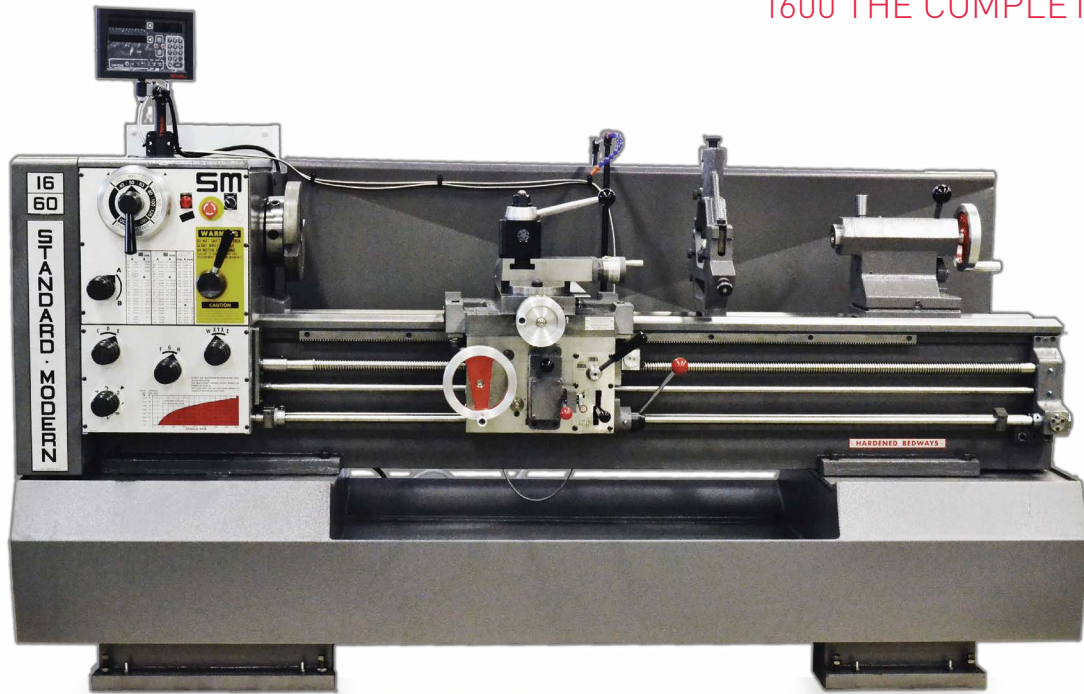




[www.standardmodernlathes.com](http://www.standardmodernlathes.com)  
Manufactured by Racer Machinery International Inc.

## 16" SWING INCH-METRIC 1600 THE COMPLETE LATHE



\*Model shown includes optional accessories

The model 1600 is one of a new, modern generation of standard engine and toolroom lathes, designed to produce space-age parts with space-age tools. The lathe is designed and built in North America and is ideally suited for toolroom maintenance, production

and all turning jobs in your shop. Standard Modern™ lathes have gained a wide reputation for quality and reliability. Now with more versatility they are the complete lathes.

### FEATURES

- » CAPACITY: 16" DIA. SWING—40", 60", 100" BETWEEN CENTRES
- » 10 H.P CONTINUOUS DUTY
- » 18 SPINDLE SPEEDS 40 TO 2000 RPM
- » D1-6" CAMLOCK—3 BEARING SPINDLE
- » INCH-METRIC FEED BOX—SWITCHABLE
- » SUPER STIFF BED—READY FOR FUTURE TOOLS
- » LEADSCREW REVERSE—STANDARD
- » METRIC THREADING WITHOUT SPINDLE REVERSE

### 2 YEAR LIMITED WARRANTY



## MACHINE

Swing over bed and saddle	17 in. (430 mm)
Swing over cross-slide	10 in. (250 mm)
Distance between centers	40, 60, 100 in.
Main drive motor	10 H.P (5.6 K.W)
Bar capacity	2.0 in. (50.8 mm)

## HEADSTOCK

Spindle speeds	18
Geometric speed range	40-2000 RPM
Spindle nose - camlock	D1-6"
Spindle hole	2.06" (52.4 mm)
Spindle center	#4 M.T

## FEEDBOX - COMBINATION

Feed & thread selections	66
Inch feed range	.0015- .105 in./rev.
Inch thread range	2 to 127 TPI
Metric feed range	.04 to 2.67 mm/rev.
Metric lead range (threads)	.2 to 14 mm

## APRON

Handwheel - one revolution	1.000 in. (25.4 mm)
Half nuts	Double
High speed threading to	800 RPM
Repeatability of auto carriage stop	+/- .005 in. (+/- .13 mm)
Feed torque control	Variable

## BED & BASE

Bed width	11 in. (280 mm)
Bed depth	15 in. (380 mm)
Bed length	76, 96 & 136 in. (1930, 2440 & 3455 mm)
Base width	31 in. (790 mm)
Base length	104 in. (2630 mm)

## CARRIAGE CROSS-SLIDE

Carriage length on bed	18.25 in. (465 mm)
Carriage bridge width	8.5 in. (215 mm)
Cross-slide length	20 in. (508 mm)
Cross-slide travel	8.5 in. (215 mm)
Compound travel	3.8 in. (96 mm)
Direct reading dial graduation	.001 in. (.02 mm)

## TAILSTOCK

Quill diameter	2.44 in. (62 mm)
Quill travel	5 in. (127 mm)
Morse taper with tang	#4 M.T
Offset	+/- .75 in. (+/- 19 mm)

## SHIPPING DATA

1640 - Gross weight (approx.)	2700 lbs. (1225 kg)
Crate size (approx.)	36"W x 108"L x 60"H
1660 - Gross weight (approx.)	3050 lbs. (1386 kg)
Crate size (approx.)	36"W x 108"L x 60"H



## SPECIFICATIONS

- » Electric brake - self actuating
- » All hardened gears - no clutches
- » Direct reading speed dial
- » Deep bed design
- » Full length rear splash guard
- » Hardened quill with tang drive
- » Convenient Hi-Lo neutral shifter
- » Complete range of inch and metric threads - switchable
- » No transposing gears
- » Feed reverse
- » Leadscrew reverse
- » Chip clean out - front and rear
- » Bi-direction auto carriage stop (feeds and threads)
- » Combination Inch-metric dials
- » Nitrided screw - anti-backlash nuts
- » Standard 115V electric controls (208, 230/460 or 575 volt supply 3 phase)



## OPTIONAL ACCESSORIES

- » Telescopic taper attachment - +/- 10 deg. x 12" (305 mm) stroke
- » Steady rest - 6" (150 mm) dia. plain or roller
- » Follower rest - 2.5" (63 mm) dia. plain or roller
- » Large toolmakers faceplate - 15" (380 mm) dia.
- » Digital readout (factory installed)
- » 3 & 4 jaw and collet chucks
- » Turret toolpost
- » Micrometer carriage stop - inch or metric
- » Live centers
- » Coolant systems
- » Please inquire about any other options