

Crane Load Pin

Heavy-Duty Tension Load Measurement



Product Overview

JRAGRAU Crane Load Pins are robust strain-gauge based load sensors designed for direct replacement of standard load pins in cranes, hoists, and lifting equipment. Engineered for harsh industrial environments, they provide accurate real-time load measurement, high overload protection, and long-term reliability under dynamic loading conditions.

Key Features

- Direct pin replacement for cranes and lifting systems
- High strength stainless steel and die steel construction
- Excellent repeatability and overload protection
- Suitable for dynamic and shock loading
- Designed for heavy-duty industrial applications

Technical Specifications

Rated Load Range	100 kg, 500 kg, 1000 kg, 5000 kg, 10 T, 20
Rated Output	2 mV/V or 3 mV/V
Combined Error	±0.1 % of R.O
Repeatability	0.02 % of R.O
Safe Overload	100 % of R.L
Ultimate Overload	200 % of R.L
Side Load Safe	100 % of R.L
Recommended Excitation	10 V DC
Maximum Excitation	15 V DC
Zero Balance	±5 % of R.O
Operating Temperature	+25 °C to +80 °C
Temp. Effect on Output	±0.01 % of output / °C
Temp. Effect on Zero	±0.005 % of R.O / °C
Material	Stainless Steel / Die Steel
Degree of Protection	IP67 / IP65

Applications

- Crane and hoist load monitoring
- Overload protection systems
- Lifting and rigging equipment
- Industrial material handling