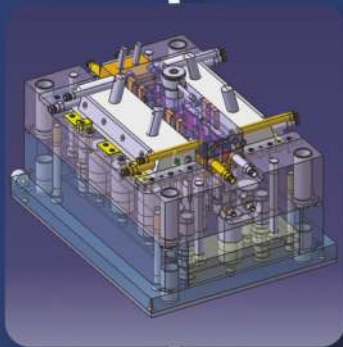


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MOULDING THE CHALLENGE

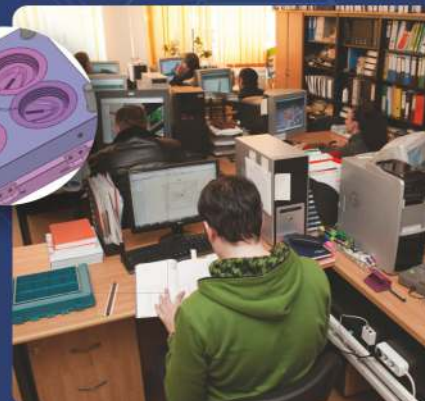
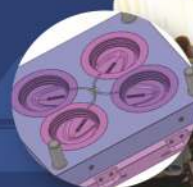


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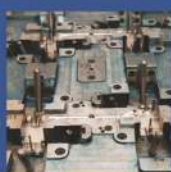
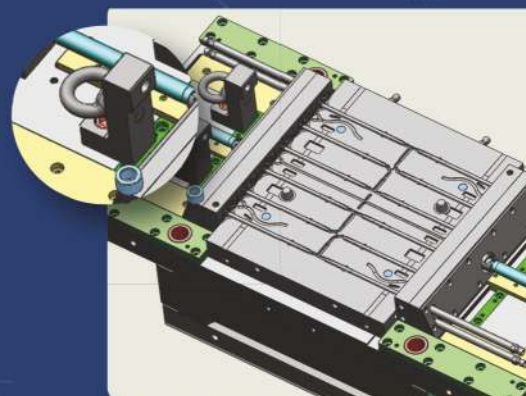
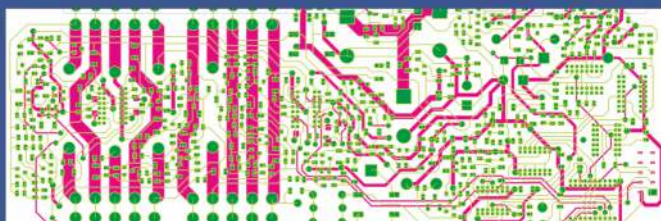
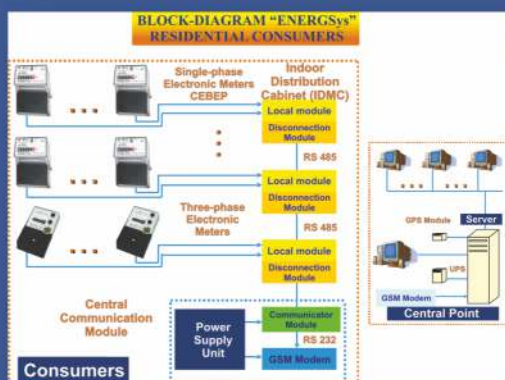
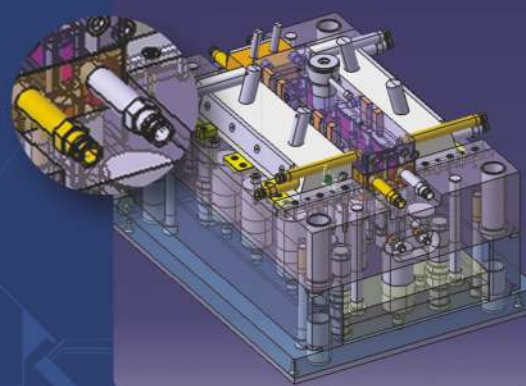
Fields of activity

Parts of metall and plastic
Subassemblies and final products
Plastic injection, stamping and progressive tools
Tools and testing devices
Printed Circuit Boards (PCB)
Diagrams and layouts
Automation
Software programming



Equipment

CATIA V5
SOLIDWORKS
AUTOCAD
DELCAM
CADSTAR
ORCAD



MOULDS AND TOOL SHOP

Fields of activity

Plastic injection moulds
Overmoulding
Insert moulds
Hot runner moulds
Stamping tools
Metal forming tools
Progressive tools
Tools and testing devices

Equipment

3 Axis machining center MAZAK NEXUS 510C-II, SABRE 1000, ARROW 500 and CB FERRARI A17
4 Axis machining center CB FERRARI S82 and CB FERRARI A17
5 Axis machining center FIDIA DIGIT 218
Electroerosion machines with wire electrode ROBOFIL 310
Electroerosion machines with massive electrode ROBOFORM 30 and ONA NX3
NC Profile grinding machines
Jig grinding, laying-out and drilling machines
Milling machines with digital display of coordinates
High speed hole drilling DB-703

Steels

For plastic injection moulds:
1.2311; 1.2312; 1.2343; 1.2344; 1.3343; 1.3344; 1.2764; 1.2767; Toolox 33, Toolox 44, W85

For stamping:
1.2080, 1.2379, C120, W2714, High-speed tool steel

Standards

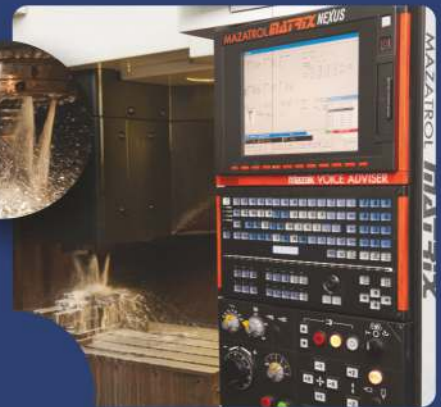
CUMSA, DME, HASCO, MEUSBURGER, PEDROTTI, RABOURDIN, STÄUBLI, STRACK

Hot runner

DME, HASCO, MOLD-MASTER, THERMOPLAY

Capacity

Dimensions of a mould max. 1,500x1,000x1,000 mm
Dimensions of a mould part max. 1,500x1,000x600 mm
Weight of a mould part max. 5 tons
Dimensions of an injected item max. 800x600x500 mm
Injection weight max. 4,200 g



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PLASTIC INJECTION MOULDING

Fields of activity

Plastic injection parts for automotive, electric and electronic devices, home and garden appliances, LED-lights, measuring and control devices, POP and POS, technical components

Plastic insert injection for sensors and electricity

Overmoulding for automotive and hand tools



Equipment

Injection Moulding Machines
ENGEL
FERROMATIK
BATTENFELD

Injection Moulding Materials

Acrylonitrile butadiene styrene	ABS
Polycarbonate	PC
Polycarbonate with fiber-glass	PC with fiber-glass
Polyamide	PA 6.0
Polyamide	PA 6.6
Polyamide with fiber-glass	PA with fiber-glass
Polypropylene	PP
Polyethylene	PE
Polystyrene	PS
Polyoxymethylene	POM
Polymethyl methacrilate	PMMA
Polyphenylene oxide	PPO
Polyphenylene sulphide	PPS
Polybutylene terephthalate	PBT
Thermoplastic elastomers	TPE



Capacity

250 kN till 10,000 kN clamping force
Injection weight till 4,200 g



ELECTROMAGNETICA

PCB ASSEMBLING

Fields of activity

PCB Assembling for automotive, electric and electronic devices, telecommunications, home and garden appliances, LED-lights, measuring and control devices



Equipment

Automatic line SAMSUNG SMD
X-ray inspection machine NORDSON XD7600NT
Wave soldering machine ERSA 500N
Machine for cutting PCB YS-805C
Bosch and Black&Decker devices
Soldering stations ERSA and WELLER
Automatic optical inspection SONY SI-V200
Tester EKT



Capacity

Board size 80x50 mm till 457x356 mm
Board weight max. 1,000 g
Board thickness 0.8-4 mm
Height of components max. 7 mm



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SHEET METAL PROCESSING

Fields of activity

Switch cabinets
Housings and Frames
Cabinets, Racks
Hangers
Large range of mechanical parts



Equipment

Punching machines TRUMPF TRUMATIC 200R
Bending machine TRUMPF TRUMABEND V85S
Bending machine TRUMPF TRUMABEND V50
Guillotine shears TRUMPF TRUMACUT E1030
TOX Clinching



Materials

Steel sheet
Aluminum sheet
Stainless steel sheet

Capacity

Sheet thickness (Steel and Aluminum) till 2.5 mm
Sheet thickness (Stainless steel) till 1.5 mm
Dimensions sheet plate 2,500x1,250 mm
Sheet weight max. 150 Kg



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METAL FORMING

Fields of activity

Stamping, bending, drawn and pressed parts



Equipment

Automatic Blanking Press SCHAAL SEP 40
Automatic Stamping Press BRUDERER BSTA 180

Materials

Aluminum
Copper
Stainless steel
Brass



Capacity

Strip thickness till 1.5 mm
Strip width 8-160 mm
Dimensions of the tool max. 690x610x420 mm
Compressive force till 400 kN



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Fields of activity

Surface preparing
Powder coating metal
Pad printing
Laser printing



Equipment

Alkaline treatment washing
Powder coating equipment WAGNER ESB, TIMELECTROCOLOR and PRIMASPRINT
Pad printing equipment TECA-PRINT TPX 350, TPE 100 and TPX 100
Fiber Laser Marking System VIDEOJET 7310 20W



Capacity

Dimensions powder coating max. 2,500x1,500x1,000 mm
Weight of parts for powder coating max. 50 Kg
Dimensions pad printing max. 200x150 mm
Capacity Laser marking 20W



MEASUREMENT & CONTROL

Fields of activity

Measurements
Verifying
Testing
Control



Equipment

Coordinate measuring machine DEA GLOBAL G/S 09-15-08
Tester EKT
Testing stand MEH
Self-made Tester for different application



Capacity

Coordinate measuring X=900mm, Y=1,500 mm, Z=800 mm
Weight of parts for coordinate measuring max.1,300 Kg



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ASSEMBLING

Fields of activity

Manual Assembling
Automatic Assembling

Equipment

Robot Assembling Line KAWASAKI FS03M
Resin Metering and Dispensing System SCHEUGENPFLUG KWS
Ultrasonic Welding Machines BRANSON 900 and HC 333
Cutting and stripping system KOMAX KAPPA 255



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