Fusion Bonded Epoxy Coated Rebar and Pipe Production Line

This line coats rebar and steel pipe to meet various specifications. It features FBE application equipment.

ADDITIONAL IMAGES

Overview

Industrial FBE Coating System

This production line is designed for the high-volume application of fusion-bonded epoxy (FBE) coatings to steel reinforcement bars and pipes. The system utilizes a four-stage process—surface preparation, heating, powder application, and curing—to ensure superior corrosion resistance and durability. By creating a cross-linked polymer bond, this equipment enhances the structural integrity and lifespan of metal components used in demanding construction and infrastructure projects.

Process Specifications

Coating Process Stages

- Surface Preparation (Abrasive blast cleaning)
- Heating (Induction or gas-fired)
- Powder Application (Electrostatic spray)
- Curing (Thermal cross-linking)

Target Heating Temperature	450 °F
Standard Curing Duration	30 seconds

Technical Capabilities

Coating Application

Electrostatic Spray • Automated System • Cross-linked Polymers

Compatible Materials

- Reinforcing Bars (Rebar)
- Steel Pipes
- Welded Wire Fabric

Surface Preparation	Abrasive Grit Blasting, Contaminant Removal, Anchor Profile Texturing