

TECHNOLOGY

CREATIVITY

RELIABILITY

TURN YOUR WAY TO SUCCESS

P r e c i s i o n   E n g i n e   L a t h e



TRL-1340(V)

RML-1440(V)

RML-1640(V)

ML-1740

ML-2060



# Precision

Manufactured to exact tolerance:

Parallelism:

Headstock Alignment

0.0006"/12" (V)

0.0006"/12" (H)

Longitudinal Bedways

0.0006"/40"

Center Line of Spindle with Carriage Motion

0.0004"/12"

Center Line of Tailstock with Carriage Motion

0.0006"/12"

Squareness:

Center Line of Spindle with Cross Slide Motion

0.0006"/12"

Runout:

Spindle Nose

0.0002"

Spindle Flange

0.0004"

*"A reliable workhorse, it's the most productive machine in our shop."*

*"Holds tight tolerance, we are making better parts than ever."*

*"Cuts both inch and metric threads by adjusting only the levers, no more change gears."*



## ML-1740

A versatile all-purpose lathe with features to satisfy the most demanding jobs



## TRL-1340

Aerospace quality at a school budget price



## RML-1440V

Electronic Variable Speed drive with maximum 2500 rpm spindle

# Lathe Series

*"The quick-change inch/metric cover on the cross slide dial is really convenient and makes correct readings easy on my eyes."*



*"Friendly and knowledgeable tech-support always there when I need them."*

*"A terrific value - we have ten of them already and are buying three more for our other location."*

## OUTSTANDING FEATURES INCLUDE:

- ❑ Front pull-out chip tray for easy maintenance.
- ❑ Universal inch/metric gearbox allows for extra wide range of threading capability without the need of change gears.
- ❑ Dynamically balanced alloy steel spindle with three point support.
- ❑ Induction hardened & precision ground gears.
- ❑ Quick feed reversal knob allows instant feed reversal without stopping the main motor.
- ❑ Safety clutch disengages feed when overloaded.
- ❑ Jog button for effortless spindle speed changes.
- ❑ One-shot pump conveniently lubricates bed and cross slide ways.
- ❑ Safety full-length foot brake
- ❑ AC-frequency drive with infinitely variable speed control and digital RPM display. (V-models only)
- ❑ T-slots on cross slide for mounting optional attachments. (TRL and RML-series only)
- ❑ Large 3.125" spindle through bore and a 2-speed tail stock. (ML-series only)

Also available in other models...



### RML-1640

**Our best value general-purpose lathe for the tool room**



### ML-2060

**Large 3.125" spindle hole handles all types of work for the job shop**

(mm)

Specifications		TRL-1340(V)	RML-1440(V)	RML-1640(V)	ML-1740	ML-2060
CAPACITY	Swing Over Bedways	13.4" (340)	14.2" (360)	16.2" (411)	17" (432)	20" (508)
	Swing Over Cross Slide	8.25" (210)	8.42" (214)	10.39" (264)	11" (279)	14" (356)
	Sing Over Gap	20" (508)	21" (533)	23" (584)	24.5" (622)	27.5" (698)
	Gap Length (w/Face Plate)	4.5" (114)			8" (203)	
	Distance Between Centers	40" (1000)			44" (1118)	57" (1448)
HEADSTOCK	Spindle Through Hole	1.57" (40)	2.06" (52)		3.13" (80)	
	Spindle Nose Camlock	D 1-4			D 1-6	
	Spindle to Sleeve Taper	MT# 5	MT#6 to #4		MT#7 to #4	
	Spindle Speeds	50-2570 RPM	16 Steps. 40-2000 RPM (2-Speed Motor)		12 Steps. 36-1800 RPM	
	Spindle Speeds V-Models	Variable (2-Ranges) 100-500-3000 RPM	Variable (2-Ranges) 20-400-2500 RPM		N/A	
CARRIAGE	Bed Width	9" (230)	10.25" (260)		12" (305)	
	Cross Slide	16.5" x 6" (w/2 T-Slots)	19" x 16" (w/2 T-Slots)		24" x 7.25"	
	Cross Slide Travel	7" (180)	9.25" (235)		12" (305)	
	Compound Travel	4" (105)	5" (127)		5.75" (146)	
FEED BOX	Thread Capacity (Inch)	(45) 2 to 72 TPI				
	Thread Capacity (metric)	(39) 0.2 to 14 MM				
	Modular Thread Range	(18) 0.3 to 3.5				
	Diametrical Pitch Range	(21) 8 to 44				
	Longitudinal Feeds	0.002" to 0.067"	(17) 0.002 to 0.067 In/Rev		(15) 0.0015 to 0.04 In/Rev	
Cross Feeds	0.001" to 0.0375"	(17) 0.001 to 0.034 In/Rev		(15) 0.00075 to 0.02 In/Rev		
TAILSTOCK	Quill Diameter	2" (50)	2" (51)		2.3" (58)	
	Quill Taper	MT#3	MT#4			
	Quill Travel	4" (105)	6.5" (165)		5.5" (140)	
ELECTRIC	Spindle (main) Motor	3 HP	5 HP		7.5 HP	
	Coolant Pump Motor	0.125 HP				
	Control Circuit Voltage	24 V				
SIZE & WEIGHT	Shipping Dimensions	76" x 30" x 58"	87" x 42" x 66"		88" x 42" x 66"	108" x 42" x 66"
	Net Weight (approx)	2200 lbs	3200 lbs	3520 lbs	3850 lbs	4510 lbs
	Gross Weight (approx)	2440 lbs	3630 lbs	4000 lbs	4510 lbs	5400 lbs

Note: We reserve the right to modify the design, specifications, mechanisms, etc. to improve the performances of machine without notice.

## STANDARD ACCESSORIES

4-position tool post  
 thread chasing dial  
 coolant system  
 full length splash guard  
 back plate  
 chuck cover  
 work light  
 carriage stop  
 leveling pads  
 toolbox with standard tools

## Optional ACCESSORIES

3-jaw chuck  
 4-jaw chuck  
 steady rest  
 follow rest  
 face plate  
 micro carriage stop  
 quick change tool post  
 digital readout system  
 taper turning attachment  
 5c collet closer attachment

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