

CNC
4 Axis
IndraMotion MTX micro



CNC

4 Axis ■ IndraMotion MTX micro**Documentation**

• Brochure

**Technical data**

		MTX micro
Machining Technologies		
Turning		●
Milling		●
Drilling		●
Axis control		
Default number of axes		3 ●
Max. number of axes		6 ○
Max. number of spindles thereof		2 ●
Default number of independent channels		2 ●
Default number of interpolating axes per channel		4 ●
Spindel/C axis change-over		●
Circuit spanning axis transfer		●
Software limit switch		●
Interpolation functions		
Linear interpolation with/without exact halt before NC block transition		●
Circular interpolation with radius and center-point programming, helical interpolation		●
Threading drill with/without compensating chuck		●
Threading cutter		●
NC block preview, look-ahead with jerk limitation		●
Jogging with active transformation		●
Nanometer resolution		●
Feed functions		
Feed in mm/min or inch/min		●
Time programming		●
Feed per rotation		●
Constant cutting speed		●

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Travel to dead stop		●
Torque reduction		●
Shifts and Corrections		
Mirroring, scaling, turning		●
Zero shift		●
Placements (Frames)		●
2D compensation		●
Tool maintenance		
Integrated, flexible tool maintenance		●
Tool data entry and organization of tool lists		●
Tool compensation (length, radius, cutting position compensation, user data)		●
Standstill time management		●
Access to tool data from the PLC		●
Access to tool data from the CNC		●
CNC programming		
Creation of parts program (DIN ISO 66025, RS 274)		●
High level language programming, CPL (Customer Programming Language)		●
CNC user memory	MB	64
Static memory	MB	4
Max. size of parts program	MB	8
CompactFlash data memory		●
Cycles for contour machining		●
Technology cycles		
Turning		●
Milling		●
Drilling		●
Functions		
Dwell time in seconds		●
Excelleration programming, KV-programming		●
Homing via NC-program		●
Absolute dimention, relative dimention		●
Change-over inch/mm		●
Sensor input, static/flying measurement		●
Rounding and milling		●
Corner rounding with splines		●
NC-block specification from PLC		●
Block lead/block search run		●
Dry run		●
Departure and NC-block restart on the contour		●
PLC programming		
Integrated PLC: IndraLogic		●
Programming languages according to IEC 61131-3 (IL, LD, CFC, ST, SFC, FBD)		●
PLC program memory	MB	2
Number of I/O		32 I / 16 O / ●

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Max. number of I/O		96 I / 48 O / 0
Diagnosis and start-up tool		
Automatic system monitoring		●
Indication and error message in clear text		●
Integrated drive projection		●
Integrated PLC-projection		●
Drive oscilloscope		●
Engineering tool IndraWorks		○

● Standard

○ Option

■ Optional in connection with a PC

□ Option with IndraDrive

1) Technology package - turning 1

2) Technology package - milling 1

3) Technology package - milling 2

4) Shop programming - turning (DE/EN)

5) Shop programming - milling (DE/EN)

6) Technology package - shape cutting

7) Technology package - electronic transmission

Components**Engineering and operating**

Description	Page
Engineering and operating	Software tools

Servo Drives

Description	Page	Details
Motors	Synchronous servo motors	IndraDyn S
Motors	Asynchronous servo motors	IndraDyn A

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