



The Ultimate Turning Machines

V550

21-7/8"x80/120" Variable-speed Center Lathes

**Large capacity,
powerful, heavy duty
center lathe**



2 Axis DRO with CSS optional

The all new V550 features a number of outstanding characteristics, making it a natural heavyweight champion in any workshop environment.

High spindle stiffness is achieved with double race front roller bearings and single race rear roller bearings, set to a fixed pre-load and retained under tension. Stability and accuracy are maintained at all speeds, loads and temperatures. Available in 2 and 3 meter lengths with rapid traverse as standard.

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

		V550
Centers	Height	280mm (11")
	Admit Between	2000/3000mm (80/120")
Swing	Over Bed	554mm (21-7/8")
	Over Cross Slide	370mm (14-1/2")
	In Gap Diameter	830mm (32-3/4")
	Length	216mm (8-1/2")
Spindle	Bore	90mm (4.1")
	Nose	D1-11 Camlock
	Morse Taper in Nose	5 MT
Speeds	Number	3 infinitely variable
	Range	18 to 1800rpm
Motor		11kW
Leadscrew	Diameter	38mm (1-1/2")
	Thread	6mm pitch or 4 TPI
Threads	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
Feeds	Metric	38 from .04 to .84mm/rev
	Imperial	38 from .0016 to .110in/rev
Cross Slide	Width	203mm (8")
	Travel	300mm (11-7/8")
Top Slide	Width	133mm (5-1/4")
	Travel	175mm (6-7/8")
Tailstock	Quill Diameter	95mm (3-1/4")
	Travel	178mm (7")
	Morse Taper	6 MT
Weight		2850/3610kg (6270/7942lbs)
Dimensions	L x W x H	3.75x1.70x2.10m (147x67x81")
		4.75x1.70x2.10m (187x67x81")