



## INSTALLATION



All foundation requirements assume concrete was installed per the ACI 318 Building Code Requirements for Structural Concrete. Consult a qualified structural engineer if you deviate from the recommended specifications listed below.

### GENERAL INSTALLATION INSTRUCTIONS

All AIMCO lift assist equipment and associated tooling is assembled and tested at the factory.

### ARTICULATED JIB CRANE REQUIREMENTS

Foundation:

For a 500lbs capacity @ 15' (7500 ft-lbs) SAJ , a 6" slab (minimum f'c> 3,500 psi) may be utilized provided it meets the following conditions.

- Slab must be a slab-on-grade supported by soil with an allowable bearing pressure greater than 1,000 pounds per square foot.
- Concrete must be in sound condition devoid of any cracks, spalling, deterioration, etc. within a 10'-0" x 10'-0" square area (jib mast centered on this area).
- Six (6) anchors on a 27" bolt circle must develop an un-factored tension greater than 3,300 pounds each. This may be obtained with a minimum 3/4" diameter Hilti HAS E-rod with a minimum 4 1/4" embedment.
- Bottom of anchor not to be within (2\*(diameter+1/8")) from the bottom of the slab. 10'-0" square area must be clear of additional equipment and/or fork truck traffic.

For 865lbs capacity @ 15' (13,000 ft-lbs) HAJ, an 8" slab (minimum f'c> 3,500 psi) may be utilized provided it meets the following conditions.

- Slab must be a slab-on-grade.
- Concrete must be in sound condition devoid of any cracks, spalling, deterioration, etc. within a 10'-0" x 10'-0" square area (jib mast centered on this area).
- Six (6) anchors on a 27" bolt circle must develop an un-factored tension greater than 4,700 pounds each. This may be obtained with a minimum 3/4" diameter Hilti HAS E-rod with a minimum 5" embedment.
- Bottom of anchor not to be within (2\*(diameter+1/8")) from the bottom of the slab. 10'-0" square area must be clear of additional equipment and/or fork truck traffic.

Note: If neither of the two above conditions can be met, or if a factor of safety above 3 to 1 is desired then a dedicated jib foundation (5ft x 5ft x 4ft deep) must be poured.

Temperature Limits:

- Your articulated jib crane should be installed where it is not subject to radical changes in temperature or temperatures outside of the limits listed below. Temperatures outside of the recommended limits may cause problems with bearings, pneumatic systems, moving parts and tooling.
- Unless otherwise specified, AIMCO equipment is designed for indoor use only.  
Minimum Temperature -40 degrees Fahrenheit  
Maximum Temperature +140 degrees Fahrenheit

Air Supply:

- Clean, dry air (90 PSI minimum). It is recommended that a filter regulator be placed between the incoming plant air and the manipulator.