

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)	

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 Car 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
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. 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

. 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.

PROGRAMING FORMAT - 828D SERIES

. ISO format for 828D command	. ProgramGUIDE CNC-Programming
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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	
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ENERGY CONTROL SYSTEM

. Control Energy CTRL-E	. User variables (R parameters)
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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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Romi Machine Tools, Ltd.
1845 Airport Exchange
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Erlanger, KY 41051
Phone (859) 647-7566
www.romiusa.com

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

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
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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
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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 (Ø 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 (Ø 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 (Ø 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 (Ø 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 (Ø 1) (#9)	2,895
WORKING WITH BARS		
R92756	Mechanical bar puller cap. Ø 8 to 50mm (5/16" to 2") - 20 x 20mm - without built-in cut-off tool holder	1,065
R92755	Mechanical bar puller cap. Ø 8 to 50mm (5/16" to 2") - 25 x 25mm - without built-in cut-off tool holder	954
S94122	Mechanical bar puller cap. Ø 8 to 50mm (5/16" to 2") - 20 x 20mm - with built-in cut-off tool holder	1,784
S53003	Mechanical bar puller cap. Ø 8 to 50mm (5/16" to 2") - 25 x 25mm - with built-in cut-off tool holder	2,136
WORKING WITH SHAFTS		0
X75224	Follow rest with rollers 12 to 50mm (1/2 to 2") Ø capacity	2,914
X75217	Steady rest open with bronze tips Ø 8 to 80mm (5/16 to 3 1/8") capacity	1,201
X51726	Additional set of bronze tips Ø 8 to 80mm	179
X75218	Steady rest closed with bronze tips Ø 8 to 80mm / Ø 80 to 152mm (5/16" to 3 1/8" / 3 1/8 to 6") capacity	1,426
X51729	Additional set of bronze tips Ø 80 to 152mm (3 1/8 to 6") capacity	179
X51728	Additional set of rollers Ø 8 to 80mm (5/16 to 3 1/8") capacity	547
X51730	Additional set of rollers Ø 80 to 152mm (3 1/8 to 6") capacity	391
X75215	Steady rest U type with rollers Ø 101,6 to 203,2mm (4 to 8") capacity	4,719
X51724	Additional set of rollers Ø 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 ACESSORIES (#10)

PRATT BURNERD 3 JAWS UNIVERSAL CHUCK

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- 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 60º, bar capacity Ø 42mm -A2-5" (#6)	4,314
X75175	Ø 210mm (8") hydraulically operated chuck, with milimeters serration 1,5mm x 60º, bar capacity Ø 42mm -A2-5" (#6)	4,747
X75176	Ø 210mm (8") hydraulically operated chuck, with milimeters serration 1,5mm x 60º, bar capacity Ø 51mm -A2-6" (#6)	4,874
X75177	Ø 165mm (6.5") hydraulically operated chuck, with inch serration 1/16" x 90º, bar capacity Ø 42mm -A2-5" (#6)	4,314
X75178	Ø 210mm (8") hydraulically operated chuck, with inch serration 1/16" x 90º, bar capacity Ø 42mm A2-5" (#6)	4,747
X75179	Ø 210mm (8") hydraulically operated chuck, with inch serration 1/16"mm x 90º, 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 (Ø 25mm) and 3 reduction sleeves (Ø 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 (Ø 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 (Ø 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 (Ø 25mm) - Extra kit	3,243
X75226	Steady rest closed with bronze tips Ø 8 to 80mm (5/16 to 3 1/8") Ø capacity – Extra kit	1,597
X75216	Steady rest U type with rollers Ø 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	Ø 165mm (6.5") hydraulically operated chuck, with inch serration 1/16" x 90º, bar capacity Ø 42mm -A2-5" -Extra kit (#13)	4,831
X75184	Ø 210mm (8") hydraulically operated chuck, with inch serration 1/16" x 90º, bar capacity Ø 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 Ø 25mm	467
R06161	Reduction sleeve Ø 8 x Ø 25mm	149
R06162	Reduction sleeve Ø 10 x Ø 25mm	149
R06163	Reduction sleeve Ø 12 x Ø 25mm	149
R06164	Reduction sleeve Ø 16 x Ø 25mm	149
R06165	Reduction sleeve Ø 20 x Ø 25mm	149
R06041	Drill socket MT-1 x Ø 25mm	185
R06010	Facing tool holder 20 x 20mm	367

HYDRAULIC CHUCK Ø 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

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 with out 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.