S-191: Turn- and Mill Center

The innovative concept of the BUMOTEC S-191 with up to 7 axis and 3 spindles, for a high precision production of complex parts from bar or bank with fore- and backside machining. All spindles with direct drive, the linear axis optionally with linear motors for reduction of bi-times and better dynamics and finishes at higher speeds. The newest generation of CNC-technique with nano-interpolation.



S-191 in watch-, medicinal- and micromechanical industriesThanks to its axis-concept, the S-191 is able to turn and mill complex pieces in only one setting.



ring times. This drive-technology follows the profile more precisely and with higher dynamic.

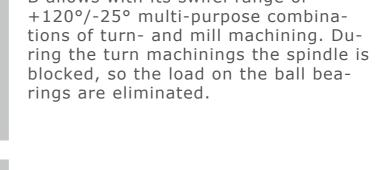
and the most modern CNC-technique with nano technology and short manufactu-

The milling head on the swifel-axe B allows with its swifel range of

The multi-purpose manufacturing-options

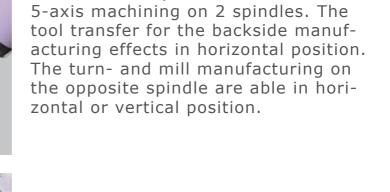












The axis-concept allows a simultaneous



S-191 Accessories



Tool Probe A Renishaw contact probe is available as a tool

broken tool detection.

• A wide range of accessories are available to extend the S-191 machine capability



Workpiece measuring Probe An ultra compact touch probe with wireless transmission provides a solution for workpiece

setting option. Cutting tools are measured on 3 axis which are automatically introduced into the CNC machine control. The system also allows



inspection, part alignment and automatic off-set updates during the cycle.



Automation Numerous automatic loading / unloading solutions



are available to meet your application needs.



High Pressure CoolantThe Hydro Fluid, high pressure coolant

systems provides:

Oil cooling

Automatic filtration down to 5 microns

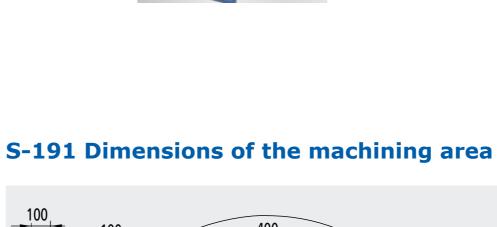
Self-cleaning filters



A conveyor belt provides part evacuation from the machining zone.

• High pressure up to

80 bars



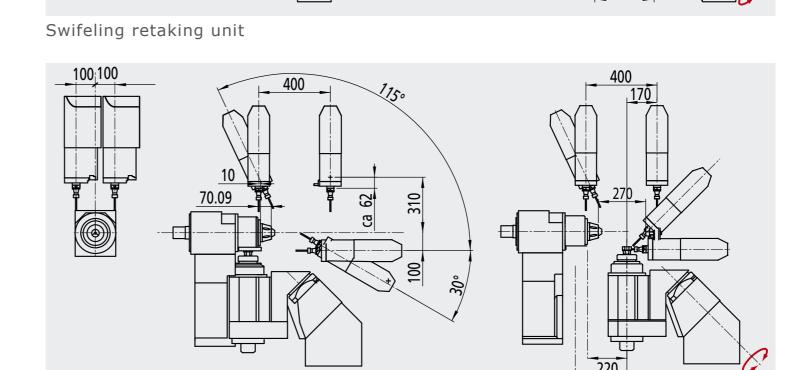
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Chip and Coolant ManagementSeveral chip and coolant system are available for all applications and materials.

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with counter spindle

Main dimensions of S-191

620

400

