

**Chocking**

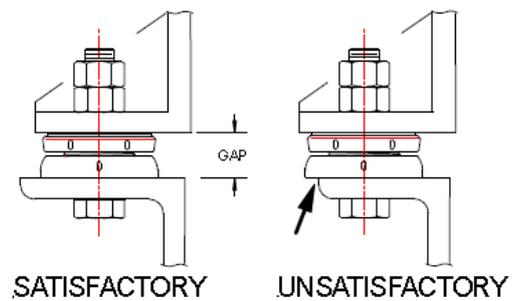
Chocking is the interface between machinery and its' structure. The function of this interface is to create a coplanar surface for the installed machinery. The RotaChock creates the machinery mounting plane effectively and efficiently.

**Pre-Requisites for Chocking**

System design - Considering any chocking system includes ensuring the foundation is structurally stiff for the static and dynamics of the equipment plus the forces from the environment. Each industry has a different consideration for environmental forces i.e. military Grade A shock requirements are vastly different from petrochem pump systems and the chocking system must meet or exceed the requirements of the application. Defining and understanding these topics are the responsibility of the design activity but ExaktAlign can assist. System design considerations specific to the RotaChock include chocking thickness (gap) and bottom part support.

Step 1) Using the mounting bolt size make a preliminary selection of the RotaChock. From the RotaChock brochures select a configuration and nominal design height (gap).

Step 2) Insure the foundation width will accommodate the RotaChock diameter. The RotaChock bottom part should be fully supported.



**Sizing Calculation**

Contact ExaktAlign, to insure the best sizing of the RotaChock. This is free service. The rule of thumb solution is to select a RotaChock based upon bolt size but for many applications technically sound and better economic solutions will be offered.

**Jacking Devices**

Moving the machinery into plumb and/or alignment is most efficiently positioned by using jack bolts. There are other techniques such as hydraulic jacks or wedges but no matter the jacking device should be clear of the RotaChock. The design of the package should take in consideration ease of installation, access and the lifecycle of the machinery. RotaChock is a mounting chock and we recommend that it not be used as a lifting device.



**Machinery Checks**

Clean the underside of component mounting foot.

**Foundation Checks**

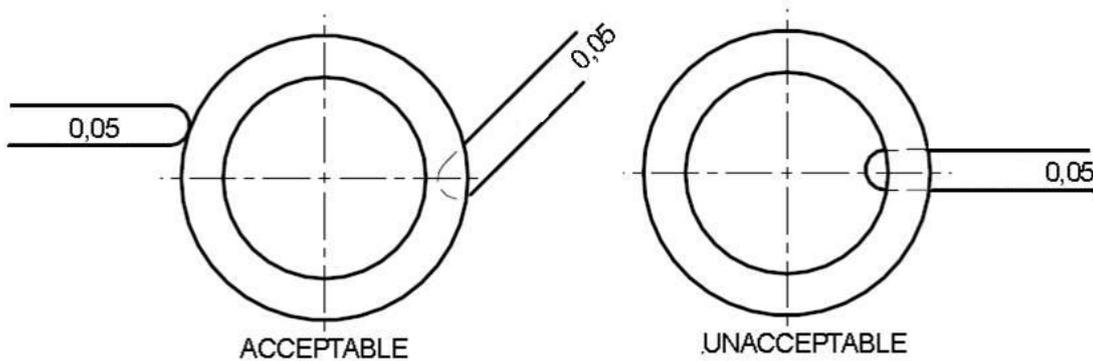
Clean the mounting surface and if primed that there is only a light coat (1 or 2 µm) of primer.

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**Rocker Check**

Position RotaChock in approximate final location, apply hand load to top of RotaChock and try to rock the RotaChock assembly side-to-side. If it rocks, investigate the reason and correct. In most instances the surface preparation is only some localized sanding.

A more quantitative check procedure follows but typically the rocker check is adequate. Feeler Gauge Check - Push down on the RotaChock and examine the circumference of the bottom part at the foundation with a feeler gauge of 0.05mm. The acceptable mounting surface check is achieved when the feeler does not pass completely through the interface area.



**Alignment**

Accomplish alignment per machine/system target requirements for cold alignment, thermal growth and crankshaft deflections using jacking devices.

Because the RotaChock is a mechanical device align the unit 0.05mm above target. The 0.05mm is a nominal dimension to accommodate extrusion of the lubricant in the chock's internal surfaces. There may be some slight variances due to machine load, chock size, foundation surface condition and bolt stretch and we recommend that installers take notes of their equipment alignments to make the next alignment event quicker.

**Chock Preparation**

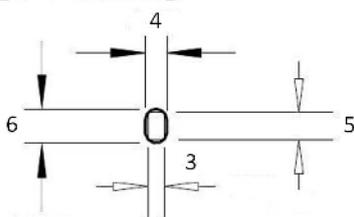
Unpack the RotaChock

Carbon steel RotaChocks are packaged with conservation oil on the surfaces. Clean off the top of the top part and bottom of the bottom ring with a degreaser solution.

Note: The RotaChock has slots for adjustment. Many tools can be used to tighten the chock. Please note RotaChock is designed with buttress thread. The force required to tighten the chock in place against the gap is minimal. Tools that can be used for the RotaChock include: Flat head screw drivers (with tip slightly ground off to provide grip in the slot), chisels or dowel pins. Slot sizes:

**RC2 and RC3**

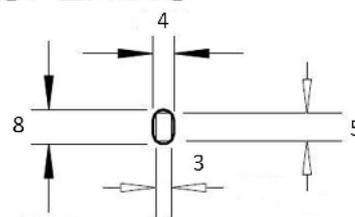
**OPENING**



**RECTANGLE**

**RC4 and larger**

**OPENING**



**RECTANGLE**