

DIGITAL VARIABLE SPEED

TOOLROOM LATHE

MODEL 1118H



F O R T H E B E S T L A T

An unreliable machine is a worthless one. You need one that can be counted on for precise work job after job.

That's why we engineered our 1118H toolroom lathe with remarkable accuracy—within 50 millionths TIR at speeds up to 4,000 RPM's. In fact, troublesome end-play is virtually eliminated with our unique combination of rock-solid bedway design and precision preloaded spindle bearings.

And since productivity is important too, we equipped the 1118H with a quick-acting tool post slide which speeds up the thread-cutting process. With the movement of just a single lever, the threading tool is cleared from the work without ever engaging the compound slide feed screw. Plus we added an adjustable thread-length control that makes thread cutting a simple operation any machinist can handle



H E S I N T H E I N D U S T R



The 1118H's tailstock is a one-piece casting, offering maximum rigidity and accuracy. It is equipped with a tailstock cap for easy tool ejection — a feature rarely found on machines this size. The spindle is graduated in both inch and millimeter increments.

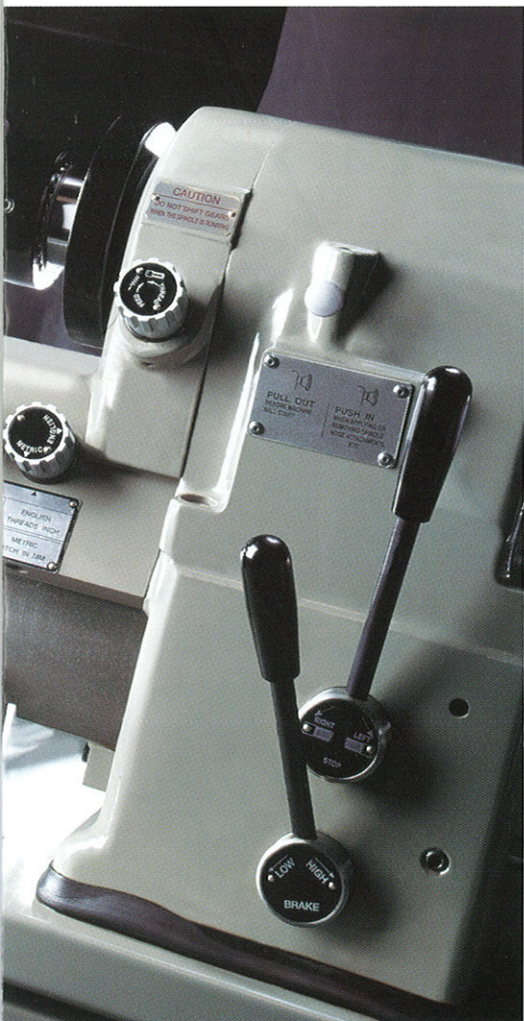


The universal gearbox allows both forward and reverse rotation. A single lever to change between types of rotation. Only the gears needed for the selected rotation are engaged only during operation.

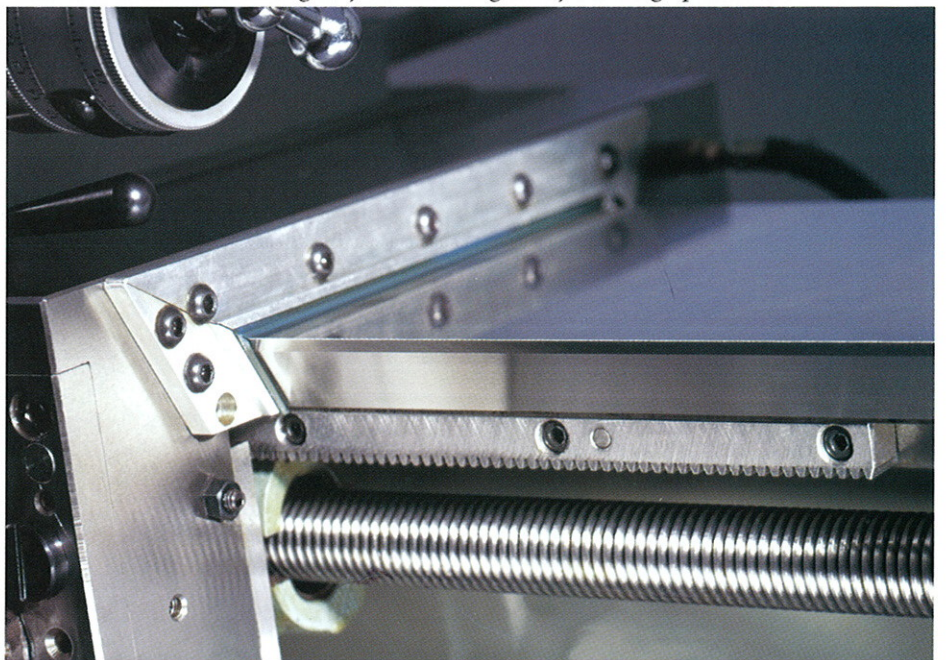
Y, TURN TO SHARP.



A high-quality Bodine DC motor ensures smooth, precise carriage and cross slide movement. Plus, a powerful user control system allows directional and precise feed-rate adjustment. And while it's often a misplaced afterthought on other machines, our one-shot lube system is conveniently located for ease of use.



The dovetail bedway is crafted from rugged alloy tool steel that's been heat treated and ground to resist distortion for long-lasting accuracy. Additionally, the bearing surface has been enlarged so the carriage covers the entire width of the bedway. This ensures maximum rigidity even during heavy turning operations.



inch and metric thread cutting, with only a few sizes. To reduce wear, the leadscrew and threading operations.



Advance DVS (Digital Variable Speed) system now standard!
U.S. Patent Pending

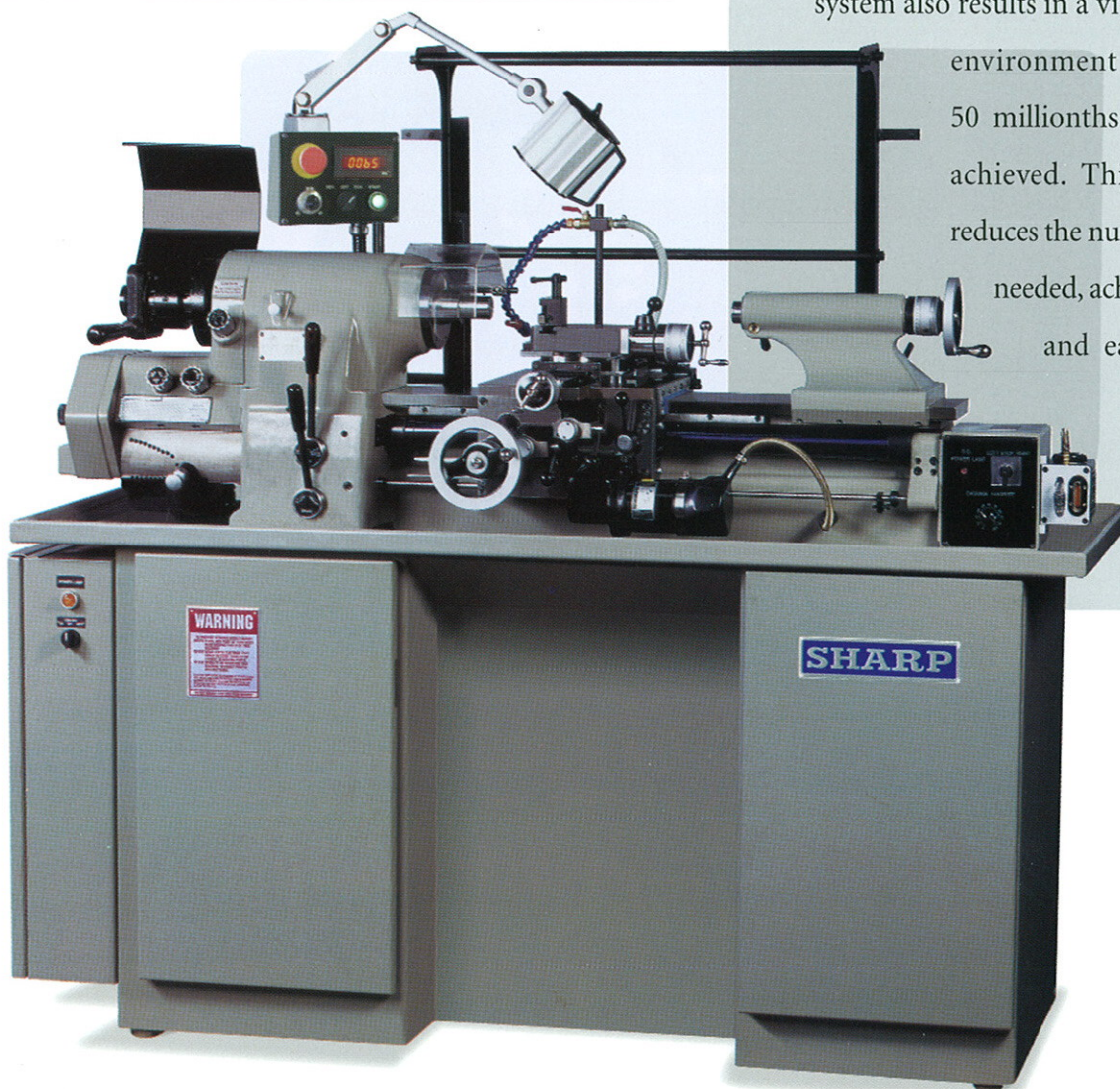
Advanced Features of the DVS System

- Low voltage control
- Dynamic brake (electric brake)
- Safety feature prevents auto-start
- Precise DIGITAL display
- Vibration-free design results in 50 millionth TIR!
- Runs on 3 phase and single phase

Inside the heart of the 1118H is a newly designed drive system that has revolutionized the manual toolroom lathe market. Sharp's Digital Variable Speed system, now standard on every 1118H toolroom lathe, takes accuracy, power, reliability, and overall machine quality to an entirely new level.

Not only has output been increased to an amazing 5HP, the advanced design of the drive system also results in a virtually vibration-free

environment where accuracy of 50 millionths T.I.R. can easily be achieved. This same design also reduces the number of moving parts needed, achieving high reliability and easy maintenance for many years to come



Model 1118H

FEATURES / SPECS

Features

- DIGITAL VARIABLE SPEED (D.V.S.) drive system
- high-speed spindle (infinitely variable 130-4,000 rpm), accuracy within 50 millionths TIR
- hi-lo ratio setting for spindle speed
- hardened and ground spindle
- independent electric feed-rate control on carriage and cross slide
- quick-change inch/metric gearbox with 36 changes
- spindle supported by double angular contact bearings
- quick-action compound slide for threading
- hardened and ground bedways, with turcite coating on carriage and bed for smooth movements
- adjustable thread-length control stops
- hardened and ground leadscrews

Standard Equipment

- coolant system
- splash guard
- 5C collet closer
- (2) 5C collet holder racks
- halogen light
- chuck guard
- drive plate
- spindle nose cover
- headstock center
- drive dog
- drive gear
- adjustable tool setting gauges
- tool kit

Model 1118H

Capacity

swing over bed 11"

swing over carriage 9"

swing over cross slide 6"

distance between centers 18"

Spindle

with round 5C collets $1\frac{1}{16}$ "

with hexagon 5C collets $\frac{7}{8}$ "

with square 5C collets $\frac{3}{4}$ "

with expanding chucks 3"

with step chucks $1\frac{1}{16}$ -6"

with jaw chucks 5"

spindle speed range [infinitely variable] 130-4,000 rpm

spindle nose taper (inside) 5C (10°)

spindle nose taper (outside) 4°

Travel & Feed Range

cross slide travel 6"

compound slide travel 3"

quick-action compound slide travel 0.1"

carriage power feed range $\frac{5}{16}$ -7"

cross slide power feed range $\frac{5}{16}$ -4"

Threading

leadscrew pitch, diameter 8 tpi, 1"

inch threads [36] 11-108

metric threads [36] 0.275-2.7

Tailstock

tailstock spindle diameter 1.358"

tailstock spindle taper MT #2

tailstock spindle travel 3.75"

General

electricity required 220V, 3 phase or single phase

..... 440V requires optional transformer

main motor 5 HP (infinitely variable speed)

coolant pump motor 0.25 hp

feed motor [DC] 75 watt, 110 volt

net weight (approximately) 2,300 lbs