

Staff members: 35

Founded: 1986-05-01

Own tool making: Currently with 7 permanent employees.
A short term increase of the manpower is easily possible (see list of machines).

Tool making list of machines:

	Description:	Type:
	Grinding machine:	Ziersch&Baltrusch FS2560
	Grinding machine:	Ziersch&Baltrusch FS2040
	Grinding machine:	Ziersch&Baltrusch FS6,20 T
	Grinding machine:	ABA FUV 750/50
	Grinding machine:	ABA FFU 1250/60
	CNC Lathe:	Hyundai HIT 8
	Conventional Lathe:	Colchester Master 2500
2x	Wire eroding machine:	Makino EE3
	Wire eroding machine:	Makino EE6
	Wire eroding machine:	Makino SP64
2x	Wire eroding machine:	Makino U53K
	Wire eroding machine:	Fanuc Robocut c600iB
	Vertical eroding machine:	EDNC 43
	Milling machine:	POSmill CE 1000
	Milling machine:	Maho MH 800 E
	HSC milling center:	Exeron HSC500
	Drilling machine:	HGH DNC 35
	Band saw horizontale:	KASTO-HBA 360-600 U
	Band saw vertical:	Pehaka SM-4
	Drilling machine:	Flott TB13ST electronic
	Drilling machine:	Flott SB23St
	Drilling machine:	HKS 32 MG
	Curing oven:	Nabertherm N41/H
	Curing oven:	Nabertherm N 60/A
	Water jet cutter:	MIRCO-Waterjet F4
	Punching part cleaning:	MAFAC Palma
	Tool steel:	1.2379 => intern hardened 1.2842 => intern hardened
	Special grades:	extern hardened

Core competence:

Delicate and difficult stamped components in the thicknesses from sheet metal 0.2 mm to 5.0 mm. Special competence in the production of complicated electronic chassis and electronic components.

Subsequent parts cleaning in-house possible. Technical cleanliness from 200µ to 400µ for metallic particles possible.

Parts packaging in trays, cartons, bulk goods or blistered.

**Punching department
power list of machines:**

	Machine type:		Machine
	Helmerding Press	MDH 400/3100/2	4.000 KN
	Haulick Press	RVD 3000-2500	3.000 KN
	Beutler Press	NOVA NAD2000	2.000 KN
	BRUDERER Press	DWP-AR11-2000	2.000 KN
	Helmerding Press	KDH 200/2100/2	2.000 KN
	Helmerding Press	KDH 160	1.600 KN
2x	Helmerding Press	ST 100/1400/2	1.000 KN
	Haulick Press	RVD 50-800	500 KN
	Helmerding Press	EN 40	400 KN
	EBU Press	H40	400 KN

Measuring and testing equipment: Coordinate measuring machine ZEISS VISTA CNC
Height button MICRO HITE
3D profilometer KEYENCE VR-3200
Digital measuring projector KEYENCE model series IM-6225
Surface finish measurement instrument (Ra, Rz)
Digital dial gauge
Profil projector

Quality manager: Mr. Martin Waidelich

Certifications: ISO 9001:2015
ISO 14001:2015
IATF16949 to MAQMSR

CAD-System: VISI

CAD-Data: DXF, WKF, IGES, STEP, Parasolid

References: Harman Becker
Alpine
Sanmina
H&B Electronic
Wagon
Funk 3D
G. Rau
Schneeberger
Mannhardt
ElringKlinger
R.E.T.
Garmin Corporation
HSM
GWW
Erkert