



Innovative Process Solutions for the Insulation Industry

Binder Mixing & Distribution | Wash Water
Treatment | Pipe Section Unit



Your Benefits

IFA Technology develops customized systems for the production of insulation materials with a focus on **automation**, **efficiency**, and **sustainability**.

Since 1980, we have been supplying **certified, high-performance process technology** with advanced digital integration for precise and reliable production worldwide.

Why IFA Technology

- › Tailor-made plant concepts based on decades of **process expertise**
- › Intelligent automation and **digital data systems** for transparent, connected production
- › Comprehensive project management and **expert consulting** from planning to start-up
- › **Certified quality**, reliable service, and global competence
- › Over 45 years of experience in plant engineering – **Made in Germany**



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Member of  **Deurotech Group**

From the initial design to commissioning, we offer customized and efficient system solutions for **long-term production reliability**.

Binder Mixing & Distribution

Automated Precision for Consistent Product Quality

IFA Technology designs and manufactures **automated binder mixing and dosing systems** for mineral and synthetic insulation materials.

The systems ensure **homogeneous binder quality**, **accurate dosing**, and **efficient raw material use**.



Key Facts

- › Precise mixing of binders and liquid components
- › Resin, non-formaldehyde, sugar-based binders
- › Dosing and distribution from tank farm to fiberizing floor or spinning machines



System Highlights

- › **Automated** preparation, dosing, and distribution
- › **Gravimetric and volumetric control** with data logging
- › Integrated temperature and **recipe management**
- › **SCADA systems** (Siemens / Allen Bradley)

Your Benefits

- › High **dosing accuracy** and stable process performance
- › **Minimal waste** and maintenance effort
- › Energy-efficient, **turnkey system** design



Wash Water Treatment

Sustainable Solutions for Mineral Wool Production



IFA Technology designs **modular water treatment systems** for collecting, filtering, and reusing process water in mineral wool production.

These systems **reduce water consumption, lower operating costs**, and support environmentally responsible production.

Key Facts

- › Multi-stage filtration and cleaning
- › Energy-efficient plant design
- › Reuse of treated process water

System Configuration

- › Buffer and sludge tanks with agitators
- › Drum and vibrating screens
- › Paper, belt, and drum filters
- › Hydrocyclones, centrifuges, and decanters



This multi-stage setup ensures **recycled water meets required cleanliness standards** for reuse.



Controls & Integration

- › PLC systems from **Siemens** and **Allen Bradley**
- › Communication via **OPC-UA, Modbus, or S7**
- › Visualization with **WinCC, AVEVA, or FactoryTalk**
- › Central HMI for monitoring and operator access
- › Data exchange with ERP systems (e.g. **SAP**)

Pipe Section Unit

Semi-Automatic Systems for Pipe Shell Production

IFA Technology supplies semi-automatic production lines for manufacturing mineral wool pipe sections used in **heat distribution, air-conditioning, and solar pipe insulation.**

The systems are designed for **efficient operation, high reliability, and consistent product quality.**



Key Facts

- › Pipe **diameter**: 21.3–457.2 mm
- › Insulation **thickness**: 25–100 mm
- › Pipe **length**: 1000–1200 mm
- › **Density**: 60–64 kg/m³
- › **Output**: up to 1000 t/year

Your Benefits

- › Consistent dimensional accuracy
- › Reduced manual handling
- › Compact, modular, and cost-effective design



System Configuration

Winding machine | Curing oven | Dismantling station | Edge trimming | Facing station

Automation & Control

All IFA systems feature **modern PLC-based controls** and **intuitive visualization** for maximum transparency and operational reliability. They integrate seamlessly into existing plant structures and ensure efficient, safe operation.



Highlights

- › Flexible data exchange with ERP and databases
- › Real-time process monitoring and reporting
- › Reduced downtime and optimized performance
- › Compatibility with customer-specific systems