



TECHNOBELL
TECHNOLOGY

GRP TANKS

GRP tanks production equipment

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The GRP tank production equipment is designed to produce GRP tanks, both horizontal and vertical, for below- and above-ground applications, from GRP pipes produced on the CFW production line.



Producing the GRP tank:

Tanks are made from GRP pipes produced on a continuous filament winding (CFW) production line and reinforced with parallel and cross-filament winding of roving impregnated with resin.

First the tank cylinder (GRP pipe) is transferred to the motorised supports and it is assembled with end caps using internal joining rings. End-caps are then fixed by applying roving impregnated with resin.

The semiellipsoidal and flat GRP end-caps are hand made using appropriate moulds, resin, chopped glass and woven rovings.

The reinforcement process is then carried out on a dedicated winding machine and performed with synchronisation of tank rotation speeds and a horizontally moving carriage delivering raw materials. The process of laminate build-up can be easily performed in compliance with the appropriate design.

Any tank length between 2-12 m can be accommodated on the tank filament winding machine. The machine is computer controlled; all operations of the dosing system can be easily monitored.

At the end of the self-curing process, the tank is ready for installation of any required connectors and/or fittings.

Main characteristics of GRP tanks:

Tank diameter and length:

Diameter: 1600-3000 mm
Length: 2000-12000 mm
Volume: 6-85 m³

Machine dimensions:

Length: 18 m
Width: 5 m
Height: 2,8 m

Utilities requirements:

Max. installed power: 30 kW

Production capacity:

2-5 tanks
(per day, depending on tank diameter and accessories)

General layout

