

CDL ORIZZONTALE YASDA YBM-1000N – 5 PALLET – S/N.00-X1415 – ANNO 2000







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SINERGIE INDUSTRIALI
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NETTUNO SINERGIE INDUSTRIALI S.R.L.



RAPPRESENTANZE DI:

MACCHINE UTENSILI

STRUMENTI E MACCHINE DI MISURA

SISTEMI PER AUTOMAZIONI INDUSTRIALI



Sede Legale e Amm.va
Via Farini, 21- 40124 Bologna
P.IVA e Cod. Fisc. 04263640379
C.C.I.A.A. N. 0361940
Iscr. Trib. N. 66774



**Business
Partner**

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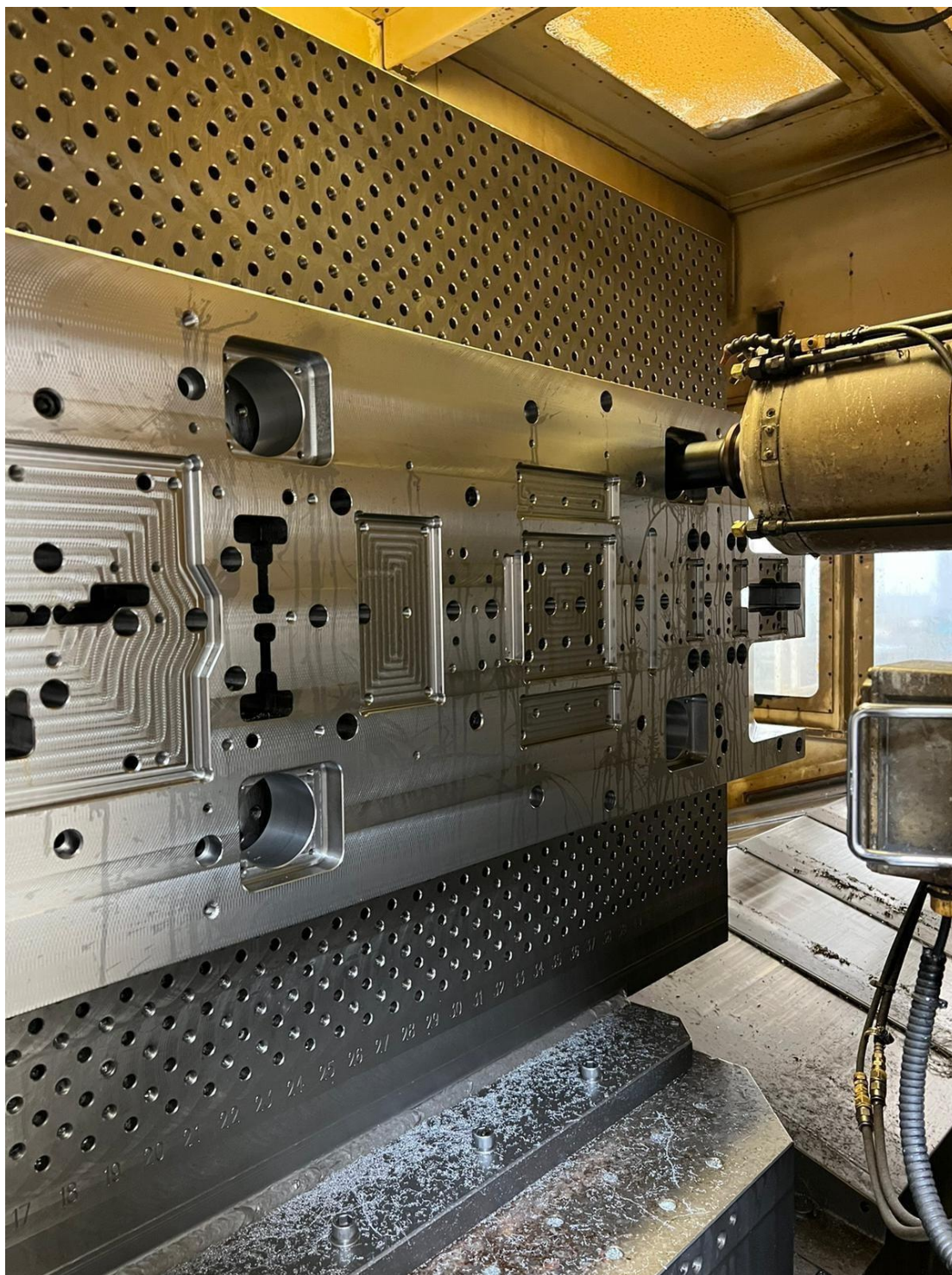


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Configurazione macchina:

CNC FANUC 160 MB

Estensione asse X 2100 mm. Estensione asse Y 1400 mm. Estensione asse Z 1700 mm. Funzione HAS 1

Esecuzione mandrino SA50 15000-30

N.4 Rack (240 utensili)

Pallettizzazione multipla 5 pallet

Impianto lubrificazione ut. micronebbia

Impianto refriger. utensile alta pressione + aria Sistema autom. Yasda sonda Renishaw Separatori olio + controllo livello

Controllo utensili di scorta

Sistema conferma utensili disponibili Sonda Marposs

Gestione durata utensili Estensione 2560 mt.

N.9 interruttori salto blocco Interpolazione elic.

Immagine speculare

Restart programma, maschiatura rigida Data server

N.B.:

Linea mandrino nuova eseguita in data 04/2017 – in data 02.09.22 ore mandrino per taglio 6499

Machine specification:

Base machine

Spindle speed range	50 to 15.000 min.
Spindle speed range programming	1
Number of spindle speed rangers	BT 50 (7/24 Taper)
Type of spindle tool holder	90 mm.
Spindle bearing inner diameter	AC30KW (30 min. rating)
Spindle drive motor	MAS403 P50T- type retention knob
Spindle tool holder	setting range: 50 to 120%
Spindle speed override	M48, M49
Canceling function	LED display
Canceling display function	Spindle stops electrically and mechanically
Spindle orientation	LED display
Orientation finish display	% display
Spindle load meter	

Travel

X-axis travel (longitudinal movement of table)	2100 mm.
spindle head)	Y-axis travel (vertical movement of 1400 mm.
Z-axis travel (cross movement of column)	1700 mm.
Distance from pallet top to spindle center	Omn to 1400 mm.
Distance from table center to tool gauge line	300 mm. To 2000 mm.

Standard functions and equipment

YASDA MASCOT mini	
YASDA self-diagnosis function, signal analysis function and maintenance screen, etc.	
Tool management function by tool number	max 600 groups
Production control function	applicable
Operation condition and amount of machine done	
Hydraulic power unit	
Pump type	variable discharge pump
Pump di scarge	48L/min.
Pump discharge pressure	9Mpa (90kg/cm ²)
Motor output	7.5 kw
Reservoir tank capacity	120L
Way protect cover	Leveling jack screw
Slideways automatic lubrication unit	
Pump type	gear pump
Pump discharge	200 cc/min.

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Tank capacity	6L
Auto power off system	
Oil-air lubrication system for spindle bearing	
Pump type	pneumatic drive
Tank capacity	2.7 L
Operation panel	display section: LCD display Operation section: CRT/MDI panel
Spindle speed & tool number indicator	
Manual pendant operation panel box	handle (manual pulse generator)
Earth leakage breaker	available to high frequency
Inductosyn feedback	
Dissambling tool	
Optional functions and devices	
The travel extension (corresponding to the large size work)	
X tavel extension 600 mm.	Total 2100 mm.
Y travel extension 400 mm.	Total 1400 mm.
Z travel extension 300 mm.	Total 1700 mm.
High speed spindle (15.000 min.)	
Type	SA50-15000-30
BIG PLUS system	
Spindle end surface in 1.5 mm forward from the taper gauge line.	
Automatic tool changer unit (ATC system III)	
Type of tool shank	MAS BT 50
Type of retention knob	MAS403 P50T-1
Method of tool selection	Random selection
Tool storage capacity	240
Maximum tool diameter	dia.300 mm.
Milling cutter	dia.200 mm.
T-type boring bar (the cutter direction is specified) 100 mm.	dia.400 mm.Max tool dia. on full setting dia
Distance between magazine pots	115 mm.
Maximum tool length	550 mm. (only no.1 magazine) 440 mm. (no.2, no.3, no.4 magazines)
Maximum tool weight	20 kg.
Tool number display	spindle tool/next tool
Tool holder cleaning device (switch)	air blow Manual tool release device (pedal equipped)
Special tool-pots for corrisponding to BIG PLUS tools no.1 magazine (60 tools)	
ATC special switching function	
Weight of unit	approx 7.000 kg.

Number of pallets	
Pallet working surface	total 5
Pallet surface configuration	1250x1250 mm.
Thickness of pallet	157-M16 tapped holes
Weight of pallet	175 mm.
Edge locator	1400 kg.
Pallet chucking device	equipped

Number of attached pallets	1
Preload stand (PLS)with automatic pallet changer (APC)	
Method pallet change	rotary shuttle

Number of pallet stands	5
Rotation table control	manual
The PLS no.1 and no.5 are for the large size work	
Automatic program search	applicable
Fixture control function	applicable
Operating condition display	applicable by MASCOT
Pallet random selection function	applicable
Auto power source off function	equipped
Display unit	equipped
Area sensor around the stands	equipped
Weight of unit	14.500 kg.
Spindle head oil cooling unit	2
Temperature controller	follow up base temperature type
Cooling capacity:	
MPSB-15-CE	5200 kw
MPSB-07-H-CE	3200 kw
	Freon gas R22

Refrigerant	
Cutting oil unit (AA type)	
Fiat nozzle	6
Pump discharge	40L/min.
Pump pressure	0.3Mpa
Tank capacity	1200L
High pressure coolant unit (for spindle center through coolant)	
Pump pressure	3.5Mpa
Pump discharge	25L/min.
Motor output	3.7 kw
Spindle center through micron fog (M07)	Bluebe
Micron fog coolant (M37)	Bluebe
Oil skimmer device	equipped
Level switch of coolant tank	lower level 1, upper level 2
When the lower limit is detected, the machine becomes FEED HOLD condition.	
When the lower limit is detected, the message is displayed on the CRT display.	

Cutting oil temperature control unit	
Oil cooling unit	
Reference temperature follow up type	5°
Cooling capacity	3720W
Refrigerant	Freon gas R22
Sheathed heater	2000W
Ambient temperature	should not exceed 40°C
	Pump for pump

up	
Pump discharge	50L/min.
Pump pressure	0.3Mpa
Tank capacity	110L
Chip conveyor	TS type
Screw conveyor	TWIN
Control	Auto/manual (CW/stop/CCW)
Automatic running interval	ON: 1 min/OFF: 2 min.
Hinge type chip conveyor and drum type filter	Auto/stop/jog (CW/CCW)
Height of swarf outlet	1504 mm.
Splash guard with automatic door and slide roof	
Door control	automatic and manual
Corresponding to the extended stroke of each axis	
Fluorescent lamp	1

Gyratation light

2 light system

This is mounted on the splash guard, and APC operator side.

Blinking conditions are as follows.

Spare tool control system (YASDA)	
Number of spare tool control	300 groups
Control number in one group: main tool	1 tool
Control number in one group: spare tool	7 tool
Tool life control system (YASDA)	600 tools
Tool life pre-alarm (number of tool)	max 99 hours and 59 min.
	Max 9999 times
Setting unit of tool life pre-alarm	1 min. or once
Life factor	0.5 to 1.5 in 0.1 increment
Stored tooling content confirmation system (YASDA)	
Stored tooling content confirmation control	400 groups
Part program number	400 pieces
Number of main tool used	total 2000
Auto-measuring system	MP7
Repeated measuring function	max 5 times
Calibration for compensation	applicable
Repeatability of touch probe	0.001 mm.
Total measuring accuracy	0.008 mm.
(under the conditions of no dust)	
N/C memory used	150 m.
N/C custom macro common variable used	43
N/C registered program used	29

Automatic tool length/radius compensation system & tool breakage sensing system(YASDA)

Repeated inspecting function max 5 times

Repeatability of touch sensor 0.001 mm.

Total measuring accuracy 0.008 mm.

(under the conditions of no dust)

Compensation range when tool length compensation and tool breakage

Sensing are simultaneously performed 5 mm.

Range of cutter compensation 2.5 mm.

N/C memory used 50 m.

N/C custom macro common variable used 31

N/C registered program used 19