



# Milling

The future is here – now

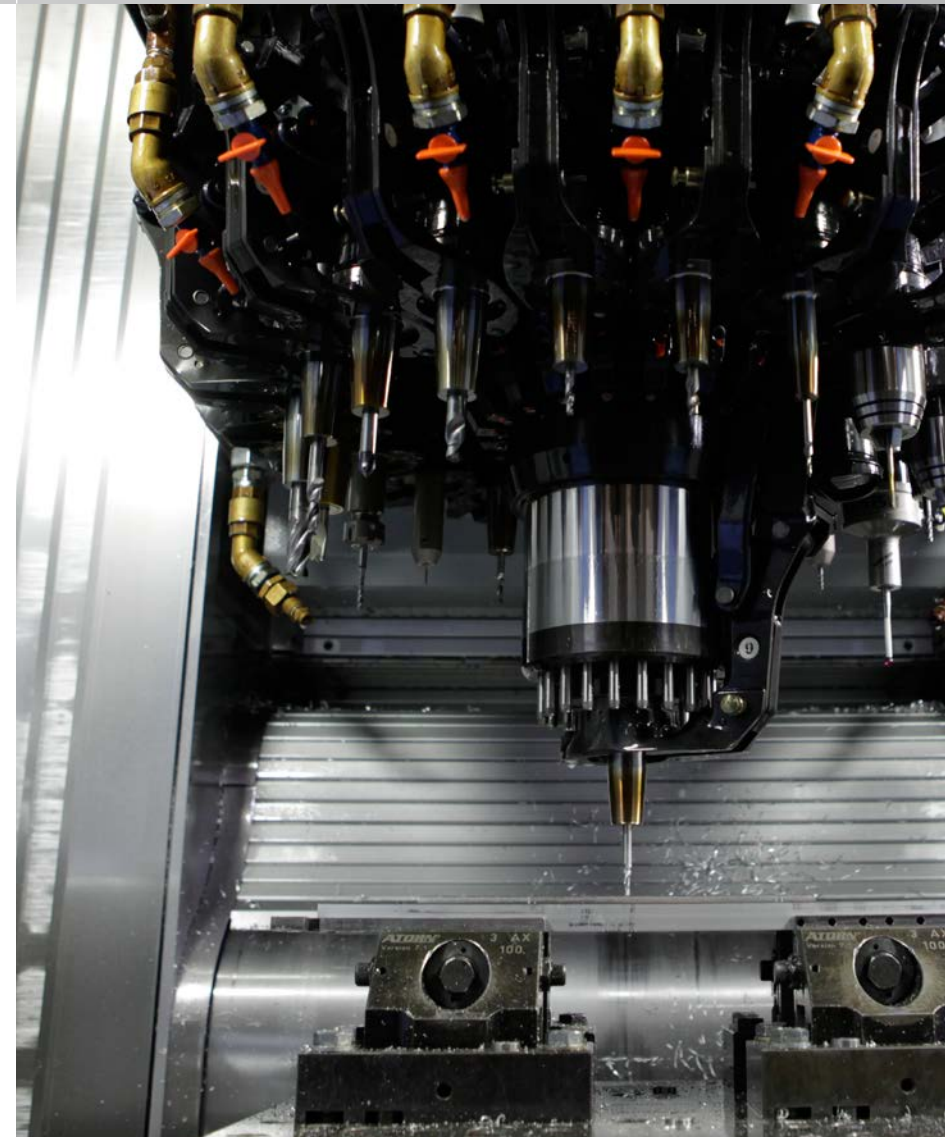
**HA-BE**

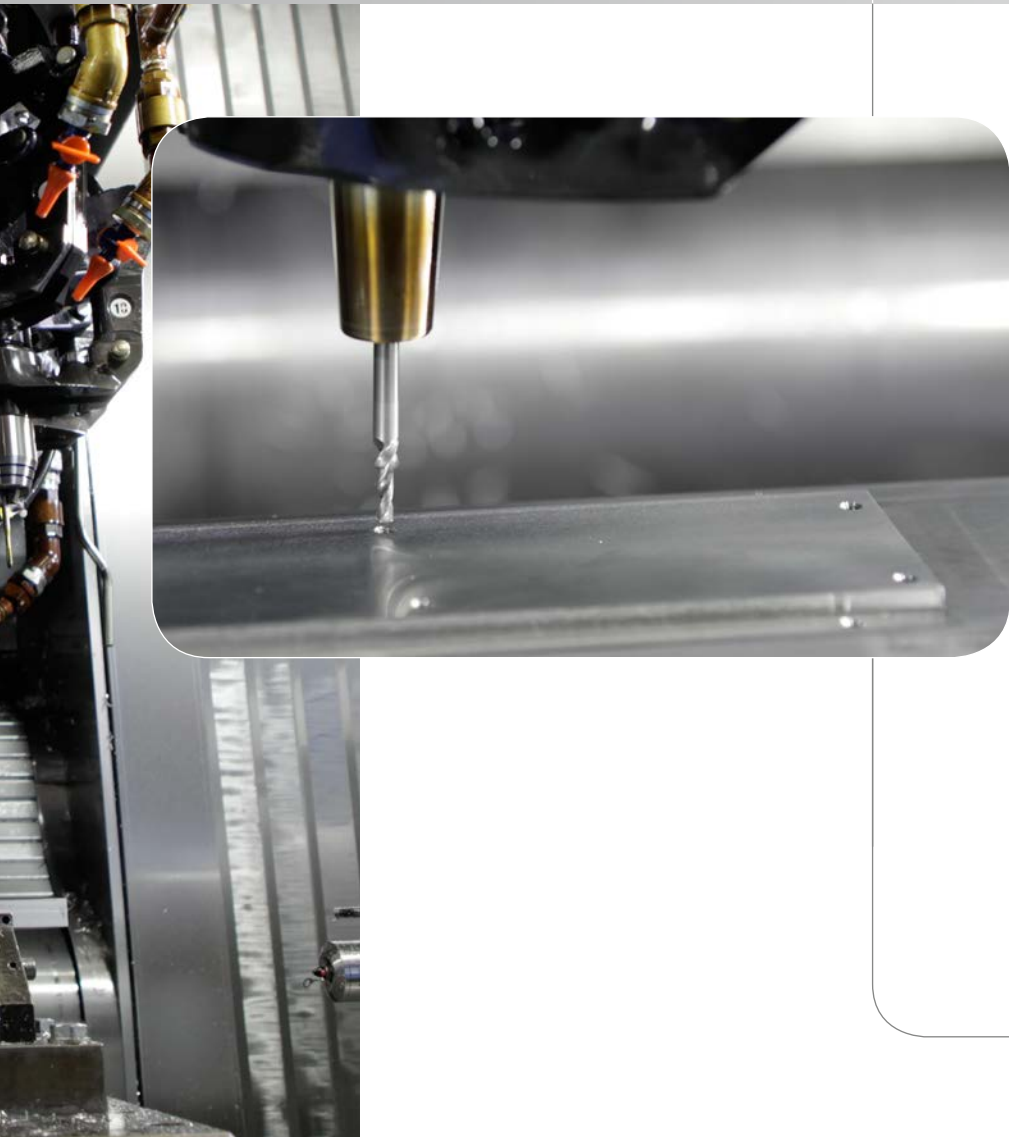
## PERFECTION. PASSION. PROCESS.

The production of heat sinks and cold plates is an essential part of HA-BE's range of services.

Ultra-modern high-performance machining centres enable highly productive metal cutting and cost efficient but high-precision milling results. Milling is performed simultaneously at two work stations on 5 axes

High-speed milling is made possible by tool changing times of 1.4 seconds and a spindle speed of 20,000 revolutions per minute. In combination with a movement speed of 60m/minute, optimal process times and maximum productivity are achieved.

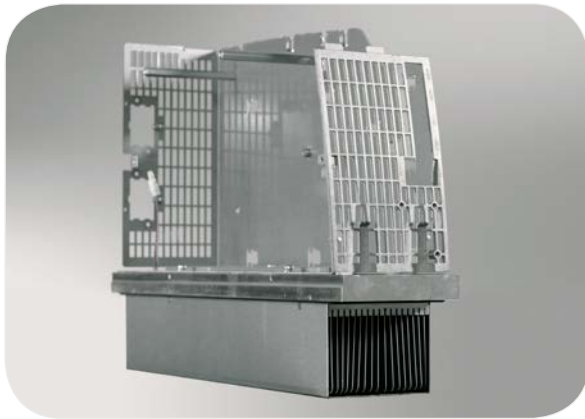




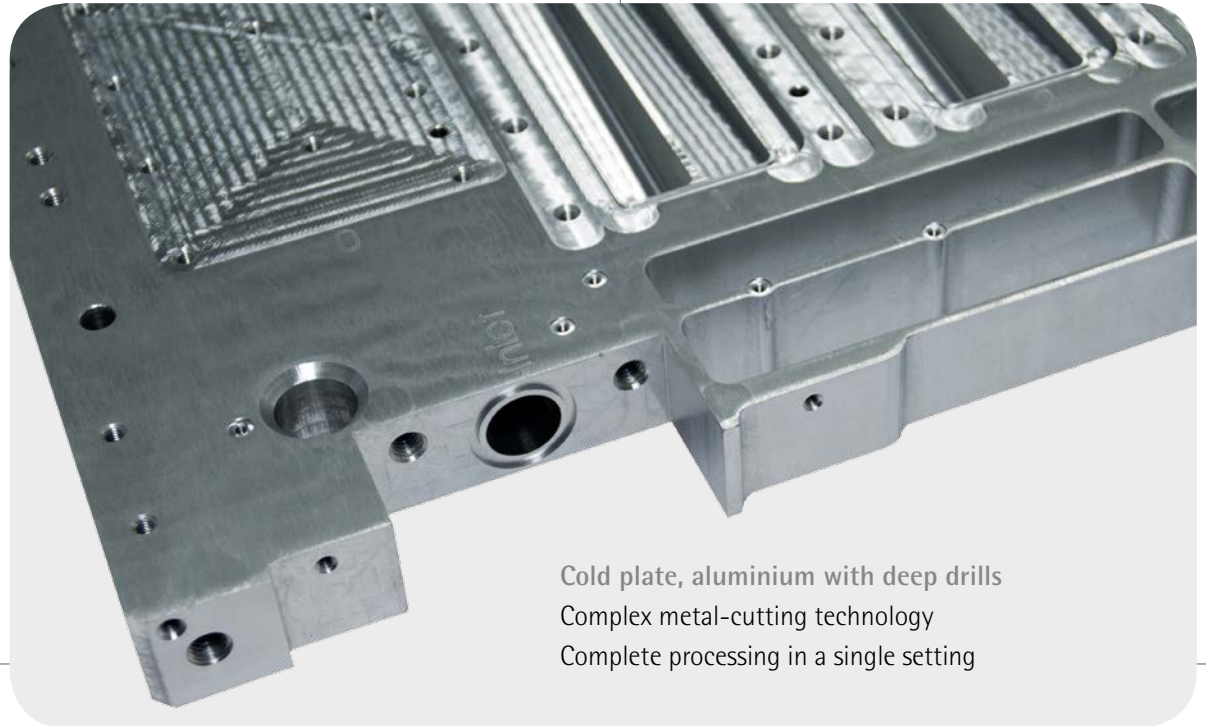
The machining centres allow the application of all conventional metal-cutting technologies such as milling, drilling, countersinking, thread-cutting or sawing. Since the complete processing of a work piece can be achieved in one single setting, small batch sizes or large-scale production of high quality at low cost are possible at HA-BE.

After the milling process, the components and work pieces are cleaned in a washing machine. After all oil and grease traces have been removed, the components and work pieces are ready for further processing. Cost-intensive and time-consuming manual cleaning is no longer necessary.

**HA-BE**



Chassis with heat sink  
Cooling fan, air baffle plate and cable clamp  
Heat sink from drawn profile



Cold plate, aluminium with deep drills  
Complex metal-cutting technology  
Complete processing in a single setting



Aluminium milled part with internal thread  
Manufactured from drawn profile  
Individualisation of part through laser marking

**HA-BE**

[www.habe.de](http://www.habe.de)