ESR2
CEILING MOUNTED WORK STATION BRIDGE CRANES

Ergo Sys Rail Work Station Cranes combine superior quality and are ergonomically designed to solve your material handling needs. Our heavy-duty construction provides a product that will offer long-term reliability for years to come. THANK YOU FOR CHOOSING ERGO SYS RAIL WORK STATION CRANES.

All Ergo Sys Rail Cranes are pre-engineered for our Vacu Hoist vacuum lifting system. The Vacu Hoist plus trolley weight allowance is 15% of the crane capacity. By following the installation and maintenance procedures described herein, your Ergo Sys Rail Work Station Crane will provide many years of dependability service.

Model #: ________________________ Purchase Date: ________________________

CEILING MOUNTED WORK STATION BRIDGE CRANES
INSTALLATION AND MAINTENANCE MANUAL

ERGONOMIC MANUFACTURING GROUP, INC.
P.O. BOX 1627, SKIPPACK, PA 19474
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INSTALLATION FOR BLOCK STYLE HANGERS

1. Installing Runways. See drawing HNGR-78 on page 3

1.1 Determine exact location of suspension hangers.

**Note:** Maximum distance between hangers not to exceed 20' apart at 1000 lb. Load

1.2 Install upper suspension brackets and hangers to super structure of building, by sliding bracket item 2 under "I" beam and securing 2 clamps item 15 with bolts 5/8 diameter by 4" long and 5/8 nuts, items 10 & 12.

1.3 Drill 2 holes 3/8 diameter through rail to attach runway hanger item 7 with bolts & nuts, items 11 & 8.

1.4 Assemble pivot bar item 5 with runway suspension brackets with 5/8 diameter by 3 1/2 long shoulder screw and nut, items 13 & 14.

1.5 Secure threaded rod of pivot bar in hanger block.

**Note:** Leveling runways should be done by adjusting position of threaded rod by rotating upper and lower nuts. Level runways to ± 1/4" over a 10' distance.

1.6 Recheck all bolts and nuts to make sure that all hardware is secure.

2. Splicing Runway Sections.

2.1 Using 3/8 diameter by 5" long bolts from splice kit and 3/8 nuts attach runways.

**Note:** There should be no edges showing that would cause the trolley to catch or bind.

2.2 Check alignment. Adjust if necessary and secure tightly.
2.3 Repeat for opposing runway lengths.

**NOTE:** Maximum distance from splice joint to hanger should not be more than 7".

3. **Installing Runway Trolley and End Caps.**

3.1 Making sure there are no obstructions in rail, slide hoist trolley into runway.

3.2 Insert festoon trolley(ies) into rail, every 5' of rail has to have 1 festoon trolley.

3.3 Install end cap (kit supplied) on both ends of rail.

**NOTE:** Hose clamps on festoon trolleys are optional items.

4. **Bridge Assembly.** See drawing HNGR-90 on page 5.

4.1 Assemble upper suspension block item 7 with runway trolley. Insert clevis pin ¾ diameter by 2" long through trolley and upper block and secure it with roll pin 5/32 diameter by 1 ½ long. Make sure that roll pin extended on both sides of clevis pin approximate by equal length.

4.2 Assemble lower suspension block item 2 with upper suspension block using shoulder screw 5/8 x 3 ½ long and ½" x 13, items 11 & 9.

4.3 Drill bridge rail and assemble with bridge suspension brackets the same way as installing runway (see 1.3 through 1.5)
CHECKLIST AND MAINTENANCE SCHEDULE

The following checklist and maintenance schedule has been compiled to assist in-house personnel in maintaining a properly functioning crane system. It may be used as a basis for preventative maintenance and for drawing up an overall servicing schedule. This checklist does not specify those regular checks and inspections, which must be carried out daily or at regular intervals in accordance with regulations.

ALL BOLTED CONNECTIONS MUST BE RETIGHTENED ONE OR TWO MONTHS AFTER INSTALLATION.

<table>
<thead>
<tr>
<th>ITEM #</th>
<th>Equipment</th>
<th>To be checked by:</th>
<th>Detailed specifications for checking</th>
<th>How often</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Complete Installation</td>
<td>Electrician/Maintenance</td>
<td>Overall impression, general condition inspect with operators</td>
<td>6 months</td>
</tr>
<tr>
<td>2</td>
<td>Crane System</td>
<td></td>
<td></td>
<td>2 years</td>
</tr>
<tr>
<td>2.1</td>
<td>Suspension Hangers &amp; Clamps</td>
<td>Maintenance</td>
<td>Mounting, damage, wear</td>
<td>12 months</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Bolted connections on supporting structure (clamps)</td>
<td>12 months</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bolted connections of suspension rods (torque = 33 ft. lbs.)</td>
<td>12 months</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Depth to which threaded rods are screwed (check hole); fit and wear of sliding shell</td>
<td>12 months</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Bolted connections of track clamping fixtures; hinge sockets</td>
<td>12 months</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Stress on suspension rods (vertical play)</td>
<td>12 months</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Crane girder suspension: fit, wear, lubrication of sliding shell</td>
<td>12 months</td>
</tr>
<tr>
<td>2.2</td>
<td>Runways</td>
<td>Maintenance</td>
<td>Lubrication of hinges</td>
<td>12 months</td>
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<td>Dirt</td>
<td>12 months</td>
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<td>Wear of edges in track section gap</td>
<td>12 months</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Width of track section gap</td>
<td>12 months</td>
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</tbody>
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