



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

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