



SPECIAL COMPONENTS

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	NOTES	DIMENSIONS/WEIGHT/ THICKNESS	YEARLY QUANTITY	MATERIALS	CERTIFICATES	FIELDS OF EXPERIENCE
MOULDS AND DIES	Plastic injection moulds, Prototype mould, M.I.M. - moulds, Sheetmetal dies	max 600x800x500 mm			ISO 9001	Automotive, electronic, medical instruments (surgical, orthopedics), oneway medicine dispenser, home and building systems, gardentools and systems, furniture and lighting industry, sanitary systems, heating and cooling systems
FOUNDRY	Automatic and semi automatic	min 1 Kg - max 60 Kg min 80 Kg - max 400 Kg	min 500 - 5000 pcs. min 50/100 - 500 pcs.	Cast iron EN-GJL (UNI EN 1561) Ductile iron EN-GJS (UNI EN 1563) SiMo cast iron EN-GJS-SiMo (UNI EN 16124)	ISO 9001-2015 PED 2014/68/UE	Marine engines, powertrains and drives, gearboxes, pumps and valves, agricultural machinest
ALUMINIUM PRESSURE DIE- CASTING	Cold chamber	Presses with 200 t - max 420 t; Wall thickness > 3 gr - max 2 kg weight	min 5.000/10.000 pcs. max 50.000/200.000 pcs.	EN AB 43400; EN AB 43500; EN AB 44100; EN AB 44300; EN AB 46100; EN AB 47100	ISO 9001-2008	Automotive, fotografic systems, white goods, electronic, electrical systems, furniture and lighting industry, hydraulic components, sanitary systems, heating and cooling systems
M.I.M.	Metal injection moulding	Weight: > 1 gr - max 300 gr; Wall thickness: min 0,2 mm - max 15 mm, Lenght: min 5 mm - max 150 mm	min 3.000 pcs.	Alloyed steels, stainless steels, titan (medical also), bronze, copper	ISO 9001-2008	Medical industry, garden tools, white goods, electronic, electrical systems, hydraulic components, sanitary systems, heating and cooling systems
SHEET METAL STAMPING AND DEEP DRAWING	Stamping, cutting, forming, deep drawing	Mech. presses: min. 30 t - max 630 t; Hydraulic presses min 30 t - max 500 t; Thickness: min 0,5 mm - max 3,5 mm	min. 50.000 pcs min 500 pcs. - max 100.000 pcs.	Sheets: ferrous, non-ferrous, stainless steel, aluminium	ISO 9001 IATF 16949:2016	White goods, automotive, pumps and compressors, medical devices, furniture and lighting industry, heating and cooling systems
WIRE BENDING SPRINGS	Wire and strip springs, torsion and double torsion springs; bent wire springs	Ø min. 0,3mm - max 10mm Ø min. 0,3mm - max 2,5mm; thickness max 4 mm	min. 50.000 pcs. min. 50.000 pcs.	Iron, steel, stainless steel, aluminium, copper, brass, springsteels	IATF 16949:2016	Automotive, white goods, garden equipments
WIRING HARNESSSES	Cables, cable harness, assemblies		min 5 pcs. - 100.000 pcs.	Contact and eletric cables	ISO 9001-2008	White goods, electronic, electrical systems, automotive, motorbike industry, energy, agricultural machines and systems

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PLASTIC INJECTION MOULDING	BI- and multicomponent; with bi-injection, Gas-/ Air assisted with inserts, with reinforced materials and foams; thermoset	Horizontal injection machines: min 25 t - max 1500 t; Bi-injections moulding machines, horizontal: min. 100 t - max 550 t, vertical: min 250 t - max 500 t; 3-injections vertical moulding machines: min 250 t - max 400 t; 4-injection vertical moulding machine: 350 t; Part weights: min 0,15 gr - max 3 kg Thermoset injection machines: min 190 t – max 380 t; Parts weight: min 50 gr - max 4 kg	min 1.000 pcs. - 15.000.000 pcs. min. 150-200 pcs. max 20.000 pcs.	Thermoplastic-and technical polymers; ABS; PBT; PMMA; Polyamide; Polycarbonat; Polurethan; Polypropylen, Polifenisulfone; Thermoset materials, BMC thermoset, phenolic resins	ISO 9001; ISO/TS 16949:2009; OHSAS 18001:2007; UL Standard ISO/TS horizontal min 25 ton - max 500 t ISO/TS horizontal bi-injection min 100 t - max 500 t ISO/TS vertical min 45 ton - max 110 t	Automotive; motorbike industry; fashion-, shoes- and sport accessories; medical devices, oneway and medicine dispenser; gardentools and systems; pumps and compressors; furnitures and lighting industry; white goods; electronic; electrical systems; sanitary systems; heating and cooling systems.
SHEET METAL WORKING	Laser cutting, bending, punching, calendering, welding	min 1 mm - max 3 mm	50 - 100 - 500 - 1.000 pcs. min 2 pcs.	Sheets: Steel, stainless steel, iron, aluminium		Components for food and grape wine processing machines, machine tool industry, dosage and packaging machines; food-, beverage and tobacco technology
MECHANICAL MACHINING	Milling, horizontal turning; turning between centres; vertical turning	min working dim.: 830x490x490 mm; max working dim.: 12000x1500x2500 mm; horizontal turning max Ø800x4.000 mm; turning between centers: Ø800x3.000 mm; vertical turning: min Ø100x25 mm, max Ø2.400x1.000 mm;	1 - 2 - 3 - 4 - 5 - 10 - 50 pcs.: min 10 pcs. - max 1.000 pcs.	Steel; alloyed steels; high-strength steels; stainless steels, titan, inconel, aluminium, bronze, copper, cast iron, plastic materials	ISO 9001	Aviation and airspace industry, shipbuilding, components for food and grape wine processing technology, wind energy, medical devices, pumps and compressors, motorbike industry, furniture and lighting industry, hydraulic components, sanitary systems, heating and cooling systems, steel mills technology, machine tools industry, chemical plants
TURNING	Turning with autom. bar feeding; cnc-turning and milling centres from bars; turning with sliding head; assemblies of groups; turning with Willemin Macodel and TORNOS lathes	Turning with sliding head: min Ø2 mm - max Ø20 mm x 1.000 mm, min Ø4 mm - max Ø32 mm x 2.500 mm; CNC turning Ø2 mm - max Ø42 mm x 300 mm; CNC turning min Ø4 mm - max Ø80 mm x 100 mm	min 50 pcs. - max 200.000 pcs.	Automatic steels; alloyed steels; high-strength steels; special steels; tempered steels, stainless steels, titan (medical also), precious metals (dental alloys), inconel, aluminium, silver, brass, bronze, copper, carbon	ISO 9001 ISO 14001:2004	Aviation and airspace, medical instruments (surgical, orthopedics), dental implants, orthopaedics and mouth, jaw and face implants/ instruments, automotive, white goods, machine tools, garden tools and systems, door automation, foto camera systems, furniture and lighting industry, hydraulic components, sanitary systems, heating and cooling systems