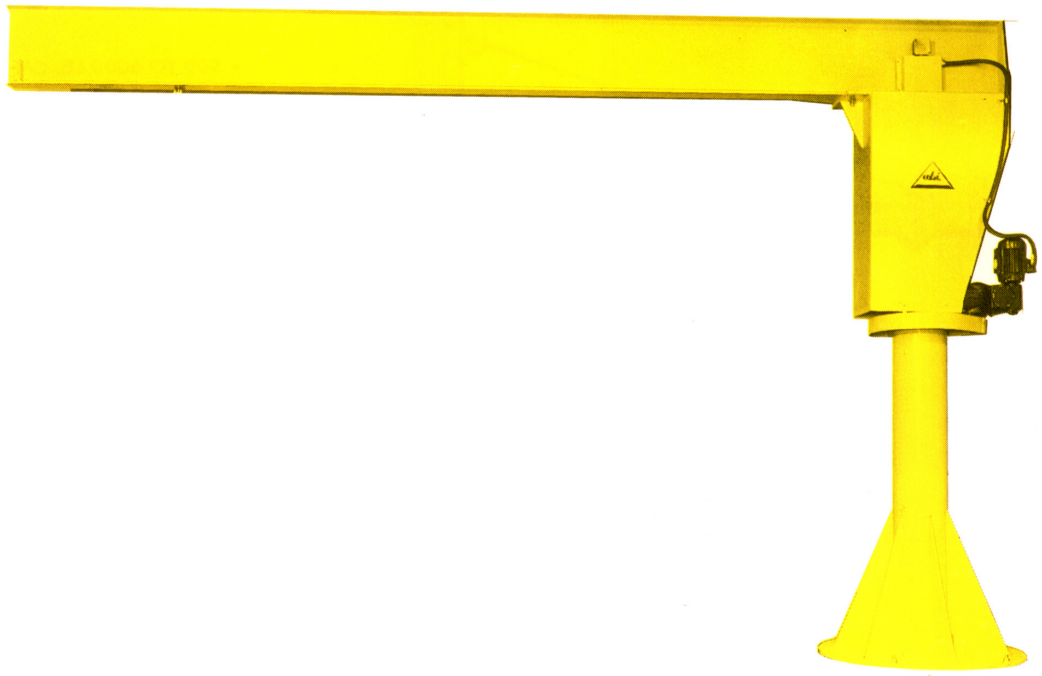
AIR TECHNICAL INDUSTRIES

Making the job easier.

FLOOR MOUNTED JIB CRANE

PARTS AND SERVICE MANUAL



Air Technical Industries
7501 Clover Avenue
Mentor, Ohio 44060
Phone: 440-951-5191
Fax: 440-953-9237
www.airtechnical.com

FLOOR MOUNTED JIB CRANE

ALL JC MODELS

TABLE OF CONTENTS

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PAGE 7	PARTS LIST
PAGE 8	ELECTRICAL SCHEMATIC
PAGE 9	INSTALLATION DIAGRAMS/PICTURES
PAGE 12	WARRANTY & RETURN POLICY

Responsibilities of Owners/Users

Deflection

It is the responsibility of the user/purchaser to advise the manufacturer where deflection may be critical to the application.

Inspection and Maintenance

The crane shall be inspected and maintained in proper working order in accordance with the manufacturer's operating/maintenance manual and safe operating practices.

Only trained personnel and authorized personnel shall be permitted to perform maintenance/service operations on the crane.

Maintenance/service personnel shall have:

- Read and/or have explained and understood, the manufacturer's operating/maintenance manual, and all safety rules and labels, prior to performing any maintenance/service operations on the equipment.
- Full time unlimited access to the manufacturer's operating/maintenance manual.

Removal from Service

Any crane not in safe operating condition such as, but not limited to, excessive leakage, missing rollers, pins, or fasteners, any bent or cracked structural members, cut or frayed electric, hydraulic, or air lines, damaged or malfunctioning controls or safety devices, etc. shall be removed from service until it is repaired to he original manufacturer's standards.

Repairs

All repairs shall be made by qualified personnel in conformance with the manufacturer's instructions.

Operators

Only trained personnel and authorized personnel shall be permitted to operate the crane.

Before Operation

Before using the crane, the operator shall have:

A) Read and/or have explained, and understood, the manufacturer's operating instructions and safety rules.

B) Inspected the crane for proper operation and condition. Any suspect item shall be carefully examined and a determination made by a qualified person as to whether it constitutes a hazard. All items not in conformance with the manufacturer's specification shall be corrected before further use of the crane.

During Operation

The crane shall only be used in accordance with the manufacturer's operating/maintenance manual.

1) Do not overload the crane.
2) Ensure that all safety devices are operational and in place.

Modifications or Alterations

Modifications or alterations of equipment shall be made only with written permission from the original manufacturer. These changes shall be in conformance with all applicable provisions of applicable standards and shall be as safe as the equipment was before modification. These changes shall also satisfy all safety recommendations of the original equipment manufacturer for the particular application of the crane.

Special Warnings, Cautions & Restrictions

Inspection

Upon receipt of the equipment, inspect thoroughly for damage sustained in transit. Make note of any noticeable or potential damage on the bill of lading. After un-packaging, inspect for any concealed damage and report immediately to the freight carrier.

Safe Operation

WARNING LABELS







GENERAL INFORMATION

You are now the proud owner/user of Air Technical Industries' Floor Mounted Jib Crane.

The Jib Crane, with its many configurations and options, is a highly versatile machine that is designed to perform a wide range of lifting, feeding, accumulating, aligning, transporting, upending, rotating, tilting and moving operations. All Jib Cranes can be manually operated free rotation, electric motor powered or air motor powered. On all powered Jib Cranes there are three control options: (1) pedestal control mounted on the unit, (2) foot operated remote control or (3) push button remote control.

The Jib Crane type lifts have the load capacity rating and serial number typed on a label plate attached to one side of the crane mast. The capacity is a gross rating for the Jib Crane not including trolley or hoist. If there are other fixtures, conveyors, etc. mounted to the beam – deduct the weight of these from the load rating to obtain the net capacity. Lifts should not be overloaded beyond the established capacity as damage may result.

NOTE: The Jib Crane is not for lifting personnel unless it is specifically intended for that purpose. The equipment is not intended for lifting objects over personnel.

OPERATING CHARACTERISTICS

ELECTRIC OPERATION:

(when equipped with powered mast rotation)

To rotate unit: Ensure unit is connected to the correct power source.

- Depress "left" button and the unit will rotate left and continue until the button is released.

- Depress "right" button and the unit will rotate right and continue until the button is released.

CAUTION: DO NOT CONTINUE TO OPERATE BEYOND THE FULL ROTATION OF THE CRANE UNLESS EQUIPPED WITH COLLECTOR RING.

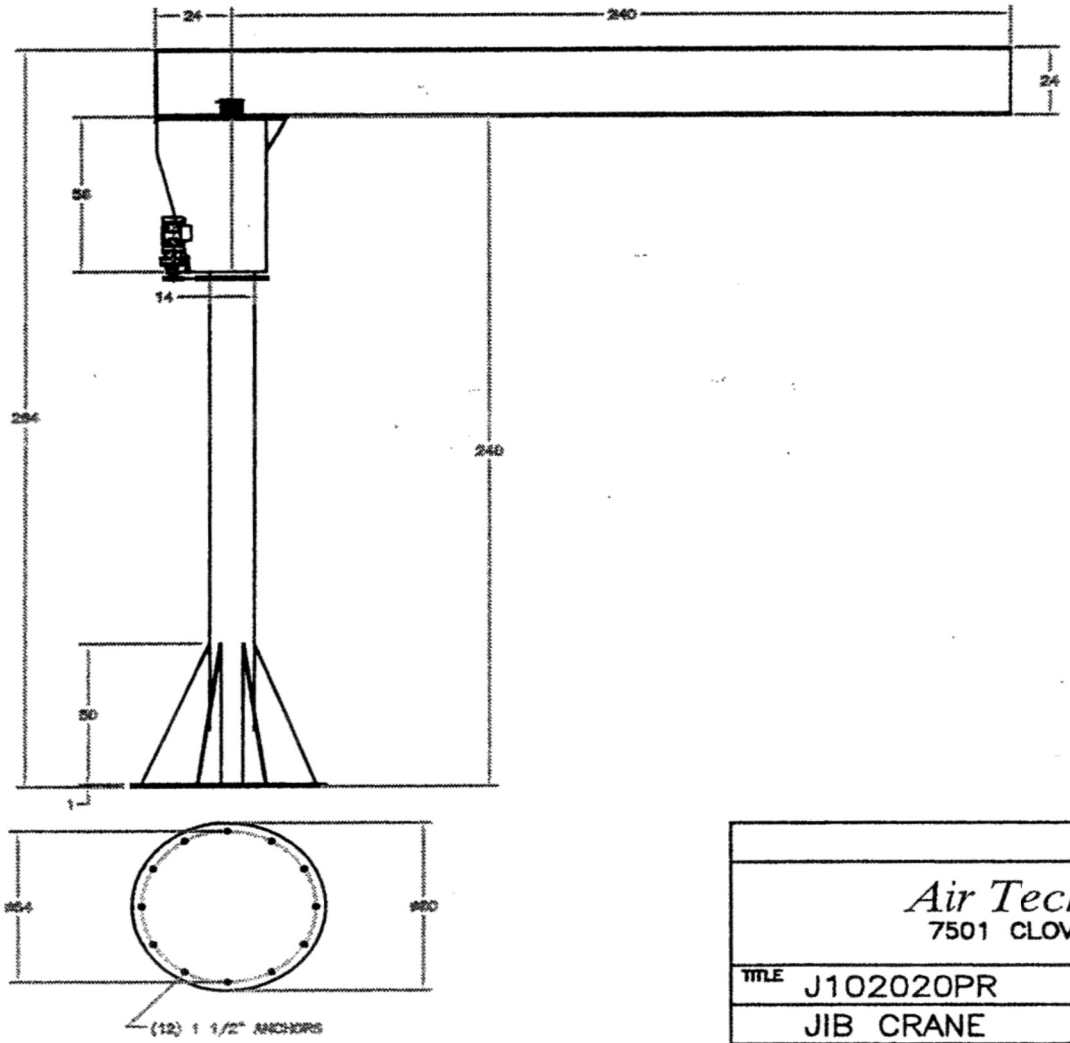
NOTE: In order to account for natural deflection of the jib boom, the boom is offset slightly in the upward direction so that when the crane is unloaded, the boom will be angled above horizontal. This is an intentional design feature. This reduces the amount of deflection of the boom below horizontal when it is fully loaded to minimize the drift of the trolley towards the end of the boom.

INSTALLATION SUGGESTIONS

Installation of hydraulic Cranes may be subject to local codes, rules and regulations, permits and inspection. Check your local and national codes and regulations first.

After the Crane has been aligned, leveled and shimmed and anchor bolts have been installed, pour grout under entire base. When set and cured, tighten nuts or anchor bolts. Prior to operating the Jib Crane, all fasteners should be tightened. The fasteners can become loose from shipping to your factory. Please refer to the installation pages herein for mounting guidelines.

DIMENSIONAL



Air Technical Industries
7501 CLOVER AVE. – MENTOR,OHIO

TITLE	J102020PR
	JIB CRANE
DWG. Type	MATERIAL
DRAWN IL	DATE 11/17/03
SCALE N.T.S.	REVISION –

REV	DATE	ENG	DESCRIPTION

PARTS LIST FOR MODEL – JC201010

POWER PACK PARTS:

ITEM 1			MOTOR/REDUCER COMBO		
HP		VOLTS	Type	Part Number	
1/4		440	SONYI/DARALI	PTSD84101	

ITEM 2			MAG STARTER		
		VOLTS	Type	Part Number	
		440	Standard	PEMS44033	

ITEM 3					
			MICRON	B050BTZ13JK	

ITEM 4			SLIP RING (COLLECTOR RING)		
			PECRKW010	R-SERIES	

ITEM 5					
		2 BUTTON		PE2STAPB0	

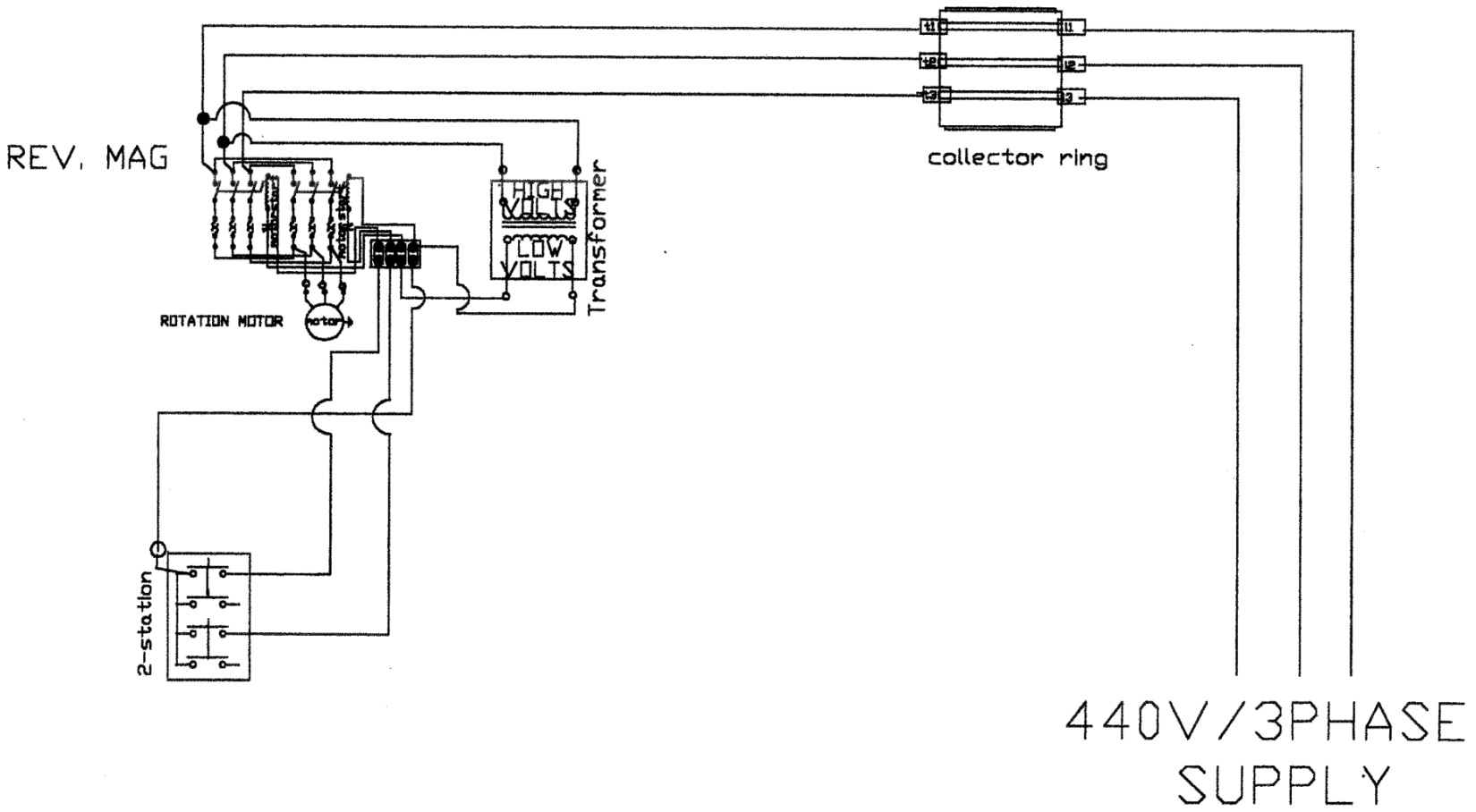
ITEM 6					
		Controller Cable		PEEW12160	

WELDMENTS

Prices for JC Weldments can be quoted at the customer's request.

NOTES

All prices listed are Price Each. Price listed is FOB Mentor, OH.

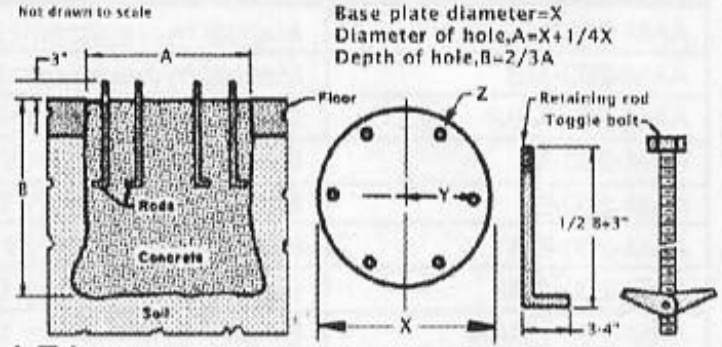

REV. MAG
collector ring
HIGH VOLTS
LOW VOLTS
Transformer
ROTATION MOTOR
motor
2-station
440V/3PHASE
SUPPLY

Easy Jib Crane Installation

1. Dig a hole to a size determined by the formula below.*
2. Prepare threaded retaining rods. Rod length should be half the hole plus 3 in. to stick out above floor level.
3. Pour concrete to half of the hole depth, perform steps 4 & 5 before it sets.
4. Use pattern to determine location of threaded retaining rods.
5. Rod should be held in position while rest of hole is filled with concrete, making sure threaded end is sticking out above floor level.

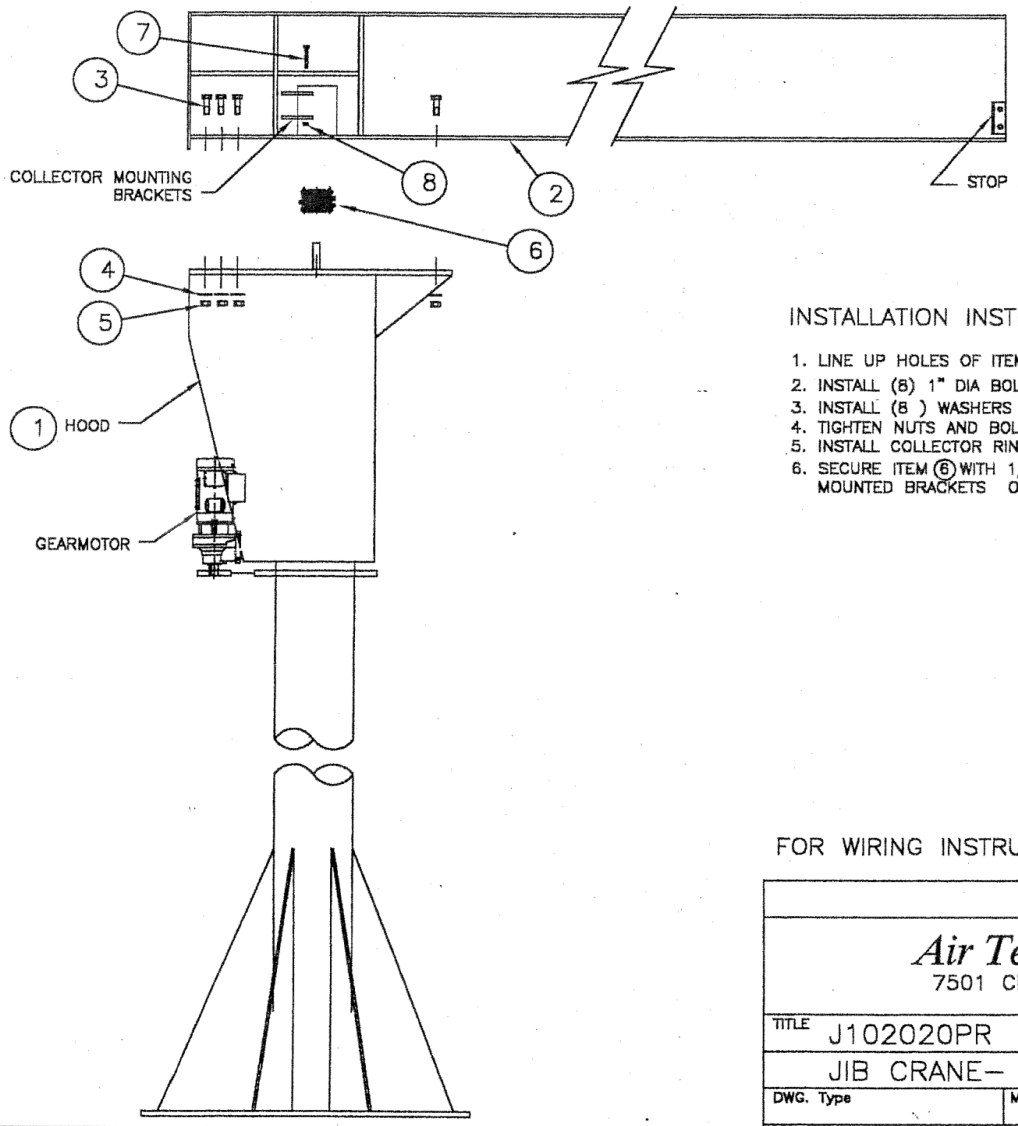
*On very sandy soil or unstable ground, the hole should be dug deeper for greater stability. **Note:** On a good 5" - 6" reinforced concrete floor, jib cranes can be installed using expansion toggle bolts (illustrated).

Base #	X (in.)	Y (in.)	Z (in.)
1	30	13	3/4 (6)
2	36	16	1 (6)
3	42	19	1 1/4 (6)
4	48	22	1 (12)
5	54	25	1 1/4 (12)
6	60	27	1 1/2 (12)



A.T.I JIB CRANE INSTALLATION TIPS

ASSEMBLY 1



INSTALLATION INSTRUCTIONS:

1. LINE UP HOLES OF ITEM (2) WITH HOLES IN HOOD (ITEM (1))
2. INSTALL (8) 1" DIA BOLTS ITEM (3) THRU MATCHED HOLES
3. INSTALL (8) WASHERS ITEM (4) & NUTS ITEM (5) FROM BOTTOM
4. TIGHTEN NUTS AND BOLTS WITH 433 FT-LGS OF TORQUE
5. INSTALL COLLECTOR RING ITEM 6 OVER PROJECTED TUBE ON HOOD.
6. SECURE ITEM (6) WITH 1/2" DIA BOLT ITEM (7) AND NUT ITEM (8) THRU MOUNTED BRACKETS ON INTEM 2

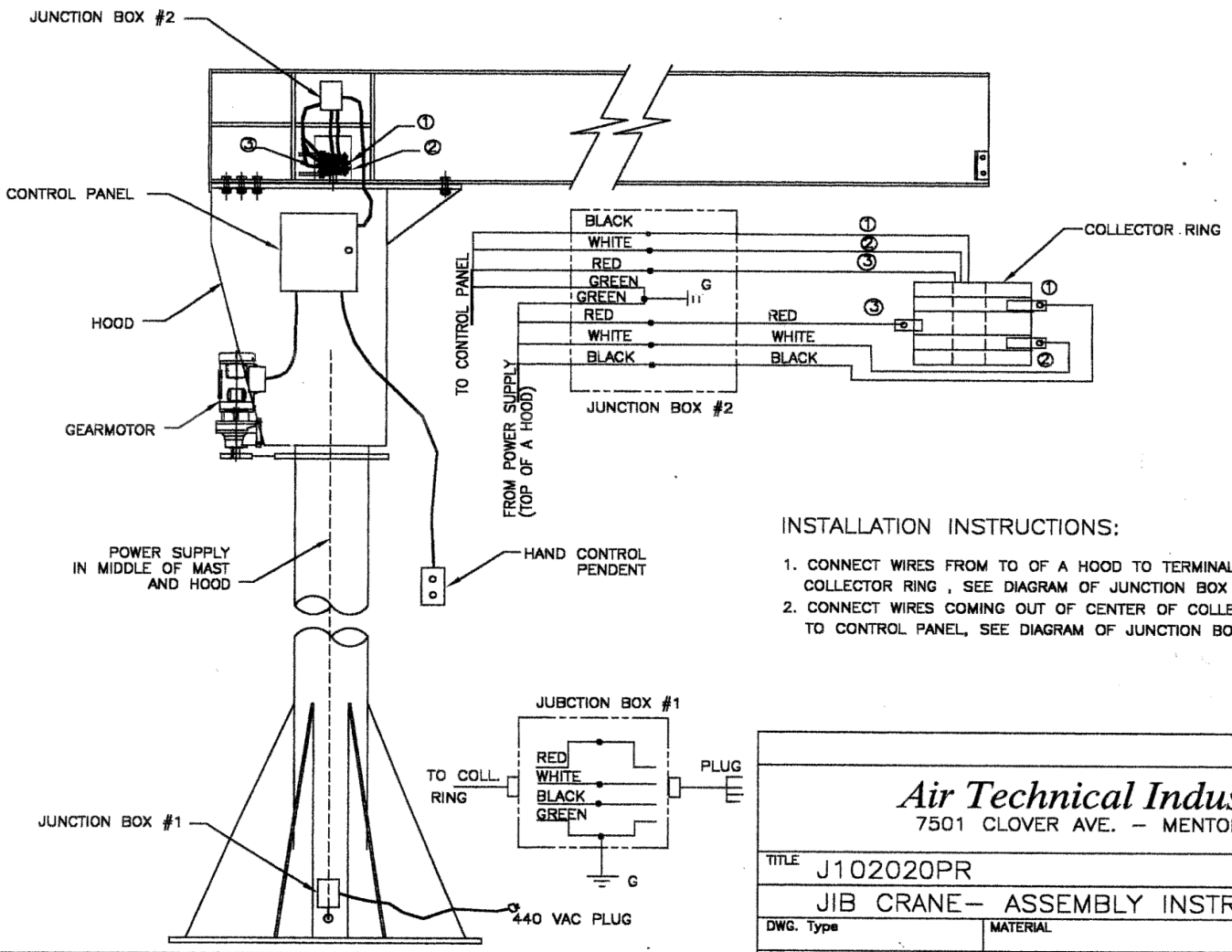
FOR WIRING INSTRUCTIONS SEE ASSEMBLY 2

REV	DATE	ENG	DESCRIPTION

Air Technical Industries
7501 CLOVER AVE. – MENTOR,OHIO

TITLE	J102020PR		
JIB CRANE– ASSEMBLY INSTRUCTIONS			
DWG. Type	MATERIAL		
DRAWN IL	DATE 11/17/03	SCALE N.T.S.	REVISION –

ASSEMBLY 2



INSTALLATION INSTRUCTIONS:

1. CONNECT WIRES FROM TO OF A HOOD TO TERMINALS 1, 2 & 3 ON COLLECTOR RING , SEE DIAGRAM OF JUNCTION BOX #2
2. CONNECT WIRES COMING OUT OF CENTER OF COLLECTOR RING TO CONTROL PANEL, SEE DIAGRAM OF JUNCTION BOX #2

REV	DATE	ENG	DESCRIPTION

Air Technical Industries
7501 CLOVER AVE. – MENTOR,OHIO

TITLE J102020PR

JIB CRANE– ASSEMBLY INSTRUCTIONS

DWG. Type	MATERIAL		
DRAWN IL	DATE 11/17/03	SCALE N.T.S.	REVISION –

DAILY CRANE INSPECTION CHECKLIST

CRANE: _____

Month: **Year:**	**Day of the month**																														
DATE OF INSPECTION:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
INSPECTION ITEM:																															
Check for tagged out of service																															
Check that travel direction vs. pendant																															
Check hook for cracks or damage																															
Check safety latch on hook																															
Check rope for: broken wires/kinks/damage																															
Check load chain for gouges and damage																															
Check load rope/chain is reeving correctly																															
Check for excessive drift in hoist and trolley																															
Check upper travel limit switch is working																															
Checked by:(Initial or N/U for not in use.)																															

Check Mark = OK
P = Problem (Do not use & notify Supervisor)

Month: **Year:**	**Day of the month**																														
DATE OF INSPECTION:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
INSPECTION ITEM:																															
Check for tagged out of service																															
Check that travel direction vs. pendant																															
Check hook for cracks or damage																															
Check safety latch on hook																															
Check rope for: broken wires/kinks/damage																															
Check load chain for gouges and damage																															
Check load rope/chain is reeving correctly																															
Check for excessive drift in hoist and trolley																															
Check upper travel limit switch is working																															
Checked by:(Initial or N/U for not in use.)																															

Check Mark = OK
P = Problem (Do not use & notify Supervisor)

Warranty and Service

Air Technical Industries warrants that its products shall be free from defects in materials and workmanship under normal and ordinary usage when owned by the original purchaser for a period of twelve months from the date such products are shipped from Air Technical Industries. Hydraulic and electrical components are warranted for 90 days. The customer must cease use of the product pending Air Technical Industries' substantiation of any warranty claim. In the event that a product defect shall occur during the warranty period, Air Technical Industries will provide replacement parts free of charge. Any unauthorized repairs on said products will render the warranty null and void. By accepting product delivery, purchaser agrees to the terms of this warranty. Due to their design and construction, Air Technical Industries' products are not crated. Contact us for specific crating charges. No product can be returned unless or until a Return Authorization Form is submitted with required signature of the customer. The following schedule of charges will apply for return of <u>standard units</u>:

Less than 2 weeks:	25% restocking fee plus shipping charges
More than 2 weeks – up to 90 days:	40% restocking fee plus shipping charges

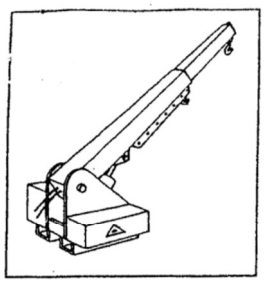
No returns will be accepted after 90 days.

AT NO TIME WILL A CASH REFUND BE ISSUED. CREDITS ISSUED MAY ONLY BE APPLIED TOWARDS THE PURCHASE OF NEW EQUIPMENT.

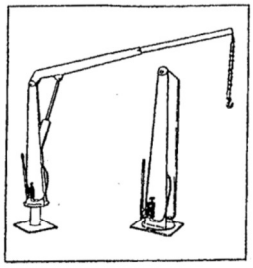
Service is available in many cases through local dealers and service centers in the USA; please contact Air Technical Industries' Customer Service for appropriate contacts and arrangements.

For locations outside of the USA, Air Technical Industries will work with the customer over the phone, email, and/or facsimile to resolve any usage or equipment problems and make available parts and information to assist the customer's technical staff to effect needed changes. In most situations, issues can be resolved in this manner. In some instances, where major damage has been encountered, the unit will need to be returned to Air Technical Industries for inspection, correction, and re-certification to new condition. Please contact Air Technical Industries' Customer Service for details and any charges that may apply.

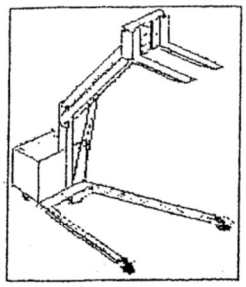
ATI Customer Service and Parts – (440) 951-5191 or cs@airtechnical.com



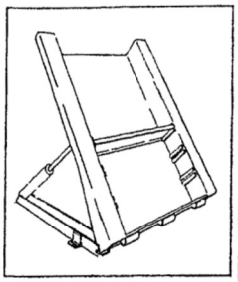
JibMaster



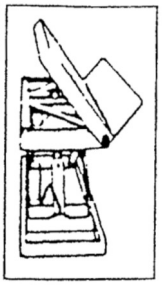
Truck mounted Foldable Crane



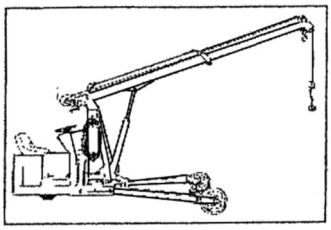
Universal Lift



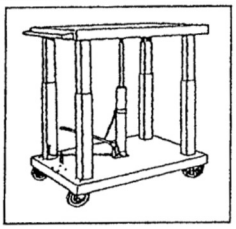
Zero-Low Crate Positioners



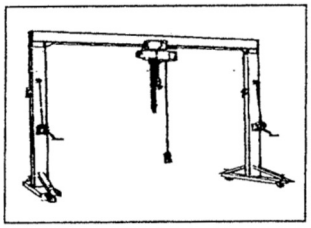
Lift & Tilt Tables



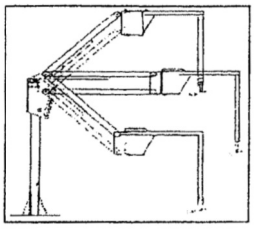
Port-O-Giant



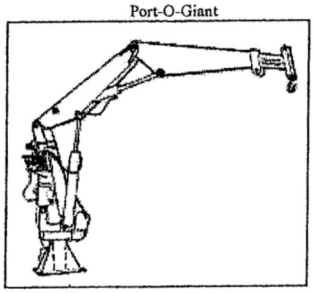
Post Tables



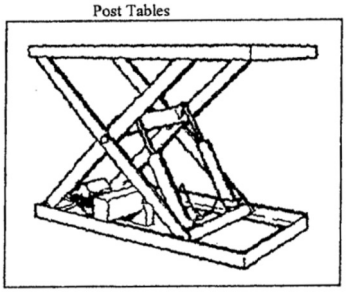
Gantry Cranes



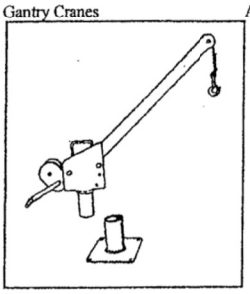
Articularm Manipulator



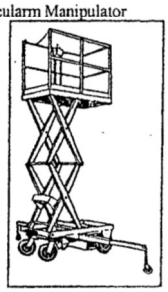
Knuckle Cranes



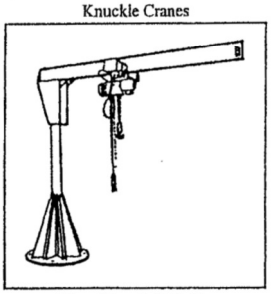
Scissor Lift Tables



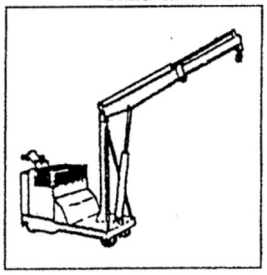
Truck Mounted Pick-Up Crane



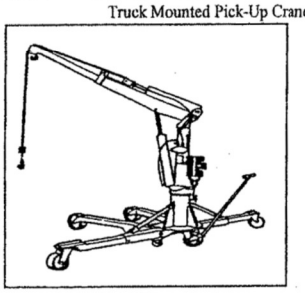
Maintenance Lifts



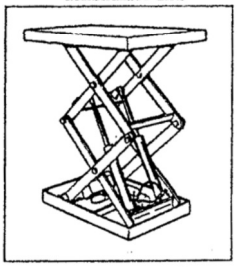
Floor Mounted Jib Cranes



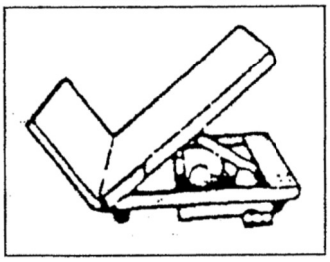
Reversible Boom Crane



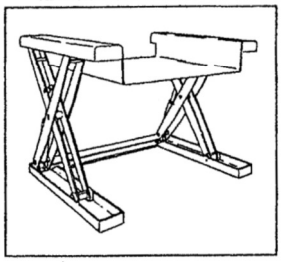
Super Master



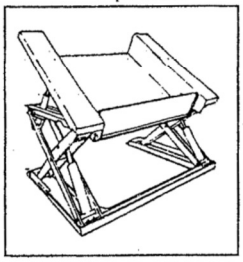
Double Scissor Lift Table



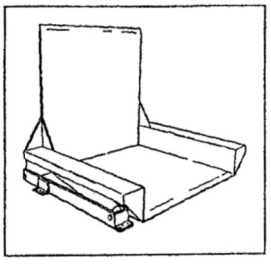
Crate Positioner



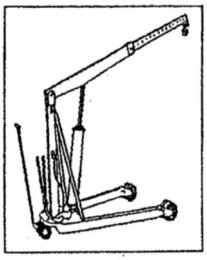
Zero-Low Lift Table



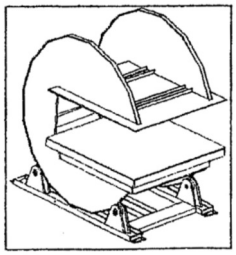
Zero-Low Lift & Tilt



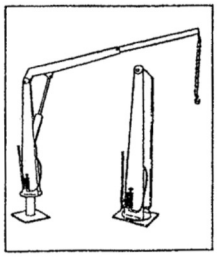
Zero-Low Up-Ender/Positioner



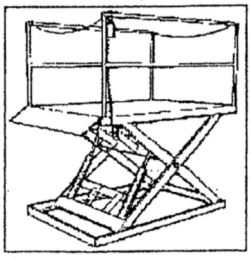
Husky Master



Upender-Inverter



Truck Mounted Foldable Crane



Magic Dock Scissor Lift