



## The Ultimate Turning Machines

### V460

18x60" Variable-speed Center Lathes

**A striking combination  
of power  
and capacity**

The V460's feature packed design offers the advantage of infinitely variable spindle speeds whilst maintaining equal capabilities for high rates of metal removal or fine precision finishing.



2 Axis DRO with CSS optional

On production, maintenance work or in the toolroom the V460 represents an outstanding investment with operators immediately responding to its easy positive and comfortable controls.

#### 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>V460</b>		
<b>Centers</b>	Height	230mm (9")
	Admit Between	1500mm (60")
<b>Swing</b>	Over Bed	460mm (18")
	Over Cross Slide	270mm (10-5/8")
	In Gap Diameter	730mm (28-3/4")
<b>Spindle</b>	Length	216mm (8-1/2")
	Bore	76mm (3")
	Nose	D1-8 Camlock
	Morse Taper in Nose	5 MT
<b>Speeds</b>	Number	3 infinitely variable
	Range	20 to 2000rpm
<b>Motor</b>		11kW
<b>Leadscrew</b>	Diameter	38mm (1-1/2")
	Thread	6mm pitch or 4 TPI
<b>Threads</b>	Metric Pitches	78 from 0.2 to 14mm
	Imperial Pitches	79 from 2 to 84 TPI
	Module Pitches	47 from 0.2 to 3.5 MOD
	Diametral Pitches	47 from 8 to 72 DP
<b>Feeds</b>	Metric	38 from .04 to .84mm/rev
	Imperial	38 from .0016 to .110in/rev
<b>Cross Slide</b>	Width	203mm (8")
	Travel	300mm (11-7/8")
<b>Top Slide</b>	Width	133mm (5-1/4")
	Travel	150mm (6")
<b>Tailstock</b>	Quill Diameter	95mm (3-1/4")
	Travel	145mm (5-11/16")
	Morse Taper	6 MT
<b>Weight</b>		2615kg (5753lbs)
<b>Dimensions</b>	L x W x H	3.25x1.70x2.05m (128x67x81")