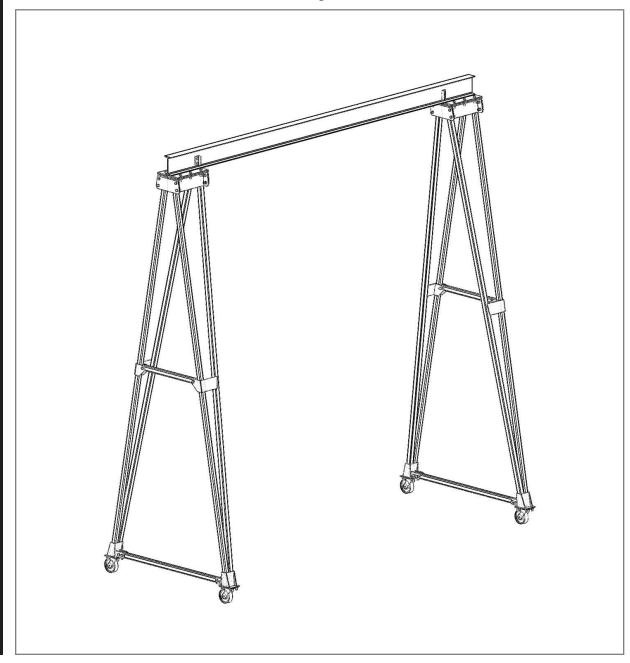


Installation and Parts Manual for SPANCO® PF Series Gantry Cranes





INSTALLATION AND PARTS MANUAL FOR PF SERIES GANTRIES

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When moving a load, keep load as close to the floor as possible and position the load in the center of the I-beam.

Ensure the load is not attached to the floor and remove any obstacles that impede lifting.

Adjustments and/or repairs should be made in an area where it will have the least interference with operation.

Ensure the rated capacity is clearly labeled on each side of the I-beam.

Do not lift or support humans without the gantry being specifically designed for that purpose.

Do not lift more than the rated capacity.

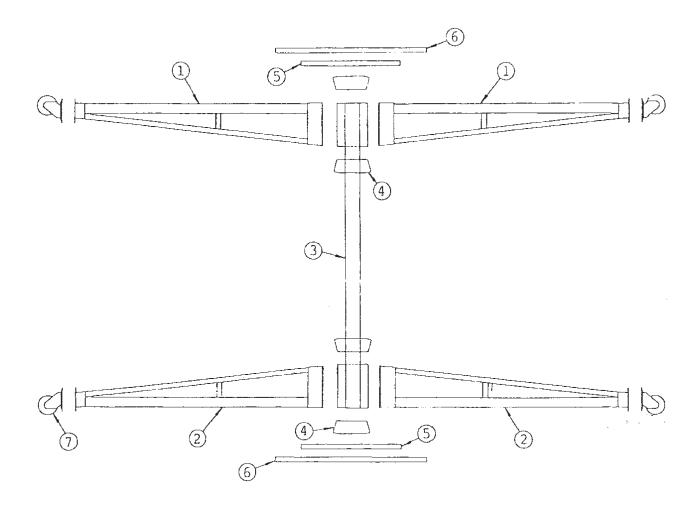
Do not push or pull unit with a forklift or other vehicle.

Do not allow the load to swing or roll against support members.

Push the gantry, not the load.

ASSEMBLY AND OPERATION

1. When possible, select an area under an overhead crane or where a forklift can be used to raise and support the bridge beam. Ensure there is no machinery or clutter nearby that will hamper free movement. All personnel should be wearing applicable safety gear such as hard hats, safety shoes, etc.



- 2. Ensure you have all the parts. Arrange parts on the floor as shown above.
 - 1. Left and right leg assembly (one end).
 - 2. Left and right leg assembly (other end).
 - 3. Bridge beam with register plates attached.
 - 4. Connecting plates.
 - 5. Upper leg brace.
 - 6. Lower leg brace.
 - 7. Casters or optional power drive.
- 3. Assemble casters or optional power drive assemblies to legs with provided hardware. Leg sets are match marked. Bolt one set of legs together using connection plates. Install upper leg brace and lower leg brace. Follow the same procedure for the other set of legs.

- 4. Using an overhead crane or forklift, raise the bridge beam so the legs can be bolted to the register plates on the under side of the bridge beam. The bolts should be tightened and torqued to valves shown in chart below.
- 5. Install hoist trolley unit on bridge beam. Trolley must be separated to install around bridge beam. Register plates are welded to bottom flange of beam so the trolley cannot be slid onto the beam from one end.
- 6. Shims are furnished for leg connections to register plates. Variations in rolled structural shapes, manufacturing, and site conditions may require shimming to plumb legs and align wheels.

Fastener Size	Torque	
1/4"	10 ft. lbs.	
5/16"	19 ft. lbs.	
3/8"	33 ft. lbs.	
7/16"	54 ft. lbs.	
1/2"	58 ft. lbs.	
9/16"	114 ft. lbs.	
5/8"	162 ft. lbs.	
3/4"	288 ft. lbs.	

This is a general chart of fastener torque values. This table is based upon Grade 5 fasteners. Note that some lower grades of bolts may not take these high torques. Reduce values accordingly.

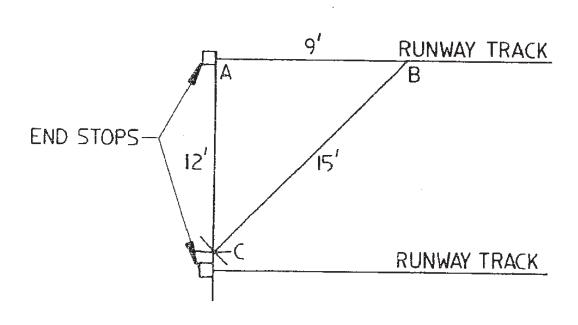
PF GANTRIES WITH POWER DRIVE OPTION

- 7. Install bridge electrification and connect all electrical components if the gantry crane is so equipped. Ensure equipment travels in direction indicated on control station. If not, correct phasing by interchanging any two incoming power wires. Do not work on electrical components unless you are a certified industrial electrician.
- 8. Check oil level in all gear boxes. Make sure all wheels and roller chains are lubricated if the gantry is furnished with power drives.
- 9. Operate the crane the full length of the runway several times to make sure it is tracking properly and it clears all obstructions. If any problems occur while tracking, the legs should be checked for being plumb. Rearrange shims to plumb legs.
- 10. A complete electrical/mechanical manual is supplied separately for power drives.

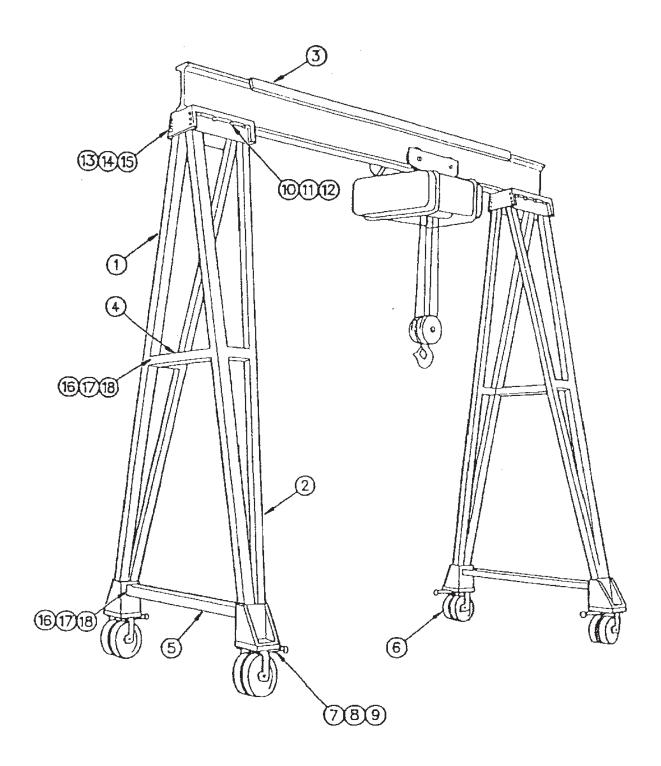
V-GROOVE INSTALLATION INSTRUCTIONS FOR GANTRY CRANES

The exact span of the crane may vary from the design span. We recommend installing the track on one side making sure that the track is straight and level. Lay one or two sections of the track down at the design span, assemble crane on the tracks following assembly instructions and operate the crane back and forth a few times, being careful not to run the crane off the tracks. The loose sections of track will float and set the track to the crane span. Once the operation span is determined, attach all the other sections of track to the floor making sure the track is straight, level, parallel, and at the same elevation as the first track. The end stops should be set square with the 3-4-5 right triangle. The sides and the hypotenuse can be multiplied by any convenient number such as three used in the example.

Set one end stop at point A, measure along runway track nine feet from point A to point B. With B as a center and fifteen feet as a radius, draw a circular arc on the floor. With point A as a center and 12 feet as a radius, draw a circular arc on the floor intersecting the other arc at C. A line running through points A and C is perpendicular, or square, with the runway track. Extend this line to the other runway track to locate the end stop on that runway. Repeat the process at the other end of the runway, or measure along each runway the same distance from these end stops for locating the stops at the other end of the runways.



EXAMPLE



BILL OF MATERIALS			
ITEM NO.	DESCRIPTION	QUANTITY	
1	LEFT LEG ASSEMBLY	2	
2	RIGHT LEG ASSEMBLY	2	
3	BRIDGE BEAM ASSEMBLY	1	
4	MIDDLE BRACE TUBE	2	
5	LOWER BRACE TUBE	2	
6	CASTER	4	
7	HEX BOLT	16	
8	HEX NUT	16	
9	LOCK WASHER	16	
10	HEX BOLT	12	
11	HEX NUT	12	
12	LOCK WASHER	12	
13	HEX BOLT	24	
14	HEX NUT	24	
15	LOCK WASHER	24	
16	HEX BOLT	8	
17	HEX NUT	8	
18	LOCK WASHER	8	
19	CAPACITY DECAL	2	
20	SAFETY INSTRUCTION MANUAL	4	
21	CAPACITY DECAL	2	

NOTE: Item No. 3 is capped when required.

Item No. 7 is replaced with welded studs when required.

Item No. 19 is for 8 inch through 12 inch I-beams.

Item No. 21 is for 15 inch through 24 inch I-beams.

If replacement parts are required, please supply the complete gantry model number and serial number from the label affixed to the A-frame as well as the item number of the part(s) on the drawing and bill of materials.

Safety instruction labels should be in readable condition at all times. If any become lost or damaged, please notify SPANCO with the gantry serial number immediately and they will be replaced at no charge.



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FIVE-YEAR EQUIPMENT WARRANTY

SPANCO offers this Equipment Warranty (the "Warranty") on the following equipment:

- Manually propelled Free Standing and Ceiling Mounted Workstation Bridge Cranes.
- Manually propelled Monorails.
- Manually propelled ALU-TRACK Bridge Cranes and Monorails.
- Manually rotated Enclosed Track and I-Beam Jib Cranes.
- · Manually propelled Gantries.
- Manually propelled Articulating Jib Cranes.
- ALL motorized SPANCO products come with a one year warranty on drive components.

SPANCO warrants the Equipment and wearable end truck and trolley wheels only, to be free from defects in material and workmanship for a period of five (5) years or 10,000 hours (whichever occurs first), commencing on the date of shipment to the first retail purchaser ("Purchaser"). This Warranty does not extend to Equipment which has been subject to misuse, use in excess of rated capacity, negligent operation, use beyond SPANCO's published service factors, improper installation or maintenance, and does not apply to any Equipment which has been repaired or altered without SPANCO's written authorization. Written notice of any claimed defect must be given to SPANCO within thirty (30) days after such defect is discovered. SPANCO's obligation, and Purchaser's sole remedy under this Warranty is limited to, at SPANCO's discretion, the replacement or repair of the Equipment at SPANCO's factory or at a location approved by SPANCO. Purchaser is responsible for all freight and transportation costs relating to the repair or replacement of the Equipment. THE FOREGOING WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES WHATSOEVER WHETHER EXPRESS, IMPLIED, OR STATUTORY. SELLER MAKES NO WARRANTY AS TO THE MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE EQUIPMENT AND MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED. SPANCO shall not be liable, under any circumstances, for any indirect, special or consequential damages including, but not limited to, lost profits, increased operating costs or loss of production. This Warranty shall not extend to any components or accessories not manufactured by SPANCO (such as casters), and Purchaser's remedy for such components and accessories shall be determined by the terms and conditions of any warranty provided by the manufacturer of such components and accessories.

SERVICE POLICY

- 1. Obtain as much information as possible concerning the problem through personal observation by yourself or other authorized personnel familiar with the job and equipment: include model, serial and/or part numbers, voltages, speeds and any other special identifying features. Be prepared to discuss the situation in detail.
- 2. All authorized labor charges will be based on straight time. Hourly rates, estimated man hours, and not to exceed total dollar amount required for corrections are to be agreed upon before authorization is given. There will be no allowances for overtime except in dire emergencies and then only with prior approval.
- 3. A verbal agreement may be reached immediately on both the method of correction and the approximate cost. A warranty authorization number will be assigned for the specific incident. A confirming written authorization will be forwarded to the distributor.
- 4. The distributor must send an itemized invoice, showing our release number or invoice number and warranty authorization number after authorized corrections have been made. A credit memo will be issued by accounting after the invoice has been received and approved. Warranty charges ARE NOT to be deducted from outstanding open account invoices under any circumstances.
- 5. Any field corrections made prior to an authorization by SPANCO will not be accepted as a warranty charge or the responsibility of SPANCO. Any modification to the equipment made without the prior approval of the seller will void all warranties. A verbal authorization for modification may be obtained, in which event a warranty authorization number will be assigned for the specific modification. A confirming written authorization will be forwarded to the distributor.

This warranty and service policy will be incorporated as a permanent section of the current price book as issued by SPANCO.