



Romi Machine Tools, Ltd.
1845 Airport Exchange
Blvd., Suite 180
Erlanger, KY 41051
Phone (859) 647-7566
www.romiusa.com

ROMI C 470 Combination Lathe Version 6

CNC lathe that provides the user with great operating flexibility for multiple operations with several chuck and tool holder configurations.

"Power, Torque, Force, and Machining Precision."



Illustrative Picture

STANDARD FEATURES

- . ASA A2-5" spindle nose, 113Nm maximum torque, (regime S6-40%) main motor - 4 a 4000rpm
- . ASA A2-6" spindle nose, 140Nm maximum torque, (regime S6-40%) main motor - 3 a 3000rpm
- . Tailstock with manual body positioning manually operated quill (dry tip) MT-4
- . Siemens Control 828D, with 15" LCD color monitor
- . Rapid traverse longitudinal and transverse of 10,000mm/min
- . One electronic handwheel (for machine without the accessory RMMP)
- . Complete coolant system
- . LED worklight
- . Fully enclosed splash guard, additional door with safety window interlocked by electrical safety switch
- . Electrical installation available for the following voltage/frequencies: 220VCA / 50-60Hz
- . Main set of wrenches for machine operation
- . Set of levelling screws and nuts
- . Complete documentation for ROMI product in electronic media
- . Electric panel with centrifugal acclimatization and positive pressure
- . Automatic lubrication system with line filter and oil level sensor
- . Standard colors: Texturized Epoxy Enamel Munsell Blue 10B-3/4 and Texturized Epoxy Gray RAL 7035
- . Siemens Maintenance Service (OSS - On Site Service), converting 24 months of service provided by Siemens Worldwide Service Net, including labor and travel expenses. Note: Find OSS Rules in "Standard Functions" page.

| TECHNICAL SPECIFICATIONS | | | |
|--|----------------|---|------------|
| Capacity | | | |
| Centers height | mm (in) | 240 (9.45) | |
| Distance between centers | m (in) | 1.0 (39) | |
| Swing over bed | mm (in) | 470 (18.5) | |
| Swing over cross slide | mm (in) | 200 (7.9) | |
| Swing over saddle wings | mm (in) | 430 (16.9) | |
| Cross slide travel (X axis) | mm (in) | 220 (8.7) | |
| Longitudinal carriage travel (Z axis) | mm (in) | 1,065 (42) | |
| Bed | | | |
| Width | mm (in) | 305 (12) | |
| Height | mm (in) | 290 (11.4) | |
| Headstock | | | |
| Spindle nose | ASA | A2-5" | A2-6" |
| Spindle hole diameter | mm (in) | 53 (2.1) | 65 (2.6) |
| Transmission system | | Direct drive | |
| Speed ranges | rpm | 4 to 4,000 | 3 to 3,000 |
| Feeds | | | |
| Rapid traverse – Z axis | m/min (in/min) | 10 (394) | |
| Rapid traverse – X axis | m/min (in/min) | 10 (394) | |
| Manual Tailstock | | | |
| Body positioning | | Manual | |
| Quill drive | | Manual (std) / Pneumatic or Hydraulic (opt) | |
| Maximum quill stroke | mm (in) | 120 (4.7) | |
| Quill diameter | mm (in) | 60 (2.4) | |
| Quill taper hole | CM | 4 | |
| Installed Power | | | |
| AC Main motor (S - 40% rating) | hp/kW | 12.5 / 9 | |
| AC Main motor (continuous rating) | kVA | 15 | |
| Dimensions and weights (approx.) - without chip conveyor | | | |
| Floor space required - 1.0 m between centers | m (in) | 3.10 x 1.24 (122 x 49) | |
| Approx. net weight - 1.0 m between centers | kg (lbs) | 2,500 (5,500) | |



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TECHNICAL SPECIFICATIONS - TOOL HOLDERS AND TURRETS

| Quick change tool holder (opt) | | | |
|---|--------|---------|-----------------------|
| Holders | | | 2 or 3 |
| Tool holder size | Square | mm (in) | 20 x 20 (0.79 x 0.79) |
| | Round | mm (in) | Ø 25 (0.98) |
| Rear tool holder (opt) | | | |
| Tool holder size | Square | mm (in) | 20 x 20 (0.79 x 0.79) |
| | Round | mm (in) | Ø 25 (0.98) |
| Gang Tools (opt) | | | |
| Tool holder size | Square | mm (in) | 20 x 20 (0.79 x 0.79) |
| | Round | mm (in) | Ø 1" |
| 8 station manual square turret (opt) | | | |
| Tool holder size | Square | mm (in) | Ø 1" x 1" |
| | Round | mm (in) | Ø 1" |
| 8 station horizontal automatic turret (opt) | | | |
| Tool holder fixing type | | | Romi |
| Number of stations / tools | | un | 8 |
| Tool holder size | Square | mm (in) | Ø 1" x 1" |
| | Round | mm (in) | Ø 1" |

SIEMENS CONTROL 828D



STANDARD FUNCTIONS

RESOURCES AND CNC PERFORMANCE

| | |
|---|---|
| . Minimum block cycle time = 9ms | . Ethernet Interface |
| . Look Ahead = 150 | . USB Interface |
| . Pitch Error | . CF Card interface |
| . Synchronous Actions | . Part Number, Machining Cycle Time and Clock |
| . Idioms: Portuguese, English, Spanish, Italian, German, French | . Calculation Function |

PROGRAMMING RESOURCES

| | |
|--|-------------------|
| . Directory Classified by Program, Subprogram and Cycles | . Subprogram call |
|--|-------------------|

| | |
|---------------------------------------|--|
| . High Level Language | . Memory Program Number = 750 |
| . ProgramGuide | . Part Program Storage = 3 MB |
| . Program Block Search | . File Management |
| . Simultaneous editing for 2 programs | . Linear, Circular and Helical Interpolation |
| . Background Editing | |
| FEEDRATE FUNCTIONS | |
| . Feedrate in mm/min or inch/min | . Feedrate and Precision Position on the Corners |
| . Feedrate in mm/rot or inch/rot | . Exact Stop |

| | |
|----------------------------------|--|
| GRAPHIC FUNCTIONS | |
| . Graphic Simulation – 2D and 3D | . Animated Elements – cycle parameters support |

| | |
|---|--|
| COORDINATE SYSTEMS | |
| . Work Plane Selection | . Workpiece Coordinate System Presetting |
| . Workpiece Coordinate System with 50 Pairs | . Local Workpiece Coordinate System |
| . Machine Coordinate System | . Tool length measuring Screen – Manual Mode |

| | |
|--|------------------------------|
| COORDINATE VALUES AND DIMENSIONS | |
| . Speed and Dimension in Inch or Metric | . Mirror / Amirror |
| . Absolute and Incremental Programming Mode | . Coordinate System Rotating |
| . Linear and Circular Interpol. with Polar Coordinates | . Transfer Zero Point |
| . Scale / Ascale | |

| | |
|---|--|
| SPINDLE FUNCTIONS | |
| . Spindle Angular Positioning (M19 ou Spos) | |

| | |
|---|------------------------|
| APPLIED TOOL FUNCTION | |
| . Tool Radius Compensation | . Tool Management |
| . Tool Length Manual Measurement | . Tool Life Management |
| . Tool Offset Compensation Pairs = 256 (Length and Diameter / Radius) | |
| MACRO | |
| . Parametric Programming | . System Variables |



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. Macro and User Variables

SIMPLIFICATION PROGRAM FUNCTIONS

| | |
|--|--|
| . Canned Cycle for Drilling, Boring and Tapping | . Rigid Tapping |
| . Linear and Circular Pattern for Drilling (*) | . Turning on free forms Cylindrical Surface - TRACYL (*) |
| . Grid Pattern for Drilling (*) | . Turning on free forms on Face of Part - TRANSMIT (*) |
| . Circular Pattern for Straight and Circular Slots | . Face milling (*) |
| . Circular Pattern for Oblong Milling (*) | . Rectangular pocket (*) |
| . Canned Cycle for Rigid Tapping | . Circular pocket (*) |
| . Canned Cycle for Thread Milling | . Multi-edge (*) |
| . Floating Tapping | . Rectangular spigot (*) |
| . Engraving Cycle (*) | . Circular spigot (*) |
| . Thread repair | (*) Just for machines with live tool turret. |

PROGRAMMING FORMAT - 828D SERIES

| | |
|-------------------------------|--------------------------------|
| . ISO format for 828D command | . ProgramGUIDE CNC-Programming |
|-------------------------------|--------------------------------|

EXECUTION OPERATIONS

| | |
|----------------------|---|
| . JOG Mode | . Program Test Operation Mode |
| . Handwheel Mode | . Block Delete Mode |
| . MDA Operation | . Axes Referencing by Program |
| . Automatic Mode | . Tool Retract and Repositioning in JOG Mode (Key REPOS)] |
| . Single Block Mode | . Program Restart |
| . Program Stop Mode | . Automatic Operation by Memory or Remote |
| . Optional Stop Mode | |

MAINTENANCE FUNCTIONS

| | |
|------------------------------------|--|
| . Diagnostics and Alarms Functions | |
|------------------------------------|--|

ENERGY CONTROL SYSTEM

| | |
|-------------------------|---------------------------------|
| . Control Energy CTRL-E | . User variables (R parameters) |
|-------------------------|---------------------------------|

ROMI C 470 x 40" (1,000 MM) BETWEEN CENTERS - ASA A2-5"

C030X05X10S60J

ROMI C 470 x 40" (1,000mm) between centers - Version 6.0 (#1)

68,224



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| | | |
|--------|--|----------|
| X74854 | Coolant pump (10 lpm @ 7 bar, 1.5kw / 2cv) | Included |
| X75172 | Chip conveyor interface | Included |
| X74855 | Box for chips collecting (coolant tank) | Included |
| X75209 | Romi manual machining package | Included |
| X74859 | Autotransformer 360/390/480V 50/60Hz | Included |

| ROMI C 470 x 40" (1,000 MM) BETWEEN CENTERS - ASA A2-6" | | |
|---|---|----------|
| C030X06X10S60J | ROMI C 470 x 40" (1,000mm) between centers - Version 6.0 (#1) | 71,544 |
| X74854 | Coolant pump (10 lpm @ 7 bar, 1.5kw / 2cv) | Included |
| X75172 | Chip conveyor interface | Included |
| X74855 | Box for chips collecting (coolant tank) | Included |
| X75209 | Romi manual machining package | Included |
| X74859 | Autotransformer 360/390/480V 50/60Hz | Included |

. Prices are USD.

FOB Erlanger, Kentucky

Terms of Payment are 20% with order, Balance 30 days after shipment.

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

Machine must ship on: Flat Bed, Air-Ride Truck, tarps, and straps.

OPTIONAL EQUIPMENT FOR MACHINE CONFIGURATION

COOLANT PUMPS



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| | | |
|---|--|-------|
| X74853 | Coolant pump (10 lpm @ 5 bar, 1.5kw / 2cv) | 2,119 |
| X74854 | Coolant pump (10 lpm @ 7 bar, 1.5kw / 2cv) | |
| CHIP CONVEYOR / BOX FOR CHIPS COLLECTING | | |
| X75172 | Chip conveyor interface (#3) | 465 |
| X74856 | Transversal Hinged belt chip conveyor (TCE) (universal, many types of chips, indicated for short curled chips, usually steel) and coolant tank - 1.000mm between centers (#4) | 5,059 |
| SE01473 | Transversal Drag belt chip conveyor (TCA) (for short thin chips, cast iron and non-ferrous - not proper for steel chips or long chips) and coolant tank - 1.000mm between centers (#4) | 5,549 |
| X74855 | Box for chips collecting (coolant tank) | 1,131 |

ACCESSORIES

8 STATION DISK TYPE AUTOMATIC TURRET

| | | |
|--------|--|--------|
| X74842 | 8 station disk type automatic turret, electrically driven standard disk with eight tools tighten block, one facing tool holder (1 x 1), two boring tool holder (Ø 1), five reduction sleeves: 5/16, 3/8, 1/2, 5/8, 3/4 and one sleeve MT-1 | 12,905 |
|--------|--|--------|

TOOL POST AND RISER BLOCK SETS DORIAN OR ALORIS

| | | |
|-------------|---|----------------------------|
| SDN35CXA-RS | Dorian Set - 1 tool post, 2 tool holders, 2 bore holder, 1 cutoff tool holder, 1 drill chuck holder | 3,938 |
| SDN35CXA-RB | Dorian Set - riser block | Included in the Dorian Set |

AUTOMATIC MACHINE OPERATION

| | | |
|--------|--|-------|
| X75209 | Romi manual machining package provided with a car configured by control apron for X and Z axes, joystick switches and a user-friendly Siemens software "Manual Machine Plus" | 5,850 |
|--------|--|-------|

ENVIRONMENTAL CONTROL

| | | |
|--------|---|-------|
| X75253 | Air conditioning for electrical cabinet | 6,807 |
| X75256 | Oil skimmer | 1,462 |

TAILSTOCK

| | | |
|--------|---|-------|
| R36159 | Live center MT-4 | 489 |
| X75210 | Hydraulic operated tailstock quill with mt-4 live center (in place of standard) - 1000mm between centers (#8) | 4,045 |
| SEE | Pneumatic operated tailstock quill with mt-4 live center and foot switch included (in place of standard) (#6) | 3,299 |

TOOL HOLDER

| | | |
|--------|--|-------|
| X75222 | Gang-tooling plate, with 1 turning tool holder (20 x 20mm), 2 facing tool holder (20 x 20mm), 2 boring bar holder (Ø 25mm) and 3 reduction sleeves (Ø 12, 16, 20mm) and drill socket MT-1 (#9) | 3,061 |
| X75223 | Gang-tooling plate, with 1 turning tool holder (3/4 x 3/4) 2 facing tool holder (3/4 x 3/4), 2 boring bar holder (Ø 1) and 3 reduction sleeves (Ø 1/2, 5/8, 3/4) and drill socket MT-1 (#9) | 3,061 |
| X75229 | Quick change tool holder base (2 faces), with one boring bar holder (Ø 25mm) and one turning tool holder (25 x 25 mm) (#9) | 2,008 |

| | | |
|--------|--|-------|
| X75230 | Quick change tool holder base (2 faces), with one boring bar holder (\varnothing 1) and one turning tool holder (1 x 1) (#9) | 2,008 |
| X75233 | Quick change tool holder base (3 faces), with one boring bar holder (\varnothing 25 mm) and two turning tool holder (25 x 25 mm) (#9) | 3,004 |
| X75234 | Quick change tool holder base (3 faces), with one boring bar holder (\varnothing 1) and two turning tool holder (1 x 1) (#9) | 3,004 |
| X75242 | Rear tool holder, with a t-slot base, one turning tool holder (20 x 20mm) and one boring bar holder (\varnothing 25mm) (#9) | 2,895 |
| X75243 | Rear tool holder, with a t-slot base, one turning tool holder (3/4 x 3/4) and one boring bar holder (\varnothing 1) (#9) | 2,895 |

WORKING WITH BARS

| | | |
|--------|---|-------|
| R92756 | Mechanical bar puller cap. \varnothing 8 to 50mm (5/16" to 2") - 20 x 20mm - without built-in cut-off tool holder | 1,065 |
| R92755 | Mechanical bar puller cap. \varnothing 8 to 50mm (5/16" to 2") - 25 x 25mm - without built-in cut-off tool holder | 954 |
| S94122 | Mechanical bar puller cap. \varnothing 8 to 50mm (5/16" to 2") - 20 x 20mm - with built-in cut-off tool holder | 1,784 |
| S53003 | Mechanical bar puller cap. \varnothing 8 to 50mm (5/16" to 2") - 25 x 25mm - with built-in cut-off tool holder | 2,136 |

WORKING WITH SHAFTS

| | | |
|--------|---|-------|
| X75224 | Follow rest with rollers 12 to 50mm (1/2 to 2") \varnothing capacity | 2,914 |
| X75217 | Steady rest open with bronze tips \varnothing 8 to 80mm (5/16 to 3 1/8") capacity | 1,201 |
| X51726 | Additional set of bronze tips \varnothing 8 to 80mm | 179 |
| X75218 | Steady rest closed with bronze tips \varnothing 8 to 80mm / \varnothing 80 to 152mm (5/16" to 3 1/8" / 3 1/8" to 6") capacity | 1,426 |
| X51729 | Additional set of bronze tips \varnothing 80 to 152mm (3 1/8" to 6") capacity | 179 |
| X51728 | Additional set of rollers \varnothing 8 to 80mm (5/16 to 3 1/8") capacity | 547 |
| X51730 | Additional set of rollers \varnothing 80 to 152mm (3 1/8" to 6") capacity | 391 |
| X75215 | Steady rest U type with rollers \varnothing 101,6 to 203,2mm (4 to 8") capacity | 4,719 |
| X51724 | Additional set of rollers \varnothing 50,8 to 177,8mm (2 to 7") capacity | 1,407 |

OTHER ACCESSORIES

| | | |
|---------|--|-------|
| X75248 | 8 station manual square head turret | 5,180 |
| SEE | Basic pneumatic kit (#8) | 342 |
| X74858 | Autotransformer 220V 50/60Hz | 2 |
| X75267 | M code external interface with miscellaneous functions (4 M codes) -Extra Kit | 313 |
| R88974 | Tooling kit Sandvick with 10 tool holder and 100 inserts (section 25 x 25mm) | 5,899 |
| X75254 | Wash gun with additional pump | 2,002 |
| SE10001 | Extra set of operating, maintenance, programing, installation, and parts manuals in electronic media | 199 |
| SE10002 | Extra set of operating, maintenance, programing, installation, and parts manuals on paper | 423 |

CHUCKS AND ACCESSORIES (#10)
PRATT BURNERD 3 JAWS UNIVERSAL CHUCK



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| | | |
|---------|---|-------|
| 625300 | 6" 3-Jaw Universal Steel Body Setrite 1.81" thru-hole | 1,525 |
| 605010 | 6" A2-5 Mounting Plate required with the above Chuck | 375 |
| 605011 | 6" A2-6 Mounting Plate required with the above Chuck | 450 |
| 825300 | 8" 3-Jaw Universal Steel Body Setrite 2.25" thru-hole | 1,825 |
| 805010 | 8" A2-5 Mounting Plate required with the above Chuck | 450 |
| 805011 | 8" A2-6 Mounting Plate required with the above Chuck | 450 |
| 814410 | 8" 4-Jaw high quality independent chuck series 144 with solid reversible jaws and A2-5 adapter | 1,800 |
| 814411 | 8" 4-Jaw high quality independent chuck series 144 with solid reversible jaws and A2-6 adapter | 1,800 |
| 1014410 | 10" 4-Jaw high quality independent chuck series 144 with solid reversible jaws and A2-5 adapter | 2,075 |
| 1014411 | 10" 4-Jaw high quality independent chuck series 144 with solid reversible jaws and A2-6 adapter | 2,075 |

HYDRAULIC CHUCK AND THRU HOLE REAR CYLINDER (#5)

| | | |
|--------|---|-------|
| X75174 | Ø 165mm (6.5") hydraulically operated chuck, with milimeters serration 1,5mm x 60°, bar capacity Ø 42mm -A2-5" (#6) | 4,314 |
| X75175 | Ø 210mm (8") hydraulically operated chuck, with milimeters serration 1,5mm x 60°, bar capacity Ø 42mm -A2-5" (#6) | 4,747 |
| X75176 | Ø 210mm (8") hydraulically operated chuck, with milimeters serration 1,5mm x 60°, bar capacity Ø 51mm -A2-6" (#6) | 4,874 |
| X75177 | Ø 165mm (6.5") hydraulically operated chuck, with inch serration 1/16" x 90°, bar capacity Ø 42mm -A2-5" (#6) | 4,314 |
| X75178 | Ø 210mm (8") hydraulically operated chuck, with inch serration 1/16" x 90°, bar capacity Ø 42mm A2-5" (#6) | 4,747 |
| X75179 | Ø 210mm (8") hydraulically operated chuck, with inch serration 1/16" mm x 90°, bar capacity Ø 51mm -A2-6" (#6) | 4,874 |

T-SLOTTED FACE PLATE

| | | |
|--------|--|-----|
| X75204 | T-slotted face plate with 6 T-slots Ø 400mm (15.7") Romi (Cast Iron) - without sub-chuck, thru-hole Ø 78mm (3.07"), 375rpm max - ASA A2-5" | 891 |
| X75205 | T-slotted face plate with 6 T-slots Ø 400mm (15.7") Romi (Cast Iron) -without sub-chuck, thru-hole Ø 78mm (3.07"), 375rpm max -ASA A2-6" | 920 |

3 JAWS UNIVERSAL CHUCK (INCLUDED ADAPTER PLATE)

| | | |
|--------|--|-------|
| X75186 | 3 jaws universal chuck Ø 160mm (6.3") Rohm (Cast Iron) - Solid Jaws, thru-hole Ø 42mm (1.65"), 3600rpm max. - ASA A2-5" | 1,298 |
| X75187 | 3 jaws universal chuck Ø 200mm (7.9") Rohm (Cast Iron) - Solid Jaws, thru-hole Ø 55mm (2.16"), 3000rpm max. - ASA A2-5" | 1,516 |
| X75189 | 3 jaws universal chuck Ø 160mm (6.3") Rohm (Steel) - Reversible Jaws, thru-hole Ø 42mm (1.65"), 4600rpm max. - ASA A2-5" | 1,656 |
| X75190 | 3 jaws universal chuck Ø 200mm (7.9) (Steel) - Reversible Jaws, thru-hole Ø 55mm (2.16), 4000rpm max. - ASA A2-5 | 2,030 |
| X75198 | 3 jaws universal chuck Ø 160mm (6.3") Bison (Steel) -Reversible Jaws, thru-hole Ø 42mm (1.65"), 4500rpm max -ASA A2-5" | 1,803 |
| X75200 | 3 jaws universal chuck Ø 200mm (7.9) Bison (Steel) -Reversible Jaws, thru-hole Ø 55mm (2.16), 4000rpm max -ASA A2-6 | 2,962 |

EXTRA KIT

| | | |
|---------|---|-------|
| X75227 | Gang-tooling plate, with 1 turning tool holder (20 x 20mm), 2 facing tool holder (20 x 20mm), 2 boring bar holder (\varnothing 25mm) and 3 reduction sleeves (\varnothing 12, 16, 20mm) and drill socket mt-1 - Extra kit | 3,428 |
| X75252 | Hydraulic power unit - Extra kit (#9) | 8,202 |
| X75267 | M code external interface with miscellaneous functions (4 M codes) - Extra Kit | 354 |
| X75257 | Oil skimmer - Extra kit | 1,636 |
| X75231 | Quick change tool holder base (2 faces), with one boring bar holder (\varnothing 25mm) and one turning tool holder (25 x 25 mm) - Extra kit | 2,249 |
| X75235 | Quick change tool holder base (3 faces), with one boring bar holder (\varnothing 25 mm) and two turning tool holder (25 x 25 mm) - Extra kit | 3,366 |
| X75244 | Rear tool holder, with a t-slot base, one turning tool holder (20 x 20mm) and one boring bar holder (\varnothing 25mm) - Extra kit | 3,243 |
| X75226 | Steady rest closed with bronze tips \varnothing 8 to 80mm (5/16 to 3 1/8") \varnothing capacity - Extra kit | 1,597 |
| X75216 | Steady rest U type with rollers \varnothing 101,6 to 203,2mm (4 to 8") capacity - Extra kit | 5,286 |
| X75212 | Transformation of Manual to Hydraulic Tailstock -Extra kit (#12) | 5,897 |
| SE01480 | Transversal Hinged belt chip conveyor (TCE) (universal, many types of chips, indicated for short curled chips, usually steel) and coolant tank - 1.000mm between centers - Extra kit (#4) | 5,664 |
| X75255 | Wash gun with additional pump - Extra kit | 2,242 |
| X75183 | \varnothing 165mm (6.5") hydraulically operated chuck, with inch serration 1/16" x 90°, bar capacity \varnothing 42mm -A2-5" -Extra kit (#13) | 4,831 |
| X75184 | \varnothing 210mm (8") hydraulically operated chuck, with inch serration 1/16" x 90°, bar capacity \varnothing 42mm A2-5" -Extra kit (#13) | 5,317 |

EXTRA TOOLING
GANG-TOOLING PLATE

| | | |
|--------|--|-----|
| R95389 | T-slot base | 849 |
| R06007 | Turning tool holder 20 x 20mm | 483 |
| R06008 | Boring bar holder \varnothing 25mm | 467 |
| R06161 | Reduction sleeve \varnothing 8 x \varnothing 25mm | 149 |
| R06162 | Reduction sleeve \varnothing 10 x \varnothing 25mm | 149 |
| R06163 | Reduction sleeve \varnothing 12 x \varnothing 25mm | 149 |
| R06164 | Reduction sleeve \varnothing 16 x \varnothing 25mm | 149 |
| R06165 | Reduction sleeve \varnothing 20 x \varnothing 25mm | 149 |
| R06041 | Drill socket MT-1 x \varnothing 25mm | 185 |
| R06010 | Facing tool holder 20 x 20mm | 367 |

HYDRAULIC CHUCK \varnothing 165MM

| | | |
|--|---|-------|
| R74244 | Set of three soft jaws (metric serration - 1,5mm x 60°) | 288 |
| S98830 | Set of three hard jaws (metric serration - 1,5mm x 60°) | 946 |
| S19162 | Set of three soft jaws (inch serration - 1/16" x 90°) | 319 |
| S19161 | Set of three hard jaws (inch serration - 1/16" x 90°) | 1,054 |
| HYDRAULIC CHUCK Ø 210MM | | |
| R66792 | Set of three soft jaws (metric serration - 1,5mm x 60°) | 367 |
| R66794 | Set of three hard jaws (metric serration - 1,5mm x 60°) | 1,178 |
| S19165 | Set of three soft jaws (inch serration - 1/16" x 90°) | 384 |
| S19164 | Set of three hard jaws (inch serration - 1/16" x 90°) | 1,191 |
| QUICK CHANGE TOOL HOLDER WITH 2 AND 3 FACES | | |
| R25467 | Turning tool holder 25 x 25mm | 171 |
| R25468 | Boring bar holder Ø 25mm | 201 |
| REAR TOOL HOLDER | | |
| S91139 | Turning tool holder 20 x 20mm | 741 |
| S91159 | Boring bar holder Ø 25mm | 606 |
| 3 JAWS UNIVERSAL CHUCK Ø 160MM | | |
| R51828 | Set of 3 soft jaws - Rohm | 222 |
| S18985 | Set of 3 hard jaws - Rohm | 595 |
| R81459 | Set of 3 soft jaws - Bison/Onça | 201 |
| R81458 | Set of 3 hard jaws - Bison/Onça | 533 |
| 3 JAWS UNIVERSAL CHUCK Ø 200MM | | |
| S18738 | Set of 3 soft jaws to the chuck Ø7.9" (Ø 200mm) | 261 |
| R87729 | Set of 3 hard jaws to the chuck Ø7.9" (Ø 200mm) | 693 |
| R84231 | Set of 3 soft jaws - Bison/Onça | 235 |
| R84232 | Set of 3 hard jaws - Bison/Onça | 627 |
| 8 STATION ELECTRIC TURRET | | |
| PA20772 | Locking block for turning tool | 45 |
| U26088 | Boring bar holder Ø 25mm - external cooling | 460 |
| R86817 | Reduction sleeve Ø 8 x Ø 25mm | 169 |
| R86818 | Reduction sleeve Ø 10 x Ø 25mm | 169 |
| R86819 | Reduction sleeve Ø 12 x Ø 25mm | 169 |
| R86820 | Reduction sleeve Ø 16 x Ø 25mm | 169 |
| R86821 | Reduction sleeve Ø 20 x Ø 25mm | 169 |
| R86822 | Drill socket MT-1 x Ø 25mm | 186 |
| U30638 | Boring bar holder Ø 1" -external cooling | 460 |
| R86805 | Reduction sleeve Ø 5/16 x Ø 1" | 169 |
| R86806 | Reduction sleeve Ø 3/8" x Ø 1" | 169 |
| R86807 | Reduction sleeve Ø 1/2" x Ø 1" | 169 |
| R86808 | Reduction sleeve Ø 5/8 x Ø 1" | 169 |
| R86809 | Reduction sleeve Ø 3/4 x Ø 1" | 169 |
| R86811 | Drill socket MT-1 x Ø 1" | 186 |



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| | | |
|---------|--|-------|
| U26937 | Boring bar holder Ø 25mm -internal cooling | 1,143 |
| PA20833 | Reduction sleeve with internal cooling Ø 10mm x Ø 25mm | 102 |
| PA20835 | Reduction sleeve with internal cooling Ø 12mm x Ø 25mm | 102 |
| PA20838 | Reduction sleeve with internal cooling Ø 16mm x Ø 25mm | 102 |
| U26940 | Reduction sleeve with internal cooling Ø 20mm x Ø 25mm | 102 |
| U26086 | Facing tool holder 25 x 25mm | 527 |
| U30594 | Facing tool holder 1 x 1" | 527 |

Notes:

(#1) Mandatory to sell the package.

Mandatory the sale of the optional "Chip conveyor / Box for chips collecting", "Coolant pump" and Cover for machine sold without chuck.

(#2) Mandatory sale for machines that will be shipped to stock at Romi subsidiaries.

(#3) This interface is applied to chip conveyors manufactured according to Romi specification.

(#4) Mandatory the sale of the accessory "Chip conveyor interface".

(#5) Notice for bar capacity limitation when chucks are used.

(#6) Mandatory the sale of the accessory "Hydraulic power unit".

Foot of switch is not included in this set, if necessary, to attend the costumer's process, it should be sold the accessory "Foot switch for cylinder chuck (hydraulically operated chuck)"

(#7) Mandatory the sale of the accessory "Electronic Interface".

(#8) Mandatory the sale of the accessory "Hydraulic power unit".

Foot of switch is not included in this set, if necessary, to attend the costumer's process, it should be sold the accessory "Foot switch for tailstock quill"

(#9) Mandatory the sale of "Deduction of 8 Station disk type automatic turret".

(#10) The sale of a single accessory " Hydraulic unit ", it is enough for the drive of the accessories "Hydraulic chuck", "Tailstock with hydraulically driven quill" and "72 positions indexing (5°)".

(#11) The sale of only one accessory "Electronic interface" covers the accessories: "Kit Multiplic", "72 positions indexing"

(#12) Mandatory the sale of the accessory "Hydraulic power unit".

(#13) Mandatory the sale of the accessory "Hydraulic power unit".

Foot of switch is not included in this set, if necessary, to attend the costumer's process, it should be requested by SEE the accessory "Foot switch for cylinder chuck (hydraulically operated chuck)"



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ROMI BW MACHINE TOOLS, LTD.
GENERAL SALES CONDITION

1. PRICE

- 1.1. Prices are subject to change by ROMI due to increases in costs or otherwise, without notice to BUYER.
- 1.2. Any taxes or fees existing or that may be established by the Commercial Invoice issue will be of responsibility of the BUYER.

2. CREDIT

- 2.1. The granting of credit is conditional on the BUYER's non-existence of credit restrictions, according to consultation to be held by the credit companies.
- 2.2. The credit is subject to a review if any modification was made in the BUYER's controlling shareholder, its related firms, subsidiaries or parent companies.

3. DELIVERY, SHIPPING AND INSURANCE

- 3.1. The obligations, responsibilities, mode of shipment, costs, delivery risks, transport and product's insurance are those defined according to Incoterm negotiated and described in the Purchase Order.
- 3.2. Products shipped from outside the continental United States shall be shipped F.O.B. Port of Entry and Products assembled or manufactured in ROMI's Erlanger, Kentucky facility shall be shipped F.O.B. Erlanger, Kentucky. "Port of Entry" shall mean any port at the borders of the continental United States at which a customs-house or revenue office is established for the execution of U.S. laws imposing duties on vessels and imported goods
- 3.3. If the scheduled delivery of Products is delayed by BUYER or by reason of any force majeure contingency, BUYER shall be liable for any price increases in effect at the date of shipment to BUYER. In case of the carrier designated by BUYER fail to pick up the Products within two (2) days after being given notice, ROMI reserves the right to select and make shipment by an alternative carrier and charge BUYER for such shipment.

4. PAYMENT

- 4.1. The conditions and currency of payment are established by the price list, proforma, invoice and/or Purchase Order.
- 4.2. In case of payment through Letter of Credit, all fees and expenses with their collection must be supported by the BUYER.
- 4.3. The lack of payment of any importance, in the due dates, may result in postponement of delivery of the equipment for a new term to be defined by ROMI and, after 45 days of default of contract ROMI shall have the right to cancel the order.
- 4.4. A Finance Charge of 1.5% per month (18% per annum) will be charged on all past due accounts.
- 4.5. Retention or payment deduction is not allowed, in any way whatsoever, without ROMI's prior writing consent.
- 4.6. The release of the product for loading and shipment is bound to the accomplishment of payment conditions.

5. TITLE RETENTION

- 5.1. In the event that the sale resulting from the Purchase Order is carried out with Retention of Title, as provided for in articles 2 and 9 of the Kentucky Uniform Commercial Code (UCC), which regulates the sale of goods, and is related to the concept of transfer of title and real guarantees, ROMI is reserved the right of ownership over the object described in the Purchase Order, until the BUYER fully fulfills all obligations arising from the contract, in particular the full payment of the purchase.
- 5.2. The Retention of Title shall be deemed a grant of a security interest by the BUYER in favor of ROMI pursuant to Article 9 of the UCC. To protect ROMI's rights, BUYER agrees that ROMI may file a financing statement under the UCC using the information in the agreement and will be released upon payment in full.

6. ACCEPTANCE

- 6.1. Unless BUYER provides ROMI with written notice, within forty-five (45) days after the date of shipment, of (i) any incomplete item with respect to the order of the Products or (ii) any defect in the Products, then BUYER's acceptance of the Products shall be deemed to have occurred on the earlier of BUYER's written acceptance to ROMI or on the forty-fifth (45th) day after the date of shipment. For parts and accessories, the period for acceptance shall be ten (10) days. In the case of proper and timely written notice to ROMI from BUYER, then BUYER's acceptance shall be deemed to have occurred on the date ROMI reasonably corrects such incomplete order or defect. Notwithstanding the foregoing, any assignment of the Products by Buyer to a bank or other financing company for the purpose of an equipment lease or other financing transaction shall be deemed to be an acceptance of the Products.

7. WARRANTY

- 7.1. ROMI guarantees the PRODUCT against defects in material and workmanship during the warranty period.
- 7.2. During the warranty period, ROMI will replace or repair, at its sole discretion, without any cost to the BUYER, PRODUCT's parts or components that is known to be defective except the exceptions listed in clause 9.
- 7.3. The replacement parts and components, due to security, are ROMI's property and will be returned to ROMI at the buyer's expenses.

8. WARRANTY PERIOD

- 8.1. Unless otherwise specified, the warranty period is twelve (12) months, to be counted from the shipment date.
- 8.2. The repair, modification, or replacement of parts or components, during the warranty period, will not extend its original period.
- 8.3. In case of transfer of the PRODUCT, the warranty will be transferred automatically to the new owner, keeping its original maturity.
- 8.4. The nature of electrical equipment, electronic, pneumatic, mechanical or hydraulic, manufactured for the machines by a third party are guaranteed by the respective manufacturers.
- 8.5. Without liability, ROMI shall have the right to withhold warranty service on any Product in the event that BUYER's accounts with ROMI are not current.

9. WARRANTY DOES NOT COVER

- 9.1. The repair or replacement of lamps, fuses, brake pads, lamellas of clutch, belts, filters, sealing gaskets, retainers and lubricants, batteries, reactors, wipers, drive buttons, batteries, belts, solid state relays, resistances, magnetic and pressure sensors, thermocouples, rectifier bridges, light fixtures, ballasts, glasses, way wipers, push buttons and clutch plates.
- 9.2. Charges for the transportation and insurance, parts components or the product, as well as the costs of admission in the target country.
- 9.3. Traveling costs and accommodation of ROMI's employees, sent in order to repair the product.
- 9.4. The repair of defects, damages or failure of any kind, if caused by:
 - a-) improper use of the PRODUCT;
 - b-) fails, hits, exposure to hostile environments and major force;
 - c-) prolonged lack of use of the product;
 - d-) supply or improper use of electric energy;
 - e-) improper storage;
 - f-) cutting fluids and lubrication out of specification.

10. WARRANTY'S TERMINATION

- 10.1. The warranty shall be terminated if any of the following cases occurs:
 - a) Disregard for the installation, use, maintenance and safety rules, contained in the instructions manual that comes with the product.
 - b) PRODUCT modification or the use of improper accessories;



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- c) Technical assistance provided by thirds unauthorized by ROMI.
- d) Lack of payment, in total or part due to the acquisition of the product.

11. INSTALLATION AND DELIVERY

11.1. The price of the PRODUCT does not include installation services, technical, delivery and technical supervision during installation. ROMI shall have no obligation to provide any erection or installation services in respect of the Products. BUYER shall be solely responsible for timely site preparation for any erection, installation, warranty or other services that ROMI may provide

12. SUBSTITUTION OF MATERIALS

12.1. In the event that ROMI is unable to obtain any specified materials or parts in time to meet the scheduled delivery date, ROMI may substitute other materials or parts which will not in ROMI's judgment impair the essential functions, strength or life of the Products.

13. ORDER CANCELLATION

13.1. Failure to comply with the obligations provided by Clause 4 can result in the termination of the Purchase Order, by ROMI's sole discretion.

13.2. In case of termination defined in Clause 13.1 or if ROMI accepts the cancellation of the Purchase Order requested by the BUYER, it will lose the down payment.

13.3. ROMI reserves the right to terminate the Purchase Order, if:

- a) Purchase Order not billed and dependent on credit approval;
- b) Restrictions regarding the protest or bad check, in consultation with the credit companies, or
- c) Corporate changes as constant in Clause 2.2;
- d) BUYER fails to perform any of the terms and conditions hereof and does not cure such failure within a period of ten (10) days after receipt of written notice from ROMI specifying such failure;
- e) BUYER becomes insolvent, makes an assignment in favor of creditors, or becomes subject to any bankruptcy, dissolution or similar proceedings;
- f) Any of these events occur: war, civil revolution, strike, lock-out, governmental order or regulation, national or local emergency, fire, flood, earthquake, storm, shortage of material, personnel or transportation. In those cases, the down payment will be refunded to the BUYER.

13.4. BUYER may terminate the Purchase Order following the terms:

a) Non-Customized Products: BUYER may, by prior written notice to ROMI, if within thirty (30) days of ROMI's acceptance of BUYER's order, cancel an order for Non-Customized Products, subject to a cancellation charge to be paid to ROMI equal to ten percent (10%) of the purchase price of such Products or, if more than thirty (30) days has elapsed from the date of ROMI's acceptance of BUYER's order, cancel an order for Non-Customized Products, subject to a cancellation charge to be paid to ROMI equal to fifteen percent (15%) of the purchase price of such Products plus payment of any costs incurred by ROMI in performing its obligations hereunder.

b) Customized Products: BUYER shall not cancel any order with ROMI for Customized Products (or any order for Non-Customized Products which includes any customized or specialized modifications, tooling, options, parts or accessories or added services or runoff that ROMI has agreed to provide) without ROMI's prior written consent. If ROMI authorizes the cancellation of any such order, then BUYER shall be liable to ROMI as follows: (i) for cancellation of an order for such Products for which ROMI's production is within thirty (30) days of the scheduled completion date, ROMI shall complete such production and hold such Products for BUYER's disposition, with BUYER liable to ROMI for full payment within thirty (30) days after completion, or (ii) for cancellation of an order for such Products for which ROMI's production is not within thirty (30) days of the scheduled completion date, BUYER shall pay ROMI (A) the actual costs and overhead expenses, determined in accordance with generally accepted accounting principles, for work in progress, order entry expenses, engineering process expenses and costs of materials and supplies procured or for which definite commitments have been made by ROMI in connection with BUYER's order and (B) fifteen percent (15%) of the contract price of the order. Unless otherwise agreed by ROMI in writing, under no circumstances shall BUYER have the right to delay shipment, delivery or acceptance of Products hereunder.

14. LIMITATION OF LIABILITY

14.1. ROMI's responsibility related to the Purchase Order, including loss or direct or indirect damages, claimed by the BUYER or any third party, in any event, it is limited to 20% (twenty percent) of the price of the PRODUCT, if legally proven ROMI's guilt.

IN NO EVENT SHALL ROMI BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, INCLUDING WITHOUT LIMITATION DAMAGES FOR INJURY TO PERSON OR PROPERTY, LOST PROFITS OR REVENUE, LOST SALES OR LOSS OF USE OF ANY PRODUCT. BUYER'S SOLE AND EXCLUSIVE REMEDY AGAINST ROMI AND ITS DISTRIBUTORS OR SALES REPRESENTATIVES SHALL BE THE REPAIR OR REPLACEMENT OF DEFECTIVE PARTS AS PROVIDED HEREIN. ROMI'S LIABILITY ON ANY CLAIM, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, FOR ANY LOSS OR DAMAGE ARISING OUT OF OR IN CONNECTION WITH BUYER'S ORDER, SHALL IN NO CASE EXCEED THE PURCHASE PRICE OF THE ORDER. The sole purpose of the stipulated exclusive remedy provided for herein shall be to provide BUYER with repair or replacement of defective Products in the manner provided for herein. Such remedy shall not be deemed to have failed of its essential purpose so long as ROMI is willing and able to repair or replace defective Products in the prescribed manner. Any claim or action by BUYER arising out of or in connection with this Agreement or the Product, whether in contract, tort or otherwise, must be commenced within one (1) year after the cause of action has accrued or be barred.

15. ABSTENTION

15.1. Abstention from the exercise of any rights or powers to assist ROMI or an agreement with the delay or default or fulfilling the BUYER'S obligations, will not affect the rights and powers of ROMI, which may be exercised at any time.

16. RE-EXPORTATION

16.1. The BUYER cannot export/sell the product to countries where there are commercial boycotts or for commercial purposes of producing products of mass destruction. For this matter the BUYER must obtain ROMI's prior written approval.

BUYER shall not sell, consign, give, lease or otherwise transfer the Products or any interest therein nor in any manner disclose or make the Products available to any person or entity in violation of (i) the Export Administration Act, 50 U.S.C. App. §§ 2401-2420, as amended. (ii) the Nuclear Non-Proliferation Act of 1978, 22 U.S.C. §§ 3201-3282 and 42 U.S.C. §§ 2011-2160(a), as amended, (iii) export control regulations of the Bureau of Export Administration of the U.S. Department of Commerce, 15 C.F.R. Parts 768-799 or (iv) export control regulations of the Office of Foreign Assets Control, U.S. Department of the Treasury, 31 C.F.R. Parts 500-580.

17. SUPPLY OF DOCUMENT

17.1. In cases of sale to Trading Companies and Commercial Exporters, this one will send ROMI the first track of the Memorandum of Export within a period of 6 months from the date of the delivery of equipment, for proof of export.

18. GOVERNING LAW

18.1. The Agreement, and BUYER's purchase of Products, shall be governed by and interpreted in accordance with the laws of the Commonwealth of Kentucky, U.S.A. In no event do the parties intend that the United Nations convention for the international sale of goods apply to any dispute arising out of, or related to, this agreement or the relationship governing the parties hereto.

Any legal action or proceeding arising from or in connection with this agreement or the product shall be brought exclusively in the courts of the Commonwealth of Kentucky or in the U.S. District Court, Eastern District of Kentucky at Covington.

BUYER hereby irrevocably consents to personal jurisdiction in and service of process out of said State of Kentucky or U.S. Court in any such action or proceeding by mailing copies thereof by U.S. mail to BUYER or any other method of service permitted by such courts.