

SAM 022530**MAZAK Type NEXUS 510C**

Group	3-axis machining center
Manufacturer	MAZAK
Type	NEXUS 510C
Controller CNC	MAZATROL 640M NEXUS
Year	2005
Youtube video	https://youtu.be/QeOR8MVIn5I



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 lenght	350 mm
Max. tool-weight	8 kg
Average chip-to-chip time	2.9 s
Spindle nose: ISO	40
Distance spindle nose to table	150 - 660 mm
Spindle speeds:	
stepless	
from	35 t/min
up to	12000 t/min
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

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Coolant through spindle (cts)
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

15 bar









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