

# HH Roberts

## High Speed Machining Centers

powered by

**ANILAM**



**HEIDENHAIN**

**FANUC**

TWL

Linear Way Series



16", 18" and 24" X axis travels  
Contouring feed rates to 400 IPM  
Rapid traverse rate 1,400 IPM

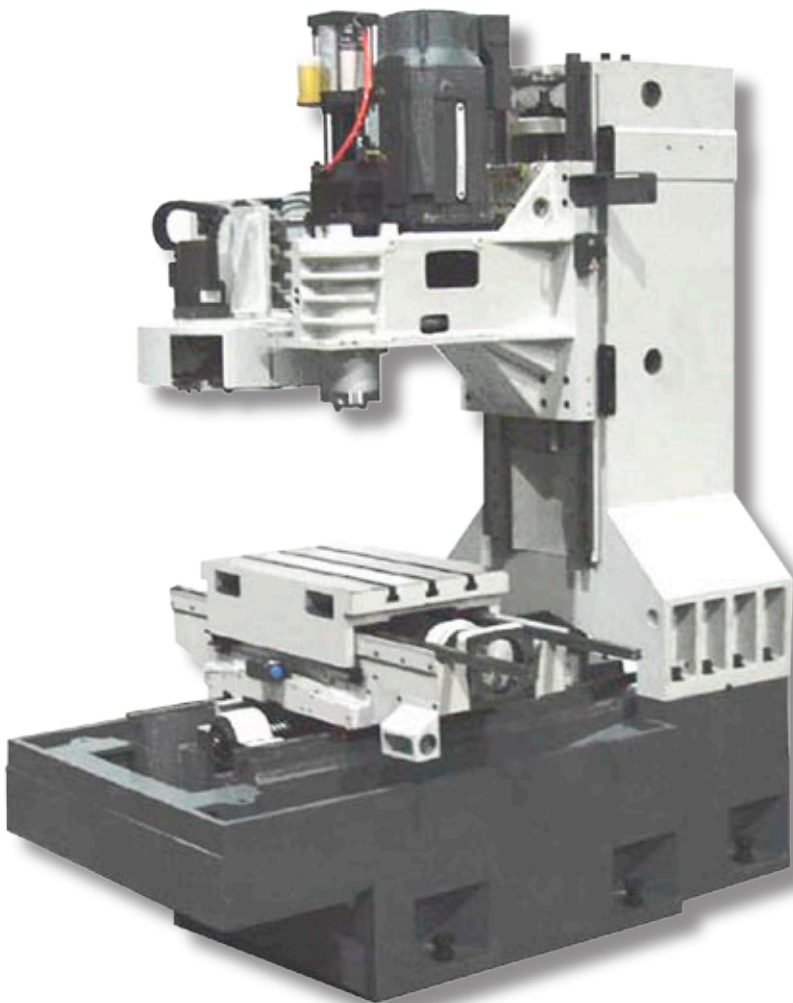
These machines are available without toolchangers which may be attractive to mold shops, with arm type tool changers for shops where shorter tool change time is important, or with a traditional carousel type tool changer.

The spindle motor has a full 7 1/2 Hp CONTINUOUS rating and 10 Hp for 15 minutes.

The CNC, axis drives and motors, spindle drive and motor are all custom built for Anilam from standard Heidenhain components. Higher accuracy at feed rates up to 400 IPM can be expected with good programs.



These pictures show the TW-18-L frame without guarding. The only sheet metal in the photos is the guard around the tool carousel. All the major parts you see are cast.



# TL-16L, TW-18L, TW-24L

X axis travel	16" - 400mm	18" - 460 mm	24" - 610mm
Y axis travel	14" - 350mm	16" - 400mm	18" - 460mm
Z axis travel	16" - 400mm	16" - 400mm	18" - 460mm
Table size		22" x 16" 560x400mm	28" x 16" - 710x560mm
Spindle nose to table	4" - 24"		
Spindle C/L to column	20"		
Spindle motor	7 1/2 Hp continuous, 10 Hp 15 min.		
Spindle speed, standard	8,000 rpm		
Spindle speeds, optional	6,000 10,000 12,000 or 15,000 rpm		
Tooling	standard Cat-V optional BT-40		
Automatic tool changer	standard carousel type 12 tools optional carousel types with 16 or 20 tools. optional arm type 24 tools		
Rapid traverse rate	1,400 IPM		
Cutting feed rates	nominally 400 IPM contouring, possibly faster depending on part and programming efficiency.		
Maximum table load	300 Kg - 660 lbs.		
X and Y axis motors	1.8 Kw 5.9 Nm		
Z axis motor	2.7 Kw. 8.5 Nm		
Power supply	208-230, 460 or 600 / 3 / 60		
Floor space	126" x 110" x 106" - 1800x800x2700mm		
Approximate weight	6,350 lbs.	6,600 lbs	6,930 lbs
CNC Control	Anilam 6300		
	optional Heidenhain, Fanuc, Mitsubishi Meldas or Fagor		

## Standard Equipment and Features

- Anilam 6300 multiprocessor CNC,
  - 6 GB hard disk
  - floppy disk
  - 16 MB RAM expandable to 64 MB
  - Ethernet port,, RS-232 port and parallel port
- program controlled spindle speeds
- 8,000 rpm spindle
- program controlled coolant system with override

- panel mounded electronic handwheel ( MPG )
- high intensity worklight
- automatic central lube system with low oil alarm
- high precision, high speed, linear ways
- high precision ballscrew thrust bearings on all ballscrews
- class 4 precision ballscrews

## Options

- upgrade to 6400 CNC for 4th axis capability
- additional ram up to 64 MB
- chip auger and cart
- chip washdown system
- coolant through the tool or spindle
- offline software for a PC with DXF file processing
- 1 micron linear feedback systems
- spray mist systems
- optional stop, and block delete

- additional M functions for controlling external devices like spraymist, vises, fixtures
- arm type tool changer
- available without tool changer
- hand held MPG instead of panel mounted.
- Pallet changers
- low coolant level alarm
- flashing beacons on alarm or tool change
- solid state phase converters for operation on 220/1/60.





Vertical machining centers, open and enclosed 31" x 20" to 60" x 32"



Bridge type electrode and engraving mills with 25,000 rpm spindles.



Bed mills with gearless quill heads to 7 1/2 Hp and handwheels.



Vertical bed mills with machining center heads to 31" x 20" to 60" x 32"



**New !**

**Unique horizontal / vertical machining center**



2 and 3 axis knee mills with tilting heads or rigid heads up to 7 1/2 Hp and 40" x 20"



CNC lathes from 15" x 30" to 20" x 80"



Precision gang tooling lathes



Precision dovetail bed lathes

*Our products are continuously developing and specifications change frequently. It is suggested that you reconfirm any critical specifications at the time of order.*

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