



Load Cell Buyer's Checklist

Complete Guide for Industrial Weighing System Selection

TECHNICAL REQUIREMENTS ASSESSMENT

- **Determine Maximum Load Capacity** - Calculate max expected load with 25-50% safety factor
- **Define Accuracy Specifications** - Specify accuracy class (C1-C6) and resolution requirements
- **Assess Environmental Conditions** - Temperature range, humidity, vibration, IP rating (IP65-IP69K)
- **Select Load Cell Type** - Compression/tension/universal, strain gauge vs. digital technology
- **Verify Electrical Specifications** - Output signal type, excitation voltage, cable requirements

PROVIDER EVALUATION CRITERIA

- **Custom Engineering Capabilities** - Ability to modify designs, application-specific solutions
- **US Customer Service Quality** - Technical support availability, response time, field service
- **Manufacturing Quality Standards** - ISO 9001 certification, quality control, warranty terms
- **Long-Term Performance Data** - Load cycle testing (1M+ cycles), fatigue failure prevention
- **Compliance Certifications** - NTEP for legal-for-trade, FM/CSA approvals, OIML R60

INSTALLATION & INTEGRATION

- **Mounting Requirements** - Hardware included, installation guidelines, alignment specifications
- **System Integration** - Instrumentation compatibility, signal conditioning, communication protocols
- **Multi-Cell Configuration** - Summing capabilities, load distribution, calibration procedures

COST & DELIVERY ANALYSIS

- **Total Cost of Ownership** - Purchase price, installation, calibration, maintenance, service life
- **Delivery Timeline** - Standard availability, custom engineering lead time, emergency options
- **Spare Parts Availability** - Inventory status, replacement component access

WARRANTY & SUPPORT

- **Warranty Coverage** - Standard period, extended options, failure analysis process
- **After-Sales Support** - Calibration services, preventive maintenance, troubleshooting assistance
- **Documentation Quality** - Installation manuals, technical specifications, training materials

CRITICAL QUESTIONS TO ASK YOUR PROVIDER

1. How do your load cells perform after 1 million+ load cycles?
2. How can companies reduce fatigue failures in harsh environments?
3. What is your failure analysis process for warranty returns?

Legal for Trade Certified • NTEP Approved • ISO 9001 Quality

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