Automation Solutions for Foundry and Plant Optimization

Specialist in International Trade and Business Ventures Between North America and Korea
Aluminum Pouring System

System Operation
TL-3 type Gantry robot carries and supplies fused aluminum to the several casting machines to produce aluminum material.

The system can provide precisely calculated amount of fused aluminum into a casting machines in accordance with the product capacity. TL-3 system adjusts the ladle’s tilting angle by the servo motor.

Gantry Robot Information
Has two servo axes X, Z and hand consists of servo and link system.

- **Dimensions**
  - x-axis: 32,000 mm, rack & pinion drive
  - z-axis: 2,000 mm, rack & pinion drive

- **Axis speed**
  - x-axis: 1.5 m/s
  - z-axis: 1.0 m/s

90 degree rotation by cylinder drive.
- Payload: 100 Kg
- Reliability: ± 0.5mm

Controls
Easy position setting by PLC and servo control

※ Enable pouring fused aluminum into 18 or 27 sets of casting machine installed as two or three sets of line in parallel.

※ Maximum foundry pot Payload - 50 kg.
Aluminum Pouring System
Iron, Aluminum, Steel
Foundry and Plant Automation Applications