

## 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 (CO<sub>2</sub>) 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.

STEKLONIT JSC Tramvaynaya 15, Ufa, 450027. Tel.: +7 347 293-76-00

Moscow office Profsoyuznaya 23, Moscow, 117997. Tel.: 8 800 500 07 22.

Tverstekloplastik, a branch of STEKLONIT JSC Pashi Savelievoj 45, Tver, 170039.

Tel.: +7 482 255-35-52

Web-site: [www.steklonit.com](http://www.steklonit.com), e-mail: [info@steklonit.com](mailto:info@steklonit.com)