



General

Tongyi Power has over 15 years of experience in manufacturing FRP Products (fiberglass reinforced polymer rod) and has been exporting to customers worldwide.

FRP Rebar produced by our company has applied the **pultrusion process technology**, of which high-quality raw materials of reinforced glass fibers and epoxy resin are used.

The FRP Rebars are designed and manufactured mainly for applications of construction instead of steel rebar with a variety of cross section diameters ranging from 3mm to 32mm at any length at option.

Properties

Light Weight
 High Strength
 High Stiffness
 Good Corrosion resistance
 Flame Resistant
 Excellent Fatigue Resistance
 Easy Cutting and processing
 Excellent electrical insulation
 Non-magnetic
 Transparent to radio frequency
 Non-conductive thermally & electrical



Product Specification

Diameter-mm	mm	6	9	12	16	19	25	25	ASTM
Weight	g/m	52	118	209	372	524	702	908	Standard
Glass Fiber	%	73	73	73	73	73	73	73	D2584
Density	g/m ³	1.85	1.85	1.85	1.85	1.85	1.85	1.85	D 792
Tensile Strength	Mpa	825	760	690	655	620	586	550	D 638
Tensile Modulus	Gpa	40	40	40	40	40	40	40	D 638
Compressive	Mpa	750	710	630	630	630	610	610	D 695
Flexural Strength	Mpa	810	750	680	680	660	660	660	D 790
Flexural Modulus	Gpa	40	40	40	40	40	40	40	D 790
Shear Strength	Mpa	160	160	160	160	160	160	160	D3914
Longitudinal CTE	10 ⁻⁶ /°C	10	10	10	10	10	10	10	D 696
Transverse CTE	10 ⁻⁶ /°C	10	10	10	10	10	10	10	D 696
Water Absorption	%	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5	D 570

Glossary: CET – Coefficient of Thermal Expansion

Standards: ASTM, IEC, GB/T and Enterprise Standards

Note: Diameter ranges from 3mm to 32mm, different finish types are available.

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Applications

Concrete Exposed to De-Icing Salts

Bridge decks, median barriers, approach slabs, railroad crossings, salt storage facilities.

Concrete Exposed to Marine Salts

Seawalls, aquaculture operations, floating marine docks, buildings & structures near waterfronts

Tunneling and Mining Applications

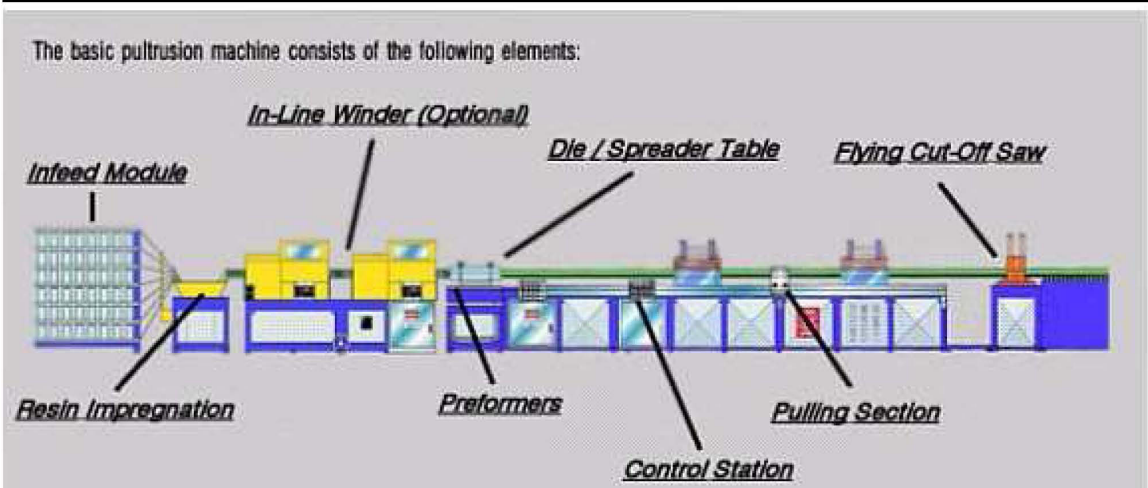
Subway, Rock nails, Electrolytic and ore extraction tanks

Electromagnetic Applications

MRI rooms in hospitals, seismic stations, telecommunication towers, Airport Radio and compass calibration pads Concrete near high voltage cables, transformers & substations.



Pultrusion Process



For more knowledge of pultrusion process, please read our online articles accordingly.

FRP Rod | ECR Rod | FRP Tube | FRP Rebar | FRP Thread | FRP Profile

