




Automotive Parts


Debak A.S. - founded in 1992 at Denizli-TR- is a company specialized in injection molding of thermosetting & thermoplastics engineering parts. In year 2015, the company moved to its new factory located on a land of 12.000 m2 at Denizli Industrial Zone. 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 European made (BATTENFELD, 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 UNIGRAPHICS 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.

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POWERTRAIN SYSTEM PARTS

STARTER MOTOR PARTS

Thermoset components achieve heat resistance, excellent dimensional stability, high reliability and also weight reduction for conventional starter motors and also for new generation e- mobility components.

Debak is expertized on injection molding of such parts from various material grades with multi cavity tools. Overmoulding, insert molding, sliding tools, multi plate tools are among its technical capabilities.



PHENOLIC BRUSH HOLDERS



PHENOLIC CONTACT SHAFTS



OTHER THERMOPLASTIC COMPONENTS [lever rests, caps etc..]



PHENOLIC SWITCH COVERS



THERMAL SYSTEM PARTS

PUMP COMPONENTS, THERMOSTAT HOUSINGS

NdFeB magnet overmoulded PPS pump components provides, high efficiency, compact construction and reliability for circulation pumps.



Phenolic components offer weight and cost savings, and improved cooling efficiency for automotive cooling systems.



PULLEYS

PHENOLIC PULLEYS

Phenolic pulleys offers weight saving and eliminates corrosion with good dynamical properties, very low creep, extra wear resistance.



BOOSTERS & BRAKE PISTONS

PHENOLIC BOOSTERS & BRAKE PISTONS

Phenolic booster pistons provides mechanical resistance within tight tolerances. Their high quality ensures the braking security of million vehicles since more than many decades



CLUTCH PARTS

PHENOLIC CLUTCH MASTER PISTONS

The transmission components such as pistons where the dimensional precision and stability are essential, phenolic molding ensures high sliding and sealing properties by means of excellent surface quality obtained by molding.



PEEK COMPONENTS

PEEK (POLYETHERETHERKETONE) COMPONENTS

Debak provides solutions for water pump parts, pulleys and shafts from PEEK polymers which achieve high temperature performance, high wear resistance, resistance to harsh chemicals, mechanical strenght and dimensional stability,



BIPOLAR PLATES

BMC (Bulk Molding Compound) BIPOLAR PLATES FOR FUEL CELLS

Bipolar plate is an important component in fuel cell technologies.



DEBAK offers production of bipolar plates from conductive BMC materials.

Main Advantages of BMC Bipolar Plate are :

- Design Flexibility due to moldability.
- Reduced secondary operations.
- Longer lifetime due to excellent Corrosion Resistance.
- Lower bipolar assembly cost.
- Dimensional Stability.

E- MOBILITY SYSTEM PARTS

INTERCONNECTORS



EPOXY / BMC COATED LAMINATION STACKS



EPOXY COATED PCBs

