

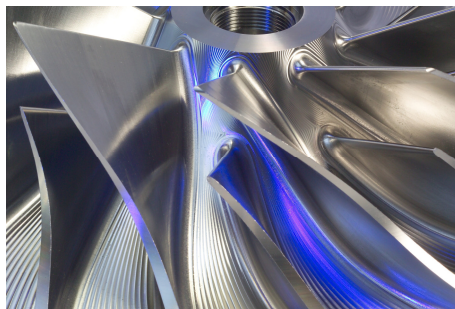
Mechanical Precision Workshop and Prototype Production

Our operation is specialised in the production of prototypes, sub-assemblies, complete systems, single parts and small to medium size batches. Advanced consulting on production issues is also available. In order to carry out your assignments or projects, we use modern CAD-CAM software, together with an equally modern machinery park. Our strengths include 5-axis simultaneous milling, the production of complex components, and the project management for your prototype or sub-assembly.

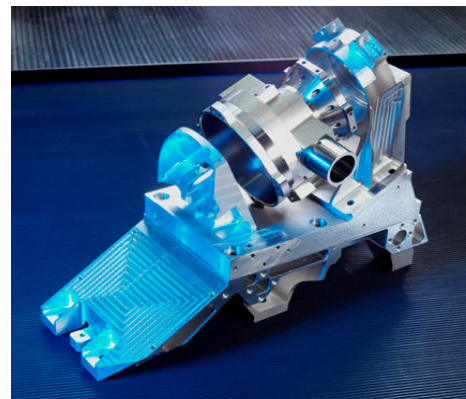
Competencies

Our extensive knowledge of chipping technology and CNC programming arises from our daily work on manifold projects from various branches. Profound process and manufacturing experience of prototypes, single part and batch production facilitate the necessary technology build-up within our production workshop and for the customer. A professional network of specialists within Sulzer Innotec perfectly completes our competence.

Examples



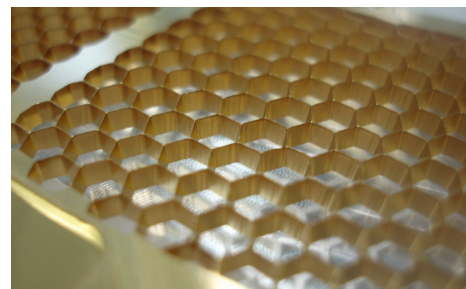
Impeller out of X5CrNiMo13 4
Prototyping, small batch
5-axes simultaneous milling



Satellite instrumentation out of Ti6Al4V/Al 7075
Production consulting, prototyping, small batch
5-axes simultaneous milling, CNC-turning



Gas turbine blade out of TiAl4VGr5
Optimization in manufacturing by integral design,
5-axes simultaneous milling from cylindrical stock material.



Satellite instrumentation out of Fortal 7075
Process evaluation of manufacturing of conical honeycombs with corner radius 0.1 mm, milled with a \varnothing 0.2 mm milling tool.

Continuous Improvement

Our high level manufacturing capabilities are based on a machinery park of the newest generation and on modern CAD-CAM software. The continuous development and education of our employees is a key factor of our success.

Customer Orientation

In cooperation with our customers we provide optimised manufacturing solutions in order to satisfy challenging product requirements according to our customer's expectations. The projects are managed and supervised by our highly committed specialists. Liability and transparency assure the anticipated customer's benefit.

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Our Machinery Park

CAD-CAM Software

Master CAM
Concepts NREC MAX
Unigraphics

5-Axes Simultaneous Milling

1 Maho 800	x 800	y 550	z 600	
2 Hermle C600U	x 600	y 450	z 450	
1 Hermle C800U	x 800	y 600	z 500	
1 Hermle C30	x 650	y 600	z 500	28.000 rpm
2 Hermle C40	x 850	y 700	z 500	18.000 rpm
1 Hermle C50	x 1100	y 1100	z 700	

CNC-Lathes

1 Traub TNA 480 D510 (max), D350 (regular) x 1000
1 Gildemeister CTX 510 D465 x 1000

Wire Erosion Machine

Agie 100 D 300 x 200 x 250

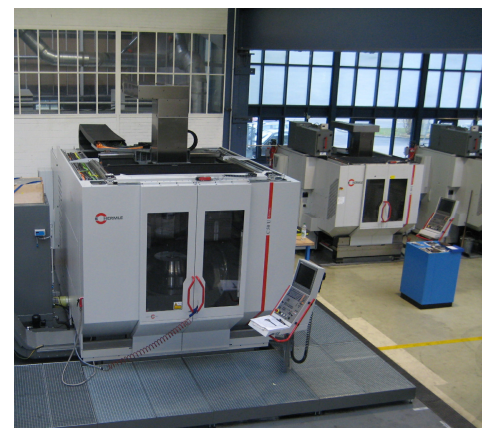
3D-Coordinate Measurements

Tesa Micro hite 3D DCC 440 x 490 x 390
SIP CMM5 710 x 550 x 550

Others

Cylindrical grinding machine
Surface grinding machine
Conventional milling machines and lathes

Hermle C50
The first in Switzerland



Hermle C50U at Sulzer Innotec

Internal Support

Highly qualified experts at Sulzer Innotec are our partners for

- One-stop-shop manufacturing solutions
- Laser welding, laser build-up welding
- Conventional welding and brazing
- Testing and metrology
- Material and surface technology
- Corrosion and corrosion protection, friction and erosion
- Material and failure analysis