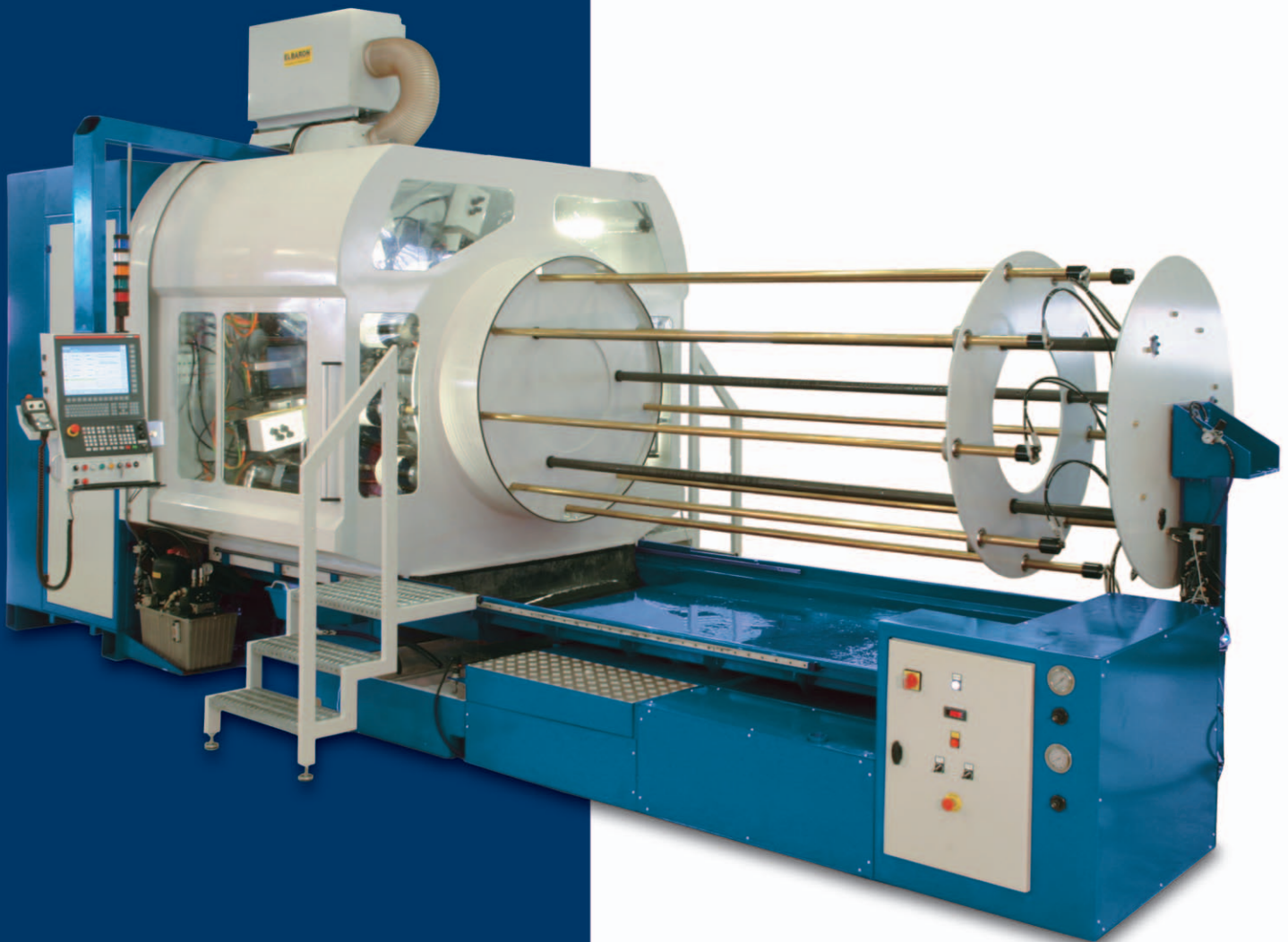




S-1000 C

**Horizontal transfer machine,
9 stations and 38 axes**



www.bumotec.ch

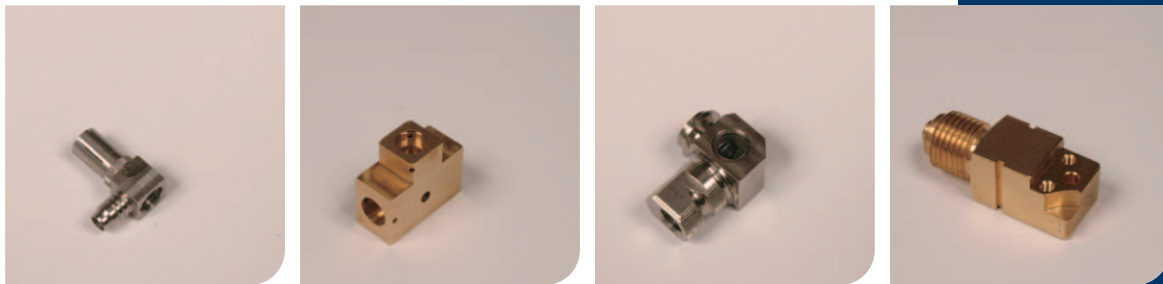
Make complex operations simple with the S-1000 C

Machining of complex components due to 4 simultaneous axes on each station

Watch industry

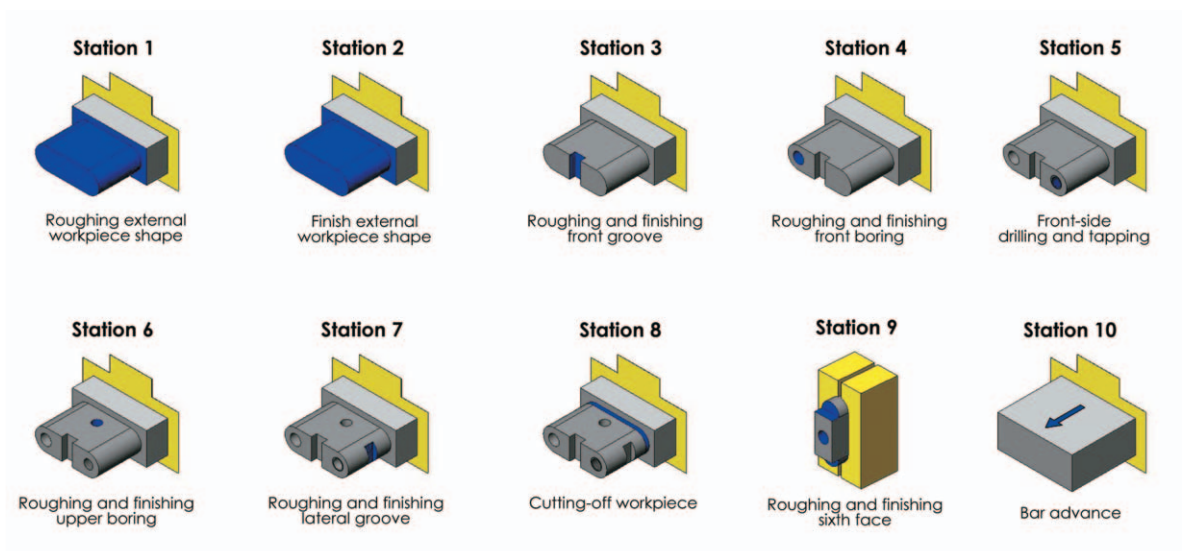


Others industries



Connector, Textile, Automotive, Optical, Medical, Dental industry and others

Machining exemple



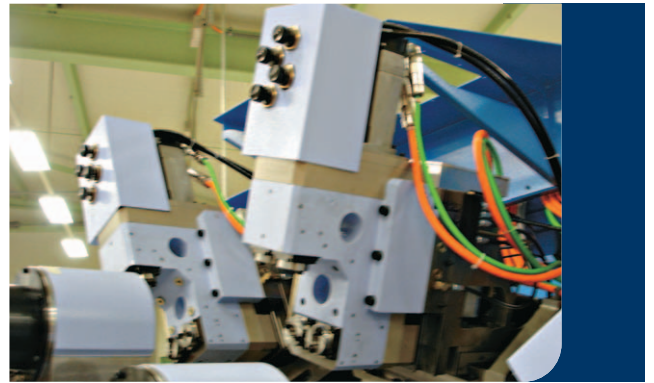
Main characteristics



- High production transfer machine
- Maximum flexibility for minimum set-up times
- Short cycle times
- No vibration due to the rigid machine design
- Temperature control for maximum precision
- Automatic bar feed system with 9 bars
- 8 independent 4 axis machining of the 6th side
- 3-axis re-taking station for the machining of the 6th side
- Rotary C-axis with "direct drive" technology
- Numerical control PC interface

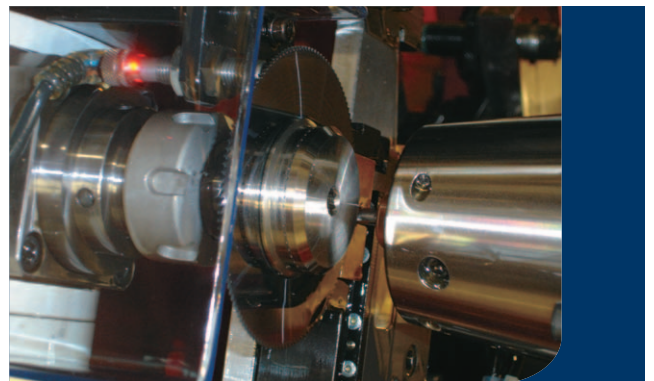
Machining stations

- 2 horizontal and 2 vertical spindles Ø. 47 mm
- Maximum spindle speed 10'000 rpm
- Drive motor 1,2 kW
- Push button tool release
- Custom designed stations for specific needs



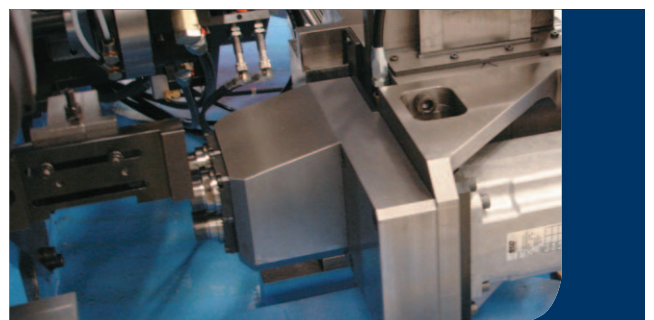
Cutting-off station

- 1 horizontal spindle Ø. 55 mm
- Maximum spindle speed 10'000 rpm
- Drive motor 1,2 kW
- Manual tool clamping
- Optimized coolant supply for saw blade (option)



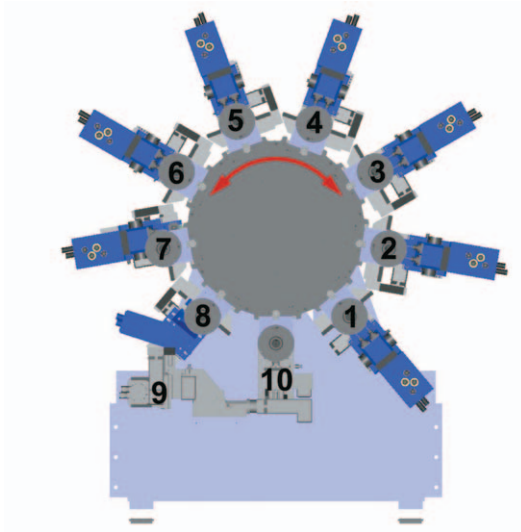
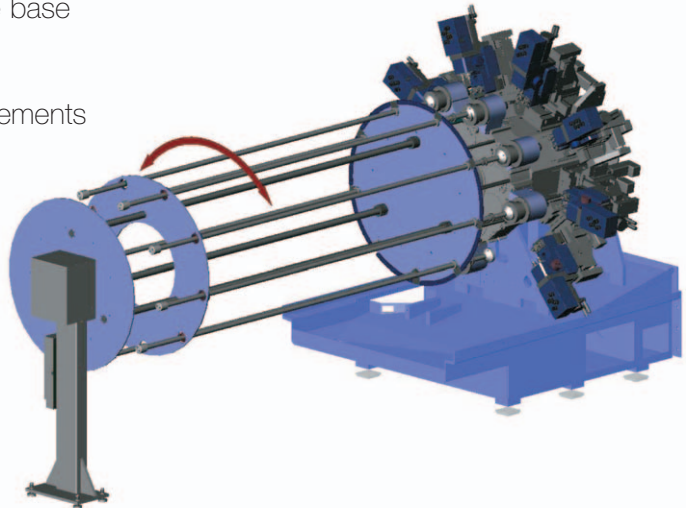
Re-taking station

- 3 horizontal spindles Ø. 35 mm
- Maximum spindle speed 3'000 rpm
- Drive motor 1,2 kW
- Machining of the 6th side
- Manual tool clamping



Machine configuration

- Very rigid welded and reinforced machine base
- Stabilized cast iron frame for high rigidity and precision
- CNC controlled index table, with 40° increments
- Working station layout:
 - 1 to 7 - 4-axis machining stations
 - 8 - 4-axis cut-off station
 - 9 - 3-axis re-taking station
 - 10 - 2-axis bar feed station

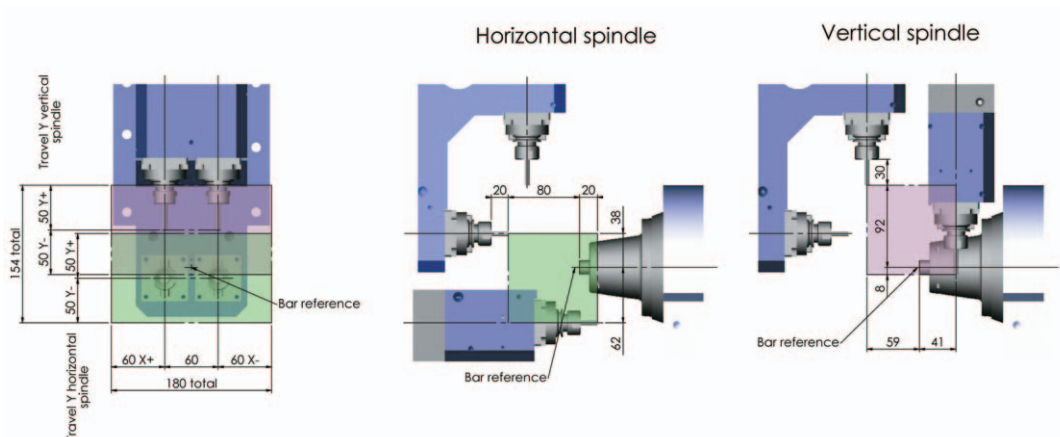


High precision C-Axis

- Compactness and precision due to the integrated direct drive TORQUE motor
- High precision encoder mounted directly on the divider shaft
- Bar passage up to \varnothing 28mm (42mm optional)
- Round, rectangular or profile bars possible
- Clamping jaws designed according to profile for a perfect grip of the bar



Machining zones



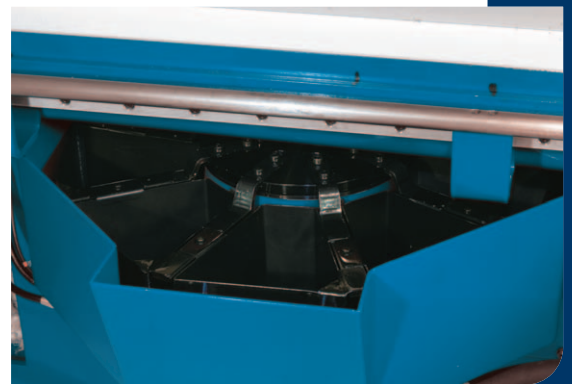
Numerical control

- Numerical command NUM 1050 Axiom power
- Very easy control of the various movements, up to 37 simultaneous axes
- User-friendly control panel with man-machine interface via PC
- Possibility to connect the machine to a data-processing network for easy data exchange
- Error message and diagnostic system



Equipment

- Fium extractor
- Tool breakage monitoring
- Swarf evacuator with paper filter
- Portable electronic hand wheel
- Mechanical probing system RENISHAW (tool length and centre)
- Workpiece holding arm for cut-off and transfer to the re-taking station
- Chiller system for the electrical cabinet
- Automatic central grease system
- Automatic bar feed system (pull)
- Unloading carousel with 9 individual trays



Options

- High-pressure coolant system
- Oil treatment system, coolant temperature, control and filter system
- Swarf conveyor
- Paper filter system
- Automatic fire extinction system
- Automatic bar feed system (push)
- Double workpieces holding arm for cut-off and transfer to the re-taking station, allowing machining of the sixth side in hidden time

Optimal ergonomics

- Fully open machining area for total operator accessibility
- Swarf evacuation gravity due to the horizontal bar
- Total swarf recuperation (precious metals) removable coolant tank
- Control panel mounted on swivel arm for operation from both sides



Technical data

Machine configuration

Number of machining stations	8/9
Number of CNC-axis (max.)	38

Divider C-axis

Operations	unlimited
Motor torque	33 Nm
Power	1.2 kW
Rapid travel	72'000°/min
Clamping force	6000 N
Indexing time from 0° à 180°	0.35 sec.

Machining stations

Axis travels	X	120 mm
	Y	100 mm
	Z	100 mm
Axis motor torque		2.3 Nm
Axis motor power		0.75 kW
Rapid travel		15 m / min
Maximum spindle speed		10'000 min ⁻¹
Maximum cut-off speed		3'000 min ⁻¹
Spindle motor torque		2.6 Nm
Spindle motor power		1.2 kW
Automatic tool holder clamping		ISO 20
Tool monitoring		Optional

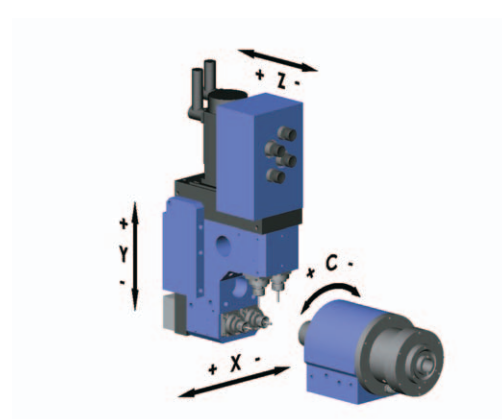
Bar Magazine

Number of bars	9
Maximum bar length	3 m
Maximum bar diameter	28 / 42 mm
Round, rectangular or profiles bars	

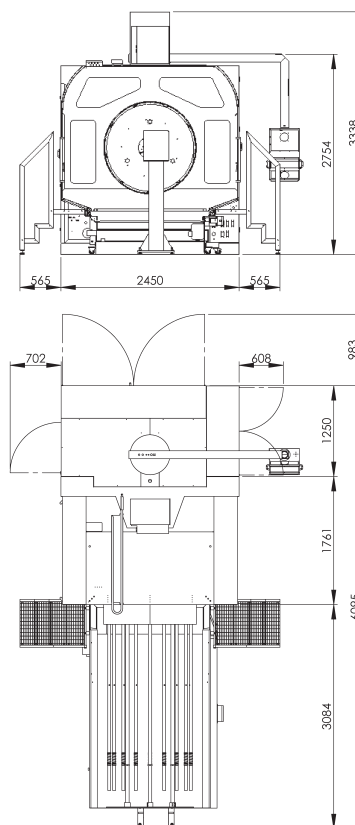
Weight

9'500 kg (depending on configuration)

Axis travel



Floor space requirement



We reserve the right to modify certain specifications of this catalogue without any notice to improve these data. They are not contractual.



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