

Manufacture of composite articles as per customer requirements

Composite articles for transport- and farm machine building, motor-vehicle industry



Manufacture of finished composite products and furniture for pilot and batch production of fiberglass-filled articles for transport and farm machine building.

Manufacturing capabilities: production of composite articles by the following methods:

- contact molding
- vacuum infusion
- RTM, Light-RTM
- compression molding -RFI
- spraying
- winding

Manufacture of large-sized process dies and workpieces for manufacture of articles out of polymer composite materials (7000*2500*800 mm) using a **5-axes CNC machine**.

Use of composite articles: structural parts for various transport building industries as interior and exterior elements or dies and workpieces for manufacture thereof.

Advantages of glass-fiber reinforced plastics in production of structural parts:

- ✓ **Low weight.** Specific weight of glass-fiber reinforced plastics is averagely 5-6 times less than that of all ferrous metals and majority of nonferrous metals; it is 1.5 times less than that of aluminum. Saving in weight of a vehicle leads to reduced consumption of fuel and augmented useful load.
- ✓ **Environmental friendliness.** Reduced consumption of fuel and, as a result, reduced harmful emissions (CO₂) into the environment.
- ✓ **Dielectric properties.** Glass-fiber reinforced plastics exhibit excellent electro-insulating properties with respect to alternate and direct currents.
- ✓ **High resistance to corrosion.** Glass-fiber reinforced plastics exhibit high resistance to all basic types of corrosion: to gases and liquids (as well as to chemically aggressive media), to galvanic- and biocorrosion.
- ✓ **Aesthetic appearance.** When manufacturing a finished product, glazed or matt surface of any color is easily achievable.
- ✓ **Good mechanical behaviour.** Glass-fiber reinforced plastics exhibit good physical and mechanical behavior at low specific weight.
- ✓ **Thermal insulating properties.** Glass-fiber reinforced plastics refer to low-conductivity materials.

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