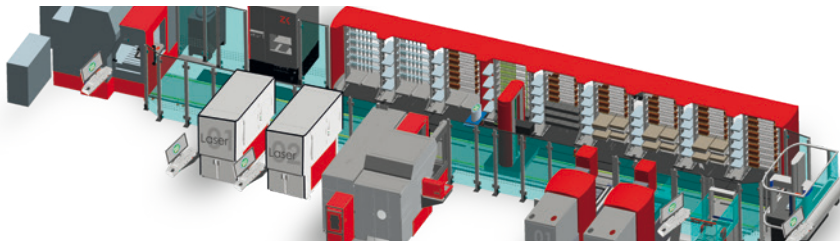


Our list of operating equipment



CAD/CAM

Design

SOLIDWORKS with PDM database

Filling simulations

with shrinkage and warpage

Revers Engineering

Zeiss

CAM

CAMWorks

Chameleon ZK production line robot system

Connected systems

Röders RXP600DSH milling machine
Röders RXP500DS milling machine
2 ZK vertical eroding machines
Loading station
Zeiss Eclipse measuring machine
Transclean washing station
Laser machine

12 magazine cabinets with
1,700 places

112 x HSK50
119 x HSK40
1,385 x Erowa ITS50
20 x Erowa Power Chuck 148
20 x Partool 450x400 pallets
44 x Partool 318x318 pallets

Total length

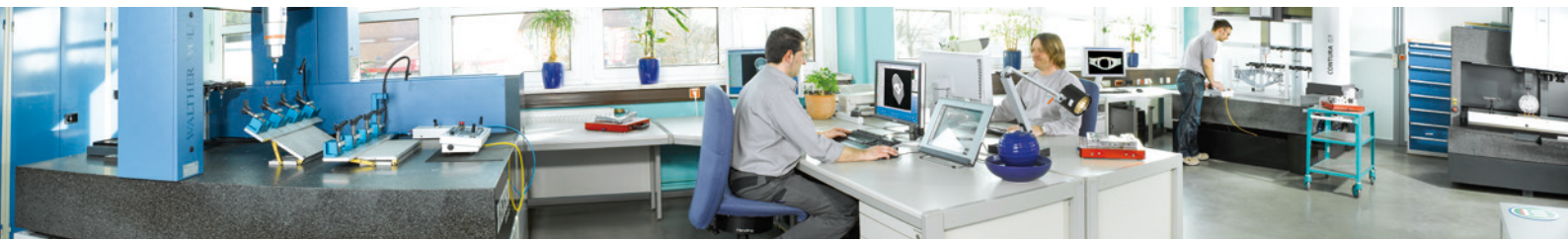
26 m

Production control

Job management ZK
Bidirectional interface with PPS



Our list of operating equipment



Measuring technology

2 x Zeiss Accura II 1000

Zeiss Accura II

Zeiss Eclipse

Zeiss Contourrecord

Software

2 x Vision measurement dynascope

Werth Video-Check-IP-800 3D CNC

Mahr H1

GOM-Systeme

Werth CT scanner

Travel ranges: 1.200mm x 2.400mm x 1.000mm

Automation Chameleon

Contour measuring device

Calypso

Holos

IQS

3 Optiken

Multi-sensor machine with zoom optic,
fixed optic, laser and tactile sensors

Roughness measurement device

TRITOP

ATOS III Triple Scan

CT with work piece changer



Our list of operating equipment



Milling

Röders RXP600DSH

Medium distributor
Connection to Chameleon robot system

Röders RXP500DS

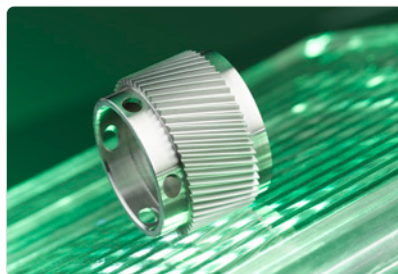
Medium distributor
Connection to Chameleon robot system

Hermle C400

Medium distributor (for ICS and exterior)
with special options for increased precision

Hermle C32U

Medium distributor (for ICS and exterior)
with special options for increased precision



Our list of operating equipment

Electrical discharge machining (EDM)

2x ZK genius 750 NOVA
2x ZK genius 700

1x Sodick ALC400 G

1x Sodick ALC600 G

1x Sodick ALC600 P

Charmilles Drill 20 EDM

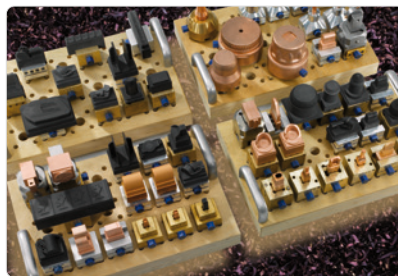
Vertical eroding
Connection to Chameleon robot system

Wire-cut EDM

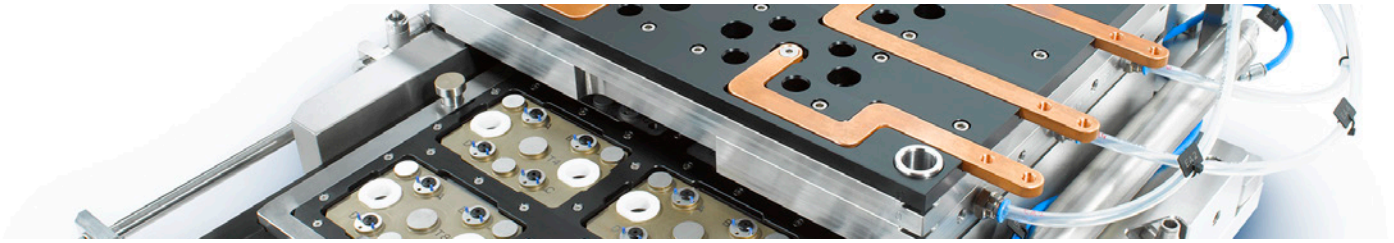
Wire-cut EDM

Wire-cut EDM

Starting bores



Our list of operating equipment



Mould making

Fisa Ultraschallanlage

Cleaning device
for coolant bores

Technical centre
for tool sampling

Arburg 320C (50t)
Arburg 520C (200t)

Boyke Duroplast machine

Okamoto ACC-106CA-iQ
2 x ACC-64CA-iQ

ASYST grinder A 525

with conservation

position-controlled screw
4 hydraulic core pullers
2 pneumatic core pullers
granulate drying and measurement
hotrunner control devices
Kistler internal pressure monitoring

Turntable transfer moulding press

Surface grinding with automatic balancing
of the grinding discs

Surface and profile grinding model JUNG JF 520

