



Venture

Knee Type Milling Machine

Venture knee type milling machines are quality constructed to give extraordinary milling efficiency, quality, maximum rigidity, smooth operation and long term accuracy.

SERIES
LW-2VH
LW-2T
LW-2HT
LW-2VHT



The Most Comprehensive Choice of Knee Type Milling Machine



LW-2VH

VERTICAL & HORIZONTAL MILLING MACHINE

- Powerful vertical and horizontal head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- Spindle taper NST#40



LW-2T

VERTICAL TURRET MILLING MACHINE

- Vertical turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40



LW-2VHT

HORIZONTAL VERTICAL TURRET MILLING MACHINE

- Powerful vertical, horizontal and turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- Turret type head with 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

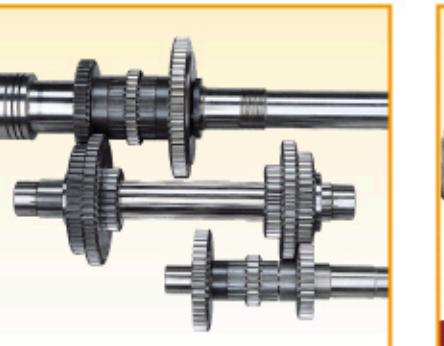


LW-2HT

HORIZONTAL VERTICAL TURRET MILLING MACHINE

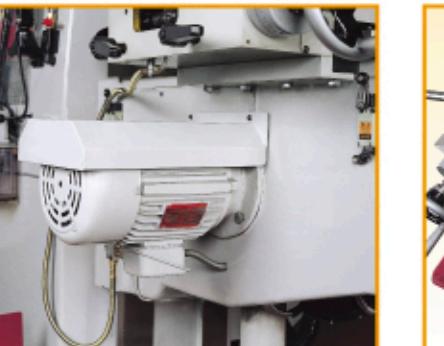
- Horizontal and turret head configuration
- Table area 1300 x 300mm
- X-axis travel 1000mm
- Y-axis travel 360mm
- Z-axis travel 450mm
- 16 step speeds, 75-3600 RPM (standard), Variable speed 80-3800 RPM (optional)
- Spindle taper NST#40

Quality Features Assure Great Milling Performance



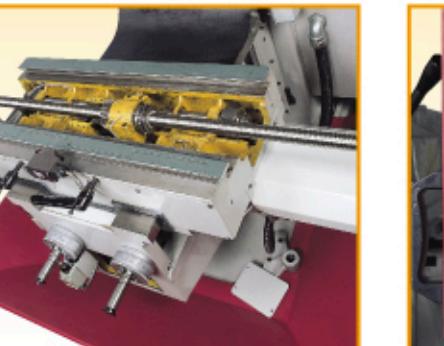
HORIZONTAL SPINDLE & TRANSMISSION MECHANISM

The NST#40 spindle is precision machined from SCM-21 alloy steel, tempered and carbon treated to minimize strain. The spindle runs on precision bearings for long term high speed running, heavy duty cutting and maximum stability.



POWER ELEVATION OF KNEE

The knee elevation is driven by an individual motor for convenient operation. The knee also has rapid traverse function.



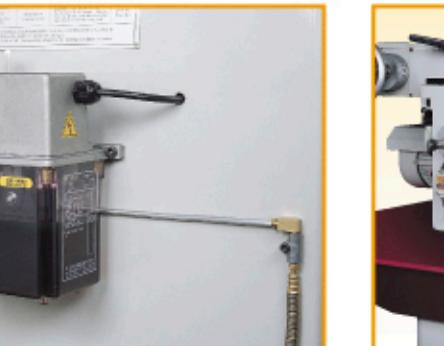
PRECISION BALL SCREWS ON X AND Y AXES

The X and Y axes are transmitted by precision ball screws, combined with preloaded double nuts for extremely smooth and high precision working, with minimum backlash.



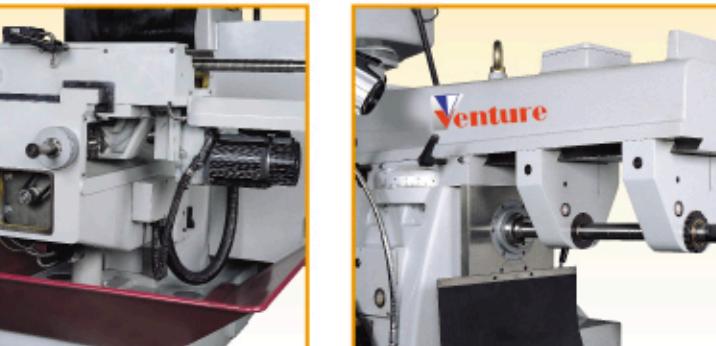
INTEGRATED CONTROL PANEL

All control buttons are integrated on a control panel which is located at the front for easy access. It eliminates the troublesome speed change through gear box.



INTEGRATED AUTOMATIC LUBRICATOR

The powerful automatic lubricator delivers oil to all slideways to ensure smooth travel at all times.



SERVO MOTOR DRIVE FOR TWO AXES

- Gear drive milling head.
- The gears are hardened and precision ground.
- 9 spindle speeds.
- 5 HP spindle motor.
- Milling head tilts 90° right and left.
- Spindle taper NST#40.



HORIZONTAL HEAD

- Belt drive milling head.
- 16-step speeds 75-3600 rpm (standard), Variable speeds 80-3800 rpm (optional).
- 9 spindle speeds.
- 5 HP spindle motor.
- Milling head tilts 90° right and left.
- Spindle taper NST#40.



TURRET TYPE HEAD

- The gears are hardened and precision ground on the gear drive milling head.
- 9 spindle speeds.
- 5 HP spindle motor.
- Milling head tilts 90° right and left.
- Spindle taper NST#40.

FEATURES:

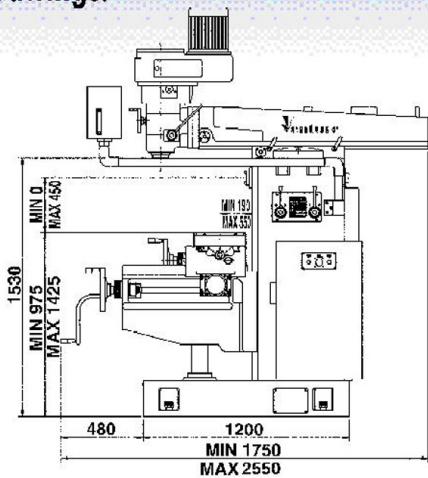
- The machine column is manufactured from high quality cast iron FC-30, tempered for long term accuracy.
- FC-30 cast iron table is tempered, hardened and precision ground.
- The spindle is precision machined from SCM-21 alloy steel, tempered and carbon treated, ensuring maximum stability for heavy duty cutting.
- X and Y axes are driven by an AC servo motor for smooth traverse.
- X and Y axis slideways are precision ground, and coated with Turcite-B wear resistant media.
- The knee is power elevated and has rapid traverse function.
- X and Y axes employ precision ball screws.
- The drive gears in the powerful vertical head are hardened and precision ground for maximum wear resistance and low noise running.
- Equipped with an automatic lubricator for lubrication to 3-axis slideways, feed screws, gears and bearings, ensuring high working efficiency and long service life of parts.
- The coolant tray effectively prevents cutting fluid leakage.
- Employs high pressure coolant pump for efficient chip removing.
- Halogen work light.

Dimensional Drawings:

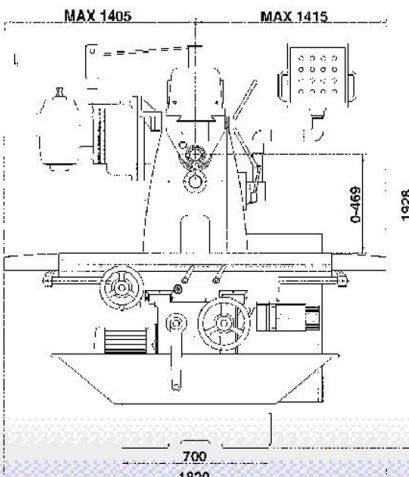
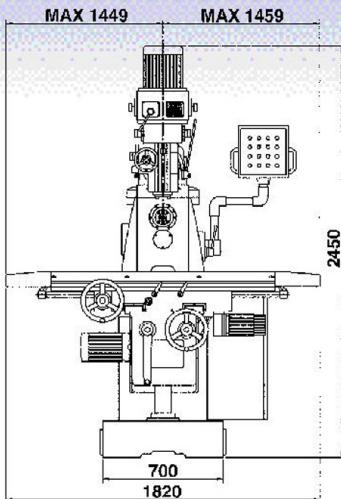
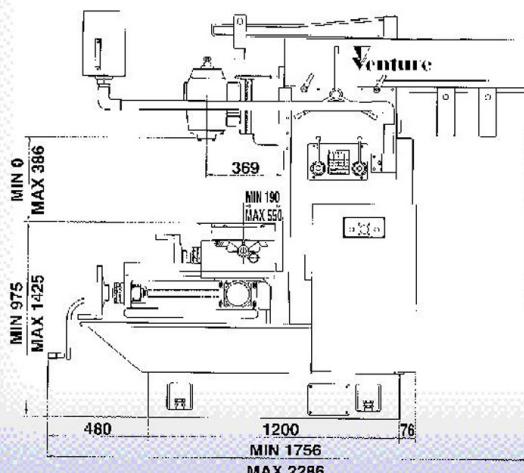
LW-2T

LW-2HT

LW-2VHT



LW-2VH



UNIT:mm

**Vertical Turret Head,
Horizontal Head, Powerful
Vertical Head...**

**Choice of various head configurations
to meet your specific machining
requirements.**

Standard accessories

Automatic lubricator	1set
Ball screw (X, Y)	1set
Complete cooling system	1set
Tool kits	1set
Tool box	1pc
Milling arbor with spacer	1set
Draw bar	1pc
Splash guard	1set
Chip guard	1pc
Halogen work light	1pc

Optional accessories

Dividing head	1set
Rotary table	1set
Swivel milling vise	1set
Face milling cutter	1pc
Face cutter arbor	1pc
End mill collets	1set

SPECIFICATIONS:

Unit: mm

Table	
Table size	1300 x 300
X-axis travel	1000
Y-axis travel	360 (390)
Z-axis travel	450 (490)
T-slot (Size x numbers x distance)	16 x 3 x 63
X, Y axes feedrate (variable) mm/min	2500
X, Y axes rapid travel mm/min	2500
Z-axis rapid travel mm/min	750
Vertical Spindle	
Turret Head	
Spindle speeds RPM	16 steps, 75-3600 (standard) *variable, 80-3800 (optional)
Quill travel	140
Quill feedrate (3 steps) mm/rev	0.035, 0.07, 0.14
Spindle nose	N.S.T 40#
Swivelling angle of spindle head (R & L)	90°
Swivelling angle of overarm	360°
Overarm travel	660
Spindle nose to table surface	110-560
Spindle center to column	110-700
Powerful Vertical Head	
Spindle speeds RPM	9 steps, 85-1300
Spindle nose	N.S.T 40#
Spindle nose to table surface	0-386
Spindle center to column	369
Horizontal Spindle	
Horizontal Head	
Spindle speeds RPM	steps, 85-1300
Spindle nose (N.S.T.)	N.S.T 40#
Dial of milling arbor	25.4
Spindle center to table surface	0-450
Spindle center to overarm bottom	369
Motor	
Powerful vertical head spindle	5HP x 4P AC motor
Turret head spindle	5HP Pole change motor
Horizontal spindle	5HP x 4P AC motor
Table longitudinal & cross feedrate	750W servo motor
Vertical feedrate	1HP x 6P AC motor
Coolant pump	1/8 HP

• Venture Machine Tools, Inc. and its association reserve the right to alter any mechanical specification without prior notice in the interest of product development.

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