U Type) with rollers 5" to 10" dia.	\$3,490.	_____

Additional roller sets

X35804-Set of rollers for U Type steady rest 2" to 7" dia.	\$1,035.	
*128 -Set of rollers for U Type steady rest 5" to 10" dia.	\$1,085.	_____

Machine Accessories**Chip conveyors**

Chip Conveyor (hinged belt) rear mounted		
X33244 for 40" 26.4 gallon reservoir Transverse Exhaust	\$6,435.	
X32923 for 60" 26.4 gallon reservoir Transverse Exhaust	\$6,965.	
X33247 for 80" 29 gallon reservoir Longitudinal Exhaust	\$10,590.	_____

Oil Skimmer

X45549- Oil Skimmer	\$ 725.	
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Transformer

R96548- Electrical Transformer, installed in machine enclosure (200/210/220/230/240/250V, 50/60 Hz, 25 KVA)	Included	
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X33354- Electrical Transformer, installed in machine enclosure (200/210/220/230/240/250/380/420/440/460/480V, 50/60 Hz, 25 KVA)	\$1,145.	_____
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Guarding

Machine guarding to completely enclose the tailstock area with mechanical Interlock between safety doors		
X33356 For M 20 X 40	\$1,630.	
X33358 For M 20 X 60	\$1,690.	
X33360 For M 20 X 80	\$1,745.	_____

Manuals

X33249-Extra set of operating, maintenance, programming, installation and parts manual	\$ 145.	_____
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Other Market Adapter Kits

X37049-Canada (includes UL/CSA certified main circuit breaker, delay fuses and bases)	\$1,280.	
X37050-Mexico (includes labels and technical documentation in Spanish)	\$ 295.	_____

Extended Parts Warranty

OPC00535-Parts Warranty from 12 to 24 months after machine delivery	\$1,690.	_____
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Conversion of Existing EZ-Path Programs

BTIIC- Romi will provide software to convert existing EZ-Path programs to GE-Fanuc "G" code format.	\$1,200.	_____
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ROMI MACHINE TOOLS, LTD.

TERMS AND CONDITIONS OF SALE AND LIMITED WARRANTY

ACCEPTANCE – Acceptance of the products by dealer/end-user (“Customer”) is EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS HEREIN CONTAINED. Any term or condition in any purchase order or other form in conflict with these Terms or Conditions is hereby expressly rejected and shall not be binding on ROMI MACHINE TOOLS, LTD. (the “Company”). Buyer shall make an examination and test of a product immediately upon receipt at Buyer’s place of business, and failure of Buyer to give notice of any claim within 7 days after receipt of such product shall be an unqualified acceptance of such product.

PRICES – Prices are:

1. Subject to change without notice prior to acceptance of Buyer’s order by Company.
2. Exclusive of all Federal, State, Municipal or other Government excise, sales, use, occupational or like taxes now in force or to be enacted in the future;
3. Subject to an increase equal in amount to any tax by the Company may be required to collect or pay upon the sale of the items quoted;
4. Subject to change at any time by Company in the event of any change in the Buyer’s requirements or terms and conditions.

SHIPPING and DELIVERY

1. The shipping and delivery dates provided are estimates and not guaranteed or warranted.
2. Company shall in good faith endeavor to ship products by the estimated shipment date. Company will not be liable for any damages resulting directly or indirectly from shipping delays, regardless of cause.
3. Company shall have the right to select the carrier unless Buyer and Company agree otherwise. Upon delivery of the goods by the Company to a carrier, the carrier shall be deemed to be the agent of the Buyer and risk of loss shall be on the Buyer.
4. All products shall be shipped F.O.B. point of origin.

RESERVATION OF RIGHTS – Company reserves the right to make improvements/changes in the design of its products without any obligation to make such changes or improvements on the products that are the subject of this order or on products previously manufactured and sold by Company.

LIMITED WARRANTY – Company warrants to the dealer/end-user (“Buyer”) that the products covered will be free from defects in material and workmanship under normal conditions of use for a period of one (1) year from the date of delivery based on single shift operation. This limited warranty does not apply to defects arising out of: (i) material provided by, or out of a design stipulated by Buyer, (ii) Buyer’s faulty or improper installation, operation or maintenance of the products, (iii) alterations or modifications carried out without the Company’s prior consent in writing, (iv) repairs carried out improperly by the Buyer or by third parties, or (v) normal wear and tear, accidents or misuse.

THE COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES OF ANY KIND INCLUDING BUT NOT LIMITED TO ANY WARRANTY CONCERNING THE QUALITY OR CONDITION OF THE PRODUCTS OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The Company makes no warranty or representation that the products comply with the requirements of any federal, state or local laws, regulations, rules and/or industrial codes. Buyer acknowledges that it is Buyer’s responsibility to provide proper safety training, devices and equipment for the particular application or use intended by Buyer so as to protect the operator and others from harm, and to comply with all federal, state and local laws, rules and regulations relating to safety standards and all industry safety standards. Buyer agrees to indemnify and hold Company harmless from and against any such liability, as well as all claims and expenses resulting from Buyer’s modification of the goods or failure to implement any changes to the goods directed by Company.

The Company’s liability for any breach shall be limited to, at the Company’s option, the repair or replacement of any part or parts which are determined by the Company to be defective after it examines such part(s) or the refund of the purchase price for such defective part(s). The Company shall bear the cost and risk of shipment of parts and of repaired or replaced parts both to and from the Company. The cost of service for any work not covered under this limited warranty shall be as agreed in writing by the Buyer and the Company. This limited warranty completely and exclusively states the obligations of the Company for any breach of the limited warranty.

Any claim for breach of this limited warranty must be made in writing addressed to the Company and set forth in sufficient detail to permit identification of the defect. Any claim for breach of warranty must be made within 12 months from the date of shipment of the applicable product. If not made within said 12-month period, it shall be conclusively deemed to have been waived.

UNDER NO CIRCUMSTANCES SHALL THE COMPANY BE LIABLE FOR ANY OTHER DAMAGES OF ANY KIND WHETHER SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL, INCIDENTAL OR ANY OTHER SORT EVEN THOUGH THE COMPANY MAY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL THE COMPANY’S LIABILITY EXCEED THE PURCHASE PRICE OF THE PRODUCT(S).

GOVERNING LAW – The Company’s sale of products to Buyer, these Terms and Conditions and any dispute arising hereunder shall be governed and interpreted under the laws of the Commonwealth of Kentucky.