STANDARD-MODERN LATHES
Produced by Kestrel Machine Tools Inc.

16” SWING INCH-METRIC

MADE IN NORTH AMERICA

1600 THE COMPLETE LATHE

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. Ideally suited for toolroom, maintenance and production, the lathe is designed and built in North America, and has more important plus features for all turning jobs in your shop.

Standard-Modern lathes have gained a wide reputation for Quality and Reliability and now with more Versatility are THE COMPLETE LATHES.

- CAPACITY: 16” Dia. Swing – 40”, 60”, 100” between centers
- 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 WARRANTY

www.OzarkToolManuals.com
## Features and Specifications

### MACHINE
- Designed for the future
- The “complete” Inch-Metric lathe
- Computer designed – dynamically tested
- Electric brake – self actuating
- Swing over Bed and Saddle: 16 in. (400mm)
- Swing over Cross-Slide: 10 in. (250mm)
- Distance between Centers: 40, 60, 100 in. (1000, 1500, 2500mm)
- Main Drive Motor: 10 H.P. (5.6 K.W.)
- Bar Capacity: 2.0 in. (50.8mm)

### HEADSTOCK
- All hardened gears – no clutches
- D1-6” three bearing spindle
- Direct reading speed dial
- Convenient Hi-Lo Neutral shifter
- Spindle speeds: 18
- Geometric speed range: 40–2000 RPM
- Spindle nose – camlock: D1-6”
- Spindle hole: 2.06” (52.4mm)
- Spindle center: #4 M.T.

### FEEDBOX – COMBINATION
- Complete range of inch and metric threads – switchable
- Exclusive “dial in” feeds under power
- Fully totally enclosed
- No transposing gears
- 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 14mm

### APRON
- Double walled – left side handwheel
- Feed reverse
- Leadscrew reverse
- Bi-direction auto carriage stop (feeds and threads)
- Handwheel – one revolution: 1.000 in. (25.4mm)
- Half nuts: Double
- High speed threading to: 800 RPM
- Repeatability of auto carriage stop: ±.005 in. (±.13mm)
- Feed torque control: Variable

### CARRIAGE CROSS-SLIDE
- One shot tube to carriage and cross-slide
- Combination Inch-Metric dials
- Extended cross-slide for tracer mount
- Ball chasing stop
- Nitrided screw – anti-backlash nuts
- Carriage length on bed: 18.25 in. (465mm)
- Carriage bridge width: 8.5 in. (215mm)
- Cross-slide length: 20 in. (508mm)
- Cross-slide travel: 8.5 in. (215mm)
- Compound travel: 3.8 in. (96mm)
- Direct reading dial graduation: .001 in. (0.02mm)

### TAILSTOCK
- Heavy duty – quick double clamping
- Hardened quill with tang drive
- Auto center eject – non locking handwheel
- Quill diameter: 2.44 in. (62mm)
- Quill travel: 5 in. (127mm)
- Morse taper with tang: #4 M.T.
- Offset: ±.75 in. (±19mm)

### BED & BASE
- Grade ‘A’ meehanite
- Hardened ways – full length
- Deep bed design
- Chip clean out – front & rear
- Bed width: 11 in. (280mm)
- Bed depth: 15 in. (380mm)
- Bed length: 96 in. (2440mm)
- Base width: 31 in. (790mm)
- Base length: 104 in. (2630mm)

### STANDARD EQUIPMENT
- Full length rear splash guard
- 10 in. (254mm) dia. dogplate
- #2 standard toolpost
- 2 – #4 M.T. dead centers
- 1 – #4 M.T. spindle sleeve
- Wrenches, keys, spare pins
- Standard 115V electric controls (208, 230/460 or 575 volt supply)
- Operators handbook
- Inspection Report
- 2 year warranty on Standard-Modern parts
- Paint – Machine: Machine Tool Grey (E792) or Vista Green (E808)

### OPTIONAL ACCESSORIES
- Telescopic Taper Attachment – ±10 deg. × 12” (305mm) stroke
- Steady Rest – 6” (150mm) dia. plain or roller
- Follower Rest – 2.5” (63mm) dia. plain or roller
- Large toolmakers faceplate – 15” (380mm) dia.
- Coolant System
- 3 & 4 Jaw and Collet chucks
- Turret Toolpost
- Micrometer Carriage Stop – inch or metric

### SHIPPING DATA
- Cross weight: 3050 lbs. (1386 kg) approx.
- Crate: 36” W x 108” L x 60” H (9.9m x 2.8m x 1.5m)

*In our continuous quest for product improvement, we reserve the right to alter specifications.*

### PLANT:
7000 Davand Drive
Mississauga, Ontario
Canada L5T 1J5

### REPRESENTED BY:
Telephone: (905) 795-8268
Fax: (905) 795-8371