



## LMI System Crane Information Worksheet

Company: \_\_\_\_\_ Date: \_\_\_\_\_

Contact for all crane/load chart related information is: \_\_\_\_\_

Crane info: Make: \_\_\_\_\_ Model: \_\_\_\_\_ Serial #: \_\_\_\_\_ Location: \_\_\_\_\_

Please note: when the Cranesmart System powers up, it will show the ABOVE crane information. If you wish the Cranesmart display panel to indicate some other identification information (such as "Big Red" or "Starboard-bow crane") in the system, please specify here: \_\_\_\_\_

### General

Please ensure that all load chart information provided is as legible as possible. We have many Manitowoc Load Charts on file. Please attach a list of applicable load chart numbers when you submit this completed form. If we are unable to confirm load chart information we will have to contact you again for better resolution which hold up delivery of your system. Please note that not all of these questions may relate to your type of crane. Simply indicate **N/A** (not applicable) where the questions do not relate to your crane.

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Circle one: Default display to be in **metric** or **pounds**?

**Electrical power** available in cab: \_\_\_\_\_ VDC or \_\_\_\_\_ VAC (Please note: display panel requires 12-32VDC)

Is the crane operating in a **hazardous environment**? (examples: on or near oil/drilling rigs, fuel terminals, refineries) \_\_\_\_\_.

If yes, is the cab of the crane/controls Class 1, Division 2 Rated? \_\_\_\_\_

**Hydraulic Boom Length** – If applicable.

Maximum in feet: \_\_\_\_\_ Minimum in feet: \_\_\_\_\_

Do the boom sections extend and retract proportionally via one control stick? \_\_\_\_\_

How many powered sections does the boom have (include the fixed section in total)? \_\_\_\_\_

**For non-pedestal mounted cranes** - what is the turret height\* of the crane in feet? \_\_\_\_\_

\*Turret height is the vertical distance from the boom pivot pin to the ground.

Please provide maximum rated **single-line-pull** in pounds for:

Main winch: \_\_\_\_\_ Auxiliary 1 winch: \_\_\_\_\_ Auxiliary 2 Line: \_\_\_\_\_

Please provide **wire rope diameter** in inches for:

Main winch: \_\_\_\_\_ Auxiliary 1 winch: \_\_\_\_\_ Auxiliary 2 Line: \_\_\_\_\_

Please provide **dead end/becket pin sizes** in inches for:

Main winch: \_\_\_\_\_ Auxiliary 1 winch: \_\_\_\_\_ Auxiliary 2 Line: \_\_\_\_\_

Please provide allowable\* and maximum **parts-of-line** reeving capability for each winch:

Main – Allow. POL: \_\_\_\_\_ Max POL: \_\_\_\_\_ . Aux.1- Allow. POL: \_\_\_\_\_ Max POL: \_\_\_\_\_ .

\*Example: Allowable means crane can reeve 2, 4, 6 POL only – no odd parts-of-line allowable.

**If chart has no angle values:**

If there are no angles on the chart, we will need the **Center of Rotational Offset (CRO)**

CRO is the horizontal distance from the boom pivot pin to the Center of the turret in feet. \_\_\_\_\_

\*Please note: when we calculate the angles, the radius may be off by a small amount because we cannot take into account boom deflection.

**Attachments – if applicable**

| PART 1      | Yes/<br>No | Length? | Parts of Line? | Deduction for having it<br>erected while lifting off of<br>the main? | Deduction for having it<br>stowed while lifting off of<br>the main? |
|-------------|------------|---------|----------------|--|---|
| Jib?        | Y / N      |         |                |  |   |
| Aux Head?   | Y / N      |         |                |  |   |
| Extension?  | Y / N      |         |                |  |   |
| Manual Fly? | Y / N      |         |                |  |   |

| PART 2      | Always<br>attached? | Can it be attached at the same<br>time as jibs or extensions? | Can it be used with<br>the Main Line? | Can it be used with the<br>Auxiliary Line? |
|-------------|---------------------|---|---------------------------------------|--|
| Jib?        |                     |   |                                       |  |
| Aux Head?   |                     |   |                                       |  |
| Extension?  |                     |   |                                       |  |
| Manual Fly? |                     |   |                                       |  |

**Luffing Jib – if applicable – normally lattice cranes**

Does your crane employ a luffing jib? \_\_\_\_\_ If YES – please ensure that all load charts provided contain all necessary load chart values/information for correct programming. Normally our engineers will contact you to ensure information is complete for luffing programming.

**On-tires Charts – if applicable – normally hydraulic and lattice cranes**

If there are on-tires charts: do you wish them included in the programming of the system? \_\_\_\_\_

Please confirm current tire size\* on crane: \_\_\_\_\_

\*Please note: Sometimes there are charts for more than one type/size of tires. If this is the case, we will need to know which tires you have.

**Additional attachments – if applicable**

Does the crane have a **man basket**? \_\_\_\_\_ If YES – circle > is it **pinned** or **hanging**?

What is the weight of the man basket in pounds? \_\_\_\_\_

What is the capacity of the man basket in pounds? \_\_\_\_\_

Is there a **clamshell** attachment? \_\_\_\_\_

Is there a **magnet** attachment? \_\_\_\_\_

What is the load chart/weight **deduction or deration** for either clamshell or magnet? \_\_\_\_\_

**0° OPTION – if applicable**

Zero degree option will allow the user to take the boom down to 0°, even when below the chart so that they can put the boom back in the saddle without having to Bypass to override the low angle/out of chart alarms. Some charts include this while others do not.

Do you wish the 0° option included in the system? \_\_\_\_\_

What is the weight of the heaviest hook block in use on this crane in pounds? \_\_\_\_\_

**Boom Direction Kit – if applicable**

If your load chart is not a 360° load chart and has defined areas where the load chart may be de-rated for over front, or over side for example – you will require a Boom Direction Kit. These components establish where the boom is and allows the display panel to select permissible load charts as the boom moves. If your load chart does not indicate defined areas – do you wish any areas defined? \_\_\_\_\_

If yes, please detail: \_\_\_\_\_

**Out Of Level Kit – if applicable**

If your load charts are de-rated when the crane is Out Of Level – you will require an Out Of Level Kit. These components establish when the crane is out-of-level and allows the display panel to select permissible load charts as the crane tilts. If your load chart does not indicate any de-rating for out of level, do you require load chart values to change when out of level? \_\_\_\_\_ If yes, please detail:

\_\_\_\_\_

**Alarms outputs for crane function interrupt's – if applicable**

In addition to an Audio and Visual alarms, standard on each display panel, the system indicates Type Of Alarm, example “Two-block, MAIN WINCH”. In addition to the visual and audible display panel alarms, the follow options are available:

Option 1: The Cranesmart panel incorporates a simple white output wire as a part of the standard wiring harness included with each system. The white wire is Normally Hot in all non-alarm conditions, going Cold in any alarm condition. The Normally Hot can be switched to Normally Cold right at the display panel in the crane. You may connect this wire to external alarms, a single function kick out or a series of function kick outs.

Option 2: For dedicated output signals we will supply a Cranesmart alarm hub. This is an external component which provides up to four dedicated outputs, each may be Normally Hot or Normally cold. If you require more then one crane function to be interrupted, please choose which crane function and confirm Normally Hot or Normally Cold for each.

- OUTPUT 1: Crane function: \_\_\_\_\_ Normally HOT or COLD (circle one)
- OUTPUT 2: Crane function: \_\_\_\_\_ Normally HOT or COLD (circle one)
- OUTPUT 3: Crane function: \_\_\_\_\_ Normally HOT or COLD (circle one)
- OUTPUT 4: Crane function: \_\_\_\_\_ Normally HOT or COLD (circle one)

Please note: High/low boom angle is one function. Two block is one function. Out of Chart is one function. Preset overloads is one function. If you require a custom shut-off configuration, please note details here.

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