





Debak A.S. - established in 1992- is a company specialized in injection molding of thermosetting & thermoplastics engineering parts.

The production plant is located on a land of **12.000 m²** at Denizli Industrial Zone in Western Turkey.



Debak, whose initial business was production of thermoset pan & pot handles for kitchenware industry; today became a reliable partner for leading companies of automotive, whiteware, electricity and machinery industries owing to its technological infrastructure, continuous improvement approach and customer-oriented view.

Production plant is equipped with KRAUSS MAFFEI, ARBURG & ENGEL injection molding machines with clamping forces ranging from 800 to 3000 kN.

Toolings of produced parts are designed and constructed by a team qualified in CAD - CAM programs and expertized in operating CNC tool shop machinery. The in-house tool shop also allows a high flexibility in tooling repairs & periodical maintenances.

Debak supports its production processes with value adding post operations such as heat treatment, deflashing, lapping, assembly and decorative works in order to fulfill customer expectations.

Tool Design & Construction

CNC Milling Machines – DMG Mori Seiki
CNC Lathe – MAZAK
Laser Welding- QR LASER
Electro Erosion- CHARMILLES
Wire Cutting- CHARMILLES
Surface Grinding – KRASNY BORETS
Rapid Drilling Machine
Universal Milling & Lathe

Production

Thermoset Injection
Thermoset Injection – Compression
Thermoset Compression
Thermoplastic Injection
Insert Molding / Overmoulding

COMPETENCES

Post Operative Processes

Post Curing (heat treatment)
Deflashing
Lapping & Ultrasonic Cleaning
Magnetization
Assembly (Metallic inserts, components etc.)





PRODUCTION TECHNOLOGIES

Technology	Brands	Range
Thermoset Injection	Krauss Maffei-Battenfeld	800 kN - 3000 kN
Thermoset Vertical Injection	Engel	1600 kN
BMC & SMC Polyester Injection	Krauss maffei	1600 kN - 3000 kN
Thermoplastics Injection	Arburg	500 kN - 2000 kN
Thermoplastics Vertical (Rotary) Injection	Engel	1600 kN
LSR (Liquid Silicone Rubber) Injection	Arburg	1000 kN
BMC / SMC Polyester Compression		750 kN - 4000 kN





AUTOMOTIVE COMPONENTS

Automotive Industry products are starter motor components, sensor parts, brake system parts, shock absorber parts, pump and thermostat parts from thermoset (PF) and/or thermoplastics (PA46, PA66, PEEK, PPS etc...) materials

Overmoulding , Insert Moulding, Sliding Tool Technologies are expertized for these products.



ELECTRICITY & MACHINERY COMPONENTS

Electricity & Machinery Industry products are Contactor Parts for Low & Medium Voltage, motor housings, gas meter parts , pump parts, bobbins for copperwire & textile industry from thermoset (PF, BMC) and/or thermoplastics (PA66, PEEK vb...) materials.



HOUSEHOLD APPLIANCES COMPONENTS

Whitegoods & Household Appliances Industry products are pan /pot /pressure cooker handles, oven knobs & grips, iron heat shields from thermoset and/or thermoplastics



OVERMOULDED COMPONENTS

Thermoset (PF) / thermoplastics (PA 66, PEEK, PPS) materials are overmoulded wt metallic components or magnets (magnetized / non magnetized NdFeB).

Among such projects are;

Pump parts, clutch master pistons , lamination stacks , rotors and switch covers for Automotive Industry.

Handles for Kitchenware Industry

Magnetic coupling parts and brass overmoulded shafts for Machinery Industry

QUALITY LABORATORY

Dimensional Inspections;

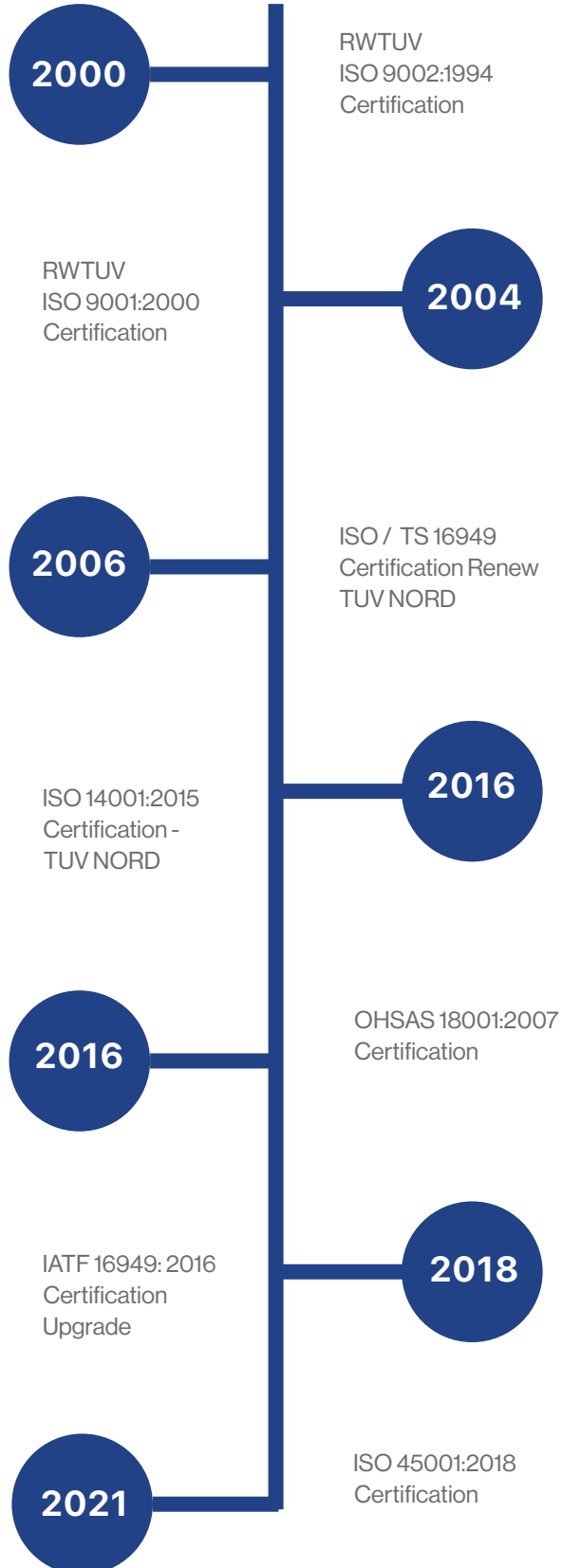
- Zeiss CMM (3D Measurement)
- Mitutoyo CNC Visio Measuring
- PLC Aided Measuring Automation



Tests & Analysis;

- Thermomechanical Analyser (TMA) (Mettler Toledo)
- Raw Material Moisture Testing (Mettler Toledo)
- Hardness Testing (Zwick)
- Surface Roughness Testing
- Technical Cleanliness Testing (VDA-19, ISO-16232)
- Flexural Strength Test
- Crack Detection Test
- Color Measurement
- Leakage Tests

QUALITY SYSTEM



QUALITY MANAGEMENT CERTIFICATIONS



IATF 16949:2016



ISO 14001:2015



ISO 45001:2018