

# Questionnaires

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# System Questionnaire

System/Application Description \_\_\_\_\_

Goals for Weighing System \_\_\_\_\_

Scale Type \_\_\_\_\_

Scale/System Capacity \_\_\_\_\_ ☐ lb ☐ kg ☐ Ton ☐ Metric Ton ☐ Other

# of Load Cells \_\_\_\_\_

Required System Accuracy \_\_\_\_\_ % ☐ of Capacity ☐ of Applied Load

Legal for Trade? ☐ Yes ☐ No

Transmitter Power (at Load Cells) ☐ AC ☐ DC \_\_\_\_\_ Voltage ☐ Battery

Receiver Power ☐ AC ☐ DC \_\_\_\_\_ Voltage ☐ Battery

Check any Desired Output Options (If Applicable):

mV output ☐ Yes ☐ No

Analog output ☐ Yes ☐ No

Relays ☐ Yes ☐ No

Do you require a serial cable? ☐ Yes ☐ 9pin ☐ 25pin ☐ No

Remote Control Required? ☐ Yes ☐ No

Remote Display Required? ☐ Yes ☐ No

If Remote Display is not Required:

Are Zero, Tare, On/Off Capabilities Required? ☐ Yes ☐ No

If Remote Display is Required:

Are Zero, Tare, On/Off Capabilities Required from the Remote Display? ☐ Yes ☐ No

Does the Remote Display need to be Handheld or Mounted? ☐ Handheld ☐ Mounted

Is the Remote Display Wireless or Hardwired? ☐ Wireless ☐ Hardwired

## Note for SendIt Applications:

**Every SendIt needs to be calibrated using a laptop/pc with a serial port (or a USB adapter). The calibration of the SendIt pair must be done during the installation.**

# System Questionnaire

## RF

Transmission Distance \_\_\_\_\_ ☐ ft ☐ m

Line of Sight ☐ Yes ☐ No

Obstructions (list any) \_\_\_\_\_

Potential Sources of RF Interference \_\_\_\_\_

Other RF Systems Present ☐ Yes \_\_\_\_\_ ☐ No

Indoor ☐ Outdoor ☐

### Sketch of RF Field

This sketch will be used by our technicians to help find the optimal antenna types and locations for this application.

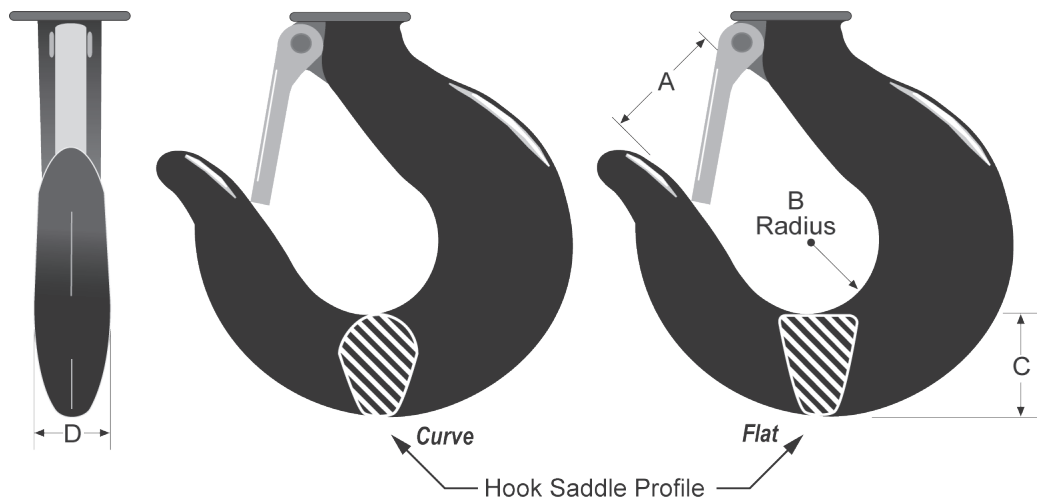
- Include all transmitters and receivers that are part of this weighing system
- Include any other transmitters or receivers operating at 2.4 GHz
- Include any RF barriers, such as concrete walls, large steel equipment, cages
- Include sources of interference, such as high-power electrical motors and generators
- Include dimensions so we can understand the range and antenna gain requirements



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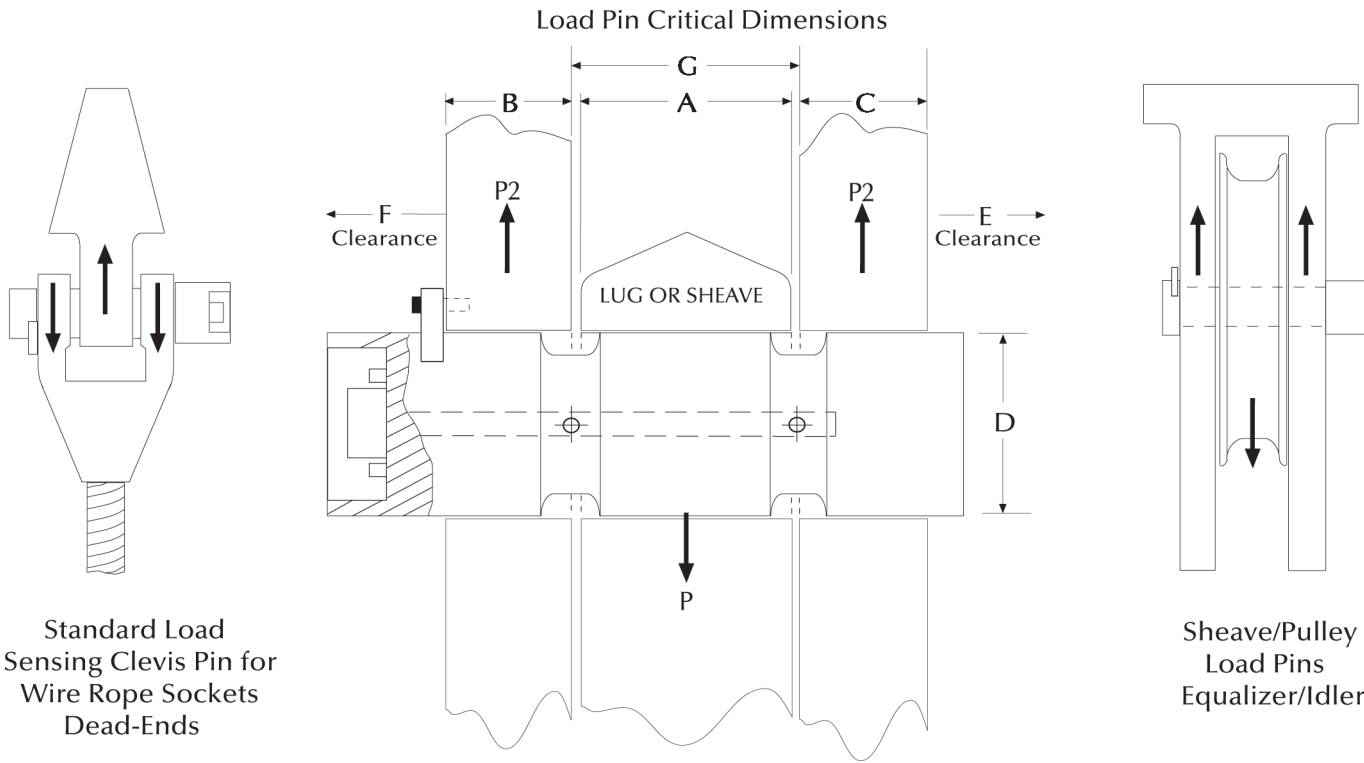
# Hook Questionnaire

## Dimensions from crane's existing hook



**Required Dimensions**  
A= \_\_\_\_\_in/mm  
B= \_\_\_\_\_in/mm  
C= \_\_\_\_\_in/mm  
D= \_\_\_\_\_in/mm  
Profile: ☐Curve ☐Flat  
Hook Capacity \_\_\_\_\_

# Load Pin Questionnaire

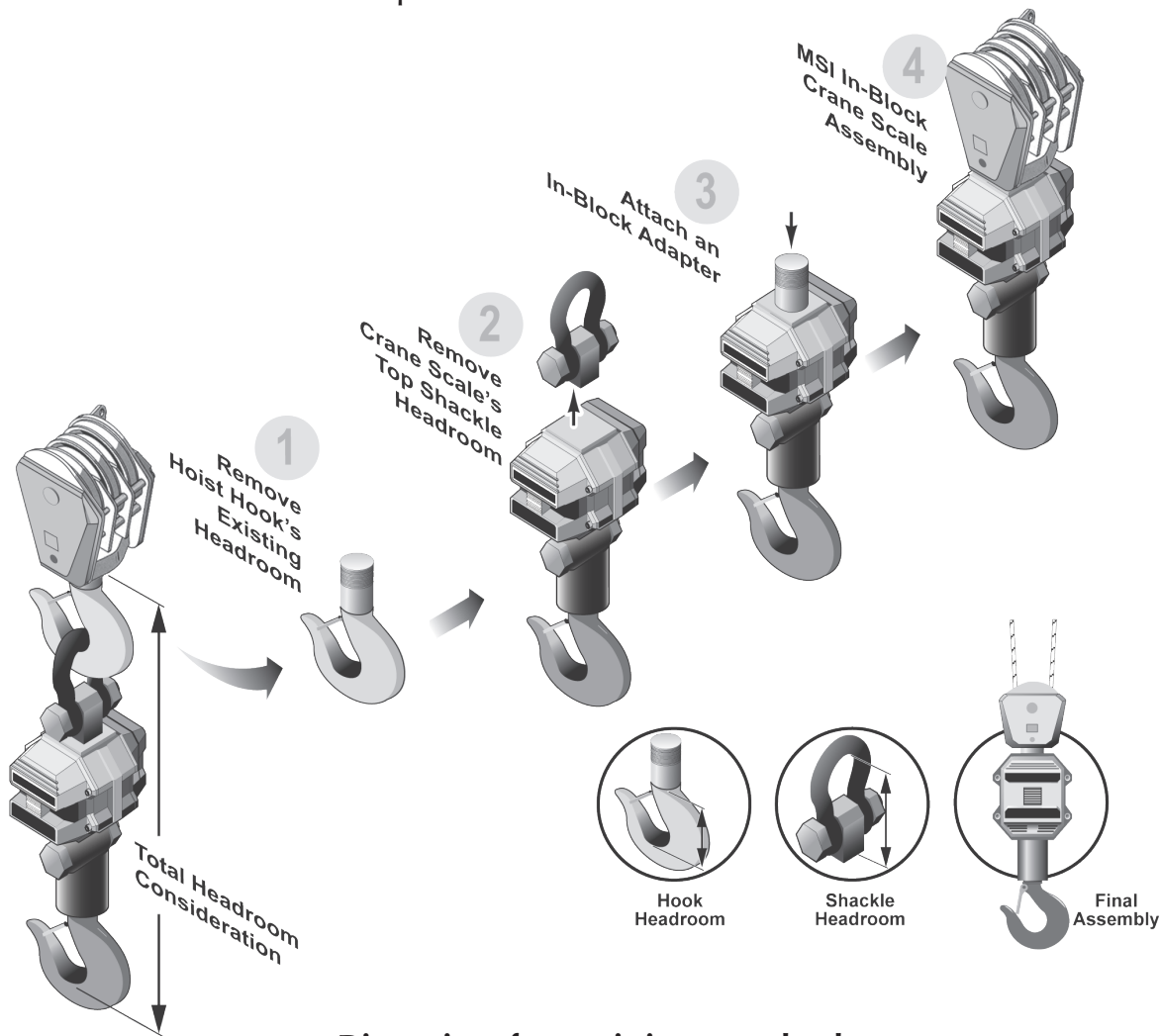


Load Pin Data	
A=Width	_____ Inch
B=Width	_____ Inch
C=Width	_____ Inch
D=Pin Diameter	_____ Inch
E=Clearance	_____ Inch
F=Clearance	_____ Inch
G=Width	_____ Inch
Lube Port	<input type="checkbox"/> No <input type="checkbox"/> Yes _____ # of exits
Hoist Capacity	_____ Tons
Parts of Wire Rope	_____
Sensor Capacity	_____ Tons
Factor of Safety	<input type="checkbox"/> 3:1 <input type="checkbox"/> 5:1 <input type="checkbox"/> 7:1 <input type="checkbox"/> 10:1
Application	_____
Accuracy Requirement	_____
Temperature Requirement	_____
Required Output	_____
Material Testing Requirement	_____
Load Vector Orientation/Alignment	<input type="checkbox"/> ← <input type="checkbox"/> → <input type="checkbox"/> ↘ <input type="checkbox"/> ↗
Name	_____
Company	_____
Phone	_____
Note: Minimum clearance between "A" and "G" = 0.0625 inch.	

Cable Connections	
End-Mounted Cable	
End-Mounted Connector (standard)	
Side-Mounted Cable	
Side-Mounted Connector	
Recessed Connector	
Sensor's Cable Length _____ Feet	
Comments _____	

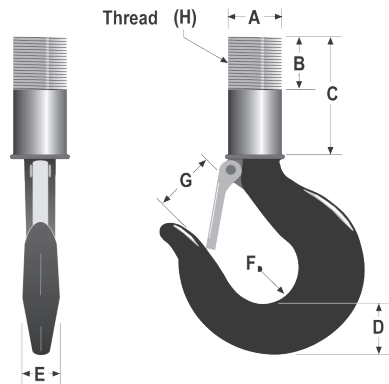
# Low Headroom Weighing Consideration

**Concern:** Customer wants MSI crane scale accuracy, but has vertical headroom concerns  
**Solution:** Consider an in-block adapter



Dimensions from existing crane hook

Required Dimensions	
A= _____	in/mm
B= _____	in/mm
C= _____	in/mm
D= _____	in/mm
E= _____	in/mm
F= _____	in/mm
G= _____	in/mm
H= _____	UNC
Hook Capacity _____	



# Weighing System Questionnaire

Company \_\_\_\_\_

Name \_\_\_\_\_ Date \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ Email \_\_\_\_\_

Project Name \_\_\_\_\_

System Objective \_\_\_\_\_

System Description \_\_\_\_\_

## APPLICATION PARAMETERS

Basic System Design: ☐ BTH\* ☐ Equalizer Sheave ☐ Dead-End ☐ C-Hook  
☐ Spreader Bar ☐ Coil Grab ☐ Coil Lifter ☐ Rotating Crane Hook/Grab

System Capacity: \_\_\_\_\_ ☐ lb ☐ kg ☐ tons ☐ metric tons ☐ Other \_\_\_\_\_

System Accuracy: \_\_\_\_\_ % ☐ Applied Load ☐ Rated Capacity  
Legal for Trade ☐ Yes ☐ No

Crane Type: ☐ Bridge ☐ Mobile Fixed Boom ☐ Mobile Ext. Boom Gantry  
☐ Container ☐ Lattice Boom ☐ Jib ☐ Other \_\_\_\_\_

Reeving: \_\_\_\_\_ Parts of Wire-Rope \_\_\_\_\_ At Bottom Load Block \_\_\_\_\_ At Load Sensor  
☐ N/A

Power Supply: ☐ DC ☐ AC Voltage \_\_\_\_\_

## LOAD SENSOR(S)

Number of Sensors: ☐ 1 ☐ 2 ☐ 3 ☐ 4 ☐ Other \_\_\_\_\_

Load Sensor Design: ☐ Tension Link ☐ Clevis/Sheave Load Pin ☐ Single End Shear  
☐ Double Ended Shear ☐ Compression

Load Sensor Capacity: \_\_\_\_\_ ☐ lb ☐ kg ☐ tons ☐ metric tons ☐ Other \_\_\_\_\_

Load Sensor Location: ☐ BTH\* ☐ Equalizer/Idler Sheave ☐ Dead End  
☐ Other \_\_\_\_\_

Environment: ☐ Indoor ☐ Outdoor ☐ Other \_\_\_\_\_

Other Requirements: \_\_\_\_\_

## INSTRUMENTATION

# Dyna-Clamp Questionnaire

Industry Dyna-Clamp will be used in: \_\_\_\_\_

Is protective case required: ☐ YES ☐ NO

## Wire Rope Pre-Calibration:

1.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
2.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
3.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
4.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
5.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
6.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
7.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_
8.

Rope/Cable Diameter: \_\_\_\_\_ Inch / mm

Strand Arrangement: \_\_\_\_\_

Rope/Cable Material \_\_\_\_\_

Minimum Breaking Load (MBL) if known: \_\_\_\_\_

Working Load Limit (WLL) if known: \_\_\_\_\_

*If working load limit is not known, we will calculate it as a maximum of 20% of the MBL.*



# WiFi Information Request

IN ORDER TO CUSTOMIZE A WI-FI MODULE, THE FOLLOWING INFORMATION IS REQUIRED:

Product: \_\_\_\_\_ Electronics Serial Number: \_\_\_\_\_

Network Topology: ☐ Server ☐ Client

**Server (Soft AP)** - User's laptop or tablet is connecting directly to the scale. Only one module may be connected at a time in this mode.

**Client** - The scale connects to an existing router. This allows a laptop or tablet to connect to multiple scales at once.

## Server Mode

- SSID: \_\_\_\_\_
  - The name for the network that the laptop/tablet is connecting to.
- Security Mode: ☐ Open ☐ WPA2
  - Open - Allow anyone to connect to the scale
  - WPA2 - Require a password to connect to the scale
- Password: \_\_\_\_\_
  - Only necessary if security mode is set to WPA2.
- DHCP: ☐ On ☐ Off
  - On - Assign a dynamic IP to the scale. The laptop/tablet connecting to the scale may have a dynamic IP (**RECOMMENDED**).
  - Off - Assign a static IP to the scale. The laptop/tablet connecting to the scale must also have a static IP.
    - IP Address-Static IP of the scale: \_\_\_\_\_
    - Net Mask/Gateway to assign to the scale: \_\_\_\_\_
  - Port - Port used to connect to the scale (default 2000): \_\_\_\_\_

## Client Mode

- SSID - The SSID of the router the scale will connect to: \_\_\_\_\_
- Security Mode - the security mode of the router: ☐ Open ☐ WPA2
  - Password - If the security mode of the router is WPA2, this is the password used to connect to the router \_\_\_\_\_
- DHCP: ☐ On ☐ Off
  - On - Allow the router to assign a dynamic IP to the scale (**RECOMMENDED**)
  - Off - Assign a static IP to the scale. This IP must be added to the static IP list in the router.
    - IP Address - Static IP of the scale: \_\_\_\_\_
    - Net Mask/Gateway to assign to the scale: \_\_\_\_\_
- Port: \_\_\_\_\_
  - Port used to connect to the scale. Must be accessible from the router.