

Exactalign™ Adjustable Spherical Machinery Support

Revised May 20, 2010

The Rowan **Exactalign™** is an adjustable spherical machinery support device with vertical range of height adjustment and out of plane alignment capability.

Exactalign™ achieves its height adjustability by relative motion of three circular inclined surfaces. Because of the ramp based design the capacity is much higher (for the same diameter) than other designs which use a threaded body. **Exactalign™** provides for out of parallel surfaces (machine to support beams) using a spherical washer concept.

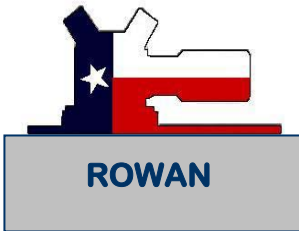


Exactalign™ is available for anchor bolts ranging ½" to 2 ¼" plus, in any metal.
Patent pending. Made In America

Robt. L. Rowan & Assoc., Inc. · 3816 Dacoma · P.O. Box 920760 · Houston, Texas 77292-0760
Tel (713) 681-5811 · Toll Free (800) 231-2908 · Fax (713) 681-5815

Visit our website at www.rlrowan.com

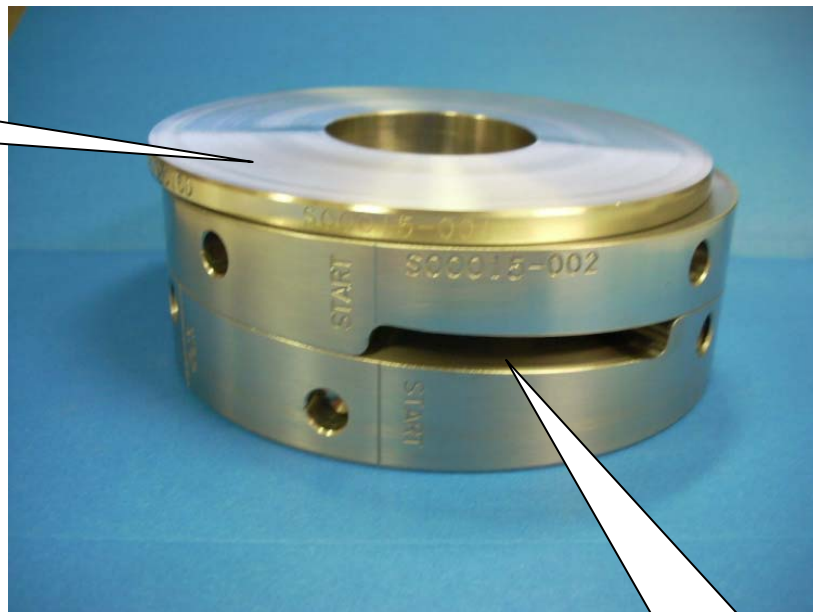
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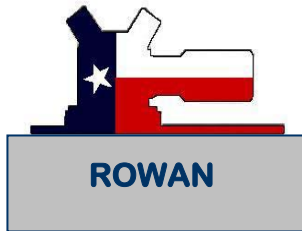
Exactalign™-Comparison of Load Transfer Mechanism Versus other Spherical Supports using Shear across Threads

The compressive strength of steel is much greater than the shear strength (a well known property of steel). Accordingly, spherical machinery support devices that use threaded bodies to support machinery have to have a much greater diameter in order to have enough area of the threaded sections to transfer machinery loads (static and dynamic). Direct bearing of machinery loads on steel machinery supports eliminates problems that threaded load bearing sections can present.

Exactalign™ showing spherical washer.



Exactalign™ showing load transfer through circular inclined steel ramps.



Exactalign™ Machinery Support

Model Sizes

| MODEL # | BOLT Ø " (m) | NOM. HEIGHT " (m) | O.D. " (m) | I.D. " (m) | Adjust Range |
|--|----------------------|----------------------|------------------|-----------------|--------------|
| IEA1222ASX41 (4140) IEA1222ASX316 (SS) | ½ - 7/8 (12-22) | 2.0 (50.8) | 2.375 (60.3) | 1.125 (28.5) | 1.875-2.125 |
| IEA1222ASWX41(4140) IEA1222ASWX316 (SS) | ½ - 7/8 (12-22) | 2.0 (50.8) | 2.875 (73.0) | 1.125 (28.5) | 1.875-2.125 |
| IEA2448ASX41 (4140) IEA2448ASX316 (SS) | 1 – 1-7/8 (24-48) | 2.0 (50.8) | 3.72 (94.4) | 1.875 (47.6) | 1.875-2.125 |
| IEA2448ASWX41(4140) IEA2448ASWX316 (SS) | 1 – 1-7/8 (24-48) | 2.0 (50.8) | 5.22 (132.5) | 1.875 (47.6) | 1.875-2.125 |
| IEA5276ASX41 (4140) IEA5276ASX316 (SS) | 2 – 3 (52-76) | 2.0 (50.8) | 5.875 (149.2) | 3.125 (79.3) | 1.875-2.125 |
| IEA5276ASWX41(4140) IEA5276ASWX316 (SS) | 2 – 3 (52-76) | 2.0 (50.8) | 8.375 (212.7) | 3.125 (79.3) | 1.875-2.125 |

Available in alloy steel and stainless steel. Other materials available as special order on request.