



## The Ultimate Turning Machines

### V460

18x60" Variable-speed Center Lathes

**A striking combination  
of power  
and capacity**



2 Axis DRO with CSS optional

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.

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")

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