

# ML – Combination Lathe Pricing

Effective September 1, 2010



Machine Model		ML16/40	ML18/60	ML22/60	ML26/40
Bed Length	Spindle Bore	Available Configurations			
40" 1 M	2.04" 52 mm	Standard	N/A	N/A	N/A
40" 1 M	3.22" 82 mm	N/A	N/A	N/A	Standard
60" 1.5 M	2.56" 65 mm	N/A	Standard	N/A	N/A
60" 1.5 M	3.22" 82 mm	N/A	N/A	Standard	N/A
80" 2 M	4.17" 106 mm	N/A	N/A	N/A	\$14,000
80" 2 M	6" 153 mm	N/A	N/A	N/A	\$22,000
120" 3 M	6" 153 mm	N/A	N/A	N/A	\$38,000
160" 4 M	6" 153 mm	N/A	N/A	N/A	\$58,000
***** Chip Conveyor Chip Removal System Included In Price of ML26 x 120" and ML26 x 160" Machines*****					
Swing Over Bed / Cross Slide		17.5" / 7.48"	19" / 9.25"	23" / 12.1"	27" / 16.1"
Spindle Horsepower 1 minute / 30 minutes		Single Speed 12/10 HP 9/7.5 kw	Single Speed 18/12 HP 13/9 kw	Single Speed 24/15 HP 18/11 kw	Single Speed 24/15 HP 18/11 kw
Optional Spindle Horsepower 1 minute / 30 minutes		Single Speed 18/12 HP 13/9 kw	Single Speed 24/15 HP 18/11 kw	Two Speed 24/15 HP 18/11 kw	Two Speed 24/15 HP 18/11 kw
MACHINE FEATURES		CONTROL FEATURES			
<ul style="list-style-type: none"> <li>• Two Year Parts Warranty</li> <li>• Fully Ground Solid Ways with Turcite Surfaces with Unique Square Box Ways on Bed For Long Life</li> <li>• Automatic Metered Lubrication with Low Lube Fault</li> <li>• Flood Coolant Pump with Nozzle</li> <li>• Chuck Guard with Safety Switch</li> <li>• Tail Stock with Adjustable Quill &amp; Safety Switch</li> <li>• Precision Ground Ball Screws</li> <li>• Heavy Duty Metal Enclosure with Full Front Guarding and Sliding Doors up to 120" (160" Bed has Traveling Guard)</li> <li>• Chip Drawer Chip Containment System (Optional Conveyor)</li> <li>• Gap Bed Design – Contact Factory for Information</li> </ul>		<ul style="list-style-type: none"> <li>• PC-based Milltronics CNC includes 2 MB Parts Storage Memory</li> <li>• 12" LCD Active Matrix Color Display</li> <li>• 6 MB Virtual Disk / RS-232 with DNC Buffer</li> <li>• Turning, Facing, Grooving, Tapping and Boring Cycles</li> <li>• Conversational plus G&amp;M Code Programming with Tool Path Graphics</li> <li>• All Axes Laser Calibrated and Ballbar Inspected</li> <li>• Automatic Home Sequence with Ball Screw Error Compensation</li> <li>• Door Interlock Safety Switch</li> <li>• Spindle Load Meter</li> <li>• LCD Hour Meter</li> <li>• Pattern Repeat, Chamfering, Radius Programming Assist with Handwheel Teach Mode</li> </ul>			
SOFTWARE PACKAGE A		PERFORMANCE PACKAGE C ML16 ML18 ML22/26			
24 MB Program Execution Memory with Large Program Management Software (Allows editing of 10 MB file) Additional 10 MB Parts Storage (12 MB Total) Thread Chasing Feature 3.5" Floppy Drive User Defined Macros with Trig Help Constant Surface (RPM changes with radius) and Feed/Rev. (IPR) with Threading Cycles  <i>Items may be purchased separately</i>		Off-line LatheCAM Software for Programming and Training  Remote Handheld Electronic Handwheel  Tail Stock Latch and Auto-Position Upgrade to 18/12 HP 13/9kw Spindle (ML16) Upgrade to 24/15 HP 18/11kw Spindle (ML18) Upgrade to Two Speed Wye/Delta 24/15 HP 18/11 kw Spindle (ML22 and ML26) Edit Key Lock-out Switch  <i>Items may be purchased separately</i>			
CONVENIENCE PACKAGE B ML16/18 ML22/26		HIGH SPEED LARGE PROGRAM PACKAGE D			
Dual Electronic Handwheel for Teach, Manual or Automatic Operation  Single Spare "M" Function and CNC "Wait" Channel  Work Lamp End of Cycle Light Steady Rest, Roller Type .75"-7.8" 20-200 mm Follow Rest, Brass Tips .4" – 4" 10-100 mm (ML16 and ML18) Follow Rest, Brass Tips .75" – 7.8" 20-200 mm (ML22 and 26)  <i>Items may be purchased separately</i>		Solid State, Non-Volatile, Memory Upgrade to 256 MB  Networking Option includes 30 Days Phone Support <i>Recommend 256 MB Option</i> "S" Curve Accel/Decel Ramp Modifier with Feed Forward and Look-Ahead for High Speed Turning Auto Import of DXF Files Conversion Software  <i>Items may be purchased separately</i>			

Machine Model	ML16	ML18	ML22	ML26	
<b>WORK HOLDING</b>					
8" 200 mm Manual 3 Jaw Chuck, Mounted - 2.16" Bore A2-5 Adaptor Plate		N/A	N/A	N/A	
8" 200 mm Manual 3 Jaw Chuck, Mounted - 2.17" Bore D1-6 Adaptor Plate	N/A		N/A	N/A	
10" 250mm Manual 3 Jaw Chuck, Mounted – 2.99" Bore D1-6 Adaptor Plate	N/A		N/A	N/A	
10" 250mm Manual 3 Jaw Chuck, Mounted – 2.99" Bore A1-8 Adaptor Plate (ML22)	N/A	N/A		N/A	
12" 300mm Manual 3 Jaw Chuck, Mounted – 4.08" Bore A1-8 Adaptor Plate (ML22 & ML26 x 40)	N/A	N/A			
12" 300mm Manual 3 Jaw Chuck, Mounted – 4.95" Bore A1-11 Adaptor Plate (ML26 – 4" Bore Only)	N/A	N/A	N/A		
6" 150mm 3 Jaw Hydraulic Chuck "Strong"			N/A	N/A	
8" 200mm 3 Jaw Hydraulic Chuck "Strong"			N/A	N/A	
10" 250mm Hydraulic 3 Jaw Chuck "Strong" (ML18 & ML22 Only)	N/A			N/A	
12" 300mm Hydraulic 3 Jaw Chuck (ML26 – 4" Bore Only)	N/A	N/A	N/A		
5C Air Operated Royal Collet Closer with Footswitch			N/A	N/A	
Rear Chuck Mount with A2-11 Spindle Nose (ML26 – 6" Bore Only)	N/A	N/A	N/A	2,800	
Hydraulic Tail Stock Option – <i>Purchased with Hydraulic Chuck Option</i>					
Hydraulic Tail Stock Option – <i>Purchased without Hydraulic Chuck Option</i>					
<b>TOOLING</b>					
Tooling Riser Block (No Tooling) – Specify Tooling Type or Height <i>Will require machining on site</i>					
Super Dorian Tool Post & Riser Block, ¾" 20mm <i>No tool holders included</i>				N/A	
Super Dorian Tool Post & Riser Block, 1" 25mm <i>No tool holders included</i>	N/A	N/A			
Dorian Quadra Post & Riser Block, ¾" 20mm <i>No tool holders included</i>				N/A	
Dorian Quadra Post & Riser Block, 1" 25mm <i>No tool holders included</i>	N/A	N/A			
Automatic Turret, 8 Station with Riser Block, ¾" 20mm ( <i>must specify metric</i> ) <i>Includes 1 Boring Bar Holder &amp; 1 Axial Holder (Can be mounted in front or rear – specify)</i>			N/A	N/A	
Automatic Turret, 8 Station with Riser Block, 1" 25mm ( <i>must specify metric</i> ) <i>Includes 1 Boring Bar Holder &amp; 1 Axial Holder (Can be mounted in front or rear – specify)</i>	N/A	N/A			
Automatic Turret, 12 Station with Riser Block, 1" 25mm ( <i>must specify metric</i> ) <i>Includes 1 Boring Bar Holder &amp; 1 Axial Holder (Can mount in front or rear – specify)</i>	N/A	N/A			
1.25" Boring Bar Holder For ¾" Turret			N/A	N/A	
1.5" Boring Bar Holder For 1" Turret	N/A	N/A			
¾" 20mm Axial Tool Holder For ¾" Turret			N/A	N/A	
1" 25 mm Axial Tool Holder For 1" Turret	N/A	N/A			
Optional Steady Rest – Special Size 5.9" - 11.8" 150mm - 300mm	N/A	N/A			
VDI Upgrade for Turrets <i>No tool holders</i>					
Metric 20mm Turret Face to Replace ¾"			N/A	N/A	
<b>LIVE TOOLING – Contact Distributor for Application</b>					
Spindle Orient <i>Required with Live Tooling</i>					
Baruffaldi TBMA Live Tooling, Servo Turret, 8 Station, S6, 10 minute Live Tooling Duty Cycle Rating (Rear Mounted) <i>Consult factory for tool limitations on the ML18</i> <b>No tooling supplied with Live Tool Turret, Fixed or Rotating</b>	VDI 40, 7.5 HP – Model 160				
Spindle Brake <i>Required with Live Tooling</i>					
Standard Axial Holder VDI 40					
Standard Radial Holder VDI 40					
<b>OTHER ACCESSORIES</b>					
Programmable Spray Mist – <i>Not Recommended with Automatic Turrets or Bed Lengths over 40"</i>					
Spare "M" Functions – Block of 4 <i>Maximum 2 blocks; price is for each block</i>					
Chip Conveyor	40"	N/A	N/A	N/A	N/A
	60"	N/A			N/A
	80"	N/A	N/A	N/A	
	120"	N/A	N/A	N/A	Std
	160"	N/A	N/A	N/A	Std
Chip Bucket for Chip Conveyor	N/A			400	
Optional Barfeeder with Spindle Orient <i>No Spindle Sleeves Included</i>					

Barfeeder Interface Only with Spindle Orient <i>Interface designed for Milltronics Barfeeder only. Consult the factory for other Barfeeder interface.</i>					
RS-232 Cable, 50' 15 Meters					
Additional Programming Manual					
Programming Manual in Electronic Format on CD					
Additional Machine Manual					
Power Requirements 208-240 VAC, 50 – 60 hz, 3Ø		Standard	Standard	Standard	Standard
Power Requirements 208-240 VAC, 50 – 60 hz, 1Ø <i>May reduce spindle power by up to 20%</i>	Without Conveyor or Turret				N/A
	With Conveyor or Turret				N/A
380-480 Transformer (Reduces Voltage to 208-240) <i>Factory recommended sizes. Consult local electrical codes for proper transformer sizing.</i>	20 KVA				
UL/CUL Compliance					
CE Code <i>Required for European Union Countries</i>					
International Packaging					
Two Year Parts Warranty <small><i>See Note</i></small>		Standard	Standard	Standard	Standard
Factory Start-up and Training On Site, U.S. only <i>(Does not include airfare)</i>					
Training at Milltronics <i>(Includes lunches, training, materials and manual)</i>					
<p><i>Terms within USA: Cash or terms with approved credit; down payment due with order. Terms outside USA: Cash or approved Letter of Credit F.O.B Waconia, MN USA. Prices do not include taxes, duties, transportation, rigging or start-up. Milltronics reserves the right to amend or change without notice without incurring obligation; not responsible for typographical errors. Consult Written Warranty Statement for Details of Two Year Parts Warranty All sales of equipment, parts, software and service are subject to Milltronics' Standard Terms and Conditions of Sale.</i></p> <p><i>Live Tooling Capability</i> <i>The Centurion 7T CNC supports live tooling without contouring. Therefore, the main spindle is programmed to a position and cannot be moving while live tooling is in operation. Contact Factory for additional specifications.</i></p>					

