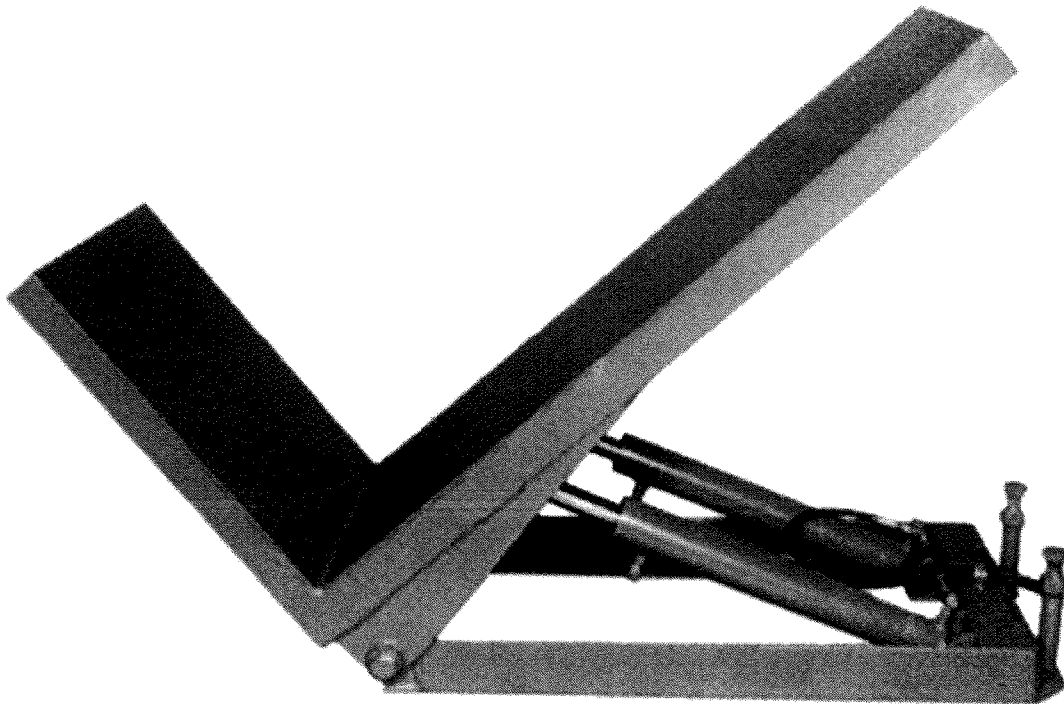




CRATE POSITIONER



PARTS AND SERVICE MANUAL

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

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 table 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 table.

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 table 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 the 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 table.

Before Operation

Before using the table, the operator shall have:

- Read and/or have explained, and understood, the manufacturer's operating instructions and safety rules.
- Inspected the table 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 table.

During Operation

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

- Do not overload the table.
- 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 table.

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GENERAL INFORMATION

You are now the proud owner/user of an Air Technical Industries, hydraulic-operated lift.

This lift 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 units can be manually operated, electric motor powered or air motor powered. On all powered units there are three control options: (1) pedestal control mounted on the unit, (2) foot operated remote control or (3) push button remote control.

The hydraulic lifts have the load capacity rating and serial number typed on a label plate attached to one side of the lift. The capacity is a net capacity rating for a lift furnished with the standard specifications. The relief valve of the hydraulic pump has been set to raise the rated capacity, plus a small amount for overload. If there are other fixtures, conveyors, etc. Mounted to the platform 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 hydraulic lift 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

FOR RAISING THE LIFT

The hydraulic system, usually contained in the base of the lift, consists of a directly coupled motor-pump combination, oil reservoir, solenoid operated lowering valve and all necessary plumbing. The hydraulic pump is a positive displacement design, and operates at a usual working pressure of 1500-1800 PSI. A fine mesh screen is provided for protection of the pump. This screen is located adjacent to the output port of the reservoir. A pre-adjusted, built-in, relief valve protects the pump discharge from the effects of overloading.

The operating principle provides that the pump is operated to raise the lift and the pump is stopped when the table attains the desired raised height. A check valve between the pump holds the hydraulic cylinder at the raised height.

FOR LOWERING THE LIFT

The solenoid is energized to allow fluid to return from the hydraulic cylinder to the reservoir. An adjustable flow control valve is connected in the return line to limit the lowering speed under full load conditions.

All automatic controls, added to the lift table, must include provisions for immediately shutting off the pumping unit at the top travel of the table and de-energizing the solenoid at the bottom travel of the table.

BASIC OPERATING INSTRUCTIONS

MANUAL OPERATION:

TO RAISE LIFT: Close lowering valve located next to the hand pump and actuate pump handle.

TO LOWER LIFT: Slowly open the lowering valve

ELECTRIC OR AIR OPERATION:

TO RAISE LIFT:

- (1) Insure unit is connected to the correct power source
- (2) Depress "up" button or foot pedal-unit, the unit will raise and continue until the button or foot pedal is released

CAUTION: DO NOT CONTINUE TO OPERATE BEYOND THE FULL EXTENSION OF THE CYLINDER

TO LOWER LIFT: Depress "down" button or pedal, the unit will lower and continue to lower until the button or foot pedal is released.

Prior to operating the lift table, the hydraulic fittings should be tightened. The fittings can become loose from shipping to your facility.

The hydraulic reservoir should be filled to within 1" (one inch) of the top of the tank, with the table in the lowered position. Spillage can occur, through the vent plug, in the top of the tank during shipment. The fluid is coming from the vent plug. Wipe off all surfaces of any spilled hydraulic fluid.

ELECTRICAL NOTES AND PROCEDURES

110 Volt requires a 20 Amp fuse, three prong plug with ground.

All three phase motors are dual voltage and need to be wired for 208, 230, or 460.

Always check to ensure the proper rotation of the motor.

The transformer in the magnetic starter box MUST be wired to the proper voltage. H1 & H4 = 460 Volts, H2 & H4 = 230 Volts
H3 & H4 = 208 Volts.

BASIC ADJUSTMENT INSTRUCTIONS

TABLE LOWERING SPEED TOO FAST-Turn lowering valve to limit flow of oil back to reservoir

TABLE LOWERING SPEED TO SLOW-Turn lowering valve to increase flow of oil back to reservoir.

LUBRICATION AND MAINTENANCE INSTRUCTIONS

We recommend that lubrication and preventative maintenance work should be conducted on a regular schedule that is established through experience gained during the first few months of operation. The need for lubrication and inspection is largely proportional to actual service duty, environment and application.

We recommend that the lift should be lubricated and completely inspected at least once a week during the first month of regular operation. Inspection should include a careful examination of all fastenings, fulcrum pins, rolling surfaces and rollers, hydraulic connections, electrical systems and general functions. The lift should be cleaned and clear of accumulation of debris, water, etc. Consideration must be given to a means for the prevention of such conditions.

The hydraulic reservoir should be filled to within 1" (one inch) of the top of the tank, with the table in the lowered position.

Recommended hydraulic oils (non-foaming)

NORMAL CONDITIONS:

CHEVRON EP-9	STANDARD OIL
DURO AWS-150	ATLANTIC RICHFIELD
TELI US #32	SHELL OIL
DTE #24	MOBILE OIL

HIGH TEMPERATURE:

CHEVRON EP-15	STANDARD OIL
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The use of multi-grade motor oils with SAE 510-10W-20W/20 or SAE 10W-20W-30 non-detergent is permissible where the above oils are not readily available.

NOTE: Do not use hydraulic fluids which contain additives that may swell or dissolve certain packing materials normally used in systems designed for petroleum oils. For special fluids consult the factory.

CAUTION: Over-filling the hydraulic tank will cause overflow when the table is lowered.

Periodically scheduled greasing of the lift provides the opportunity for general inspection, insuring the proper maintenance of the equipment.

TROUBLE SHOOTING SERVICE SUGGESTIONS

WARNING: Before attempting to work on the lift, always place blocks to support the platform or support unit to prevent downward movement. This provides protection for the worker.

NOTE: We recommend a top travel limit switch with velocity fuses.

- 1) **UNIT WILL NOT LIFT LOAD:**
Increase pump pressure, turn the hydraulic pressure bypass adjustment clockwise. This bypass adjustment is located on the side of the hydraulic pump.

- 2) **LIFT WILL NOT RAISE:**
A. CHECK THE POWER SUPPLY AND ELECTRICAL CIRCUIT

Pump motor starter (if provided). On new installations of 3 phase motors, if the lift does not start raising in approximately 10 seconds, reverse line leads.

(WARNING: Do not run the pump backwards or without hydraulic oil)

- B. CHECK OIL LEVEL
(WARNING: Do not overfill)

With lift in full up position, oil level should be 1 to 2 inches above bottom of the tank

- 3) **LOWERING VALVE STUCK IN OPEN POSITION**
Flush lowering valve by operating up and down controls simultaneously

- 4) **LIFT RAISES SLOWER THAN SPECIFIED RATE OR WILL RAISE ONLY PARTIAL LOAD:**
A. CHECK LINE VOLTAGE UNDER LOAD CONDITION

Low voltage affects speed and capacity

- B. SUCTION LINE MAY LEAK
Tighten fittings

- C. RELIEF VALVE MAY LEAK
Remove foreign matter from valve and adjust to ¼ turn beyond what is required to lift load

- D. INSPECT LOWERING VALVE
Disassemble valve and look for foreign material under valve seat

- E. CHECK FILTER IN TANK FOR FOREIGN MATERIAL

- 5) **LIFT SLOWLY WITH LOWERING VALVE CLOSED:**
- A. **INSPECT CHECK VALVE**
 - Remove cap, spring and ball and inspect for foreign matter
 - B. **FLUSH LOWERING VALVE**
 - By operating up and down controls simultaneously. This should be done with no load
 - C. **DISASSEMBLE LOWERING VALVE**
 - Look for foreign material under valve seat

- 6) **LIFT WILL NOT LOWER:**
- A. **TEST VALVE COIL FOR OPERATION**
 - Check voltage at coil
 - B. **LOWERING VALVE CLOSED**
 - Open valve and adjust for lowering speed
 - C. **VELOCITY FUSES**
 - Flow adjustment instructions for velocity fuses

- 7) **LIFT WILL NOT RAISE FULL VERTICAL TRAVEL:**
- A. **CHECK FOR LOW OIL LEVEL**
 - B. **IF FOAM IS VISIBLE IN TANK OIL**
 - Check for leaks in suction line between pump and tank

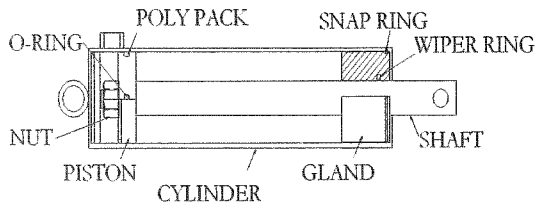
- 8) **LIFT WILL NOT MAINTAIN HEIGHT AND LOWERS SLOWLY WHEN DOWN BUTTON IS NOT DEPRESSED.**
- A. Check the pressure relief valve, do to an overload on the table, the relief valve may have activated. Debris can be entrapped not allowing the valve to close. Take the relief valve apart and clean it completely. Reassemble and adjust to ¼ turn beyond what is required to lift load.
 - B. The check valve may need cleaning or replacement.
 - C. Clean the strainer in the tank for foreign matter.
 - D. Check and clean the lowering valve for debris.

- 9) **LIFT DOES NOT LOWER SMOOTHLY:**
- A. Run lift UP and DOWN under load to purge air from hydraulic system

- 10) **IF HYDRAULIC CYLINDER APPEARS TO BE LEAKING THROUGH TOP AIR VENT HOLE:**
- A. **RAISE AND LOWER TABLE**
 - Raise and lower the table (under load) to maximum, if oil is still leaking through vent hole-check cylinder packing.

HYDRAULIC CYLINDER

EXHIBIT 6



Defective and worn parts should be replaced. We suggest a cylinder repair kit to replace all worn poly packs, "O" rings and wipers. Rebuild the cylinder provided there has been no physical damage to the cylinder or any vital components.

For a smoother "break-in" period on new or rebuilt cylinders, we recommend to add STP or equal to the cylinder walls and shafts.

NOTE:

To prevent any accidents when performing maintenance of the hydraulic cylinders, lower the table, remove the top or hinge top up, or place a suitable support (stop) between the rollers and the end of the frame.

REPAIR KITS;

Repair kits are available from the factory. When ordering parts, specify the cylinder bore and whether it is single acting or double acting.

DISASSEMBLY PROCEDURE

A repair kit should always be on hand before disassembling since parts can become damaged when the piston is withdrawn and passes over the snap ring groove on the cylinder wall. Discard any such damaged parts and replace with new. Disassemble as follows:

1. Push the gland back into the cylinder until snap ring is free.
2. Remove the snap ring and pull out shaft, gland and piston assembly.

To replace poly pack, "O" rings and wipers, it is only necessary to spring the parts out of the grooves and remove them longwise over the lands of the piston and glands.

ASSEMBLY PROCEDURE

Clean piston and cylinder and remove any scratches or burrs that might damage sealing parts or prevent proper sealing function.

Lubricate lands and grooves and install new parts. Reassemble piston/rod assembly, gland and snap ring in the reverse order of dis-assembly.

PHYSICAL SIGNS OF INTERNAL PROBLEMS

1. HYDRAULIC FLUID LEAKING OUT OF THE AIR BREATHER HOLE
-(Single acting cylinder) The poly pack needs to be replaced
2. DOUBLE ACTING CYLINDER OPERATES TO SLOW OR DOES NOT OPERATE
-The poly pack needs to be replaced
3. VISIBLE LEAKAGE AROUND TOP OF GLAND
-The "O" ring needs to be replaced
4. RUBBING NOISE OR SQUEAL (EXCEPT NEW CYLINDERS)
-The poly pack needs to be replaced
5. JERKING MOTION OF SHAFT
-Air in hydraulic system purge air

PHYSICAL SIGNS OF EXTERNAL PROBLEMS

1. VISIBLE LEAKAGE NEAR PORTS
-At bottom near end, and on cylinder-tube wall- replace cylinder
2. BENT ROD/SHAFT
-Straighten or replace
3. BINDING CYLINDER
-Check pivot points
4. SCORED OR RUSTY ROD SHAFT
-Replace wiper ring and if necessary the shaft

PUMPS

ADJUSTMENTS:

The built-in relief valve is set at 2000PSI at factory. Do not readjust to exceed this setting as full load working pressure is 1700 PSI.

Do not attempt to replace gears, bearings, shafts or other major parts of the pump. Order a replacement pump head, identified by the nameplate data, stamped on pump body and plate. When assembling pump on motor, be sure the intermediate coupling slot aligns with motor shaft tang.

CAUTION:

Do not operate this pump against the relief valve by overloading or in the extreme raised position any period greater than five seconds. When "Automatic Return" controls are used provision must be made to stop the pump immediately upon reaching the raised position.

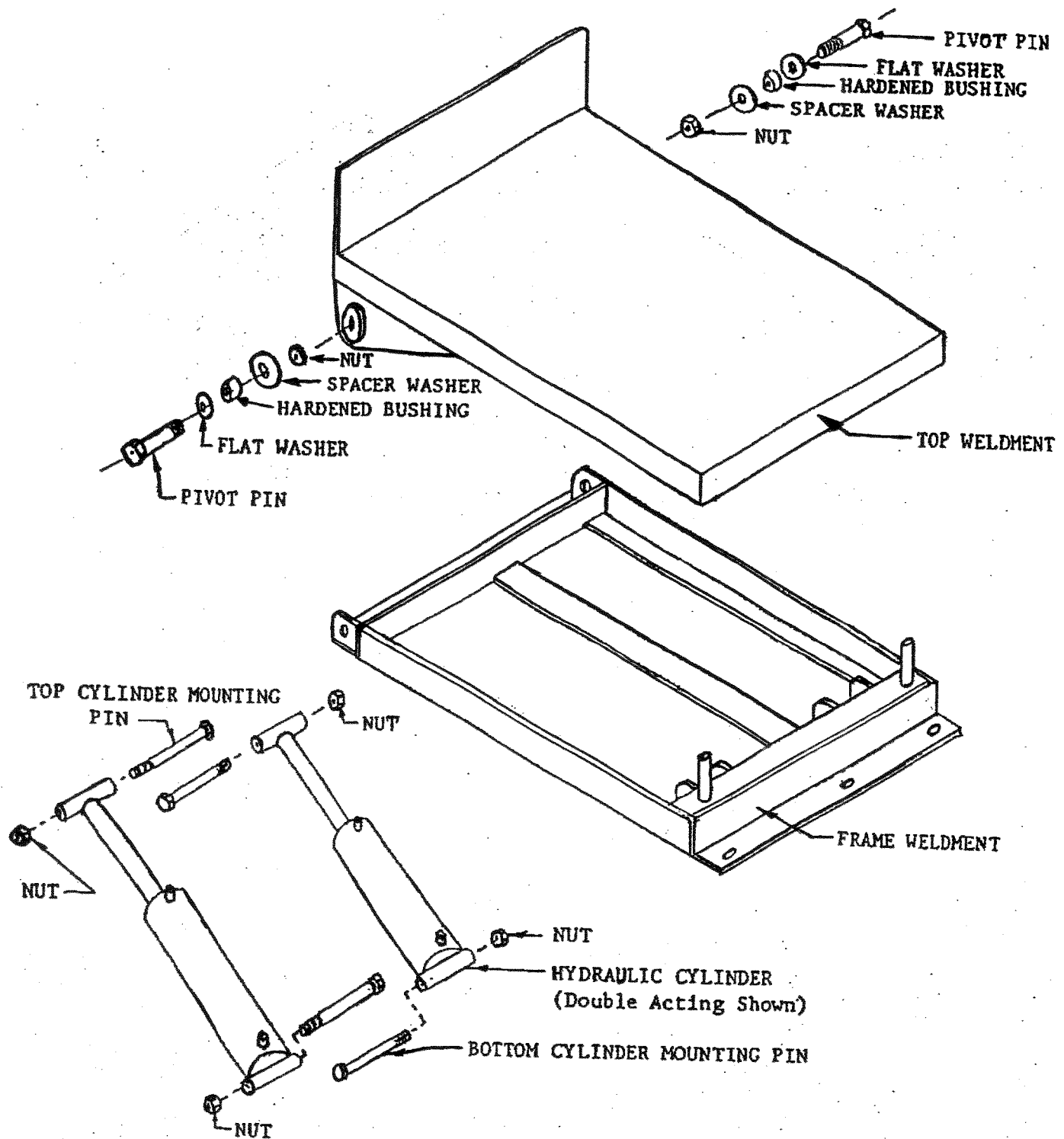
Do not run the standard pumping unit continuously or use on applications requiring more than five starts per minute in continuous service. A special pump unit, externally mounted, equipped with a continuous duty motor and normally open by-pass valve can be furnished for high frequency starts.

WARRANTY

Air Technical Industries products are unconditionally guaranteed against defects in workmanship and materials; unless otherwise agreed in writing, the seller makes no other warranties expressed or implied, which extends beyond the description of the goods.

- A. One year on all structural parts and components
- B. Ninety (90) days on electrical and hydraulic components

Before any repairs are made or damaged equipment returned, written permission must be obtained from Air Technical Industries. Labor to replace defective components is not considered part of the warranty.



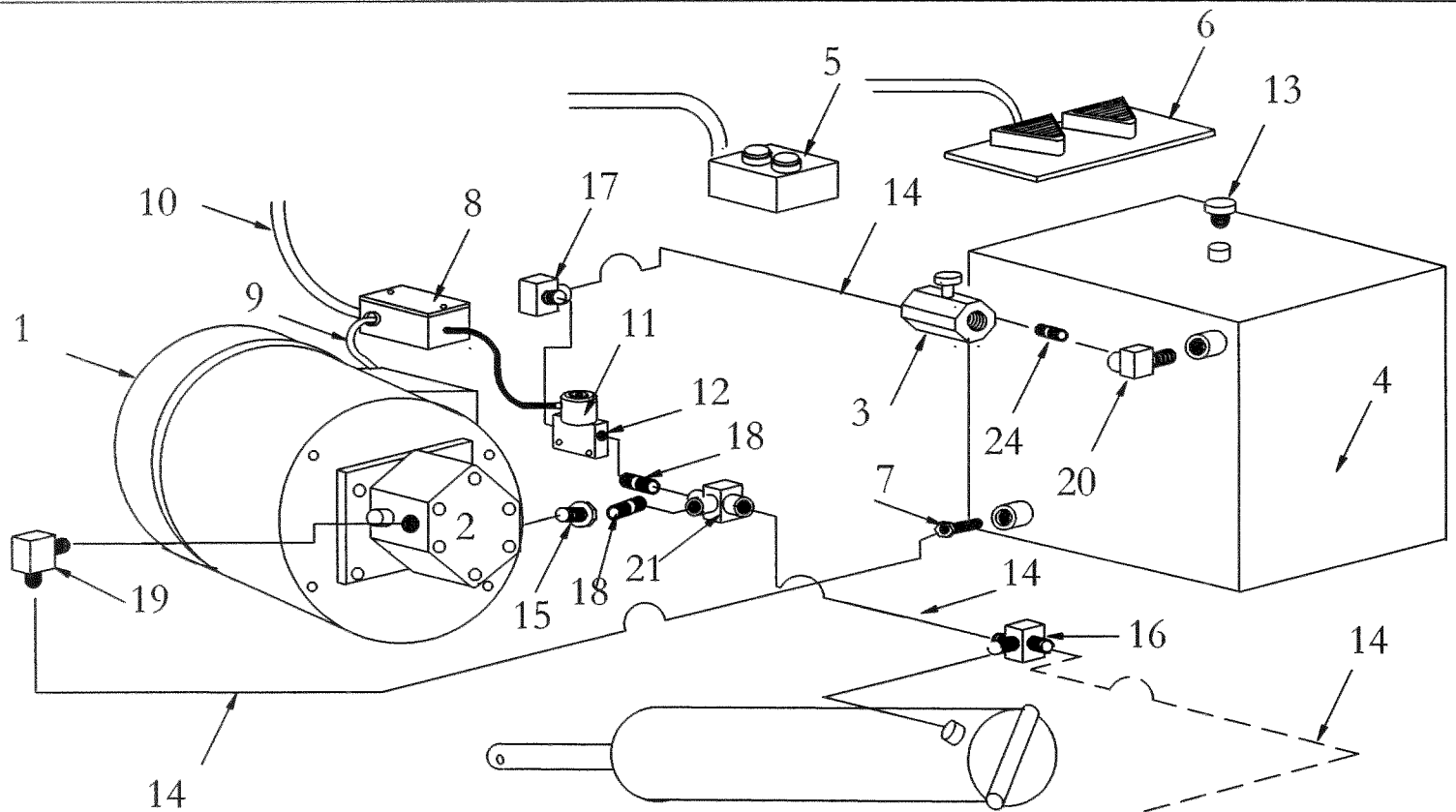
Typical A.T.I. Crate Positioner Assembly

<u>SPECIFICATIONS</u>				
CAPACITY (lbs.)	TABLE SIZE (in.)	<u>MODEL NO., CRATE POSITIONER</u>		
		MANUALLY OPERATED	ELECTRIC MOTOR	AIR MOTOR
2000	24 X 48	SCP-2000	SCP-2000-E	SCP-2000-A
4000	32 X 60	SCP-4000	SCP-4000-E	SCP-4000-A
6000	36 X 60	SCP-6000	SCP-6000-E	SCP-6000-A
6000	48 X 72	SCP-6048	SCP-6048-E	SCP-6048-A
6000	72 X 96	SCP-6072	SCP-6072-E	SCP-6072-A
8000	36 X 60	SCP-8000	SCP-8000-E	SCP-8000-A
8000	48 X 72	SCP-8048	SCP-8048-E	SCP-8048-A
10000	48 X 72	SCP-10000	SCP-10000-E	SCP-10000-A
10000	60 X 96	SCP-10060	SCP-10060-E	SCP-10060-A
10000	72 X 96	SCP-10072	SCP-10072-E	SCP-10072-A

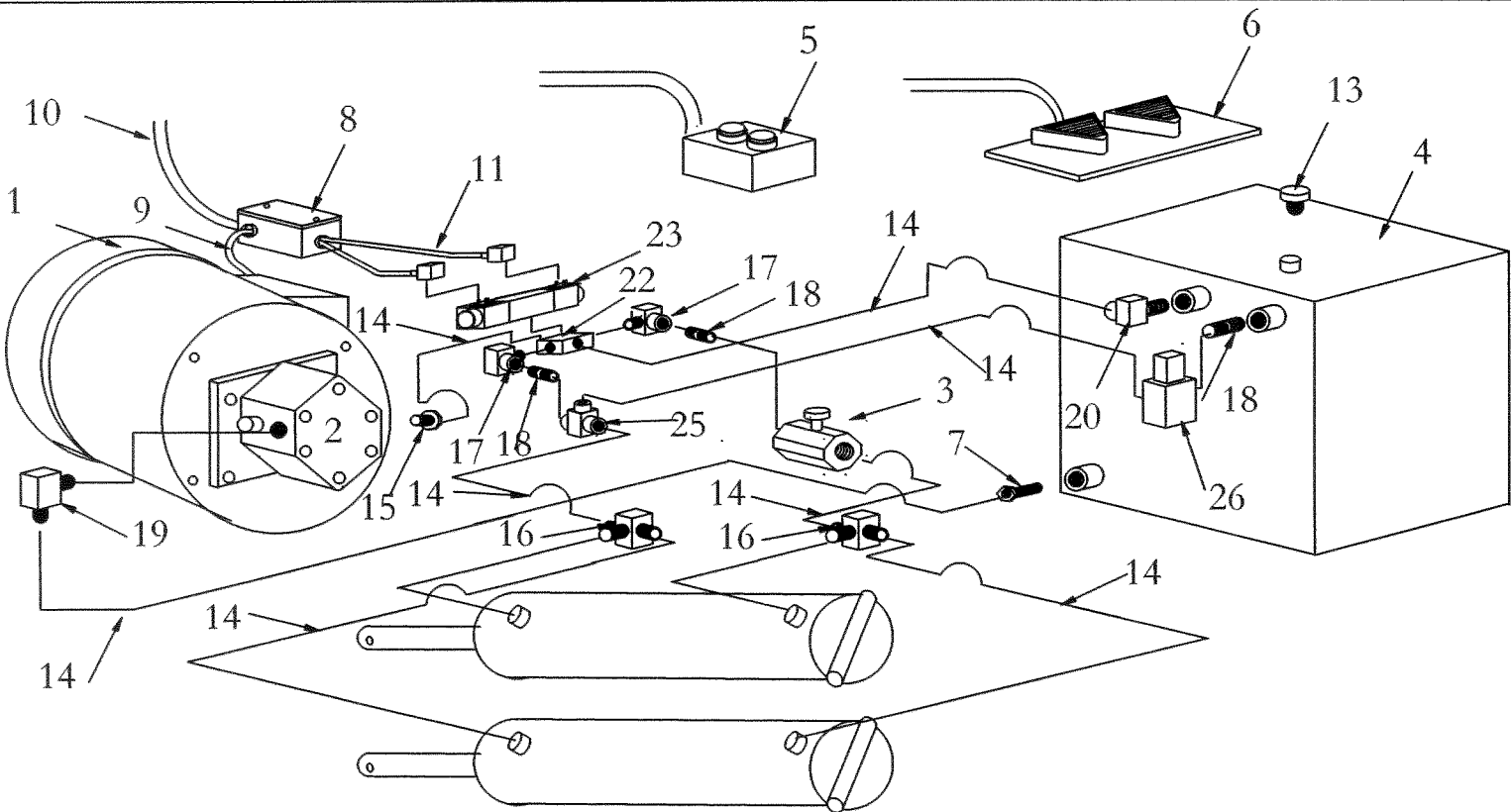
PARTS

To order parts, state model number of your unit, the name and description of the part you require. Contact factory for weldments or other structural components.

- 1) Cylinder
- 2) Fixed Wheel (if equipped)
- 3) Foot operated remote control
- 4) Push button remote control
- 5) Hydraulic control valve (M4V)
- 6) Electric motor (1HP 110 volt standard)
- 7) Air motor
- 8) Swivel caster (if equipped)
- 9) Pivot bolts
- 10) Hydraulic pump (HAHN 15320)
- 11) Micro-flow control valves (MF-250)

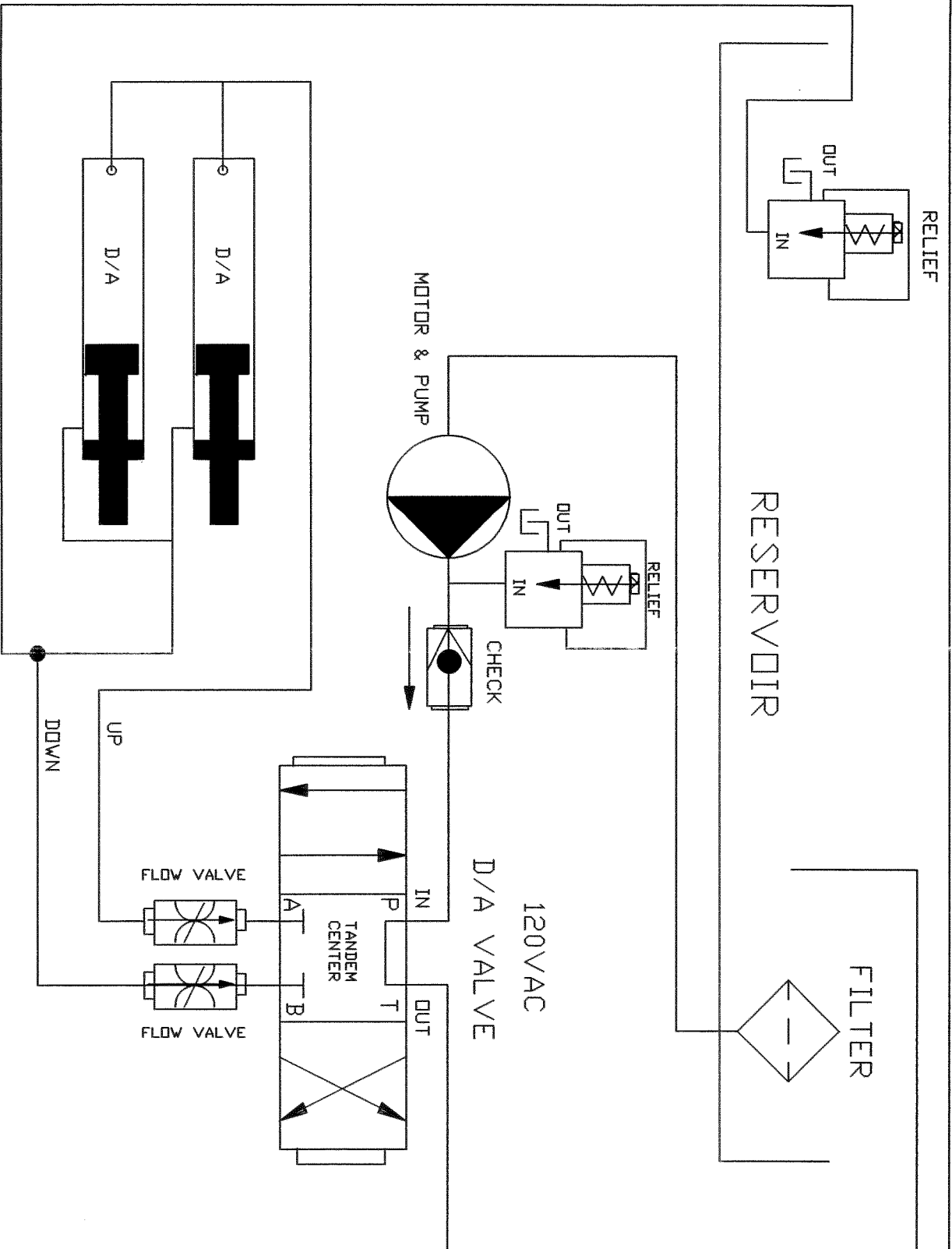


SINGLE ACTING
CYLINDER

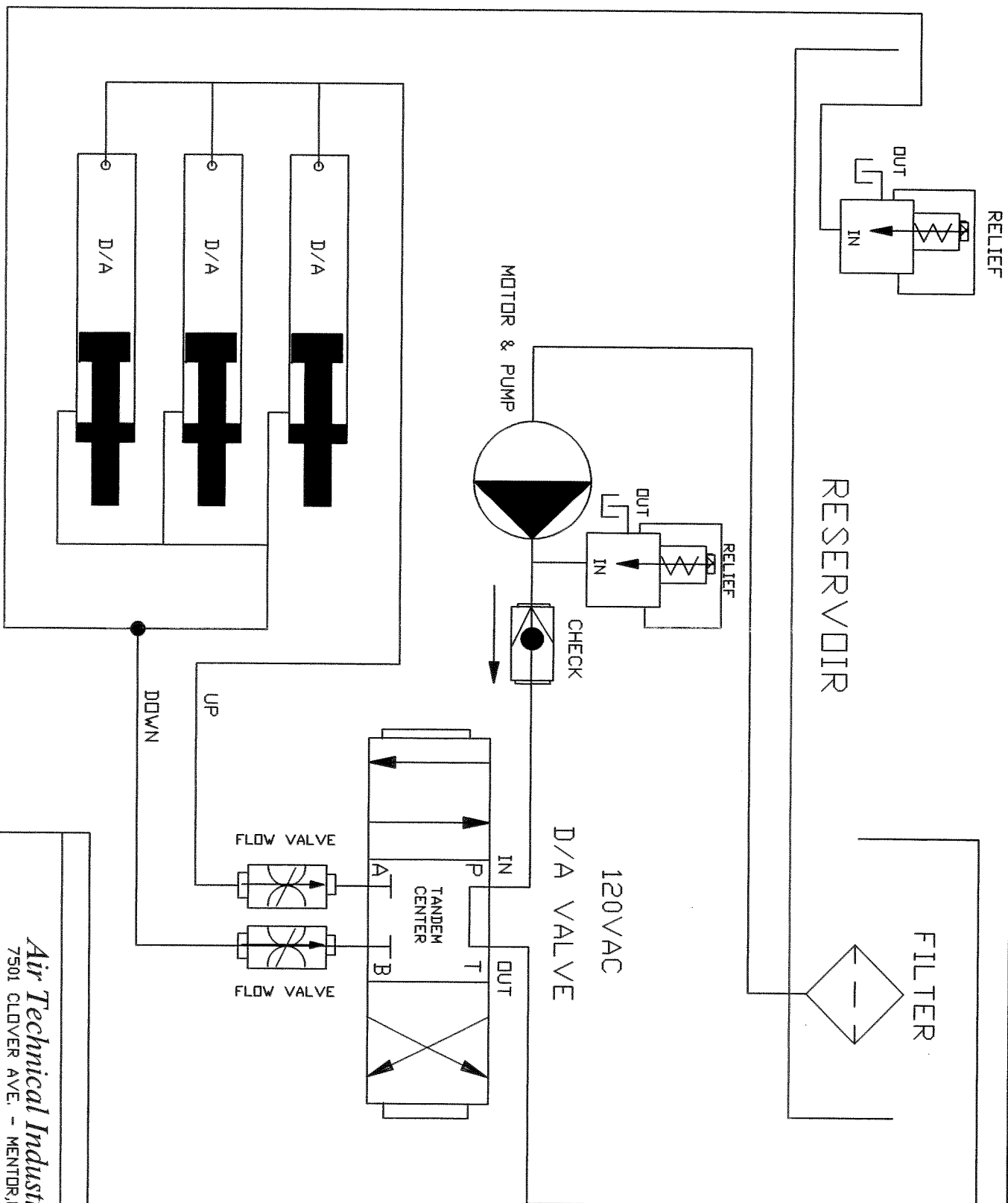


DOUBLE ACTING
CYLINDER

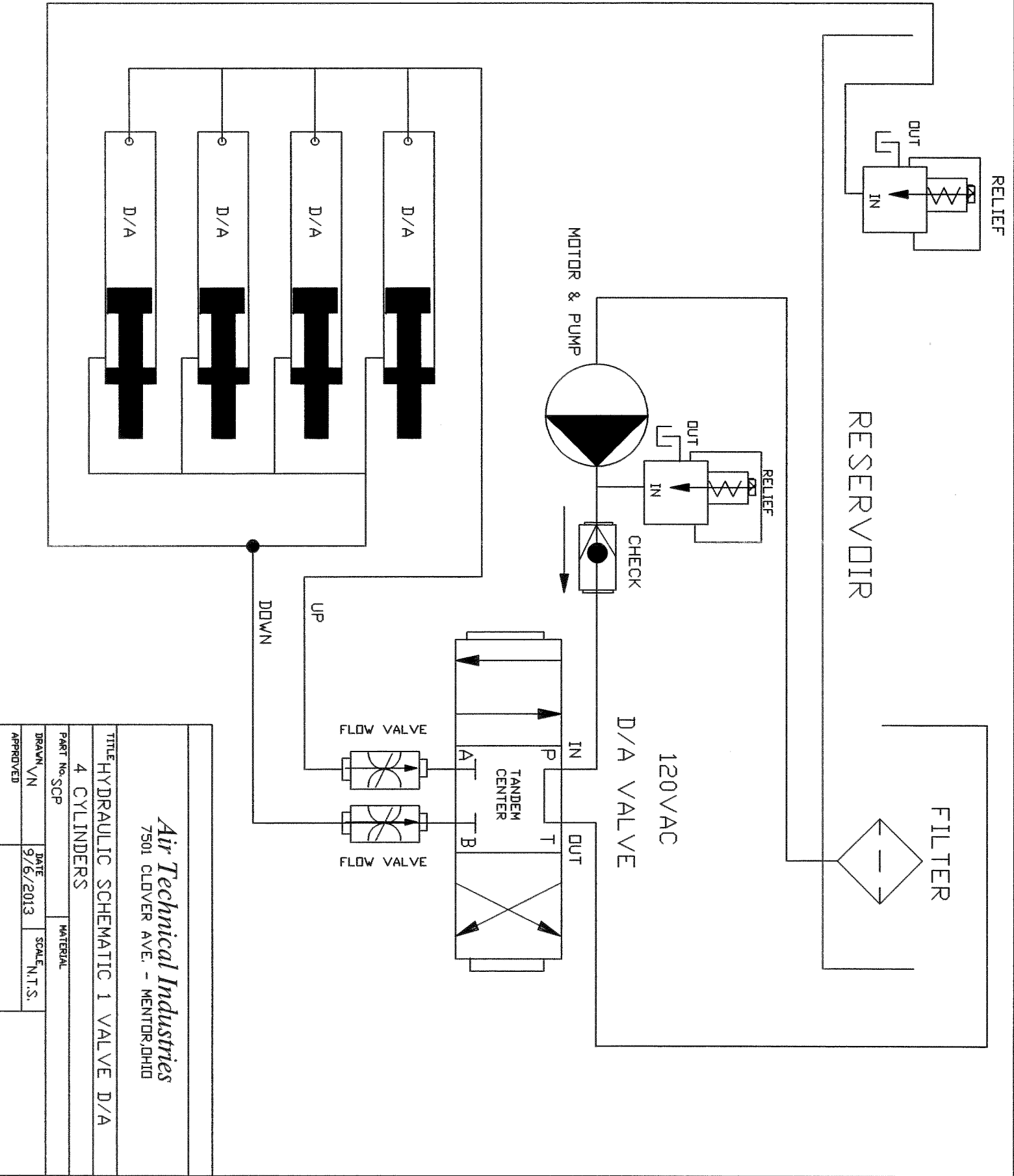
HYDRUALIC POWERPACK PARTS LIST										
Motor							DIN CONNECTOR W/CORD W/ LOWERING VALVE			
ITEM	1	HP	QTY	VOLTS	PHASE	TYPE	Part Number	ITEM	11	
								ITEM	12	LOWERING VALVE WITH DIN CONNECTOR
1	1	1	1	110	1	TANG	PETM11110	12 VOLT	1/4" NPT	M2HLV0122DIN
1	1	1	1	220/440	3	TANG	PETM13220	110 VOLT	1/4" NPT	M2HLV110VDIN
1	1	1	1	110	1	SHAFT	PESM11110	110 VOLT	3/8" NPT	M2HLV1103DIN
1	1	1	1	220/440	3	SHAFT	PESM13110	ITEM	13	VENT PLUG PH03VENT0
1	1	1	1	575	3	SHAFT	PESM13575	ITEM	14	HYDRAULIC HOSE
2	1	1	1	110	1	TANG	PETM21110	1/4"	10"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020100
2	1	1	1	220/440	3	TANG	PETM23220	12"	12"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020120
2	1	1	1	110	1	SHAFT	PESM21110	16"	16"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020160
2	1	1	1	220/440	3	SHAFT	PESM23220	18"	18"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020180
2	1	1	1	380	3	SHAFT	PESM23380	24"	24"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020240
2	1	1	1	575	3	SHAFT	PESM23575	36"	36"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020360
3	1	1	1	110	1	TANG	PETM31110	48"	48"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020480
3	1	1	1	220/440	3	TANG	PETM33220	60"	60"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020600
3	1	1	1	110	1	SHAFT	PESM31110	72"	72"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020720
3	1	1	1	220/440	1	SHAFT	PESM31220	84"	84"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020840
3	1	1	1	220/440	3	SHAFT	PESM33220	96"	96"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE020960
3	1	1	1	380	3	SHAFT	PESM33380	3/8"	12"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030120
3	1	1	1	575	3	SHAFT	PESM33575	16"	16"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030160
5	1	1	1	220/440	3	TANG	PETM53220	18"	18"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030180
5	1	1	1	220/440	3	SHAFT	PESM53220	24"	24"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030240
7.5	1	1	1	220/440	3	SHAFT	PESM75322	36"	36"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030360
7.5	1	1	1	380	3	SHAFT	PESM75338	48"	48"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030480
7.5	1	1	1	575	3	SHAFT	PESM75357	60"	60"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030600
10	1	1	1	220/440	3	SHAFT	PESM10322	72"	72"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030720
10	1	1	1	575	3	SHAFT	PESM10357	84"	84"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030840
4AM	1	1	1	AIR MOTOR		SHAFT	PN4AM0000	96"	96"	HYDRAULIC HOSE WITH M/F ENDS M2HOSE030960
6AM	1	1	1	AIR MOTOR		SHAFT	PN6AMFRV0	ITEM	15	3/8" x 1/4" O-RING ADAPTER PH6405060400
8AM	1	1	1	AIR MOTOR		SHAFT	PN8AMFRV0	ITEM	16	2 3/8" FL X 1/4" NPT M RN-T PH2605060406
ITEM 2 PUMP								ITEM	17	1/4" NPT M X 1/4" F 90 ELL PH5502040400
HP	QTY	SIZE	TYPE	Part Number				ITEM	18	1/4" CLOSE NIPPLE PH5404N04CLS
1	1	0.48	Tang	PHP0048T0				ITEM	19	3/8" FLARE X 3/8" O-RING ELL PH6801060600
1	1	0.48	Shaft	PHP0048S0				ITEM	20	3/8" NPT M X 1/4" NPT F 90 ELL PH5502060400
2	1	0.96	Tang	PHP0096T0				ITEM	21	3/8" NPT F ALL THREE SIDES PH5605060606
2	1	0.96	Shaft	PHP0096S0				ITEM	22	VALVE BASE
2	1	1.44	Tang	PHP0144T0				HVY/VK	1/4"	PHSP02D03
2	1	1.44	Shaft	PHP0144S0				BOSCH	3/8"	PHSP03D03
3	1	1.93	Tang	PHP0193T0				SPERRY	3/8"	PHSP03PRT
3	1	1.93	Shaft	PHP0193S0				ITEM 23 HYDRAULIC VALVE		
3	1	2.41	Tang	PHP0241T0				BOSCH	12 VOLT	PHV4W1201
3	1	2.41	Shaft	PHP0241S0				BOSCH	24 VOLT	PHV4W2401
5	1	2.89	Tang	PHP0289T0				BOSCH	110 VOLT	PHV4W1150
5	1	2.89	Shaft	PHP0289S0				ITEM 24 1/4" X 1 1/2" NIPPLE PH5404N04150		
5	1	3.86	Tang	PHP0386T0				ITEM 25 3/8" NPT F THREE SIDES PH5605060606		
5	1	3.86	Shaft	PHP0386S0				ITEM 26 PRESSURE RELIEF VALVE		
7.5	1	5.30	Shaft	PHP0561C0				1/4"	PHMPRRV10	
7.5	1	6.55	Shaft	PHP0672C0				3/8"	PHMPRRV20	
10	1	7.87	Shaft	PHP0787C0				ITEM 27 PNEUMATIC VALVE PNUMATIC0		
10	1	8.96	Shaft	PHP0883C0				ITEM 28 PNEUMATIC SOLENOID VALVE		
15	1	12.31	Shaft	PHP120000				DOERING	SINGLE ACTING	PHAVSA000
20	1	13.44	Shaft	PHP1344C0				HYVAIR	DOUBLE ACTING	PHAVDA000
ITEM 3 FLOW CONTROL VALVE								ITEM 29 MOTOR/PUMP COUPLINGS		
1	1/4"	FLOW CONTROL	PH02MFCV0				LOVEJOY	.4375" BORE	PTL090070	
2	1/4"	FLOW CONTROL	PH02MFCV0				LOVEJOY	.5" BORE	PTL090080	
3	1/4"	FLOW CONTROL	PH02MFCV0				LOVEJOY	.625" BORE	PTL090100	
5	3/8"	FLOW CONTROL	PH03MFCV0				LOVEJOY	.875" BORE	PTL090140	
7.5	3/8"	FLOW CONTROL	PH03MFCV0				LOVEJOY	.5" BORE	PTL100080	
10	3/8"	FLOW CONTROL	PH03MFCV0				LOVEJOY	.625" BORE	PTL100100	
15	1/2"	FLOW CONTROL	PH04MFCV0				LOVEJOY	.75" BORE	PTL100120	
ITEM 4 TANK CONSULT FACTORY								LOVEJOY	.875" BORE	PTL100140
ITEM 5 PUSHBUTTON								LOVEJOY	1" BORE	PTL100180
2	2 BUTTON	PE2STAPB0				LOVEJOY	1.125" BORE	PTL100180		
4	4 BUTTON	PE4STAPB0				LOVEJOY	1.25" BORE	PTL100200		
6	6 BUTTON	PE6STAPB0				LOVEJOY	1.375" BORE	PTL100220		
8	8 BUTTON	PE8STAPB0				LOVEJOY	1.4375" BORE	PTL100230		
ITEM 6 FOOT PEDAL								LOVEJOY	.625" BORE	PTL110100
SINGLE ACTING				2 PEDAL		PETWINFP0	LOVEJOY	.75" BORE	PTL110340	
DOUBLE ACTING				2 PEDAL		PETWINFP2	LOVEJOY	.875" BORE	PTL110140	
AIR MOTOR				2 PEDAL		PNAFP34F0	LOVEJOY	1.625" BORE	PTL110158	
ITEM 7 TANK STRAINER PH0403STR								ITEM 30 1 AIR LINE PNAFAH400		
ITEM 8 HANDY BOX								ITEM 31 INLINE PRESSURE RELIEF VALVE		
LID					PEPC2X400		1/4"		PH021PREL	
BOX					PE224HB00		3/8"		PH031PREL	
ITEM 9 MOTOR CORD								ITEM 32 FLOW DIVIDER		
1'-6"	110VOLT	1 PHASE	16--3	PEEW03160		2 PORT		PHFDPM200		
1'-6"	10VOLT	1 PHASE	12--3	PEEW03120		4 PORT		PHFDPM230		
1'-6"	220/440	3 PHASE	12--4	PEEW04120		6 PORT		PHFDPM600		
ITEM 10 POWER CORD								ITEM 33 3/8" FL X 1/4" NPT M ELL PH2501060400		
8'-0"	110VOLT	1 PHASE	16--3	PE316AC80						
8'-0"	110VOLT	1 PHASE	12--3	PEEW03120						
8'-0"	220/440	3 PHASE	12--4	PEEW04120						

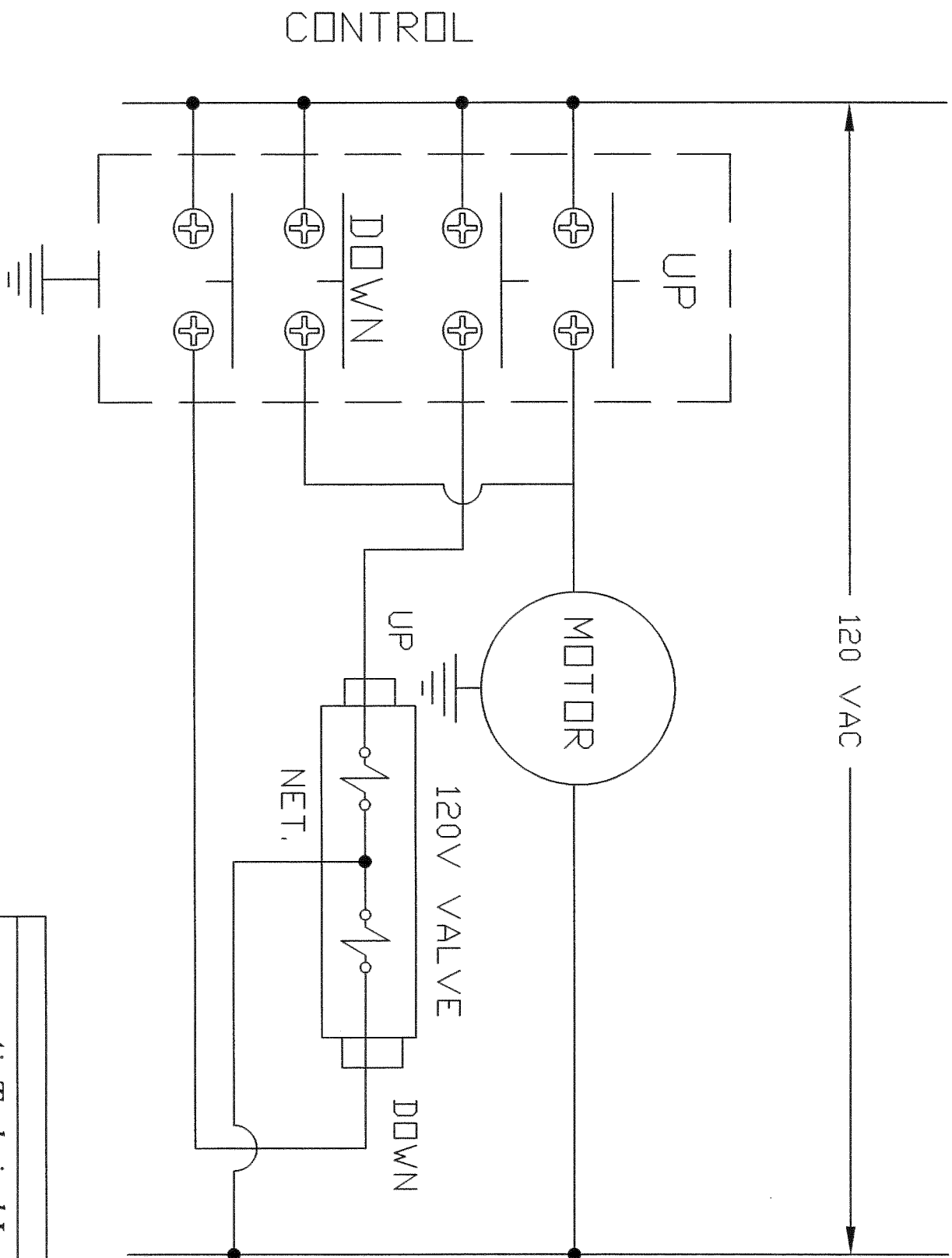


Air Technical Industries 7501 CLOVER AVE. - MENTOR, OHIO			
TITLE HYDRAULIC SCHEMATIC 1 VALVE D/A 2 CYLINDERS			
PART No. SCP		MATERIAL	
DRAWN VN	DATE 9/6/2013	SCALE N.T.S.	
APPROVED			



<i>Air Technical Industries</i>			
7501 CLOVER AVE. - MENTOR, OHIO			
TITLE HYDRAULIC SCHEMATIC 1 VALVE D/A			
3 CYLINDERS			
PART No. SCP	MATERIAL		
DRAWN VN	DATE	SCALE	N.T.S.
APPROVED	9/6/2013		





Air Technical Industries
7501 CLOVER AVE. - MENTOR, OHIO

TITLE ELECTRICAL SCHEMATIC

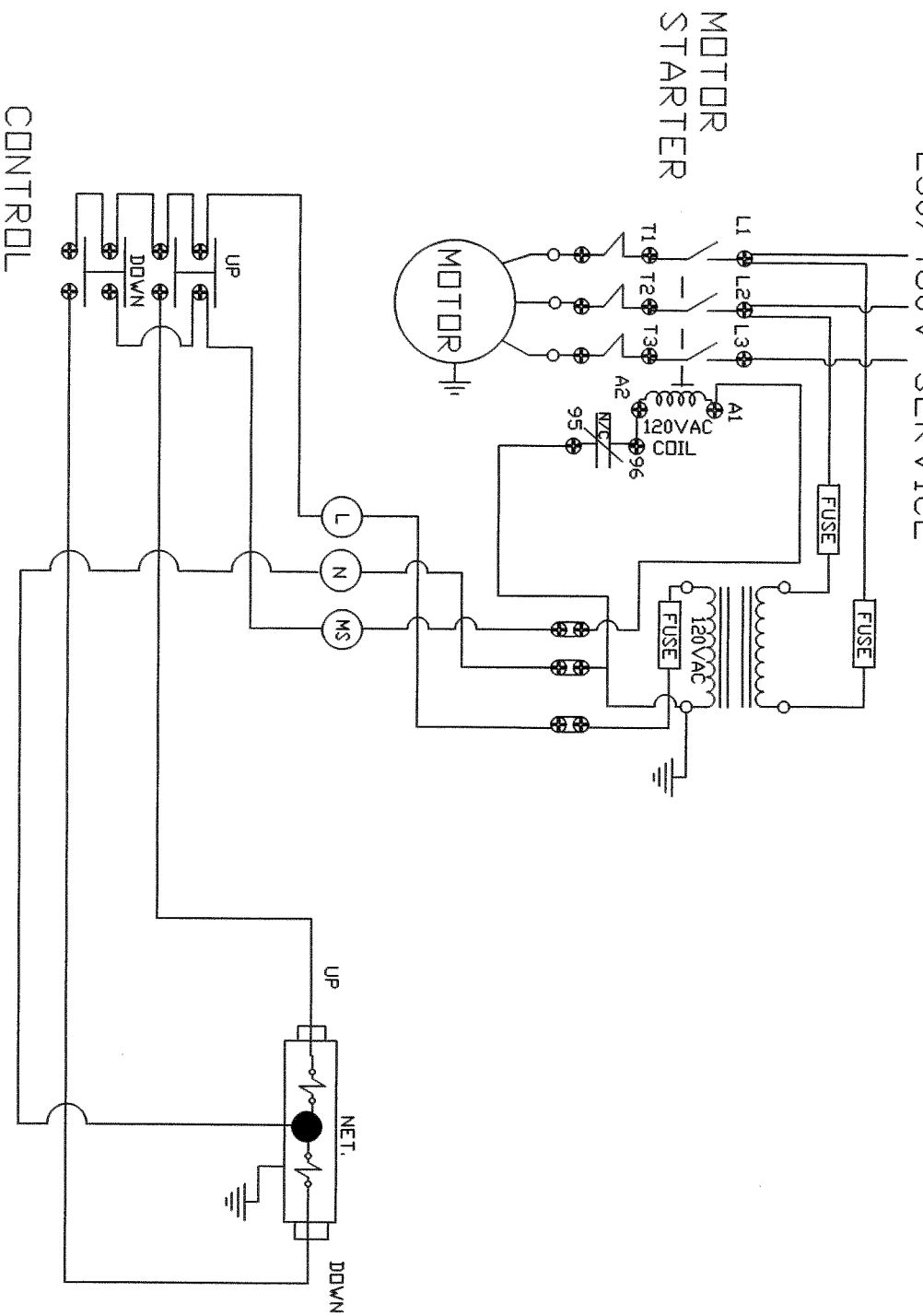
SINGLE PHASE 120V D/A

PART No. MATERIAL

DRAWN V/N DATE 6/26/2012 SCALE N.T.S.

APPROVED

230/460V SERVICE



Air Technical Industries
7501 CLOVER AVE. - MENTOR, OHIO

TITLE ELECTRIC SCHEMATIC - 3 PH D/A BASIC

PART No.

MATERIAL

DRAWN LH

DATE 6/12/12

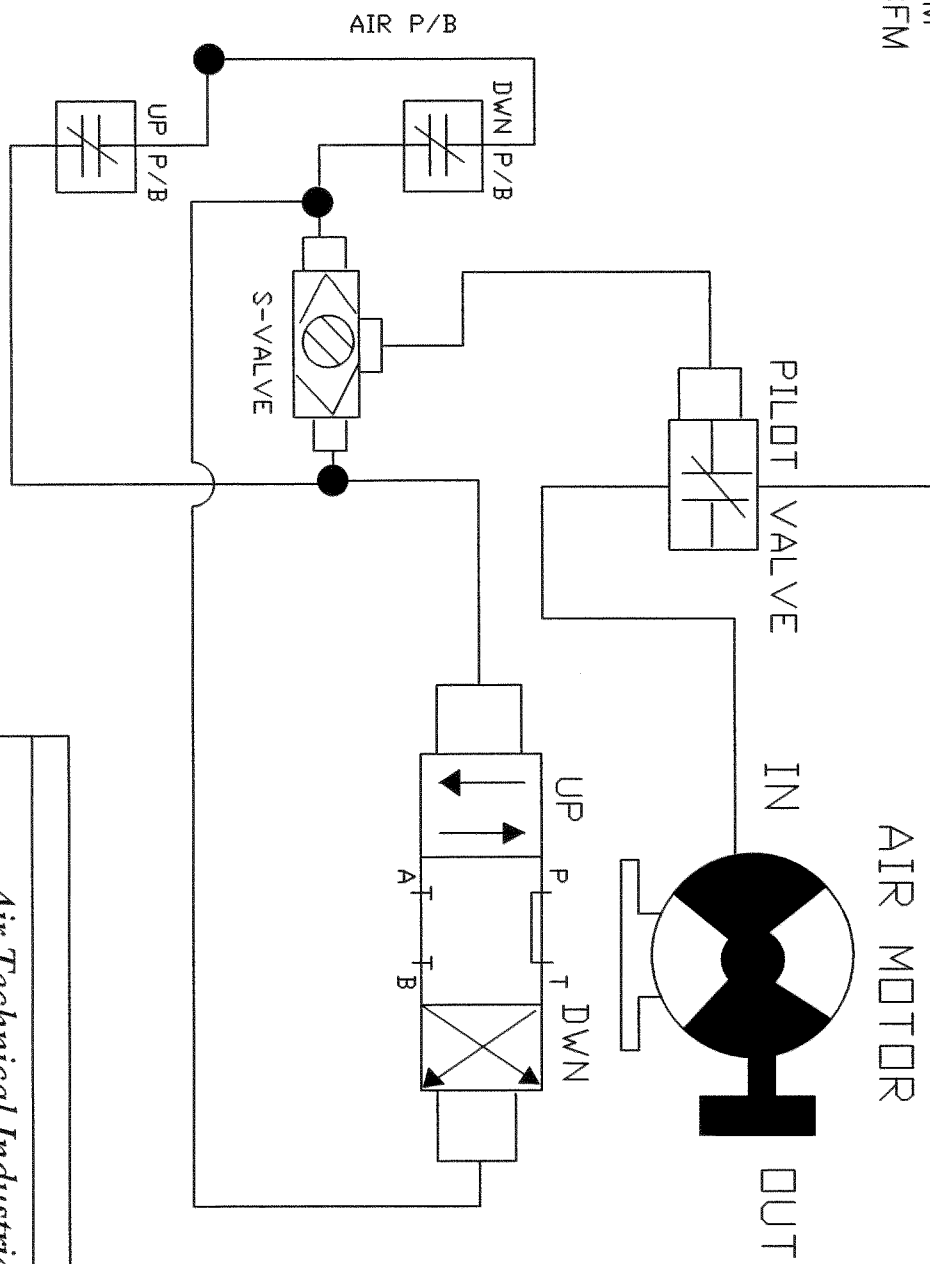
SCALE N.T.S.

APPROVED

MAIN AIR (100 PSI)

AIR FLOW REQ'D:

- 4AM - 55 CFM
- 6AM - 90 CFM
- 8AM - 130 CFM



Air Technical Industries
7501 CLOVER AVE. - MENTOR, OHIO

TITLE AIR SCHEMATIC

SCP

PART No. AIR DOUBLE ACTING

DRAWN M.J. DATE 11-23-12 SCALE N.T.S.

APPROVED

USE THESE HANDY ORDER BLANKS TODAY

FAX TO 1-440-953-9237

OR CALL TOLL FREE:

1-888-857-6272



7501 CLOVER AVENUE
MENTOR, OH 44060

☐ I am charging \$ _____
to my:



BILL TO _____

NAME _____

ADDRESS _____

CITY _____ STATE _____ ZIP _____

ORDER NO. _____ PHONE _____

SHIP TO _____ NAME _____

ADDRESS _____

CARD NO.

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

☐ Ship open account. We are rated in Dunn & Bradstreet.

EXP. DATE

--	--	--	--	--

☐ Enclosed is full amount. TOTAL _____

QTY.	MODEL	DESCRIPTION (please print clearly)	PRICE EACH	TOTAL PRICE

All foreign payments must be in U.S. funds.

Ship via _____

All prices are F.O.B. factory unless marked otherwise.

Prices subject to change without notice.

AMOUNT FOR GOODS	
SALES TAX (OHIO ONLY)	
POSTAGE OR FREIGHT	
TOTAL AMOUNT OF ORDER	
AMOUNT ENCLOSED	

FAX TO ATI: 440-953-9237

I NEED A QUOTE FOR THE FOLLOWING PARTS:

☐ _____	☐ _____	☐ _____
☐ _____	☐ _____	☐ _____
☐ _____	☐ _____	☐ _____
☐ _____	☐ _____	☐ _____

Table Model # _____ Serial Number _____

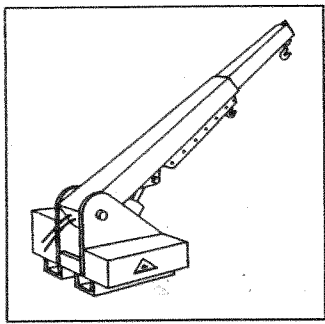
COMPANY _____

NAME _____ TITLE _____

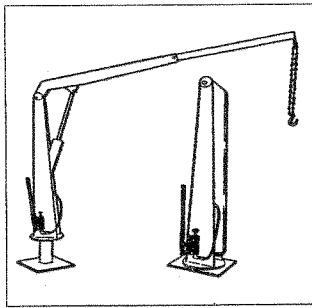
ADDRESS _____

CITY _____ STATE _____ ZIP _____

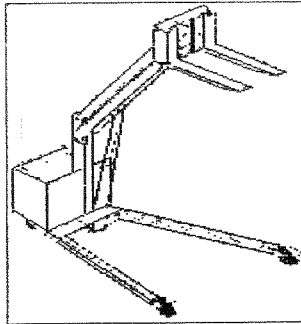
PHONE _____ FAX _____



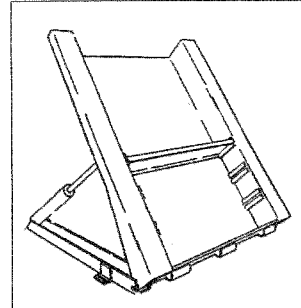
JibMaster



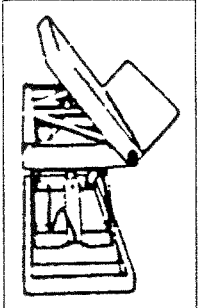
Truck mounted Foldable Crane



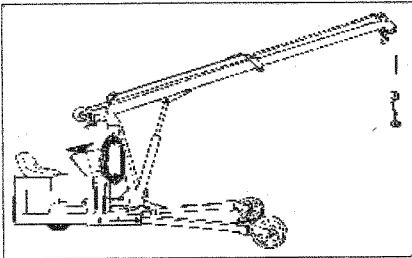
Universal Lift



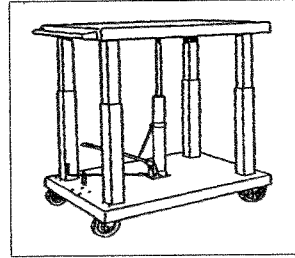
Zero-Low Crate Positioners



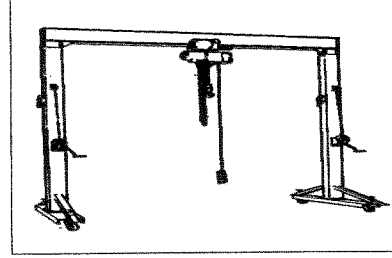
Lift & Tilt Tables



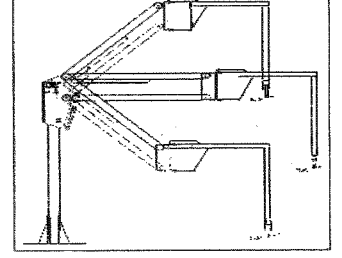
Port-O-Giant



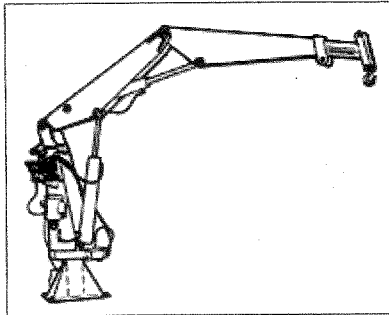
Post Tables



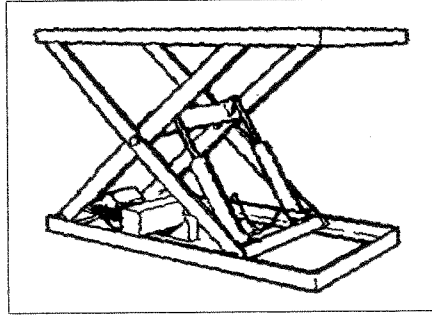
Gantry Cranes



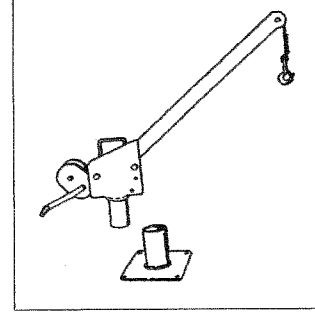
Articarm Manipulator



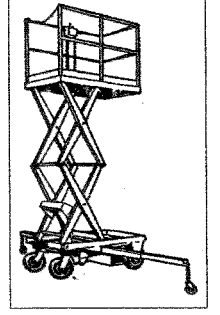
Knuckle Cranes



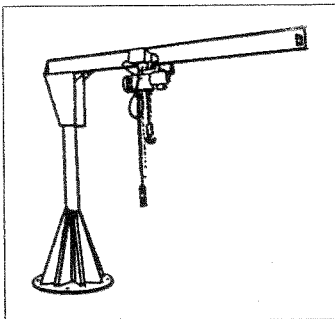
Scissor Lift Tables



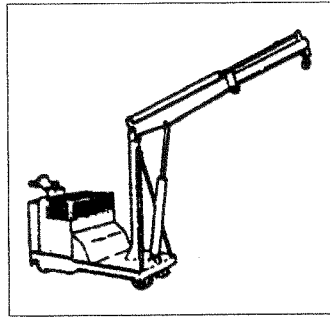
Truck Mounted Pick-Up Crane



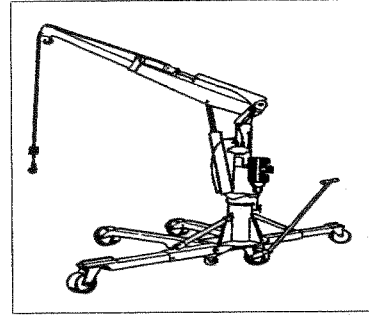
Maintenance Lifts



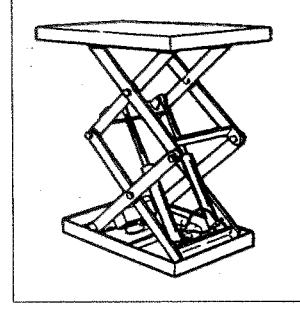
Floor Mounted Jib Cranes



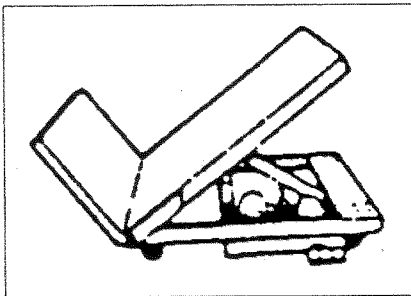
Reversible Boom Crane



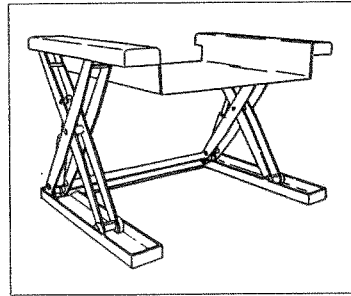
Super Master



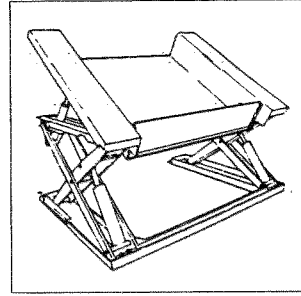
Double Scissor Lift Table



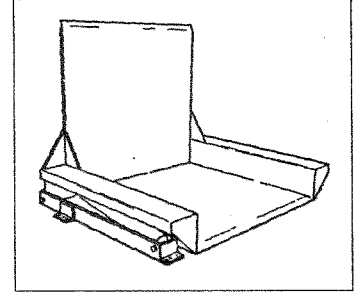
Crate Positioner



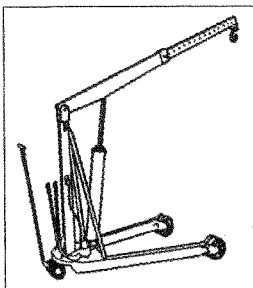
Zero-Low Lift Table



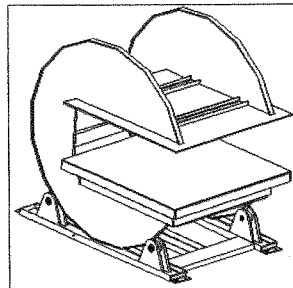
Zero-Low Lift & Tilt



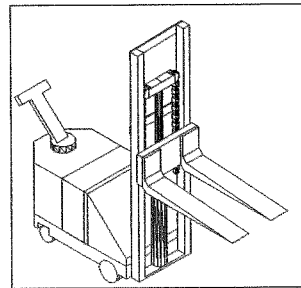
Zero-Low Up-Enders/Positioner



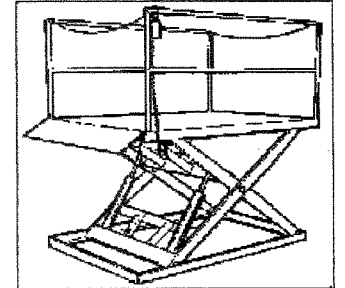
Husky Master



Upender-Inverter



Fork Master Lift Truck



c Magic Dock Scissor Lift