



## **The Ultimate Turning Machines**

### **V350**

13-3/4"x25-1/4" Variable-speed Lathes

**Compact, powerful  
high speed lathe with  
precision capability**

**The V350's cast iron base provides maximum support for the torsionally stiffened bed and prevents swarf accumulation. The bed is epoxy resin bonded to the base and provides excellent structural damping and resistance to vibration.**

The universal gearbox adds to the machines overall ability to handle the small to mid-range turning requirements of many toolrooms, production workshops and educational establishments.



#### **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>V350</b>
<b>Centers</b>	Height	170mm (6-11/16")
	Admit Between	650mm (25-1/4")
<b>Swing</b>	Over Bed	350mm (13-3/4")
	Over Cross Slide	196mm (7-3/4")
	In Gap Diameter	535mm (21")
<b>Spindle</b>	Length	165mm (6-1/2")
	Bore	42mm (1-5/8")
	Nose	D1-4 Camlock
	Morse Taper in Nose	4 MT
<b>Speeds</b>	Number	3 infinitely variable
	Range	17 to 3250rpm
<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	100mm (4")
<b>Tailstock</b>	Quill Diameter	63mm (2-1/4")
	Travel	145mm (5-11/16")
	Morse Taper	4 MT
<b>Weight</b>		1350kg (2970lbs)
<b>Dimensions</b>	L x W x H	2.03x1.35x1.65m (80x53x65")

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