Kettelerstr. 5 · 65193 Wiesbaden
Tel. +49 (0) 611 1885709
info@cnc-toerner.de
www.cnc-toerner.de

Technical Data Sheet

CNC Multitasking Machine · MAZAK INTEGREX i-250HS

Reference No.: 24202

Quantity	**1 off**
Make	**MAZAK**
Model	**INTEGREX i-250HS**
Year of manufacture	**2022**
Control	**Mazatrol Smooth Ai**

Technical Data

Working range

Max. swing diameter	**670 mm**
Max. turning diameter	**670 mm**
Max. bar diameter	**65 mm**

Main spindle

Max. speed	**5,000 min^{-1}**
Min. speed	**35 min^{-1}**
Spindle bore	**76 mm**
Rated power (40% ED)	**22.0 kW**
Rated power (continuous)	**15.0 kW**
Max. torque (40% ED)	**467 Nm**
Max. torque (100% ED)	**239 Nm**

Sub-spindle

Max. speed	**5,000 min^{-1}**
Min. speed	**35 min^{-1}**
Spindle bore	**76 mm**
Rated power (40% ED)	**18.5 kW**
Rated power (continuous)	**15.0 kW**
Max. torque (40% ED)	**325 Nm**
Max. torque (100% ED)	**238 Nm**

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Milling spindle

Tool change unit	**single spindle with ATC**
Tool taper	**Capto C6**
Turning tool shank (square)	**25 mm**
Boring bar shank (max.)	**40 mm**
End mill (max.)	**130 mm**
Max. tool length	**400 mm**
Max. power (40% ED)	**24.0 kW**
Max. power (continuous)	**22.0 kW**
Max. torque (15% ED)	**131.0 Nm**
Max. torque (40% ED)	**124.0 Nm**
Max. torque (continuous)	**91.0 Nm**
Max. speed	**12,000 min^{-1}**
Min. speed	**35 min^{-1}**

Travels

X-axis	**695 mm (+570 mm / -125 mm)**
Y-axis	**300 mm**
Z-axis	**1,077 mm**
W-axis	**1,026 mm**
B-axis swivel range	**240° (-30° to +210°)**

Feed rates

Rapid traverse X-axis	**50 m/min**
Rapid traverse Y-axis	**40 m/min**
Rapid traverse Z-axis	**50 m/min**
Rapid traverse W-axis	**30 m/min**
Rapid traverse B-axis	**40.0 min^{-1}**

Tool magazine / ATC

Type	**chain type**
Number of tool pockets	**112**
Max. tool diameter with adjacent tools	**90 mm**
Max. tool diameter with adjacent pockets free	**130 mm**
Max. tool weight	**12 kg**
Max. tool length	**400 mm**

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Operating hours

Power-on time	**22,407 hours**
Pure machining time	**10,495 hours**

Equipment

- Ø65 mm bar capacity using power chuck & cylinder B-210A615A + SR1677C (Kitagawa)
- Automatic opening/closing of the operator door
- Tool magazine for 112 tools (Capto)
- Smooth Monitor Ax
- Smooth-Ax, additional function: operations analysis
- Smooth-Ax, additional function: maintenance management
- Air blow device at the milling spindle (flood coolant nozzle)
- Workpiece flushing device (main spindle)
- Interface for high-pressure coolant 70 bar (Europe)
- Robot interface (Advance/Ethernet/IP)
- Bar feeder interface
- 8" power chuck with enlarged through-hole (main spindle)
- Preparation for Mazak Monitoring System-B RMP60
- Mazak API (Application Programming Interface)
- Smooth synchronized tapping (milling spindle) G84.2 and G84.3
- EIA/ISO 5-axis simultaneous machining
- Tool center point control / 5-axis simultaneous machining (G43.4/G43.5)
- 5-axis tool radius compensation
- Max. program memory: 32 MB
- Additional M-function, 1 M-code
- Rapid traverse constant inclination angle during movement
- Thread re-cutting function
- Coordinate axis rotation of the milling spindle for internal turning (rotation about the Z-axis)
- Turning/milling function under Mazatrol
- Cylindrical and polar interpolation (EIA) of the X/C-axis
- Tool length compensation in tool axis direction
- Set of paper manuals
- Linear scale system for X- and Y-axis
- Sub-spindle with full C-axis (contouring/indexing 0.0001°)
- Preparation for Multi & Flash Tool System
- Workpiece flushing device at the sub-spindle
- Mayfran ConSep with 70 bar high-pressure pump and various flushing pumps as specified
- Mayfran 1,000-liter extension tank for ConSep including lifting pump

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Photos











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