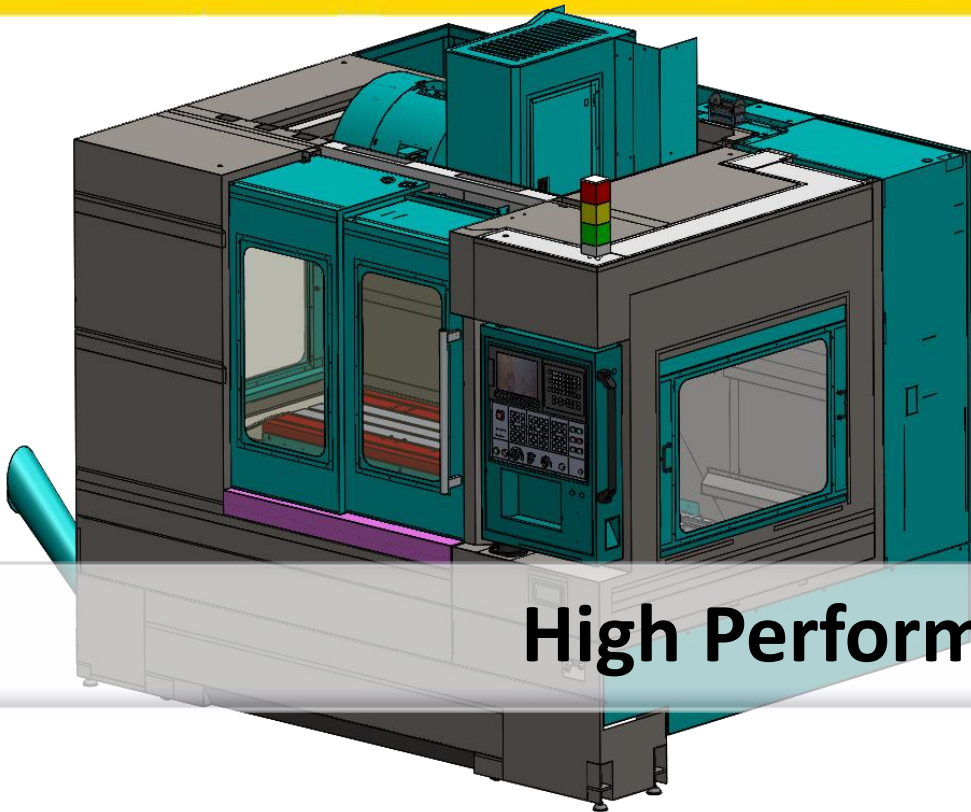


LEADWELL



40-iL

High Performance Machining Center



High Performance Machining Center

- 1. High Rigidity**
 - FEA Analysis.
 - High rigidity structure design.
 - Dual nuts ball screw design in X and Y axis.
 - The new wider base and saddle improved machine rigidity.
 - Saddle one piece design.
- 2. High Reliability**
 - Roller type motion system.
 - Ball screw bearing lubrication system design.
 - Front chip disposal system.
- 3. High Efficiency**
 - Rapid feed rate 48/48/36.
 - Spindle speed 10,000rpm.
 - Tool change time T to T 1.8 sec.
C to C 5 sec.
- 4. High Flexibility**
 - 30T tools magazine available.
 - 4/5 axis rotary table available.
 - ZF gear box available (opt.).

Your best selection !!



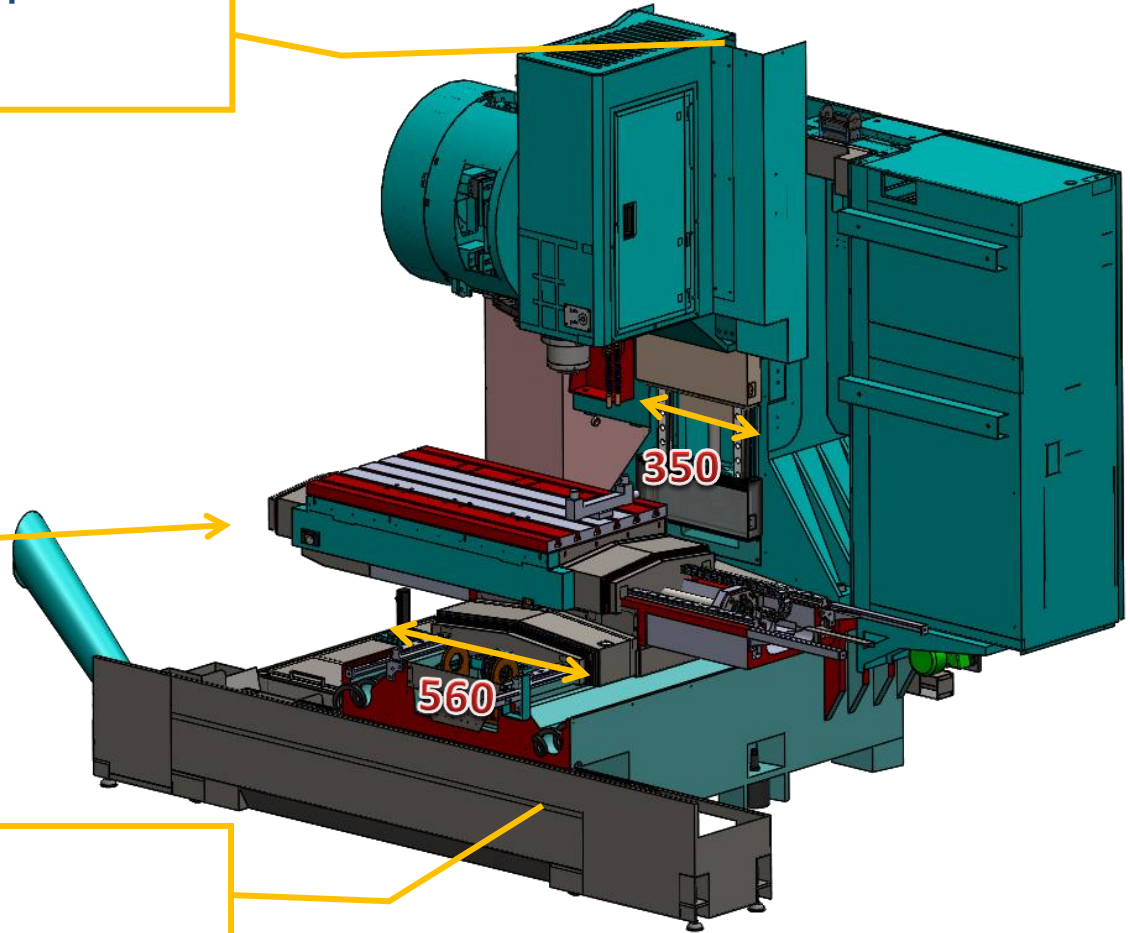
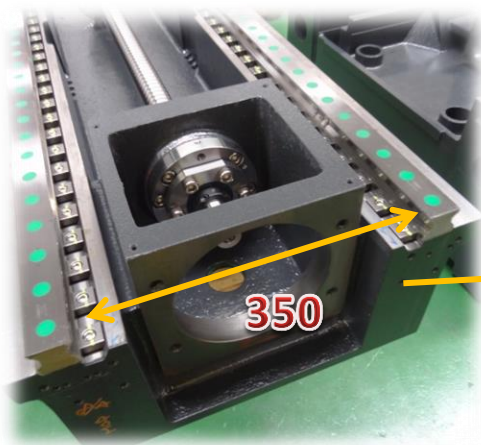
Specification

Model	V40iL
<i>Spindle Speed (rpm)</i>	10,000rpm
<i>Spindle Transmission</i>	H.T.D Belt (Direct Drive Spindle)
<i>Spindle Motor kw/torque</i>	18.5KW (79.9 Nm)
<i>Spindle Taper</i>	BT/BBT 40
<i>X/Y/Z Travel</i>	1020/635/610mm
<i>Distance from table(pallet) top to spindle end</i>	100-710mm
<i>Distance from column front to spindle center</i>	635mm
<i>X/Y/Z Feed rate</i>	48 / 48 / 36 m/min
<i>X/Y/Z Cutting Feed rate</i>	1~20,000 mm/min
<i>Table Size</i>	1120x610mm
<i>Max. Loading on Table</i>	800 kg
<i>Tool Magazine Capacity</i>	24T
<i>Max. Tool Dimensions (W/O Adjacent tools)</i>	24T: $\phi 80 \times 250 \text{mm} (\phi 110 \times 250 \text{mm})$
<i>Floor space</i>	2800 x 2200mm
<i>CNC Controller</i>	Fanuc Oi-MF



Structure

Z axis Without counter-weight to keep high performance in 3D-profile



Big span in X/Y/Z
X : 350mm, Y : 560mm, Z : 350mm



Structure

Z axis

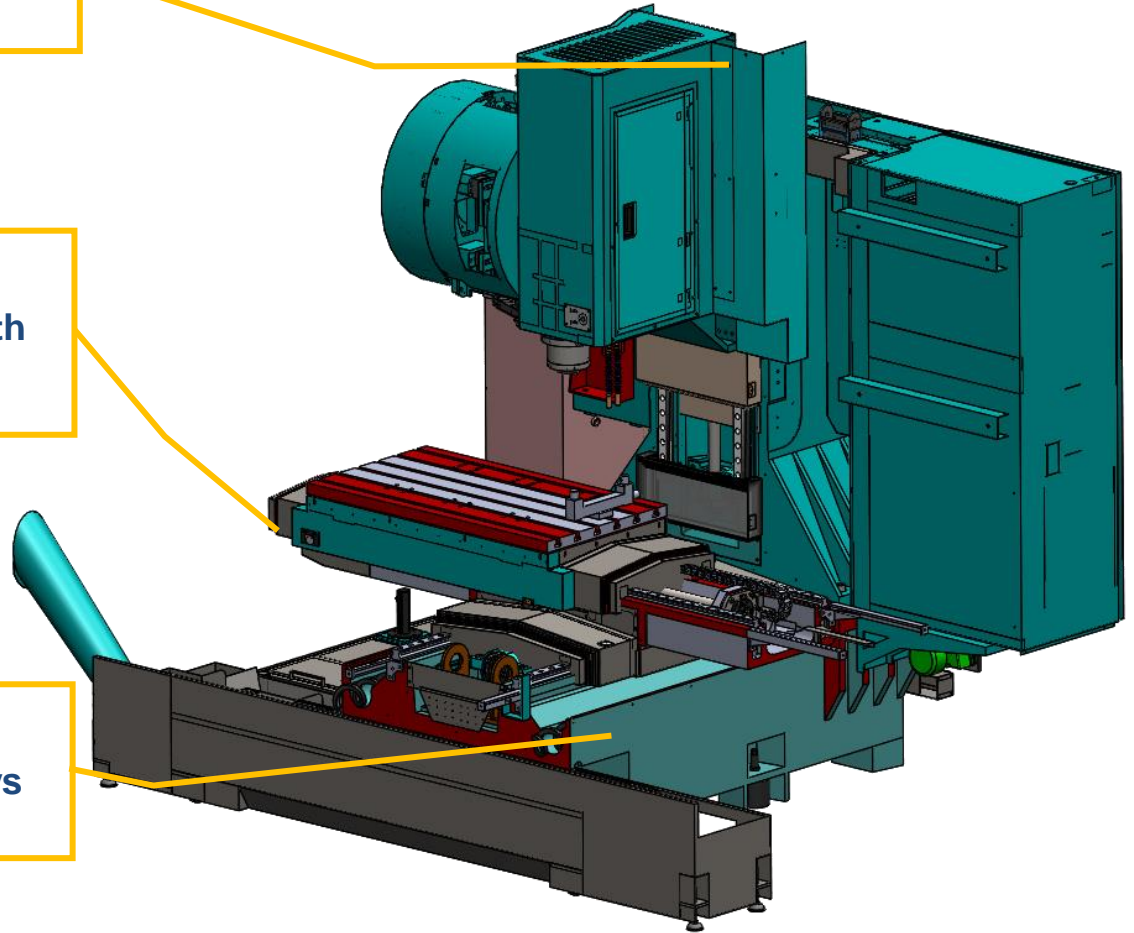
- Roller type Guide way 45mm width
- Ball screw dia. is 40mm

X axis

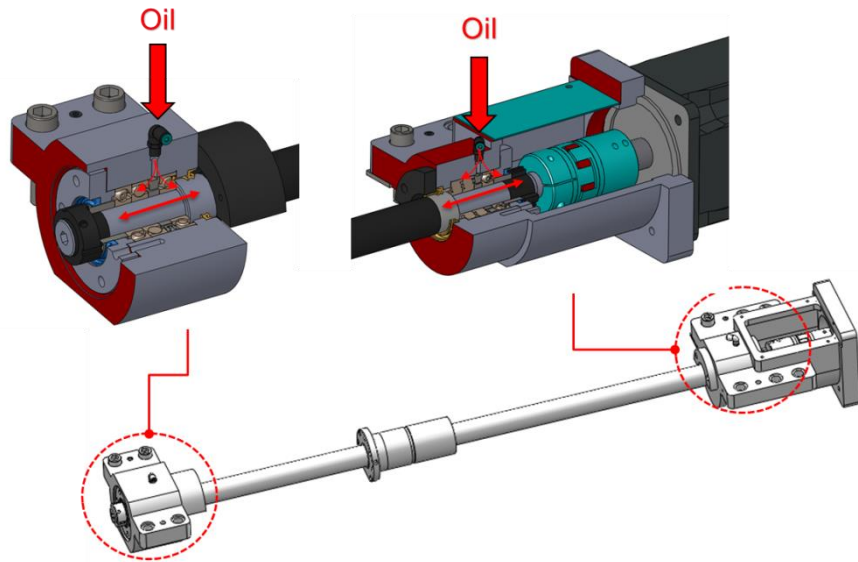
- Roller type guide ways 35mm width
- 4 block support
- Ball screw dia. is 40mm

Y axis

- Roller type 45mm width guide ways
- Ball screw dia. is 40mm

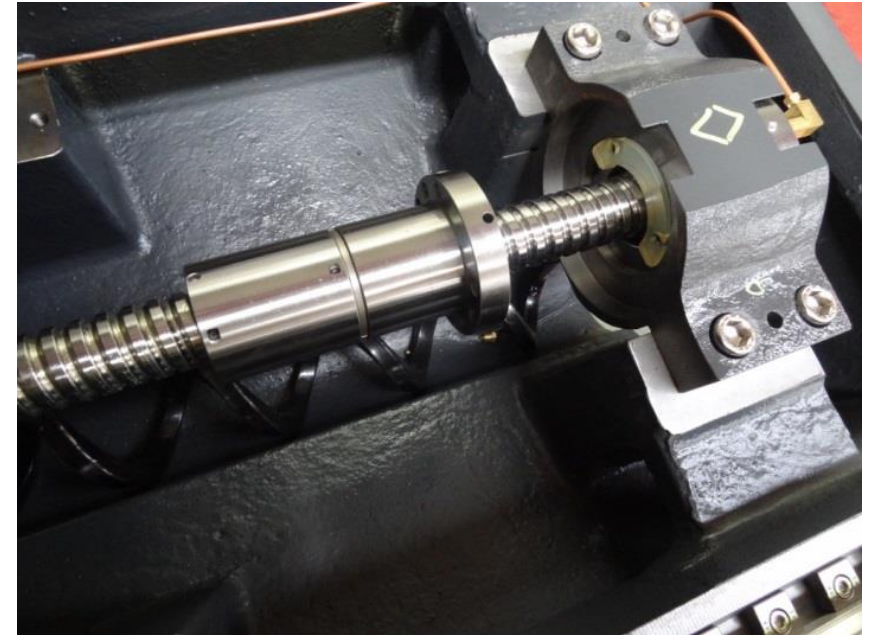


Machine Advantage



Three Axis Bearing Oil Lubrication System

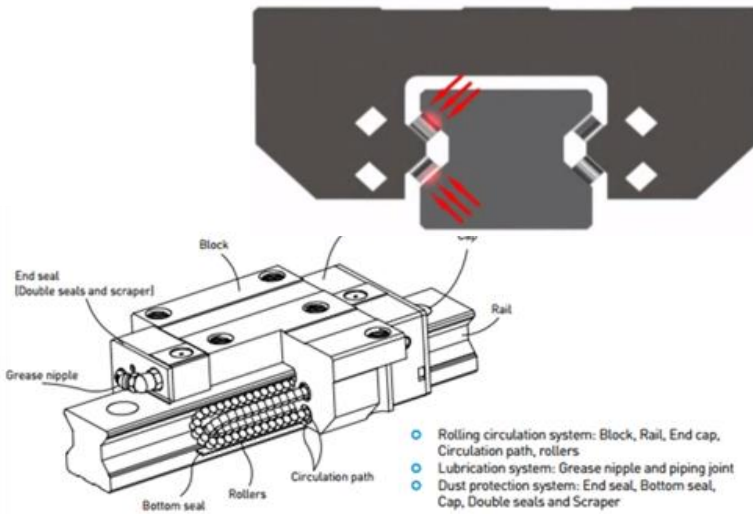
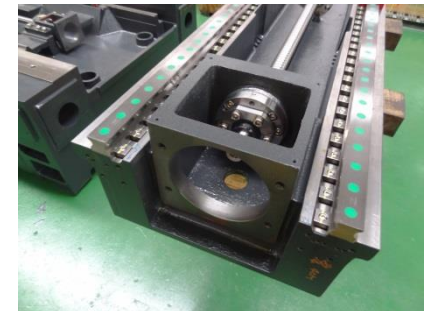
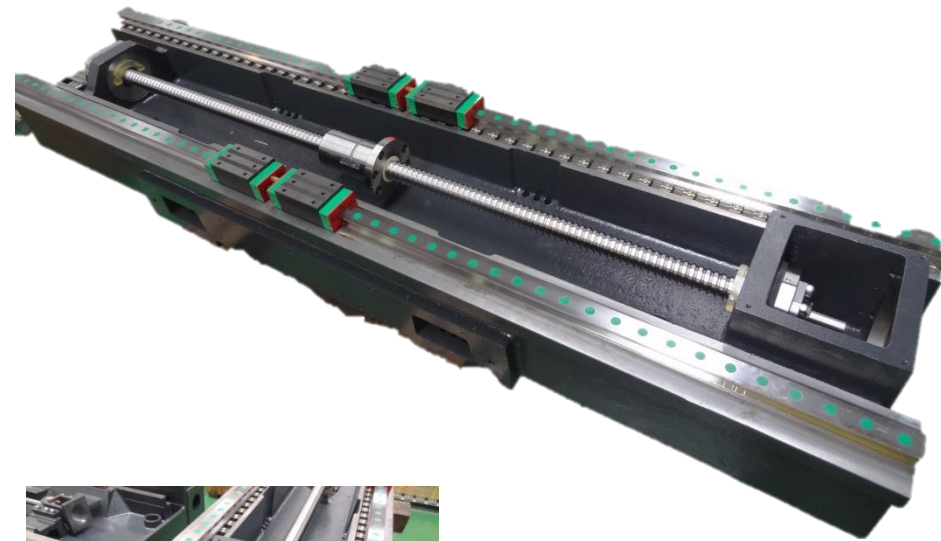
All three axis, and the bearing all have the automatic lubrication system installed. The life of the parts will be prolonged with this system. Not only get better rigidity, also reduce the thermal elongation.



Dual nuts ball screw design in X and Y axis

Rigidity Increased
Load capacity increased

Machine Advantage (2)



Roller type guide ways, make the contact became face contact, offering better rigidity and provide heavy loading capacity.

Roller type Guide way

One piece design (Saddle)



Soft Ware Function

LEADWELL Smart Processor

More than a machine

Leadwell is never simply about building a machine and to launch onto the market. Our years of experience, we learn that the right programs must be developed to ensure the competitiveness of the users.



Pre-machining setting:

It contains the function that the operation will frequent use before the operations. This including the coordinates setting, tool measurement, tool magazine measurement, and the calculator function.



Maintenance:

The operator would be able to gain the current status of the machine, and the users can access the internet to gain the other useful information.



Machining setting:

It includes the parameter data setting, and all the other statistics of the machines; such as the accumulated machining time, and the tool management.



Leadwell Assistor:

The assistor contains the functions to help the user to optimize the machine setting.

14 difference useful function

Machined work pieces.

The users' full satisfaction has always been Leadwell's main focus.



Comparison Table

	Leadwell	YCM	Hartford
Model	V-40iL	NXV1020A	MVP-10
X Axis(mm)	1020	1020	1050
Y Axis(mm)	635	520	530
Z Axis(mm)	610	540	510
Spindle speed(rpm)	10000rpm(12,000/15,000)	12,000rpm(15,000)	8000 rpm
Spindle Taper	BBT 40	BBT 40	BT 40
Spindle power (cont./30/Max)	7.5/11/18.5 Kw	7.5/11/18.5 Kw	7.5/10/ Kw
Table Size (mm x mm)	1120 x 610	1120 x 520	1150 X 560
Max, Table Load(kg)	800	500	700
X/Y/Z Rapid Feedrate (m/min)	48/48/36	48/48/32	24/24/20
Cutting Feedrate (m/min)	20	20	12
Tool Magazine	24T	24T	20 T
Tool Change time (T to T)	1.8	1.8	
Tool Change time (C to C)	5	4	
Machine Weight	6,200	5,350	
Positioning A	0.01 mm	0.01 mm	0.005 mm
Repeatability R	0.007 mm	0.007 mm	0.003 mm

- END -

When you buy a LEADWELL machine, you get more than just a machine; you get a commitment to quality- before and after the sale.

LEADWELL