

TL14/40 MANUAL / CNC LATHE PRICING

Effective September 1, 2008

TL14/40

Customer Price – TL14/40

\$26,980

Without Options or Packages

Spindle Type – Inverter for Programmable RPM

STANDARD ACCESSORIES

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| <ul style="list-style-type: none"> • Two Year Parts Warranty • Fully Ground Solid Ways • Precision Ground Ball Screws • Tail Stock • Heavy Duty Metal Enclosure with Sliding Doors • Chuck Guard and Door Interlock Safety Switches • High Torque Vector Spindle Drive • Fully Programmable Accessories including Spindle On/Off and Spindle RPM (IPM) • Spindle Load Meter • Work light • Turning, Facing, Grooving, Tapping, Boring Cycles, & User-definable Macros w/Trig Help | <ul style="list-style-type: none"> • Pattern Repeat, Chamfering, Radius Programming Assist with Hand wheel Teach Mode • Automatic Metered Lubrication with Low Lube Fault • PC-based Milltronics CNC includes 2 Mb Parts Storage Memory • 12" LCD Active Matrix Color Display • Conversational Plus G & M Code Programming with Tool Path Graphics • 6 Mb Virtual Disk/RS-232 with DNC Buffer • 1200 Block/Sec High Speed Processor • Auxiliary Keyboard Port for PC Keyboard • All Axes Laser Calibrated |
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ACCESSORY PACKAGE A

24 Mb Program Execution Memory including Large Program Management Software	\$1,400
1.44 Mb Floppy Drive	500
Additional 10 Mb Parts Storage Memory (12 Mb total)	500
Constant Surface and Feed/Rev. (IPR) with Threading Cycles	1,900
Threat Chasing Features	400
User Definable Macros with Trig help	1,300
List Total	\$6,000
Package Price	\$3,000

Items may be purchase separately

ACCESSORY PACKAGE B

Rigid Tap Cycle	\$900
LCD Hour Meter	300
Dual Electronic Handwheel for Teach, Manual or Automatic Operation	2,000
Flood Coolant Pump with Nozzle	1,500
Auto DXF File Import	700
Networking Option Including 30 Days Phone Support	900
Edit Key Lock-Out Switch	300
Offline FastCAM Software Programming & Training	400
List Total	\$7,000
Package Price	\$5,000

Items may be purchase separately

ACCESSORY PACKAGE C	
Multi Format Flash Memory Card Device	\$900
6" 150mm Chuck Mounted on TL1440	800
Upgrade to 18/12 HP 13/9 kw	3,900
Steady Rest, Brass Tips, ¼" – 5" 6mm – 125mm	700
Follow Rest, Brass Tips, ½" – 3" 12mm – 75mm	700
<i>Items may be purchased separately</i>	
	List Total \$7,000
	Package Price \$5,000
OTHER ACCESSORIES	
8" 200mm Chuck Mounted on TL1540	900
Super Dorian Tool Post & Riser Block, ¾" <i>No tool holders included</i>	800
Dorian Quadra Post & Riser Block, ¾" <i>No tool holders included</i>	1,000
Automatic Turret, 8 Station 5/8" with Riser Block, One Boring Bar Holder & One Axial Tool Holder Included	5,900
Additional Boring Bar Holders for Automatic Turret	230
Additional Axial Holders for Automatic Turret	250
5C Air Operated Royal Collet Closer with Footswitch	4,900
Tooling Riser Block <i>Specify tooling type or height; will require on-site machining</i>	400
Spare "M" Functions – Block of 4 <i>Maximum 2 blocks; price is for each block</i>	400
RS-232 Cable, 50' 15 Meters	100
Additional Programming Manual	100
Programming Manual in Electronic Format on CD	50
Additional Machine Manual	100
UL/CUL Compliance	1,200
International Packaging	1,000
Power Requirements 208-240 VAC, 50 – 60 hz, 3Ø	Standard
Optional Voltage 208-240 VAC, 50 – 60 hz, 1Ø (Without Turret)	1,600
Optional Voltage 208-240 VAC, 50 – 60 hz, 1Ø (With Turret)	2,600
<i>Single phase option may reduce spindle power by up to 20%</i>	
380-480 Transformer (Reduces Voltage to 208-240) – 20 kVA <i>Factory recommended sizes. Consult local electrical codes for proper transformer sizing.</i>	2,000
Two Year Parts Warranty ^{See Note}	Standard
Factory Start-up and Training On Site, U.S. only (<i>Does not include airfare</i>)	3,400
Training at Milltronics (<i>Includes lunches, training, materials and manual</i>)	400

*Terms in USA: Cash or terms with approved credit; down payment due with order. Terms outside USA: Cash or approved Letter of Credit
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

F.O.B Waconia, Minnesota USA. Prices do not include taxes, duties, transportation or rigging.

All sales of equipment, parts, software and service are subject to Milltronics Standard Terms and Conditions of Sale.

These machines not offered outside of North America

TL14/40 MANUAL / CNC LATHE SPECIFICATIONS

Effective September 1, 2008

TL14/40

Control Type	Milltronics 7200 T
Number of Axes	2
Spindle RPM	CNC Auto Programmable RPM
Functions	Dual Handwheel, Handwheel Teach, Conversational G / M Code, Manual or Automatic Operation of Spindle RPM and Coolant
CAPACITY	
Bed Length	40" 1000 mm
Swing Over Bed	14" (dia.) 355 mm
Swing Over Cross Slide	7.8" (dia.) 198 mm
Swing Over Gap	N/A
Cross Slide "T" Slots	None
Travel (X Axis) Cross Slide	7" 178 mm
Travel (Z Axis) Long Slide	30.5" 775 mm
Center Height	7" 177 mm
Center Distance	36" 915 mm
Bed Width	9.8" 248 mm
Machine Weight	4000 lbs 1800 kg
Ball Screw Size, Grade C5	X 20mm / Z 40mm
Ball Screw Pitch X axis / Z axis	5 mm / 10 mm
Maximum Weight of Part With Chuck <i>No Center</i>	50 lbs. 23 kg
Maximum Weight of Part With Chuck with Center	500 lbs. 230 kg
Maximum Weight of Part with Centers and Steady Rest	1000 lbs. 460 kg
SPINDLE	
Closed Loop Vector Spindle Drive	Standard
Standard Horsepower <i>1 Minute / 30 Minutes</i>	12/10 HP 9/7.5 kw
Reference Torque Chart:	12/10/1/B/Y
Optional Horsepower <i>1 Minute / 30 Minutes</i>	18/12 HP 13/9 kw
<i>Available in Package C</i>	Reference Torque Chart: 18/12/1/B/Y
Spindle Bore	1.65" 42 mm
Spindle Nose Type	Camlock D1-5
Spindle Taper	MT#4
Spindle Speed	100 – 3000
3 Jaw Chuck Size - Accessory	6" 150 mm
Tailstock Quill Travel	5.5" 140 mm
Tailstock Quill Diameter	1.875" 47 mm
Tailstock Quill Taper	MT#3
Tailstock Safety Switch	Standard
TOOLING ACCESSORIES	
Super Dorian Tool Post Option – (SD35CXA)	3/4" 20 mm
Dorian Quadra Post Option – (QITP 35)	3/4" 20 mm
8 Station Automatic Turret Option – (5/8")	5/8" x 3.5"
5/8" Turret Boring Bar Capacity	1"
8 Station Automatic Turret Option – (3/4") <i>Not available on TL14</i>	N/A
3/4" Turret Boring Bar Capacity	N/A
Steady Rest – Brass Tips Option (<i>Package C</i>)	¼ - 5" 6 - 127 mm
Follow Rest – Brass Tips Option (<i>Package C</i>)	½ - 3" 12 - 76 mm

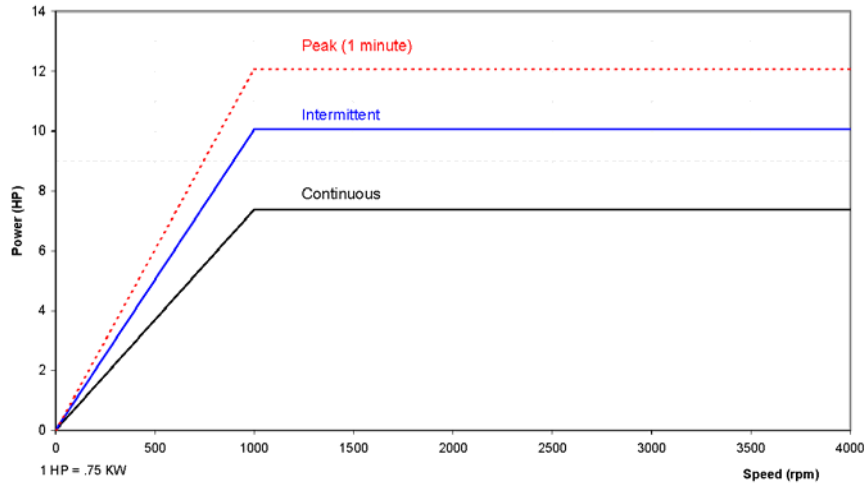
PERFORMANCE	
Rapid Traverse	300 ipm 7.6 mpm
Feedrate Range	.1-100 ipm 2.5 - 2540 mmpm
Position Accuracy ^{See note}	±.0004" .01 mm
Repeatability ^{See note}	.0004" .01 mm
Resolution	.0001" .003 mm
Thrust, Machine Duty Rating	X: 800 lbs. 360 kg Z: 1600 lbs. 725 kg
MILLTRONICS 7200 T CNC	
Control	Model 7200
LCD Color Display	Standard
Conversational & G/M Code with Full Graphics	Standard
Turning, Facing, Grooving, Tapping and Boring Cycles, and User-definable Macros with Trig Help	Standard
Constant Surface (RPM changes with radius) and Feed/Rev. (IPR) with Threading Cycles	Package A
Pattern Repeat, Chamfering, Radius Prog. Assist with Handwheel Teach Mode	Standard
Dual Handwheel Station for Selecting Teach, Manual or Automatic Operation	Package B
2 Mb Parts Storage Memory	Standard
Additional 10 MB Parts Storage Memory (Standard is 2 MB)	Package A
6 Mb Virtual Disk / DNC buffer	Standard
24 MB Program Execution Memory for Large Program Editing	Package A
Auto DXF File Importation	Package B
Networking	Package B
3 ½" Floppy Drive	Package A
MISCELLANEOUS	
Automatic Home Sequence, Chuck Guards, Safety Switch	Standard
5C Royal Collet Closer with Foot Switch	Optional
Full Enclosure with Sliding Doors and Safety Switch	Standard
Auto Metered Lubrication with Low Lube Fault	Standard
1/8 Horsepower Flood Pump Option	Package B
Flood Coolant Capacity	25 gal. 90 L
Way Surface	Hardened/Ground
Power Requirements 208-240 VAC, 50 – 60 hz, 3Ø	30 amps 11 kVA
Power 208-240 VAC, Single Phase	Optional
Power 380-480 VAC, 50 – 60 hz, 3Ø	Req Transformer
Warranty	Parts: 2 Years (or 4200 hours, whichever occurs first) on all normal failures. Service: 1 Year (or 2100 hours, whichever occurs first) from distributor
Floor Space Requirement	60" x 104" 1524 x 2640 mm 74" x 109" 1875 x 2760 mm
Notes: Measurements performed with Renishaw laser. Measurements are linear over entire travel, and temperature changes and loading may affect tolerances. Centurion features covered under separate literature. Additional Centurion 7 features and additional options covered under separate literature. Milltronics reserves the right to change specifications at any time without incurring obligation.	

For heavy duty lathes see Milltronics ML Series

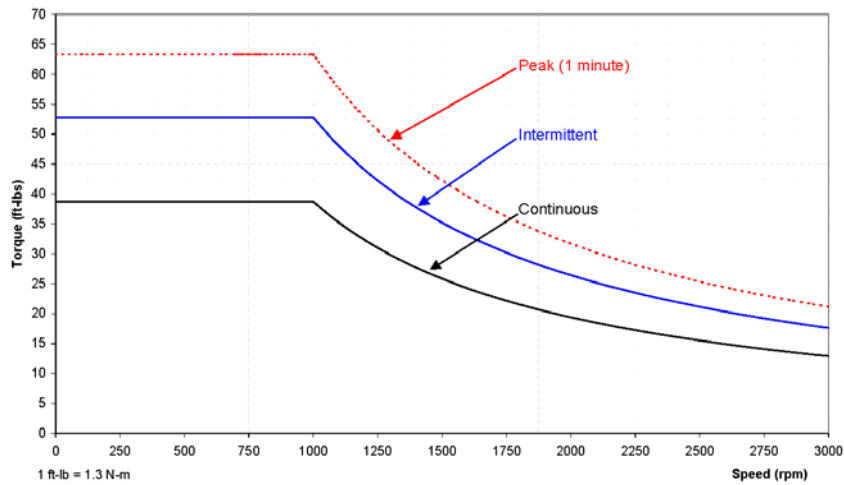
Yaskawa Torque Chart 12/10/1/B/Y – Belted Spindle

Used on: Standard TL1440
Optional N/A

Power Characteristics of TL14 With 12/10 HP Single Winding Motor



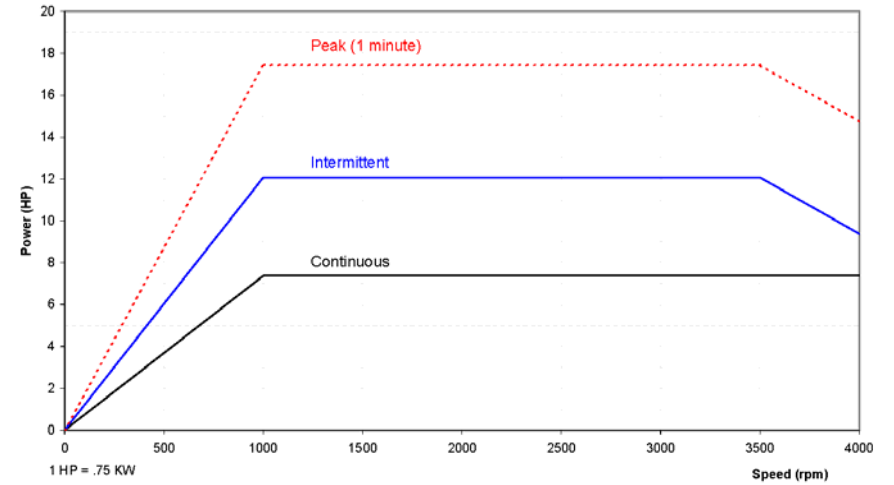
Torque Characteristics of TL14 With 12/10 HP Single Winding Motor



Yaskawa Torque Chart 18/12/1/B/Y – Belted Spindle

Used on: Standard N/A
Optional TL1440

Power Characteristics of TL14 With 18/12 HP Single Winding Motor



Torque Characteristics of TL14 With 18/12 HP Single Winding Motor

