



Inventory number: 22530

3-axis machining center
MAZAK NEXUS 510C
MAZATROL 640M NEXUS
2005



Technical data

Number of axis total	3
Number of tables	2
Table length	1300 mm
Table width	550 mm
Number of T-channels	5
Distance of the T-slots	100 mm
T-channel width	18 mm
Table load max.	1200 kg
Longitudinal travel (X-axis)	1050 mm
Transversal travel (y-axis)	510 mm
Vertical travel (z axis)	510 mm
Tool changer:	
Number of tools	30
Tool diameter max.	80 mm
Diameter with free adjacent pockets	125 mm
Tool length	350 mm
Max. tool-weight	8 kg
Average chip-to-chip time	2.9 sec
Spindle nose: ISO	40
Distance spindle nose to table	150 - 660 mm
Spindle speeds:	
stepless	
from	35 rpm
up to	12000 rpm
Feed range	1 - 8000 mm/min
Rapid traverse:	36 m/min

Air connect	5 bar
Voltage 50 Hz 3x	400 Volt
Spindle power	18.5 / 7.5 kW
Total power required	32 kVA
Machine's weight about	6900 kg
Overall dimensions machine:	
Length	2880 mm
Width	2835 mm
Height	2783 mm
Various accessories:	
Linear scale system (X-,Y-,Z-axis)	
Set of toolholders	
Coolant system	250 l
Coolant through spindle (cts)	15 bar
Measuring feeler gauge Renishaw	
Tool break control	
Chip conveyor	
2-way pallet changer	
Lamp	
Oil mist extractor	
Tool measuring device	
Automatic switch off	
Interface PCMCIA card	
Synchronized tapping	





MAZATROL 640M NEXUS

POSITION	SWITCH	BAECHT-SEF.	TR. 103	ZFP. PRECIPAT 4
X	-0.009	X 0.	0	
Y	0.002	Y 0.	0	
Z	-0.012	Z 0.	0	

MACHINE	FEED	ADP	<INDALE>
X	-0.009	X 0.	X 0.
Y	0.002	Y 0.	Y 0.
Z	-0.012	Z 0.	Z 0.

VEL. 0	VEL. 10	SAGASIS VE. 5	SPD 0	MIN. 1	SPD 1
(CPRA)	()	()	(2)	0	m/min
FALLETEN 0			VELS	0.	m/min
VEL. SUPP. D(1) 0.				0.	m/min
VEL. SUPP. D(1) 0.				0.	m/min

1. HAUPTSCH. ON
ZUECHTEN

RESET CLEAR

O N G P 7 8 9

X Y Z Q 4 5 6

I J K R 1 2 3

M S T L - 0 .

SHIFT F D H S B

STOP EOB CANCEL INPUT

SINGLE BLOCK COOLANT STOP MFI COOLANT MACHINE

RAPID SPINDLE W/FEED RAPID HOME1 TAPE MEMORY

JOG/HANDLE MEN WINDOW

CYCLE START

FEED HOLD

DOOR UNLOCK

MACHINE SET UP LOCK ENABLE

TOOL UNCLAMP

SPINDLE STOP START

CONVEYOR

+Y +X +Z +4 +5 +6

-Y -X -Z -4 -5 -6

Yellow Emergency Stop Button

WENK

Werkzeugmaschinen
Maschinen - tools

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SPINDLE CONVEYOR
CYCLE
FORWARD

TOOL UNCLAMP



















