

DESIGN

Software SolidWorks, 3DQuickPress, Catia FEM Simulation, Siemens NX, Visi 21 with FEM Simulation and board detection data exchange (DWG, DXF, STEP, IGES, Pro E, Odette, PRT)

FORMING TECHNOLOGY

Punching and bending Punching machine ebu STA 400/2500 PSR, 400 t Servo - Eccentric press with roller feed and straightening machine, strip width max. 500 mm and material thickness max. 6 mm, table top max. 2.500 x 1.500
Punching machine ebu, 320 t
Eccentric presses ebu, 200 t
Eccentric presses ebu, 160 t
Eccentric presses ebu, 50 t
Punching machine ebu, 40 t

Test press Hydraulic presses from 30 t bis 250 t

Laser cutting TRUMPF 2D TruLaser 1030 with 2 KW power, workspace 1500 x 3000

Welding Resistance welding machines
WIG/MAG welding

TOOLMAKING, FIXTURE AND PROTOTYPE CONSTRUCTION

Milling 5-ohs-Simultan DMU 50
5-ohs-Simultan DMU 50 eco Mill 3+2 on,
5-ohs-DMU 50 NEW DMG 3+2 on
Cover MAHO DMC 100V hi-dyn
3D- machining center Depo MCFV 1060 with 24-times tool changer and measuring switch, workspace 1.000 x 600 x 600

Turning Mori Seiki CLX 350, max. workpiece Ø 700, max. turning length 1.290

Flat grinding Ziersch ZT 510 with Z-Control Controller
Ziersch ZT48
Jung JF 415

Round grinding Studer S20
Studer S40

Wire eroding Fanuc alpha - 1 iD with wire threading, workspace 600 x 400 x 310
Fanuc alpha 0 iA with wire threading, workspace 320 x 220 x 180
Fanuc alpha - C600 iA with wire threading, workspace 600 x 400 x 310

Start hole drilling machine River 3, workspace 300 x 200 x 200

Sink eroding Pronto 5030 (conv.)

MACHINING TECHNOLOGY

Turn-mill center Mori Seiki NT4200 DCG, max. workpiece Ø 600, max. turning length to 1000

Horizontal milling Mori Seiki NHX 5000, max. workpiece Ø 1000, max. workpiece height 1000
Mori Seiki MH 630/50, max. workpiece Ø 1000, max. workpiece height 1000
Mori Seiki NH 5000/40 DCG, max. workpiece Ø 800, max. workpiece height 1000
Mori Seiki NH 5000/40, max. workpiece Ø 730, max. workpiece height 900
Mori Seiki NH 5000/40 POOL, 5 pool-places, tool magazine with 150 places

Vertical milling Mori Seiki NV 4000/40 DCG, table size 700 x 450, max. table weight 350 kg
Mori Seiki SV 50/50, table size 1320 x 600, max. table weight 1200 kg

Multi-axes-milling Mori Seiki ZT 2500 Y, max. workpiece Ø 360, bar loader up to Ø 72
Mori Seiki ZT 1500Y, max. workpiece Ø 190, max. turning length 450
Mori Seiki ZT 1500YB, max. workpiece Ø 190, max. turning length 680
Traub TNC 65EGY, max. workpiece Ø 184, max. turning length 450

CONTINUATION OF MACHINING TECHNOLOGY

Turning	2x INDEX C200 with FANUC-controler, max. workpiece Ø 140, max. turning length 700 2x INDEX ABC with FANUC-controler, max. workpiece Ø 140, max. turning length 80 Maier ML 32E long lathes Maier MLK32 Hybrid long and short lathes Cycle-controlled lath Weiler E80, Weiler E35 Mori Seiki CL 200 AM Mori Seiki CL 20 B, Mori Seiki DL 151 MC Manurhin KMX16 long lathe
Washing	Washing machine Dürr Ecoclean Universal 81 W

QUALITY MANAGEMENT

Measuring technique	3D-measuring machine Mitutoyo CRYSTA-Apex S574, workspace 505 x 705 x 405 Profile projector Mitutoyo, workspace 150 x 50 x 70 3D-coordinate measuring machine Mitutoyo Euro C 776 incl. Software MCosmos Contour measuring machine Mitutoyo Contracer CV 3000 incl. Software Formpak Surface measuring instrument Mitutoyo Surftest SJ 401
Certification	IATF 16949:2016, DIN EN ISO 9001:2015 und ISO 14001:2004