



## ***The Ultimate Turning Machines***

### **V390**

15-3/4"x50" Variable-speed Center Lathes

**Maximum cutting  
performance and fine  
finishing capability**

**The Harrison V390 introduces the latest technology to meet the machining requirements of modern tooling. Heavy metal removal and fine precision finishing are accomplished on this superb machine smoothly, quietly and efficiently.**

Improved operator comfort and confidence is achieved by the excellent ergonomic control layout. The increased benefit of improved machine performance guarantees customer satisfaction in a complete range of production, maintenance and toolroom applications.



#### **The Power**

All Harrison V Machines Feature:

- Powerful spindle motor with AC inverter drive and 33:1 constant power range
- Infinitely variable spindle speeds with digital display
- Three gear ranges for maximum metal removal rates
- Standard constant surface speed (CSS) cutting with DRO
- Extra heavy duty tailstock

#### **The Features**

All Harrison V Machines Feature:

- Cast iron triangular webbed bed for optimum rigidity and swarf clearance
- Infinitely variable spindle speeds with digital display
- Camlock spindle nose for fast chuck changeover
- Leadscrew reversing box
- Standard constant surface speed (CSS) cutting with DRO
- Comprehensive range of imperial and metric screw thread cutting

#### **The Build**

All Harrison V Machines Feature:

- Hardened and Reishauer ground gears for smooth power transmission
- Built to toolroom accuracy
- Precision spindle running on Gamet ultra high precision taper roller bearings
- Induction hardened and ground spindle nose for precise chuck location
- Extra wide induction hardened and full form ground bedways
- Low friction slideway material for long bed life and silky smooth operation

- Centralized one shot lubrication of slides and Leadscrew

## The Safety

All Harrison Lathes meet and exceed all the latest

- International safety standards and CE regulations:
- Full length leadscrew cover
- Interlocked chuck guard, saddle mounted chuck guard and full rear splash guard for operator safety
- Torque limit protection of gearbox and leadscrew
- Interlock between thread and feed selection
- Rapid and controlled stopping of the spindle in the event of an emergency stop or mains disconnection

## Specifications

|                    |                     |                              |
|--------------------|---------------------|------------------------------|
|                    |                     | <b>V390</b>                  |
| <b>Centers</b>     | Height              | 195mm (7-5/8")               |
|                    | Admit Between       | 1250mm (50")                 |
| <b>Swing</b>       | Over Bed            | 400mm (15-3/4")              |
|                    | Over Cross Slide    | 246mm (9-5/8")               |
|                    | In Gap Diameter     | 585mm (23")                  |
|                    | Length              | 165mm (6-1/2")               |
| <b>Spindle</b>     | Bore                | 54mm (2-1/8")                |
|                    | Nose                | D1-6 Camlock                 |
|                    | Morse Taper in Nose | 4 MT                         |
| <b>Speeds</b>      | Number              | 3 infinitely variable        |
|                    | Range               | 14 to 2500rpm                |
| <b>Motor</b>       |                     | 7.5kW                        |
| <b>Leadscrew</b>   | Diameter            | 32mm (1-1/4")                |
|                    | Thread              | 6mm pitch or 4 TPI           |
| <b>Threads</b>     | Metric Pitches      | 51 from 0.2 to 14mm          |
|                    | Imperial Pitches    | 56 from 2 to 56 TPI          |
|                    | Module Pitches      | 20 from 0.2 to 3.5 MOD       |
|                    | Diametral Pitches   | 20 from 8 to 56 DP           |
| <b>Feeds</b>       | Metric              | 42 from .036 to .4mm/rev     |
|                    | Imperial            | 42 from .0014 to .096in/rev  |
| <b>Cross Slide</b> | Width               | 180mm (7")                   |
|                    | Travel              | 250mm (9-7/8")               |
| <b>Top Slide</b>   | Width               | 100mm (4")                   |
|                    | Travel              | 130mm (5-1/8")               |
| <b>Tailstock</b>   | Quill Diameter      | 63mm (2-1/4")                |
|                    | Travel              | 145mm (5-11/16")             |
|                    | Morse Taper         | 5 MT                         |
| <b>Weight</b>      |                     | 1400kg (3080lbs)             |
| <b>Dimensions</b>  | L x W x H           | 2.72x1.35x1.65m (107x53x65") |