



Ergosys rail

The Ergosys Rail® Edge

CEILING MOUNTED WORKSTATION BRIDGE CRANES

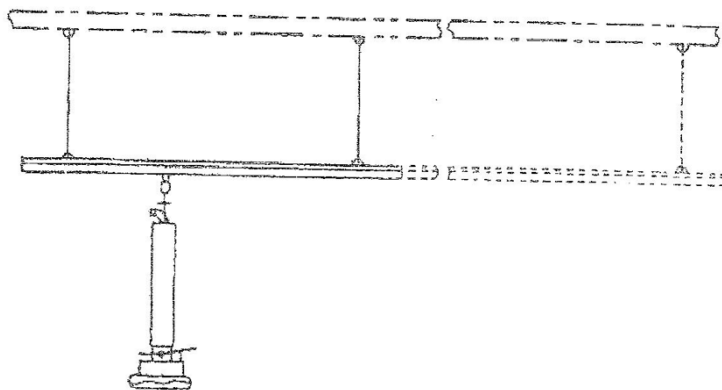
250 & 500lb capacity

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 which 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 VacuHoist vacuum lifting system. The VacuHoist plus trolley weight allowance is 15% of the crane capacity. By following the installation and maintenance procedures described herein, your Ergo Sys Workstation crane will provide many years of dependability service.

Model # _____ Purchase Date: _____

CEILING MOUNTED WORKSTATION BRIDGE CRANES INSTALLATION AND MAINTENANCE MANUAL



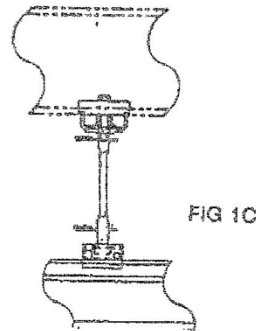
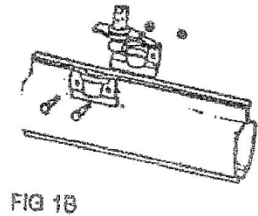
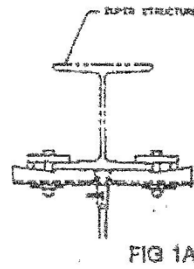
**IT IS THE CUSTOMER'S RESPONSIBILITY TO ENSURE THAT THEIR BUILDING OR SUPER
STRUCTURE IS ADEQUATE TO SUPPORT THE LOADING SHOWN.**

1.0 INSTALLING RUNWAYS

- 1.1 Determine exact location of suspension hangers.
- 1.2 Install upper suspension brackets and hangers to super structure of building. (FIG 1A)

NOTE: Maximum distance between hangers not to exceed 16' for 250lb capacity of 8' for 500 lb. capacity.

- 1.3 Attach rail suspension clamp to runways. (FIG 1B)
 - 1.4 Attach 1A with 1B by using allthread rod (supplied). Cut to required length. (FIG 1C)
- NOTE: Leveling runways should be done by lengthening or shortening the allthread rod.
- 1.5 Make sure all bolts are secure



2.0 SPLICING RUNWAY SECTIONS

- 2.1 USING 5/16" bolt splice kit (supplied) attach runways. (FIG 2)
- NOTE: There should not be any 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 be no more than 4'

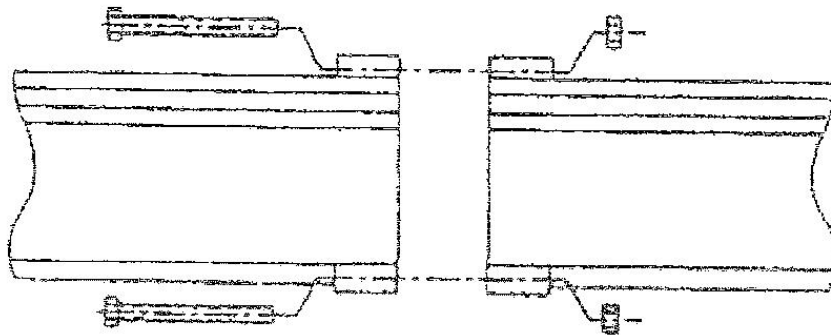
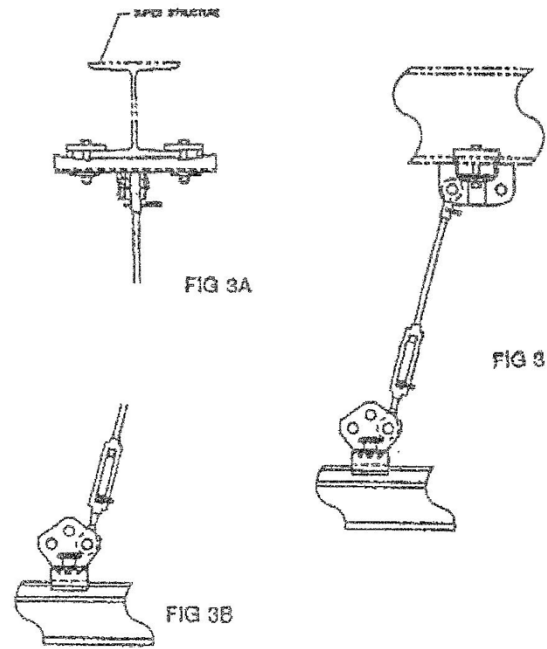


FIG 2

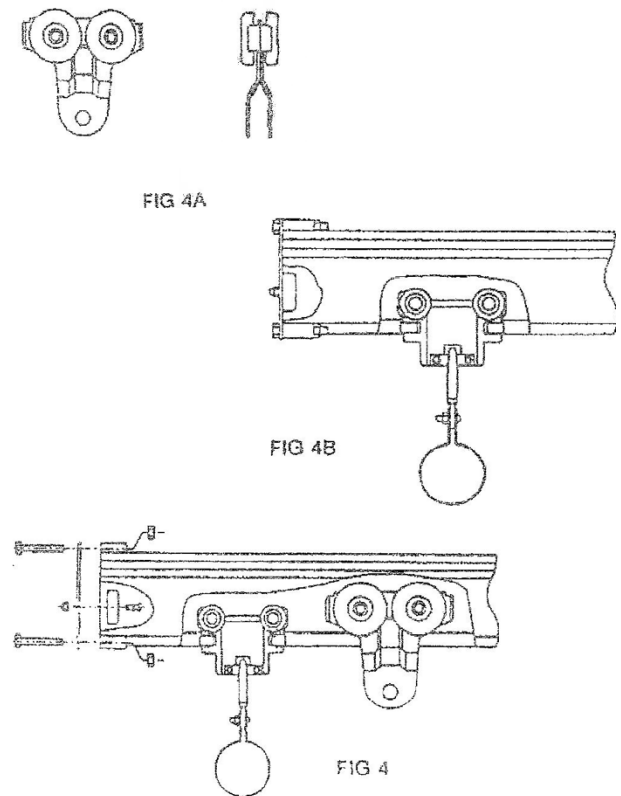
3.0 INSTALLING SWAY BRACING *

- 3.1 Location suspension point for sway bracing. (Could be necessary to install support steel for sway bracing)
- 3.2 Attach upper suspension clamp to sway bracing suspension point. (FIG3A)
- 3.3 Install sway brace suspension clamps to runways. (FIG 3B)
- 3.4 Attach 3A with 3B by using turnbuckle and eye bolt assembly (supplied). (FIG 3A)
NOTE: Leveling runways should be done by adjusting turnbuckle.
- 3.5 Make sure all bolts are secure.
NOTE: Sway bracing is only necessary on one runway.



4.0 INSTALLING RUNWAY TROLLEYS AND END CAPS

- 4.1 Making sure there are no obstructions in bridge rail, slide hoist trolley into position. (FIG 4A).
- 4.2 Insert festoon trolley(ies) in bridge rail. (FIG 3B)
NOTE: 5' of rail= 1 festoon trolley
- 4.3 Install end cap (kit supplies) to both ends of bridge rail. (FIG 4)
- 4.4 Install end cap to both ends of runways.
- 4.5 NOTE: Hose clamps are optional purchase.



5.0 BRIDGE ASSEMBLY

- 5.1 Attach suspension clamp (supplied) to bridge rail. (FIG 5A)
- 5.2 Attach bridge to runway trolley. Remove pin, align suspension clamp and re-insert (FIG 5)
- 5.3 Insert hoist trolley and festooning trollies and end cap.

NOTE: Bridge overhang past runways should not exceed 3".

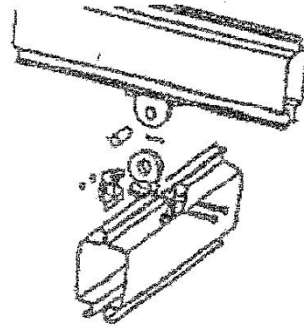


FIG 5A

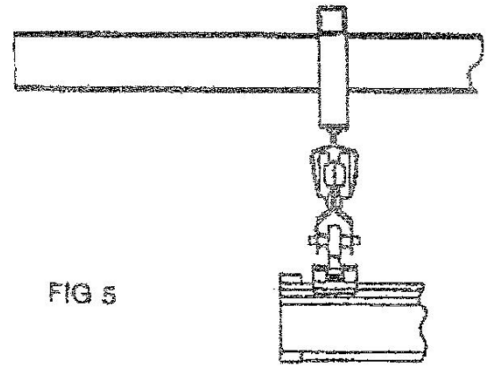


FIG 5

6.0 LEVELING CRANE SYSTEM

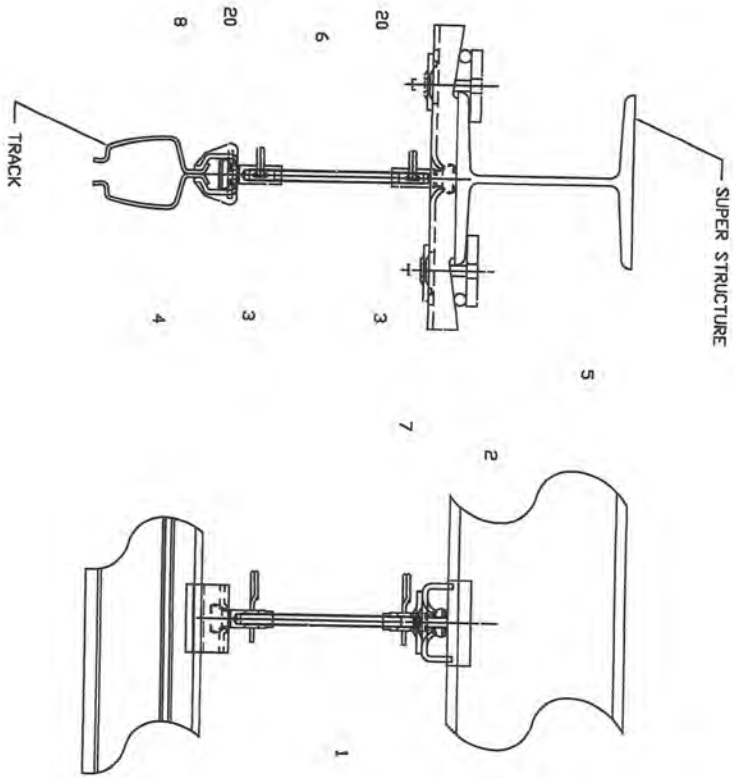
- 6.1 Level crane by lengthening or shortening allthread rods to within + or - 1/4' and parallel to within + or - 1/4 over a 10'-0" distance.

7.0 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 specific those regular checklist and inspection which must be carried out daily or at regular intervals in accordance with regulations.

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

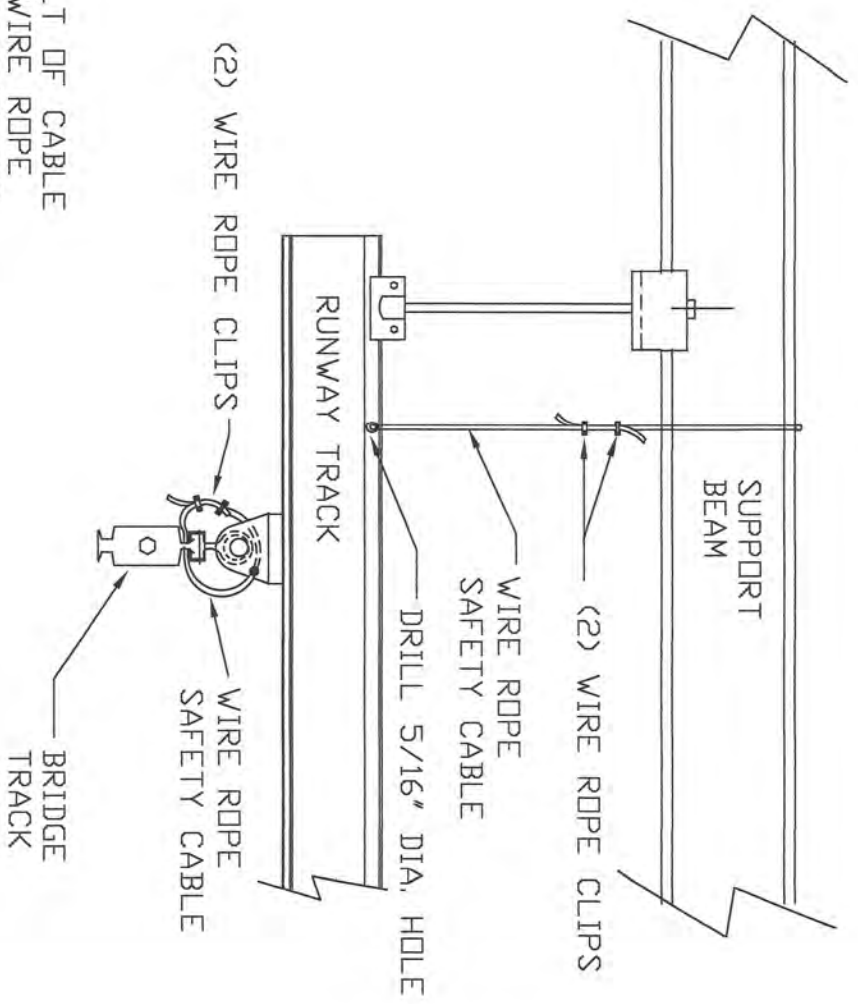
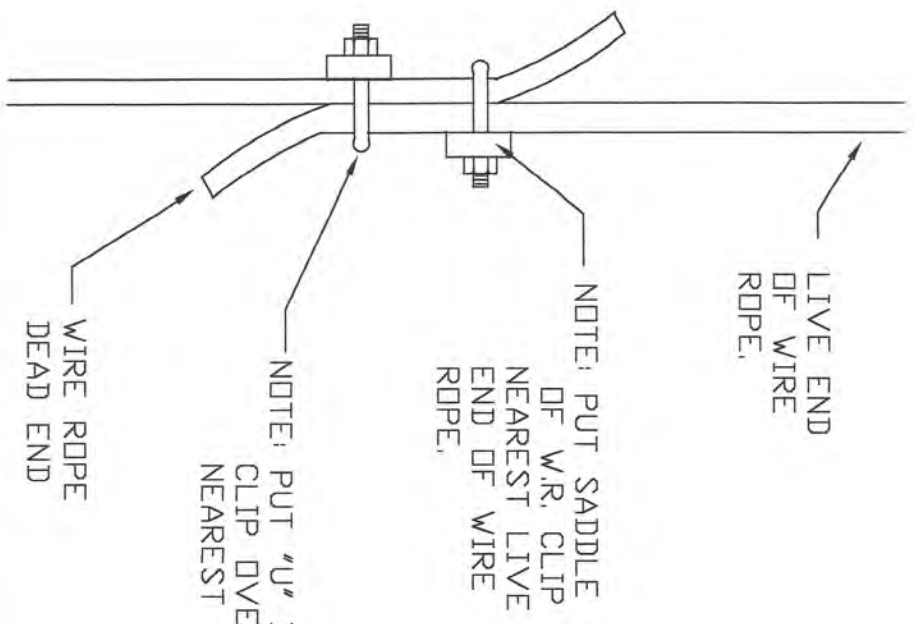
| Item No. | Equipment | To be checked by: electrician/maintenance | Detailed specifications for checking | 3 mths | 6 mths | 12 mths | 2 Yrs |
|----------|-----------------------------|--|---|-----------|-----------|------------|----------|
| 1 | Complete installation | Electrician/maintenance | Overall impression, general condition inspects with operations | | X | | |
| 2 | Crane system | | | | | | X |
| 2.1 | Suspension hangers & clamps | Maintenance | -Mounting, damage, wear - Bolted connections on supporting structure (clamps) -Bolted connections of suspension rod (torque = 33ft lbs) - Depth to which threaded rods are screwed (check holes); fit and wear of sliding shell -Bolted connections of track clamping fixtures: hinge sockets -Stress on suspension rod (vertical play) -Crane girder suspension: fit, wear, lubrication of sliding shell -Lubrication of hinges | | | X | |
| 2.2 | Runways | Maintenance | - Dirt - Wear of running surfaces -Wear of edges in track section gap Width of track section gap | | | X | |



FOR FLANGE WIDTHS FROM 4-15/16 TO 8-1/4.

| ITEM NO. | DESCRIPTION | MATERIAL | SPECIFICATION |
|----------|-----------------------------|-------------|---------------|
| 8 | SPRING CLIP | PIVOT POINT | |
| 7 | | | |
| 6 | THREADED ROD, 3/8-16 x L | HNGR-06 | HAIR-7DB |
| 5 | CLAMP SET ASSY | HNGR-14 | |
| 4 | TRACK CLAMP ASSY | AR | |
| 3 | BALL HD SUSPENSION ROD ASSY | HNGR-17 | |
| 2 | UPPER SUSPENSION BRACKET | HNGR-04 | |
| 1 | HANGER BALL & SOCKET ASSY | HNGR-01 | |
| | | HNGR-12 | |
| | | HNGR-19 | |

| | | | |
|----------------------------|--------------|------------------|-----------------------------|
| TOLERANCES EXCEPT AS NOTED | | Ergonomic MFG Gp | |
| DECIMAL | .XX = ±.015 | SCALE | 1/1 |
| FRACTIONAL | .XXX = ±.005 | DRAWN BY | PVM |
| ANGULAR | ± 1/32 | TITLE | HANGER BALL AND SOCKET ASSY |
| | ± 1° | DATE | 7/9/93 |
| | | DRAWING NO. | HNGR-19 |



| | | | | | | | | | | | | | |
|-------------|----------|---------------|-------|-------|-------------|---------|----|---|--|------------------|-------------|---------------------|--|
| DESCRIPTION | MATERIAL | SPECIFICATION | SCALE | DATE. | DRAWN T.E.K | ANGULAR | 1° | TOLERANCES EXCEPT AS NOTED DECIMAL XX = ± .015" XXX = ± .005" | | FRACTIONAL 1/32" | | Ergonomic MFG Group | |
| | | | | | | | | TITLE SAFETY CABLES, RUNWAY & BRIDGE CRANE | | DATE | DRAWING NO. | REV | |
| | | | | | | | | 3/97 | | SC-1002 | | | |