

Mikron NRG Plus

MIKRON



More productive. More flexible
For bigger applications.

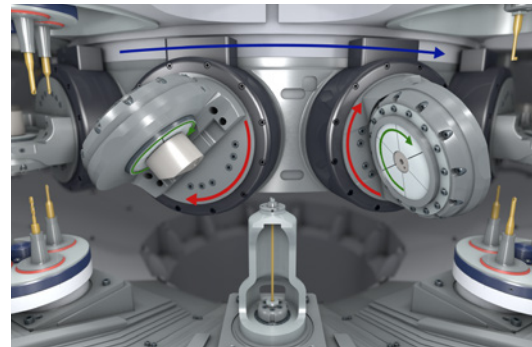
Mikron NRG Plus

The new Generation of Transfer Machines

The Mikron NRG Plus combines all advantages of the proven and successful Mikron NRG-50 concept with evolutionary "Plus" benefits. That means more competitiveness for you.

Plus 1: more productive

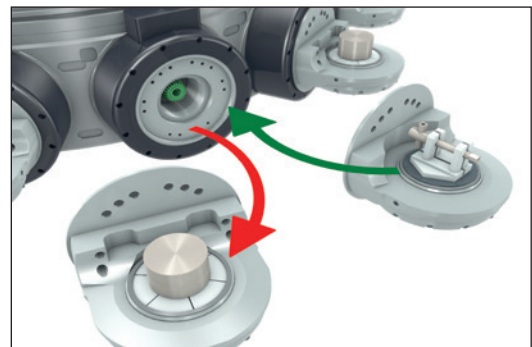
- Simultaneous movements of all 5 axis, also during the table indexing, increases the productivity
- More spindle power for turning operations
- Faster Automatic Tool Changer
- Faster B/C-axis



Simultaneous movement of table and B/C-axis

Plus 2: more flexible

- The B/C-axis interface reduces considerably the clamping type change-over time
- Machining of demanding simultaneous 5 axis applications possible



Exchange of the B/C-axis.

Plus 3: for bigger applications

- Parts up to 80x80x80mm or Ø65mm L100 can be efficiently machined



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Technical data

Machine type	Modular & flexible rotary transfer machine
Work piece dimension	up to 80x80x80mm or Ø65x100mm
Number of stations	12
Number of CNC 3-axis machining units per station	up to 3 working from above, below and by side
Total number of CNC 3-axis machining units	up to 30
Axis strokes of machining units	X=90 Y=90, Z=150 mm
Number of tools on board	up to 96
Number of automatic tool changers	up to 22
ATC (Automatic Tool Changer)	4 tools, chip to chip 3.1 sec. at 6000 rpm
ATS Advanced Thermal Stabilization	Compact thermo-symmetrical structure system which ensures constant and homogenous machine temperature
5 axis simultaneously CNC machining	on every station, with every spindle
Resolution of rotating clamping device	0.001°
Turning spindle (S6)	max. 6'000 rpm, max 24 Nm, max 10.0kW
HP spindle (S6)	max 20'000 rpm, max 10.5 Nm, max 2.2kW
ATC HS spindle (Automatic Tool Changer) (S6)	max 27'000 rpm, max 3.5 Nm, max 6.6 kW, Z stroke 90mm (3.54")
ATC HP spindle (Automatic Tool Changer) (S6)	max 12'000 rpm, max 9.4 Nm, max 4.5 kW Z stroke 90mm (3.54")
RH spindle (Recess Head with U axis CNC)	up to 4,000 rpm, U-axis stroke up to 7mm
DEEP spindle (deep hole drilling)	20,000 rpm, 200 bar, Z stroke 90mm max
Internal cooling on all machining spindle	up to 80 bar (200 bar for DEEP spindle)
CNC	Bosch MTX
Table transfer time (rotation and indexing)	1 sec.
B/C-axis movement time	B/C movements during the table movement
Machine weight	approx 16,000 kg
Machine layout (medium installation size)	approx. 10x8x3.3 m

The technical data listed are not binding and may be changed at any time without notice.



Typical Mikron NRG Plus applications.

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