

# Questionnaires

## TABLE OF CONTENTS

System Questionnaire .....	166
Hook Questionnaire .....	168
Load Pin Questionnaire .....	169
Low Headroom Weighing Consideration .....	170
Weighing System Questionnaire.....	171
Dyna-Clamp Questionnaire.....	172

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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 \_\_\_\_\_

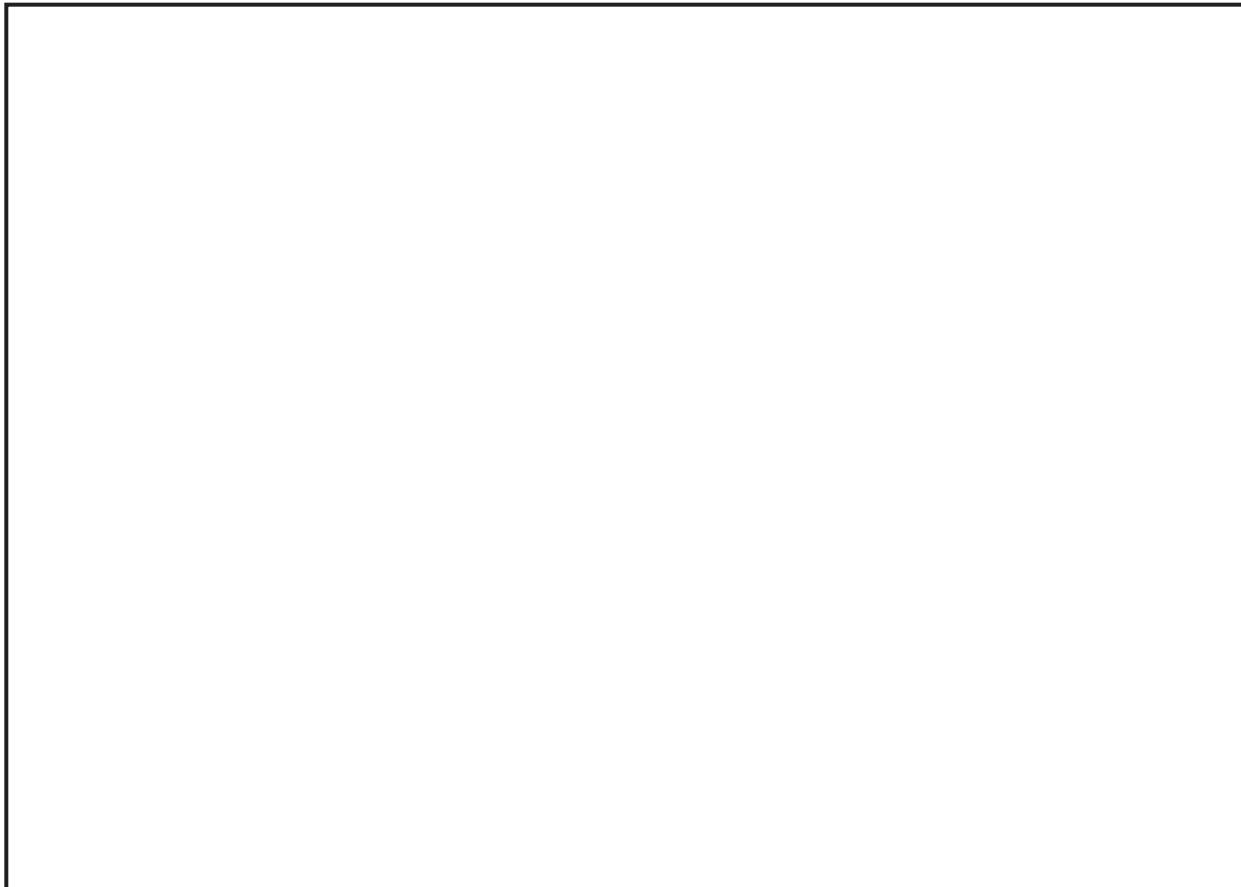
Other RF Systems Present     Yes \_\_\_\_\_     No

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.

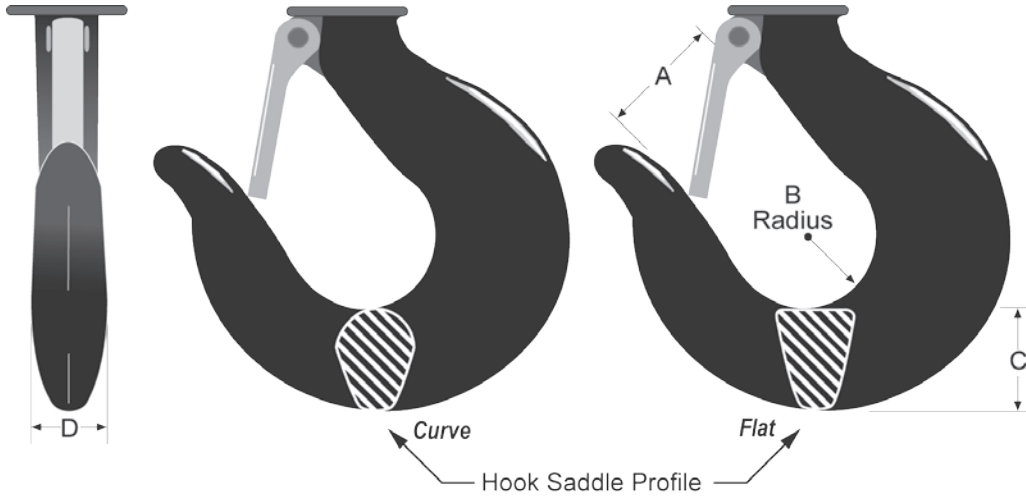
- Include all transmitters and receivers that are part of this weighing system
- Include any other transmitters or receivers operating at 2.4 GHz
- Include any RF barriers, such as concrete walls, large steel equipment, cages
- Include sources of interference, such as high-power electrical motors and 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

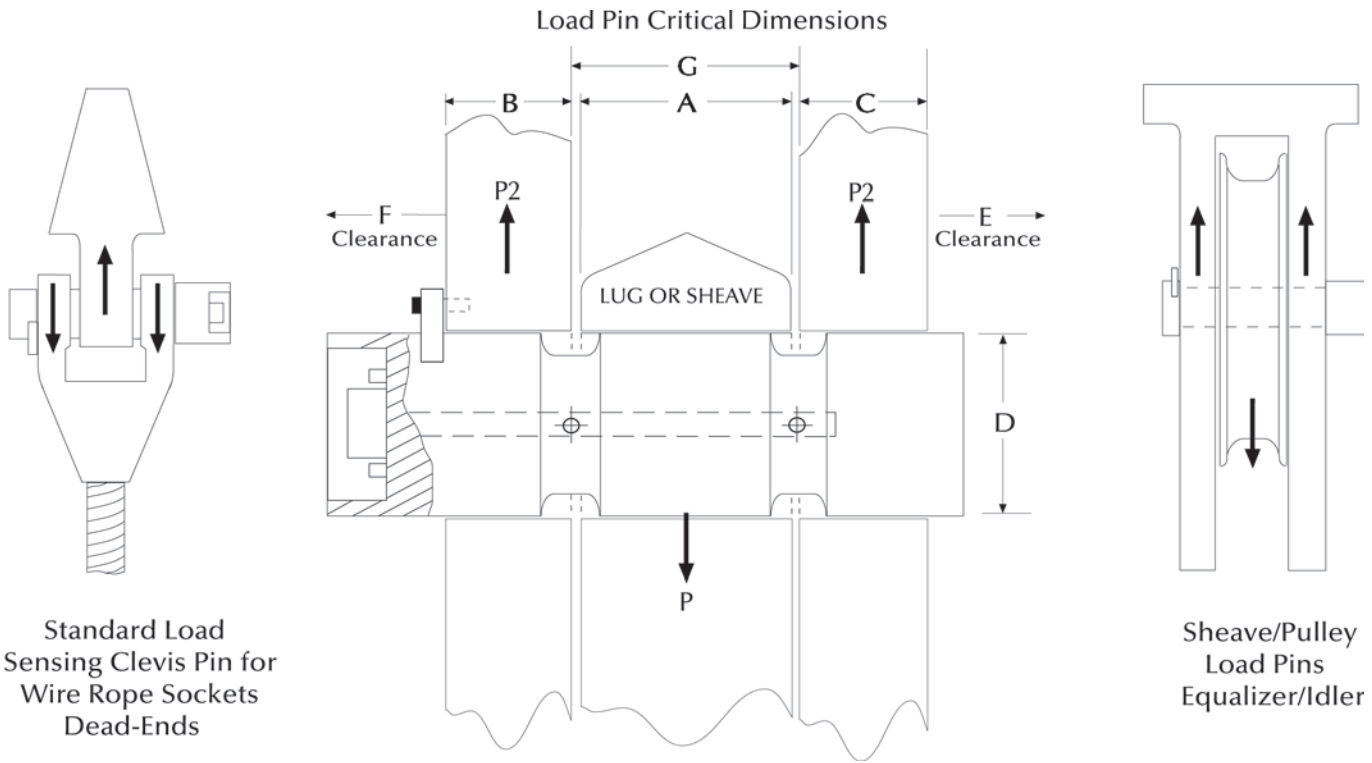
C= \_\_\_\_\_ in/mm

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 _____	

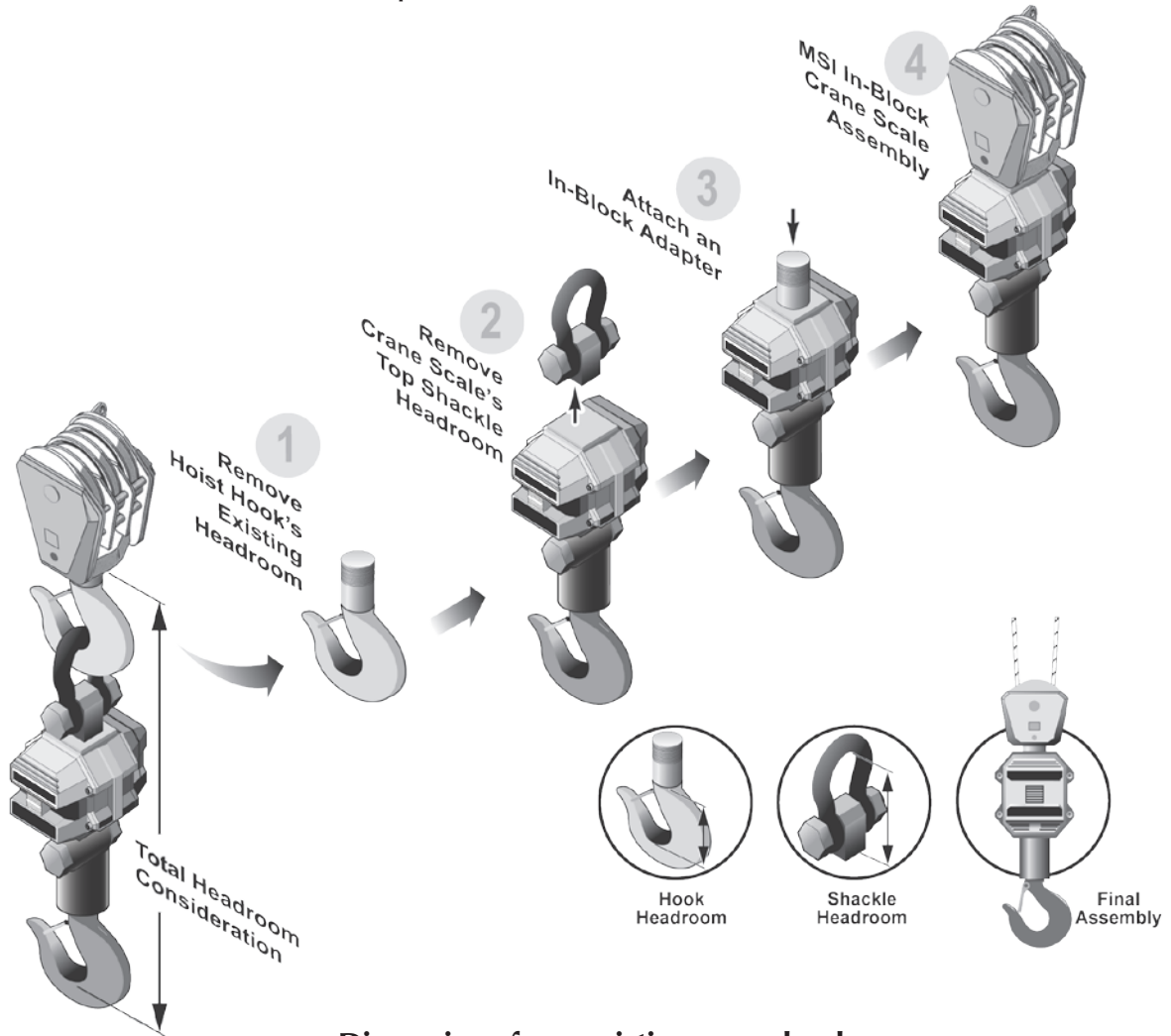
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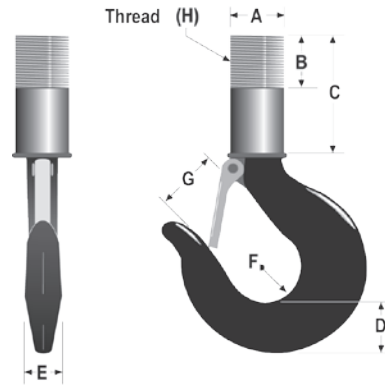
# Low Headroom Weighing Consideration

**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.*