MACH
MACHINE TOOLS

TOOLROOM HEROES

MACH VS-1 SP and VS-2 SP

Our popular and proven MACH VS-1 turret-type milling machine has been re-engineered.

The result is the creation of two new, next-generation 'super precision' models - the MACH VS-1 SP and the MACH VS-2 SP.

Both machines represent outstanding value and deliver the high accuracy, speed and reliability one expects from a MACH machine tool.

With their familiar gloss black livery and polished aluminium heads, the new machines are built to exacting quality standards and feature:

- Hand scraped hardened and ground dovetail slideways on VS-1 SP, with dovetail X and box Y/Z slides on VS-2 SP
- Turcite B on the machines' ways, slideways and gibs
- Hardened and ground table tops and T-slots, with nickel-coated lead screws
- State-of-the-art, EVS Yaskawa-spindle inverter and motor that provides absolute control over the infinitely variable spindle speeds: VS-1 SP up to 5,000rpm (3HP), VS-2 SP up to 4,200rpm (5HP).

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As is the case with all MACH machines, the new models come with an impressive range technology features - all supplied as standard: These include:

- **2-Axis Newall DRO;**
- **Low voltage LED lighting;**
- **Power feed to the X-Axis;**
- **Coolant equipment;**
- **Stand on style composite base splash tray;**
- **Rise and fall power positioning for knee on VS-2 SP model.**

MACHINE SPECIFICATIONS

	MACH VS-1 SP	MACH VS-2 SP
TABLE TRAVEL (X-AXIS):	850 mm (33.5 in) with power feed	1000 mm (39.4 in) with power feed
SADDLE TRAVEL (Y-AXIS):	305 mm (12.0 in)	397 mm (15.6 in)
VERTICAL KNEE TRAVEL:	406 mm (16.0 in)	403 mm (15.9 in)
QUILL TRAVEL:	127 mm (5.0 in)	150 mm (5.9 in)
RAM TRAVEL:	356 mm (14.0 in)	500 mm (19.7 in)
SPINDLE POWER:	3 HP (2.2 kW)	5 HP (3.7 kW)
SPINDLE TAPER:	R8	ISO40/NT40
SPINDLE NOSE TO TABLE:	440 mm (17.3 in)	85-470 mm (3.3-18.5 in)
SPINDLE TO COLUMN:	154-544 mm (6.1-21.4 in)	159-719 mm (6.3-28.3 in)
WORKTABLE (STANDARD):	1245 x 229 mm (49.0 x 9.0 in)	1500 x 305 mm (59.1 x 12.0 in)
T-SLOT SIZE:	16 mm (0.63 in)	16 mm x 3 x 71 mm (0.63 in x 3 x 2.80 in)
OVERARM SWIVEL ON COLUMN:	360 degrees	360 degrees
HEAD SWIVEL LEFT TO RIGHT:	+/- 45 degrees	+/- 90 degrees
HEAD TILT UP/DOWN:	+/- 45 degrees	+/- 45 degrees
WEIGHT OF WORKPIECE (MAX.):	340 kg (750 lb)	450 kg (992 lb)
BORING RANGE:	152 mm (6.0 in) Mild Steel	200 mm (7.9 in) Mild Steel
SPINDLE DIAMETER:	48 mm (1.89 in)	85.725 mm (3.375 in)
SPEED, HIGH (INFINITELY VARIABLE):	420-5000 rpm	420-4200 rpm
SPEED, LOW (INFINITELY VARIABLE):	50-420 rpm	70-420 rpm
FLOOR SPACE:	1620 x 1350 mm (64 x 53 in)	1680 x 2430 mm (66 x 96 in)
MACHINE HEIGHT:	2140 mm (84 in)	2350 mm (93 in)
MACHINE WEIGHT:	950 kg (2094 lb)	1800 kg (3968 lb)

VS-1 SP & VS-2 SP: BEST-IN-CLASS ACCURACY - YOU COMPARE THE DIFFERENCE

The accuracy you get from the new MACH VS-1 SP and MACH VS-2 SP machines is second to none. Check out the performance from these new models compared with what manufacturers expect to get from competitors' turret-type milling machines.

Prepare to be amazed.

- Spindle taper Run Out: 0.003mm (Std machines: 0.005mm)
  0.00012 in (Std machines: 0.0002 in)
- Y-Axis Travel parallelism 300mm: 0.015mm (Std machines: 0.03mm)
  over 11.8 in: 0.0006 in (Std machines: 0.0012 in)
- X-Axis Parallelism over 500mm: 0.02mm (Std machines: 0.03mm)
  over 19.7 in: 0.0008 in (Std machines: 0.0012 in)
- Z-Axis (Knee) travel to table top: 0.01mm (Std machines: 0.02mm)
  0.0004 in (Std machines: 0.0008 in)
- Spindle sweep to table top over 300mm: 0.015mm (Std machines: 0.02mm)
  over 11.8 in: 0.0006 in (Std machines: 0.0008 in)
- Parallelism of ram movement to table top: 0.015mm (Std machines: 0.02mm)
  0.0006 in (Std machines: 0.0008 in)

MACH MACHINE TOOLS

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