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Capitale sociale 10.000 euro - REA LO-2531621

**CNC TURNING LATHE**

**NAKAMURA WY250 SUPERMILL (YEAR 2007)**  
**WITH IEMCA BAR FEEDER MASTER 880 (YEAR 2003)**

**MARCO FIORIDO S.R.L.**

## **MACHINE MODEL**

1 Model WY250MM-YY with Y axis on both turret

## **EQUIPMENT CONFIGURATION**

\* Right side chip conveyor

\* Standard color

\* Work light

\* **All Manuals**

\* **CE Mark**

\*higher coolant tank with 2 turrets coolant pumps a medium pressure 3-12 BAR Grundfos crk4-100

\* Hydraulic unit with pressure switch

Fanuc System CNC 31iA2

\* LCD 10.3" display Italian / English/German/ French

\*Auto programming Fanuc-Luckbei manual guidance

\*Continuous C axis CNC controlled by 360.000 position including brake system left and right

\* Left Main Spindle motor power 18/15 kW bar capacity 65 ASA 6

\* Right spindle bar capacity 51 mm and power motor 11 kW CNC controlled

\* Rigid tapping on both spindle and on both live tools turrets

\* 'Air Bag' system collision protection

\* IEMCA bar feeder interface

\* Override selector for both spindle speed

\* 3 colors patlight (green, yellow, red)

\* Auto power off

\* Part catcher G type for right spindle max 65 x 200 x 3kg including hand sets from 12 to 65mm

\* Cleaning internal right spindle airblow system

\* Coolant through right spindle

\* Tool load monitor with tool life system

\* Ethernet cable

\* NAVIGATOR software to quick search of zero point on blank material.

\* Chip conveyor with right side chips outlet

\*lemca Bar feeder model Master 880HF year 2003  
including 1 set of pusher diameter 65 bar feeder  
including 1 set of channel guide 65 bar feeder  
including 1 set of chuck bar feeder

\* Tool holders including in order  
4 axial live driven tools for er25 or er 32  
4 radial live driven tools er 25 or er 32  
6 Boring Holder 32mm and 25mm diameter  
4 Static fixed holder square 25 x 25mm  
4 Double Static fixed holder square 25 x 25mm  
1 Cutoff holder 32mm  
1 Collet chuck system model Bellegrandi MSCTN70 ASA 6 for BA and BD collet type  
1 Collet chuck system model Bellegrandi MSCTN70 ASA 5 for BA collet with spring ejector

# TECHNICAL FEATURES

## Machine Structure

## High-Efficiency Multi-Tasking Machine Specifications

- High-efficiency spindle motor
- Servo-driven turret
- Servo-controlled tailstock function
- Thermal compensation system
- Turning center function
- Machining center function

### Upper Turret

- Dodecagonal/ 24-station
- ◆ Y-axis stroke: ± 90mm
  - ◆ Milling motor power: 7.5/3.7kW, 40/16N·m
  - ◆ Milling motor speed: 6000min<sup>-1</sup>
  - ◆ Servo-driven turret

### Left Spindle

- High-efficiency spindle motor
- ◆ Output: 18.5/11kW 22Nm·m
  - ◆ Speed: 4500min<sup>-1</sup>
  - ◆ Bar capacity: Φ 65mm
  - ◆ Spindle nose: A2-6
  - ◆ Least input increment: 0.001°
  - ◆ C-axis rapid speed: 600min<sup>-1</sup>

### Right Spindle

- High-efficiency spindle motor
- ◆ Output: 15/11kW 120N·m
  - ◆ Speed: 5000min<sup>-1</sup>
  - ◆ Bar capacity: Φ 51mm
  - ◆ Spindle nose: A2-5
  - ◆ Least input increment: 0.001°
  - ◆ C-axis rapid speed: 600min<sup>-1</sup>

### Lower Turret

- Dodecagonal/ 24-station
- ◆ Y-axis stroke: -50, +20mm
  - ◆ Milling motor power: 7.5/3.7kW, 40/16N·m
  - ◆ Milling motor speed: 6000min<sup>-1</sup>
  - ◆ Servo-driven turret

### B-axis

Servo drive

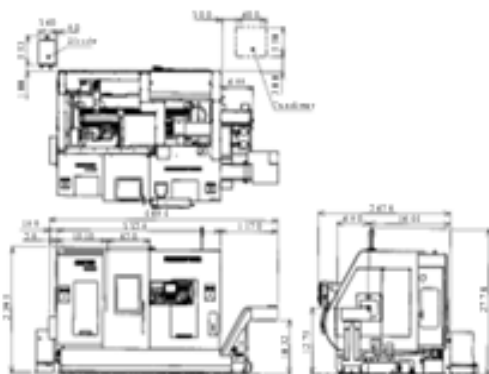
Turret Milling	Control FANUC 31-A	L: 100mm R: 5/20mm	Spindle Motor L: 18.5/11 kW R: 15/11 kW	Spindle Stroke L: 40mm R: 30mm	Spindle Speed L: 4500min <sup>-1</sup> R: 5000min <sup>-1</sup>
Max. Tapping	Max. of bar size	Max. Tapping	Boring Bar	Bar Capacity	Tool's Function



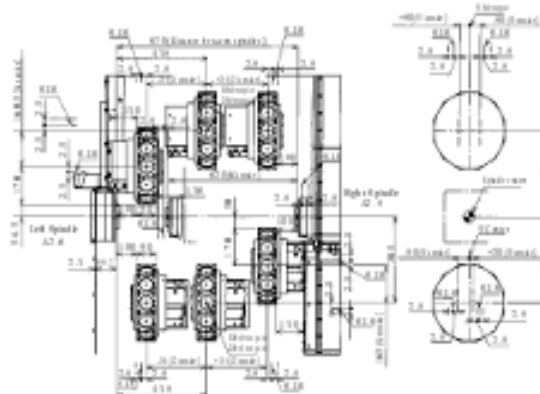
Super Mill  
WV-250

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### Floor Space



### Stroke Related



## Machine Specification

<b>Capacity</b>	
Max. turning diameter	315mm
Standard turning diameter	160mm
Distance between centers	max. 670mm / min. 200mm
Max. turning length	580mm
Bar capacity L/R	L : 60mm R : 50mm
Chuck size	L : 160mm (Ø) R : 100mm (Ø)
<b>Axis travel</b>	
Slide travel (Z) / (X)	1035mm/160mm
Slide travel (Z) / (Y)	580/500mm
Slide travel (Y) / (Z)	± 50mm/±50mm, ±30mm
Slide travel (B) -axis	620mm
Rapid feed B / X	16 m/min
Rapid feed Z / Y	16 m/min
Rapid feed B	16m/min
Rapid feed Y / Z	16m/min
<b>Left and Right spindles</b>	
Spindle speed	4500min <sup>-1</sup> 3000min <sup>-1</sup>
Spindle speed range	Stepless Stepless
Spindle size	A2-6 A2-5
Wet through spindle	90mm 62mm
I.B. of front bearing	110mm 90mm
Wet through draw tube	65mm 55mm
<b>C-axis</b>	
Least input increment	0.001°
Least command increment	0.001°
Rapid index speed	600deg/min
Cutting feed rate	1 ~ 4000°/min
C-axis clamp	Disk clamp
C-axis engagement time	1.5sec.
<b>Upper/Lower turret</b>	
Type of turret	Detachable drum turret
Number of Tool stations	24
Number of indexing positions	24
Tool size (square shank)	□ 25mm
Tool size (round shank)	φ 25mm
<b>Driven tools</b>	
Rotary system	Individual rotation
Spindle speed	6000min <sup>-1</sup> 3600min <sup>-1</sup> *1
Spindle range	Stepless
Number of driven tool stations	12 × 2
Toollet size	AR12
Holder type and tool size	
Straight holder	φ 20mm ~ φ 30mm
Draw holder	φ 20mm ~ φ 30mm
<b>Drive motor power and torque</b>	
1-spindle	10.5/10.8 225/1016 - a
2-spindle	10/10.8 128/1008 - a
Driven-tool spindles	7.5/7.108 46/100 - a
<b>General</b>	
Machine height	1395mm
Floor space	4430mm × 3670mm
Floor space	4805mm × 3215mm φ 3
Machine weight	12000kg
<b>Power source</b>	
Power supply	80-26kV 3φ
Air supply	480L/min

- \*1 Same tool holders have a max. 3,600min<sup>-1</sup>.  
 \*2 When with chip conveyor  
 \*3 Depends on equipped options and peripherals

### Safety specifications

Various safety devices such as interlocks, safety fences for automatic loaders, and automatic fire extinguishers, are available as options, which can be included in your purchase package.

Please contact our local distributor or agent for your specific requirements.

## Control Specification

<b>Items</b>	
Control type	FANUC 31i-A 3-PR31
<b>Controlled axes</b>	
Controlled axes	3-axis
Simultaneously controlled axes	4-axis (Upper 3, Z, C, Y) + 4 axis (Lower turret 3, Z, C, Y, B)
<b>Input command</b>	
Least input increment	X, Z, Y, BZ: 0.02mm / 0.001 inch (standard for 3-axis), 0.001mm
Least command increment	X: 0.001mm, Z: 0.001mm, B: 0.001°, BZ: 0.02mm, Y: 0.02mm
Max. programmable dimension	± 99999.999mm / ± 3917.991 inch, ± 9999.99°
Axis / incremental programming	X, Z, C, Y, BZ: absolute only for BZ, BZ / U, W, V, B
Decimal input	Available
Program code	G1A / ISO automatic recognition
Inch / Metric conversion	G29 / G31
Programmable data input	G83
<b>Feed function</b>	
Cutting feed	Feed / min: B1 ~ 4000mm/min, 0B1 ~ 100inch/min 2: 1 ~ 4000mm/min, 0B1 ~ 100inch/min B: 1 ~ 4000degrees/min BZ: 1 ~ 4000mm/min, 0B1 ~ 100inch/min Feed/rev: 0.0001 ~ 400.0000mm/rev 0.000001 ~ 50.000000inch/rev
Feed	G04
Feed per axis / feed per revolution (G04)	G04/G08
Thread cutting	G02
Thread cutting retract	Available
Continuous thread cutting	Available
Variable lead threading	G04
Handic feed	Manual pulse generator 0.001/0.01/0.1mm, ° (per pulse)
Automatic acceleration/ deceleration	Available
Linear/arc/circular/interpolated/curved/lead/override	Available
Rapid feed override	F0/F1/100% (changeable to users 0% to 100%)
Cutting feed-rate override	0 ~ 150% (each 1%)
#1 contouring control 1	G5.1
<b>Program memory</b>	
Part program storage length	640m
Part program edit	delete, insert, change
Program number search	Available
Sequence number search	Available
Address search	Available
Number of registrable programs	5000programs (Upper/Lower 250each)
Program storage memory	backed up by battery
Multiple program simultaneous editing	Available
DR operation through memory card	Available (Only one turret can access memory card at a time (not including memory card))
Extended part program editing	Available
<b>Operation and display</b>	
Operation panel: Display	10.4" color LCD
Keyboard	Separate type MDI unit (standard key)
<b>Program support</b>	
Circular interpolation B programming	Available
Indirect dimension programming (G66) / (G67)	Available (Direct drawing dimension programming is standard)
Canned cycle	G81, G82, G84
Multiple repetitive canned cycle	G70 ~ G76
Multiple repetitive canned cycle E	Available
Canned cycle for drilling	G88 ~ G89
Synchronized mixture control	Available (used for C axis control from Lower)
Sub program	Available
Balance cut	G88, G89
Custom macro	Available
Add to autonomous common variables	Available (After addition, #100-#199, #500-#999)
Radial interpolation	Available
Look-ahead	Available
Abnormal load detection	Available
MF Work Navigator	Available (not including contact bar)
MF WARE	Available