

Precision Thermal Solutions



OTA Fiberglass designs and manufactures high-performance industrial heating solutions for controlled, safe, and efficient thermal management. Our product range serves critical industrial processes where temperature accuracy, reliability, and durability are essential.

All products are engineered for compatibility with the TB Future T30 Smart Temperature Controller, enabling intelligent temperature regulation, programmable heating cycles, and enhanced operational safety.

TB Future T30 – Smart Temperature Controller

Description:

An industrial-grade smart controller designed to operate and protect electric heating systems. The T30 converts sensor input into precise digital control, allowing accurate temperature maintenance and programmable heating profiles.

Key Features:

- Smart PID temperature control
- Multi-stage programmable heating curves (up to 6 stages)
- Countdown timer with automatic shutoff
- Over-temperature and over-voltage protection
- Lockable parameter settings
- Industrial IP54-rated enclosure

Typical Applications:

- Heating blankets
- Drum and IBC heaters
- Battery and gas cylinder heaters
- Process and trace heating systems



Industrial Heating Blankets

Description:

Industrial heating blankets designed for uniform surface heating in temperature-sensitive applications. The construction ensures even heat distribution while minimizing thermal loss.

Construction:

- Silicone-coated outer layer
- Integrated heating elements
- 7 mm fiberglass insulation

Applications:

- Composite and epoxy curing
- Rotor blade and structural repairs
- Aerospace, marine, and wind energy components



Standard Drum Heaters (0–200°C)

Product Type: Drum Heating Jackets / Bands

Description:

Flexible drum heaters for maintaining or raising the temperature of materials stored in drums in non-hazardous environments.

Features:

- Silicone jacket or band construction
- Fiberglass insulation for energy efficiency
- External temperature control via T30

Applications:

- Oils, waxes, resins, adhesives
- Food-grade and pharmaceutical materials





Standard Drum Heaters (0–200°C)

Product Type: Explosion-Proof Drum Heating Jackets

Description:

Certified drum heaters for use in hazardous environments where explosive gases or combustible dust may be present.

Certifications & Safety

- ATEX Directive 2014/34/EU
- Suitable for Zones 1, 2, 21, and 22
- Anti-static, flame-retardant construction

Typical Applications

- Oil and gas processing
- Chemical and solvent storage
- Hazardous material handling



IBC Heating Systems

Product Type: IBC Heating Jackets & Base Heaters

Description:

Heating solutions designed for Intermediate Bulk Containers, providing controlled surface heating for large-volume materials.

Configurations

- Sidewall heating jackets
- Base heaters
- Insulated top covers

Applications

- Adhesives and coatings
- Food ingredients
- Chemical processing materials



Concrete Curing Blankets

Product Type: Construction Heating Blankets

Description:

Thermal blankets engineered to support concrete curing in cold weather conditions by maintaining consistent surface temperatures.

Applications

- Infrastructure projects
- Precast and poured concrete works
- Winter construction environments



Heating Tapes

Product Type: Trace Heating

Description:

Flexible heating tapes for maintaining temperature along pipes, valves, and equipment surfaces.

Available Variants

- Silicone rubber insulation (0–200°C)
- Glass silk insulation (0–400°C)
- Silicate fibre insulation (0–900°C)

Typical Applications

- Pipe and valve heating
- Chemical processing
- Fluid viscosity maintenance



Immersion Heaters

Product Type: Direct Liquid Heating

Description:

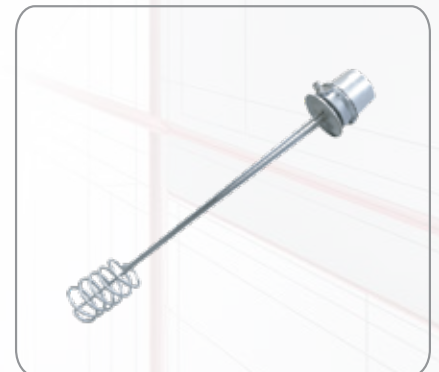
Electric immersion heaters designed for direct heating of liquids in tanks, vessels, and containers.

Configurations

- Screw-plug
- Flanged
- Over-the-side

Applications

- Water, oil, and chemical heating
- Process tanks and industrial vessels



Cartridge Heaters

Product Type: Internal Process Heating

Description:

Compact, high-watt density heaters for internal heating of tools, molds, and mechanical components.

Applications

- Molds and dies
- Hot runner systems
- Packaging and automation machinery



Ceramic Heating Elements

Product Type: Radiant Heating Elements

Description:

High-temperature ceramic heaters designed for applications requiring fast radiant heat in confined spaces.

Applications

- Sealing and welding
- Shrink packaging
- Industrial heat processing



Gas Cylinder Heaters

Product Type: Cylinder Heating Jackets

Description:

Heating jackets designed to maintain gas pressure and flow in cylinders exposed to cold environments.

Applications

- Welding gas cylinders
- Beverage gas systems
- Industrial gas supply



Quality, Safety & Compliance

ATEX-certified products available

- Industrial-grade materials
- Designed for continuous operation
- Smart temperature control for safety

Heating Blankets for Pipe Joint Curing



OTA Fiberglass Heating Blankets are engineered for controlled heat curing of adhesive joints and laminated pipe connections in GRE, and RTR piping systems. Designed for harsh field conditions, they ensure uniform temperature distribution, reliable curing, and long-term joint integrity

Temperature Control Systems

TB Future T30 Smart Temperature Controller

Product Description:

The TB Future T30 is an industrial-grade digital controller supplied with the M1 Heating Blanket series. It enables multi-stage, programmable curing cycles with unmatched accuracy and safety.

Key Features:

- Programmable up to 6 heating stages
- Real-time digital temperature display
- Over-temperature alarm (above 150°C)
- Lock function to prevent unauthorized changes
- Controls heating blankets up to 7000W
- Second sensor for High End Curing
- IP54 industrial protection rating
- Programmable Auto-timed shutoff



Heating Blanket

Advanced Model M1

Product Overview

The OTA Fiberglass Advanced Heating Blanket (M1) is engineered for high-precision curing applications where temperature accuracy, safety, and repeatability are critical. Supplied with the TB Future T30 Smart Temperature Controller, it offers multi-stage heating control for demanding industrial environments.



Heating Blanket Construction

- Heating element: 11 mm thick silicone rubber
- Outer surface: Smooth leather-mesh silicone
- Flexibility: Bend radius up to 6 mm (¼ inch)
- Resistance: Moisture, chemicals, and radiation
- Fastening: Double spring buckle system (Standard), press studs (M1)



Installation & Operation How It Works

1. Complete joint lamination or adhesive bonding
2. Wrap heating blanket in a single layer (no overlap)
3. Secure using spring buckle or snap-stud system
4. Connect to or TB Future T30
5. Set required curing temperature
6. Monitor via neon indicators or digital display
7. Allow controlled cure cycle to complete



Safety & Handling Safety Highlights

- Do not overlap blankets during operation
- Do not touch blanket during or immediately after curing
- Avoid use in wet or damp conditions
- Allow minimum 30 minutes cooling before handling
- Cold-tab handles on M1 ensure safer adjustment during heating



Technical Specifications (Summary) Safety Highlights

Parameter

- Voltage
- Temperature Range
- Recommended Control
- Pipe Size Range
- Max Power (T30)
- Sensor Type
- Protection Rating
- Cable Length

Specification

110V / 220V AC
50°C – 200°C
0–150°C
1"– 48"
7000W
NTC-3950
IP54
2m (M2), 3m (M1)





Applications

OTA Fiberglass Heating Blankets are widely used in:

- GRE & RTR pipe joint curing
- FRP butt & wrap lamination joints
- Offshore pipeline construction
- Chemical and petrochemical plants
- Desalination facilities
- Remote and cold-climate installations
- Compatible with GRP, GRE, and RTR piping systems



Warranty & Support

OTA Fiberglass Heating Blankets are supplied with a Lifetime Warranty covering workmanship and materials. Global technical support and fast international shipping are available.

- Free replacement or repair for manufacturing defects
- Global shipping within 3–5 business days
- 24/7 technical support and field guidance
- Field demonstration



Product Variants Summary

Feature	M1	M2
Constant Temperature	✓	✓
Adjustable (50–200°C)	✓	✓
Fixed 110°C Option	✓	x
Cold Tab	✓	x
Thickness	2mm	1.5mm

OTA FIBERGLASS

Engineering Superiority in Fiberglass Tools



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