TECNO IN
MACCHINE UTENSILI

MULTITASKING TURNING CENTER
OKUMA MULTUS U3000
Year of manufacturing 2022



TECHNICAL DATA

CNC OSP – P300 SA 19'' OPS-SUITE

CAPACITY:

Swing over saddle:	mm 650
Distance between centers:	mm 1.500
Max machining diameter:	mm 650
Max machining length:	mm 1.500

TRAVELS:

X axis:	mm 645
Z axis:	mm 1.600
Y axis:	mm 250
W axis:	mm 1.594
B axis indexing angle:	-30 to +210
C axis indexing angle:	0,0001

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SPINDLE:	
Speed:	min^{-1} 4.200
Nose shape:	ASA 8
Taper bore:	mm 91
OPPOSING SPINDLE:	
Speed:	min^{-1} 5.000
Nose shape:	ASA 6
Taper bore:	mm 80
TOOL SPINDLE:	
Type:	H 1
Tool holder:	HSK- A63
Speed:	min^{-1} 12.000
FEED RATES:	
X, Z, Y axes:	m/min 50, 50, 40
W axis (opposing spindle):	m/min 30
C, B axes:	min^{-1} 200, 30
ATC:	
Tool shank:	HSK-A63
Nr. of tools:	80
Max tool diameter:	mm 90 / 130
Max tool length:	mm 400
Max tool mass:	kg 10
MACHINE SIZE:	
Height:	mm 2.955
Floor space:	mm 5.425 x 2.995
Mass:	kg 16.500

Machine equipped with:

- Self-centering double clamping pressure:
  Double clamping pressure on the main spindle via M codes.
- AUTOBLOK KNCS-N 275/86 A8″ 3-jaw chuck for the main spindle
- AUTOBLOK KNCS-NB 225/66 A6″ 3-jaw chuck for the sub-spindle
- Main spindle with large through-bore
- Presetting
- 80-position tool magazine
- 20 turning toolholders and tools
- C-axis synchronization

- Continuous B-axis

- High-precision C-axis on the main spindle and sub-spindle
- 5-axis machining kit
  Continuous 5-axis machining software package (X-Y-Z-B-C) for use with the continuous B-axis:
  - Includes Super Nurbs high-speed machining software
  - RTCP vector control, including automatic tool angular position control
  - 3D coordinate transformation
  - DNC-DT data transmission software
  - Helical interpolation with the B-axis
- Milling head air blast
  Air-blast option through the milling head (B-axis) for turning and milling operations, with switchable air/water supply.
- Y-axis machining kit, comprising:
  - Helical interpolation with the X, Y and Z axes
  - Turning function that allows turning with tools offset along the Y-axis from the X-axis of rotation
- API Library 2 (on status)
- IGF conversational programming
  Advanced IGF M-E Kit programming software:
  - Interactive cycles
  - Realistic 3D simulation
  - Toolholder database
  - OneTouch automatic programming
  - Import of CAD geometry
- 3D mathematical model
- Renishaw TRS2 laser tool-breakage detection probe
- Basic automatic 5-axis geometry requalification kit
- 0.1-micron resolution software
- Z-axis origin offset after probing on the sub-spindle
- C-axis origin offset after probing on the main spindle
- 70-bar high-pressure system
- MT10 side chip conveyor for Multus
- Instruction manuals and CE declaration