

Contract Number: \_\_\_\_\_

Crane Manufacturer: \_\_\_\_\_

Crane Capacity: \_\_\_\_\_

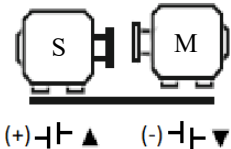
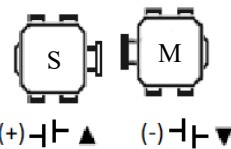
Crane Serial Number: \_\_\_\_\_

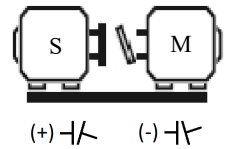
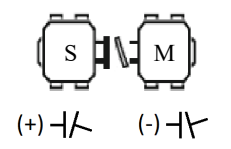
## Shaft Alignment Record

**Equipment (check one):**     Main Hoist Drive             Aux Hoist Drive             Other \_\_\_\_\_  
     Trolley Drive                     Bridge Drive

**Coupling Configuration:**     Short Flexible Coupling             Floating Shaft. Length (inches) \_\_\_\_\_

|  |                                |                           |
|--|--------------------------------|---------------------------|
| <b>Coupling Manufacturer/Type/Size</b>     |                                |                           |
| <b>Alignment Method and Equipment Used</b> |                                |                           |
| <b>Coupling Speed (rpm)</b>                |                                |                           |
|  | <b>Manufacturer's Required</b> | <b>Actual (Installed)</b> |
| <b>Coupling End Gap (inches)</b>           |                                |                           |

|   |  |   |
|---|--|---|
|   | <b>Parallel (mils)</b>   |   |
| <b>Specification Allowable Parallel Offset (Installation)</b>                     |  |   |
|   | <b>Vertical Offset</b><br> | <b>Horizontal Offset</b><br> |
| <b>Actual (mils)</b><br>NOTE: Actual values shall not exceed the allowable value. |  |   |

|  |  |   |
|--|--|---|
|  | <b>Angular (mils/inch)</b>   |   |
| <b>Specification Allowable Angular Misalignment (Installation)</b>                     |  |   |
|  | <b>Vertical Angularity</b><br> | <b>Horizontal Angularity</b><br> |
| <b>Actual (mils/inch)</b><br>NOTE: Actual values shall not exceed the allowable value. |  |   |

Note 1: 1 mil = 1 thou = 0.001 inch = 0.001"

Note 2: The coupling rotation speed is dependent on location, either the motor speed (rpm) or  $\frac{\text{motor speed}}{\text{reduction ratio}}$

Note 3: In images, 'S' – stationary and 'M' – movable

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|  |                                      |            |            |            |
|--|--------------------------------------|------------|------------|------------|
| <input type="checkbox"/> Check box if there is no floating shaft present.          | <b>Floating Shaft Offsets (mils)</b> |            |            |            |
| <b>Specification Allowable Offset at Each Flex Plane (Installation)</b>            |                                      |            |            |            |
|  |                                      |            |            |            |
| <b>Actual (mils)</b><br>NOTE: Actual values shall not exceed the allowable values. | Vertical                             |            | Horizontal |            |
|  | Offset 'b'                           | Offset 'a' | Offset 'b' | Offset 'a' |
|  |                                      |            |            |            |

**Laser Shaft Alignment Setup:**

|  |                                  |   |
|--|----------------------------------|---|
|  | <b>Hub diameter of coupling</b>  | 1 |
|  | <b>Laser to laser</b>            | 2 |
|  | <b>Motor laser to front foot</b> | 3 |
|  | <b>Motor front to back foot</b>  | 4 |

Note 4: Ensure laser alignment equipment outputs reflect the correct units for parallel offset (mils) and angular misalignment (mils/inch).  
 Note 5: Attach a copy of the laser alignment computer generated printout(s), if required by specification.

**Shimming Record:**

Shims: Start with 0.100” under each foot. No more than four shims shall be placed under each foot.  
 Bolts must be installed with lubrication.

| Bolt # | Bolt Size | Torque Value | Number of Shims | Total Shim Thickness |
|--------|-----------|--------------|-----------------|----------------------|
| 1      |           |              |                 |                      |
| 2      |           |              |                 |                      |
| 3      |           |              |                 |                      |
| 4      |           |              |                 |                      |

**Soft Foot Record** (maximum 0.002 inches allowable):

|  |               |  |
|--|---------------|--|
|  | <b>Foot 1</b> |  |
|  | <b>Foot 2</b> |  |
|  | <b>Foot 3</b> |  |
|  | <b>Foot 4</b> |  |

Alignment Verified by: \_\_\_\_\_

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