

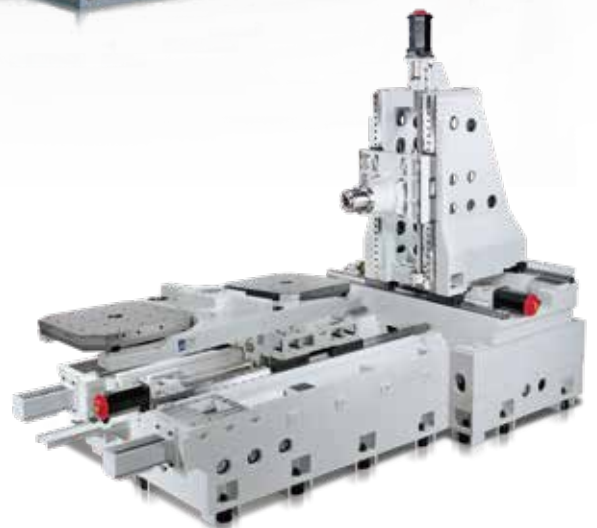
## **HORIZONTAL MACHINING CENTER**

# **YMH 400 / 500 Series**

**PRECISION BUILT!  
DRAMATICALLY BOOSTS EFFICIENCY!**



- ▶ **Roller-Type Linear Ways on Three Axes**
- ▶ **Integrated Structure**
- ▶ **No Counter-Balance**
- ▶ **Traveling Column**
- ▶ **Rigid Structure**



MODEL	UNIT	YMH 400	YMH 500
<b>PALLET</b>			
Dimensions	mm (inch)	400 x 400 (15.75 x 15.75)	500 x 500 (19.69 x 19.69)
Bolt Hole	mm	24-M10 x P100	24-M16 x P100
Max. Loading Capacity	kgs (lbs)	400 x 2 (881.8 x 2)	500 x 2 (1102.3 x 2)
Index Degree	degree	1° (0.001 opt)	1° (0.001 opt)
Index Repeatability	Sec	±4"	±4"
Pallet Capacity	piece	2	2
<b>TRAVEL RANGE</b>			
Max. Travel Range of X / Y / Z-Axis	mm (inch)	800 / 600 / 700 (31.5 x 23.62 x 27.56)	800 / 600 / 700 (31.5 x 23.62 x 27.56)
Distance From Spindle Nose To Table Center	mm (inch)	100-800 (3.93-31.5)	100-800 (3.93-31.5)
Distance From Spindle Center To Table Surface	mm (inch)	50-750 (1.96-29.52)	50-750 (1.96-29.52)
<b>SPINDLE</b>			
Spindle Taper		BBT40	BBT40
Spindle Nose Outer Diameter	mm (inch)	Ø160 (Ø6.3)	Ø160 (Ø6.3)
Spindle Speed	rpm	12000 (D.D.S.)	12000 (D.D.S.)
<b>FEEDRATE</b>			
Cutting Feedrate of X / Y / Z-Axis	mm / min (inch / min)	1-10000 (0.04-393.7)	1-10000 (0.04-393.7)
Rapid Traverse Speed of X / Y / Z-Axis	m / min (inch / min)	36 / 30 / 36 (1417 / 1181 / 1417)	36 / 30 / 36 (1417 / 1181 / 1417)
Minimum Setting Unit of X / Y / Z-Axis	mm (inch)	0.001(0.0000394)	0.001 (0.0000394)
<b>TOOL</b>			
Tool Capacity	piece	STD: 40 pcs; OPT: 60 pcs	STD: 40 pcs; OPT: 60 pcs
Max. Adjacent Tool Diameter X Length	mm (inch)	Ø80 x 300 Max. Tool Diameter Ø150 (Ø3.14 x 11.81 Max. Ø5.9)	Ø80 x 300 Max. Ø150 (Ø3.14 x 11.81 Max. Ø5.9)
Max. Tool Weight	kgs (lbs)	7 (15.4)	7 (15.4)
Tool Shank Type		BBT40	BBT40
<b>DRIVE MOTOR</b>			
Spindle Motor	kw (HP)	11 / 15 (15 / 20)	11 / 15 (15 / 20)
Servo Motor of X / Y / Z / B-Axis	kw (HP)	3 / 3 / 3 / 2.5 (4 / 4 / 4 / 3.3)	3 / 3 / 3 / 2.5 (4 / 4 / 4 / 3.3)
Centralized Lubrication System	w	150	150
Hydraulic Motor	kw (HP)	2.2 (2.95)	2.2 (2.95)
Coolant Motor (for Tools / Chips)	w	960	960
Chip Conveyor Motor	kw (HP)	0.4 x 2 set (0.53 x 2 set)	0.4 x 2 set (0.53 x 2 set)
Magazine Motor	kw (HP)	2.2 (2.95)	2.2 (2.95)
Twin-Arm Motor		1.8 (2.41)	1.8 (2.41)
<b>ACCURACY</b> kw (HP)			
Positioning VDI3441	mm (inch)	0.015 (0.00059)	0.015 (0.00059)
Repeatability	mm (inch)	0.008 (0.000315)	0.008 (0.000315)
<b>MISCELLANEOUS</b>			
T-T (Sec)	Sec	2.5	2.5
P-P (Sec) Pallet to Pallet	Sec	16	16
Outline Dimensions (L x W x H)	mm (inch)	4800 x 3200 x 3000 (188.98 x 125.98 x 118.11)	4800 x 3200 x 3000 (188.98 x 125.98 x 118.11)
Net Weight (Approx.)	kgs (lbs)	12000 (26455)	13000 (28660)

## STANDARD FEATURES

- Fanuc Oi-MF Controller
- Spindle Speed: 12000 rpm (DDS)
- Spindle Oil Cooling
- Automatic Lubrication System
- Coolant System
- Leveling Bolts and Pads
- Chip Conveyor & Chip Bucket
- Fully Enclosed Splash Guard
- Chip Auger
- Work Lamp
- Index Table 1 Degree
- 2 Pallets (Bolted Type)
- 40-Tool Magazine
- Rigid Tapping
- Electrical box heat exchanger
- FANUC operation CD