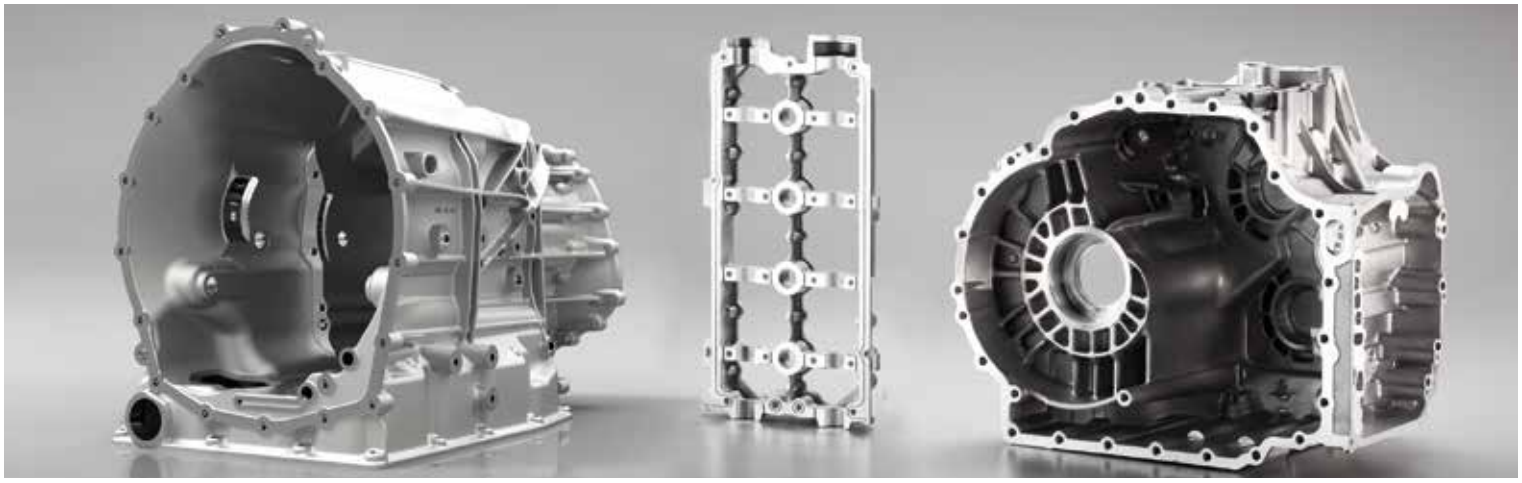
SW Technology People

MACHINING CENTRE **BA W08-22**



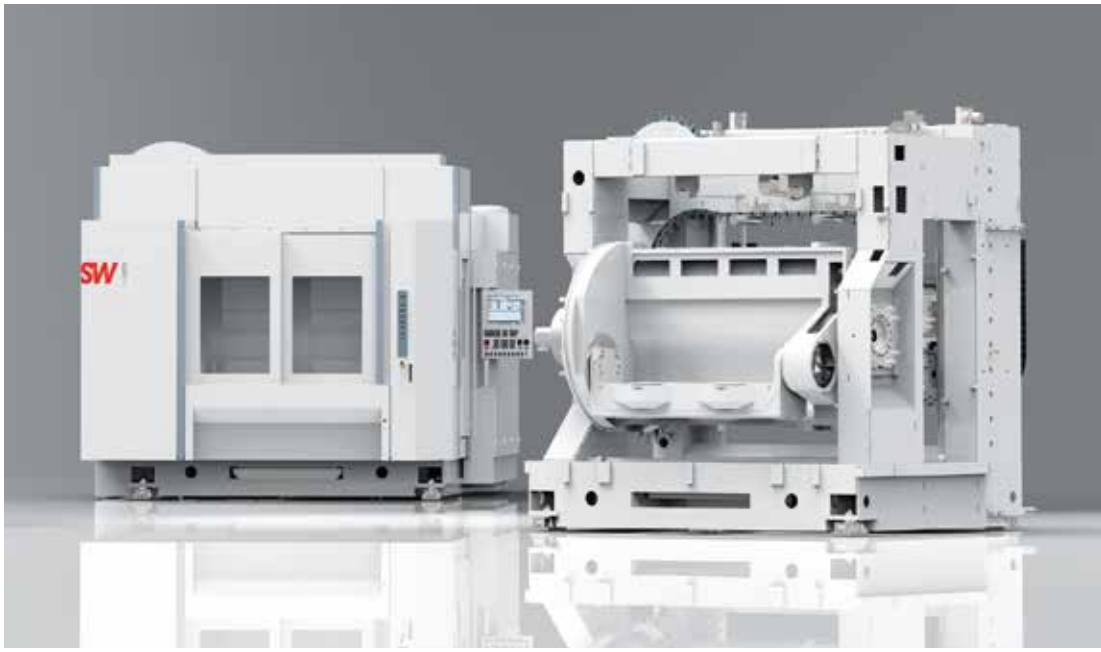
hspeed TECHNOLOGY QUBE construction aDrum architecture

PERFECT PERFORMANCE

QUBE construction Brand new, extremely fast – future-oriented. You still produce large light metal workpieces, such as 8-speed gearbox housings on single-spindle machines? This era is over now. The market is progressing and SW is thinking ahead. What about double the output in the same time? The horizontal, twin-spindle machining centre will manage it. The enlarged working area (800 x 900 x 650 mm) provides more space.

DDrum architecture The direct drive in all axes provides the ideal acceleration and speed (up to 2 g, 120 m/min). Two independent X- and Z-axes increase flexibility and accuracy. Monobloc, double swivel carrier and in-cycle workpiece loading are proven SW standards which must not be missing. 4- and 5-axis machining is of course possible and is easy to handle. Unequaled on the market. The new BA W08-22 – a machining centre that will allow you to advance.

BA W08-22



- Machine bed designed as a monobloc patented by SW
- Two spindles
- Box-in-box 3-axis unit
- Independent X- and Z-axes
- Linear motors in X-, Y- and Z-axis
- Acceleration up to 2 g
- HSK A63 or HSK A80 motor spindles
- 4- or 5-axis machining
- Tool magazine for 84 up to 182 tools (modular design)
- SW broken tool monitoring system (< 0.3 s)
- Up to 12 hydraulic lines and 6 pneumatic lines per worktable

- For light metal workpieces
- Hanging machining for unhindered chip flow
- Energy-optimized frequency control of the cooling unit
- Energy saving programs („Stand-by" and „Sleep")
- Ideal ergonomic loading/unloading position
- Crane hook machine, easy transport, quick installation

- Process design and simulation
- Fixture design and collision detection
- Process optimization on site and at SW
- Training in the SW Academy
- SW Online Service, including Condition Monitoring

DIMENSIONS

TECHNICAL DATA

■ Working range	
X_1-, X_2-axis	800 mm
Y-axis (toolchange position)	900 mm (1200 mm)
Z_1-, Z_2-axis	650 mm
Spindle distance	800 mm
■ Workpiece carrier	
Swivel carrier/counter bearing with crown gear: swivel time 0/180°	approx. 5.0 s
A- and U-axis, prepared for mounting a fixture plate, up to max.	Ø 950 mm x 1830 mm
Drive system	Torque motor
Load capacity	2 x 800 kg
Speed range A-, U-axis	1 - 40 rpm
C- and W-axis*	2 satellites / 4 satellites
■ Work spindle HSK - A63	
Speed range	1 – 17.500 rpm
Run up time 0 - n_{max}	< 0.7 s
Spindle bearing diameter	80 mm
Power / Torque (40% ED)	2 x 35 kW / 80 Nm
■ Work spindle HSK - A80*	
Speed range	1 – 12,500 rpm
Run up time 0 - n_{max}	< 0.9 s
Spindle bearing diameter	90 mm
Power / Torque (10% ED)	2 x 42 kW / 200 Nm
■ Feed drive	
Drive system	Linear motor
Rapid traverse X / Y / Z	120 m/min
Axis acceleration X / Y / Z	10 / 10 / 20 m/s²
Max. feed thrust X / Y / Z	2 x 6,000 / 20,000 / 2 x 6,000 N
■ Accuracy (according to VDI/DGQ 3441)	
Position measuring system	Direct, absolute
Position tolerance X / Y / Z	Tp=0.008 mm
■ Werkzeugmagazin	
Toolchange system	Pick-Up
Capacity	2 x 42 (2 x 70 , 2 x 91)*
Max. tool diameter	85 mm / 350 mm (free adjacent pocket)
Max. tool length	550 mm
Max. tool weight HSK 63	10 / 12.5 kg (free adjacent pocket)
Max. tool weight HSK 80*	12 / 18 kg (free adjacent pocket)
■ Toolchange	
Chip-to-chip-time **	approx. 3.0 s
■ Weight / Dimensions	
Transport dimensions W x H x L	3.99 m x 3.50 m x 5.90 m
Total weight	approx. 24,000 kg
Machine installed W x H x L	5.05 m x 4.20 m x 8.20 m
■ Connected load	
Operating voltage	3 x 400 Volt, 50 Hz, TN-S/TN-C Netz
Total connected load	152 kVA
Mean air consumption	0.5 Nm³/min (6 bar)
■ CNC control system	
Siemens	SINUMERIK 840 D sl

* Specification depends on machine equipment. The illustrations shown in this brochure may vary from actual facts showing additional or special equipment. **Determined according to SW works standard WN-96655801. See also www.sw-machines.de.



TECHNOLOGY PEOPLE: FORWARD THINKING.

There are quite many who build machining centres. But only a few take such intensive and successful care of the entire technological demand of your project like we do. The highest priority is given to deliver the best economical and sustainable solution for your manufacturing task. Which machine model ends up being the right one and how it will be applied most effectively, depends on your requirements for materials to be machined, quality and production volumes.

We proclaim to be 'Technology People'. This is more than building machine tools. Competent counsel in all technological and commercial questions from 'A' like Automation to 'Z' like Z-axis thrust. All topics are addressed before the first chip falls. We provide cost-per-part calculations and we are flexible in crafting your project finance. So your decision for SW as your preferred business partner is based on dependable data. We develop our machines from the inside out to make sure it is tailored for its future effective use in your plant.

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