SERVICE SHEET · MACHINING

CNC machining of castings

We mill, turn, drill and tap aluminum castings – on 3- and 5-axis machining centers, CNC automatic lathes and conventional machines. In series and as single pieces, at the same plant where the casting is made.

3 centers
machining: 2 × 3-axis and 1 × 5-axis

4 automatic
CNC lathes – series production

5 conventional
machines: 3 lathes and 2 milling machines

on request
heat treatment and strength testing

Fig. 1. Machining equipment: 7 CNC machines and 5 conventional machines.

01 · Machine park

Machine	Quantity	Application
3-axis machining centers	2	precision machining of parts with complex shapes and tight dimensional requirements
5-axis machining center	1	simultaneous multi-plane machining – shorter lead time and higher accuracy for complex parts
CNC automatic lathes	4	fast, precise turning of a wide range of materials with repeatable dimensional accuracy
Conventional lathes	3	smaller batches and single parts
Conventional milling machines	2	non-standard projects and custom orders

02 · Operations and materials

Operations	milling, turning, drilling, tapping, grinding; micro-milling and micro-turning
Turning	shafts, sleeves, threads, bearing seats, hydraulic components and parts with complex geometry
Materials	aluminum, cast iron and alloy steel castings; for turning, also stainless steel and plastics
Production runs	large series as well as one-off orders and prototypes
Industries	automotive, aerospace, machinery, hydraulics, electronics

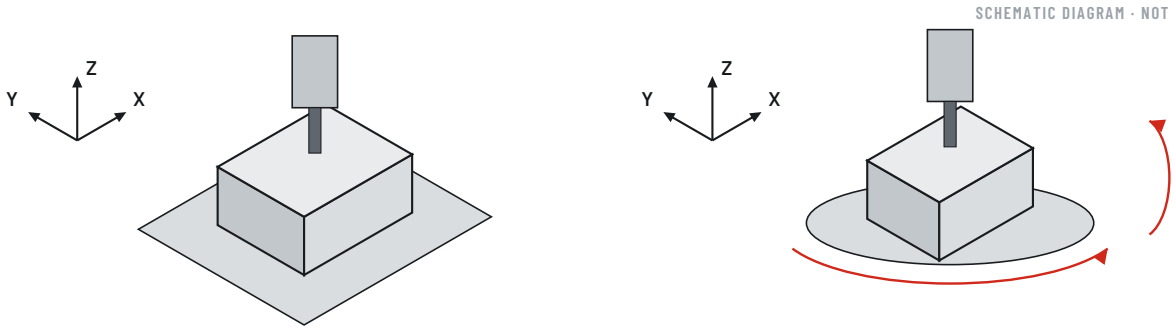

Fig. 2. 3-axis and 5-axis machining centers – machining kinematics (diagram).

03 · Casting and machining under one roof

A casting produced in a permanent mold, sand mold or high-pressure die goes to the machine tools at the same plant, and the design department works with the machining department already at the mold design stage. This makes it easier to plan machining allowances and machining datums. After machining, the part can go on to grinding, polishing and powder coating.

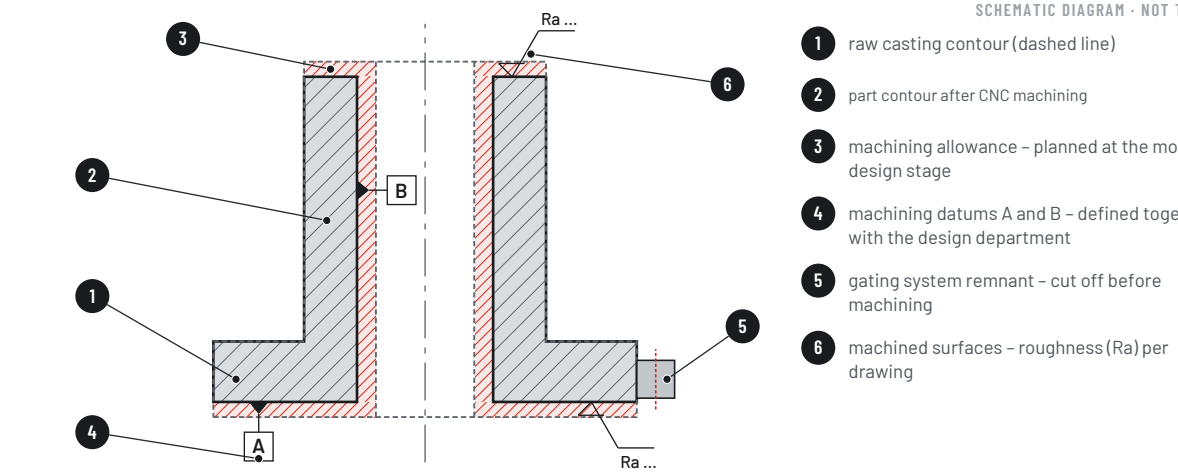

Fig. 3. Machining allowance and machining datums, shown on a flanged bushing.

04 · Testing and heat treatment – on request

We offer strength testing and material structure analysis of castings, which determine, among other things, hardness, load resistance and the physicochemical properties of the alloy. Heat treatment – annealing, hardening and solution treatment – improves mechanical properties, wear resistance, stress resistance and dimensional stability.

What to prepare for a quote

- 2D drawing in PDF with tolerances and roughness, and a 3D model in STEP format
- casting alloy or material, quantity per batch and per year
- information on whether we also produce the casting
- additional requirements: heat treatment, testing, grinding, coating

We will quote the machining – also together with the casting, if it is to be produced in our foundry.

Contact and quotation

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CNC milling and turning, machining of castings – series and one-off production

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