# MATERIAL HANDLING SYSTEMS

# CRANE SPECIFICATIONS & OPERATION MANUAL

*MODELS 0.5/4, 1.5/10, 2.0/15T, 2.6/19T*

**IOWA MOLD TOOLING CO., INC.**
**BOX 189, GARNER, IA 50438-0189**
**641-923-3711**

**MANUAL PART NO: 99903422**

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**In addition to the information presented in this manual, read and understand the IMT Crane Operator's Safety Manual before operating or performing any maintenance on your crane.**

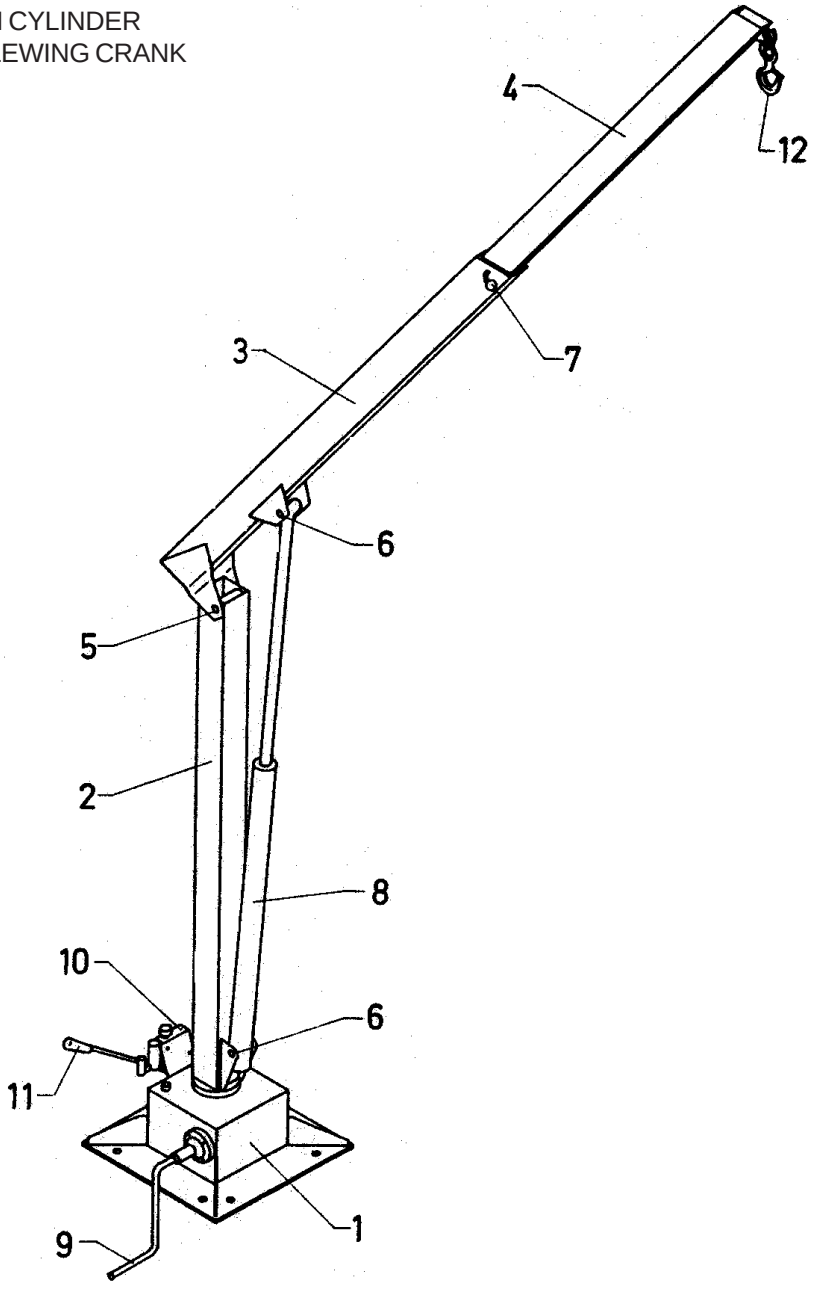
# REVISIONS LIST

| DATE | LOCATION | DESCRIPTION OF CHANGE |
|---|---|---|
| 20030611 | 11 | REVISED CAPACITY PLACARD TO INCLUDE MANUAL EXTENSION NOTE |
| 20070228 | COVER | UPDATED OWNERSHIP STATEMENT |
| 20091120 | | ADDED MODEL 2.0/15T |
| 20100414 | | ADDED MODEL 2.6/19T |
| 20111129 | | ECN 11628 - UPDATED STABILIZER VERBIAGE, ELEC. DISTANCES |
| 20120920 | | REMOVED OBSOLETE MODEL 1.7/20 |

# 1.0 CRANE DESCRIPTION

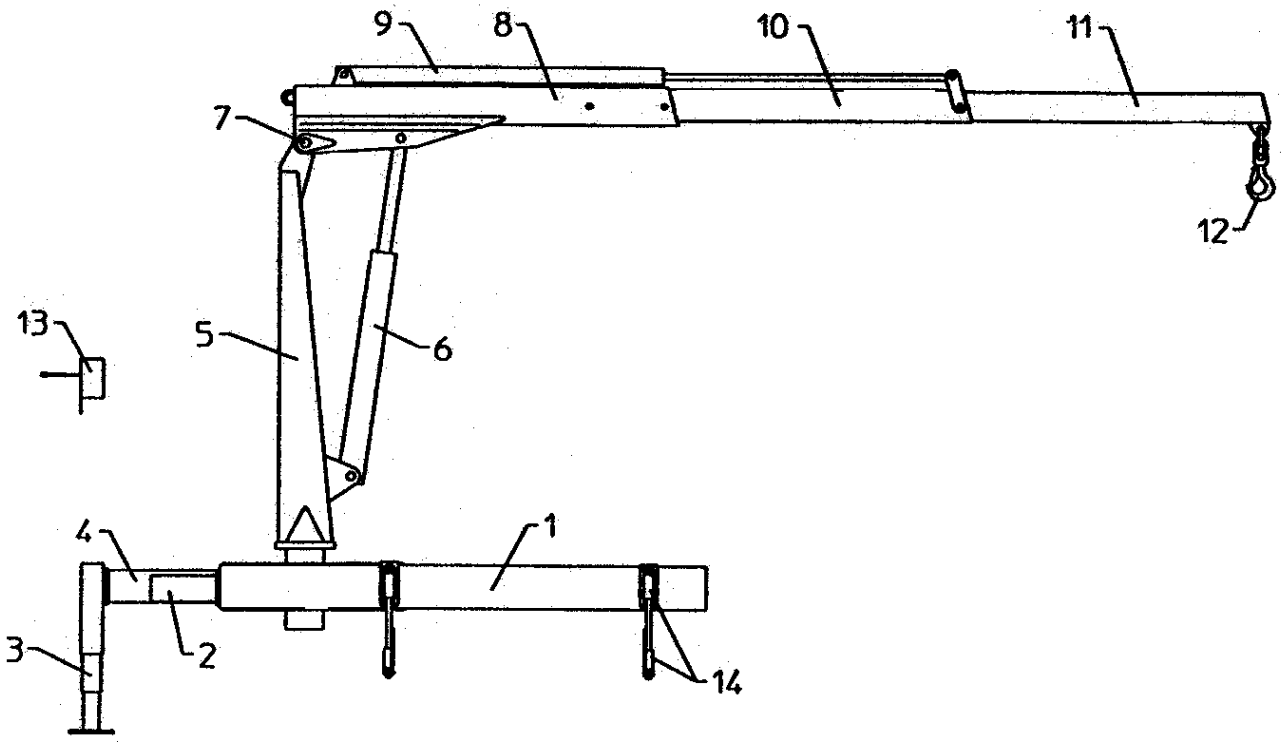
## MODEL 0.5/4

1. BASE
2. MAST
3. LOWER BOOM
4. EXTENSION BOOM
5. HINGE PIN
6. CYLINDER BOLT
7. EXTENSION PIN
8. LOWER BOOM CYLINDER
9. ROTATION / SLEWING CRANK
10. HAND PUMP
11. PUMP LEVER
12. HOOK



## MODEL 1.5/10, 2.0/15T, 2.6/19T

1. BASE
2. ROTATION / SLEWING CYLINDER
3. MECHANICAL STABILIZER LEG
4. STABILIZER BEAM
5. MAST
6. LOWER BOOM CYLIINDER
7. HINGE PIN
8. LOWER BOOM
9. EXTENSION CYLINDER
10. 1st EXTENSION BOOM, 100 MM (1.5/10) or 120 MM (2.0/15T or 2.6/19T)
11. 2nd EXTENSION BOOM, 83 MM (1.5/10) or 100 MM (2.0/15T or 2.6/19T)
12. HOOK
13. CONTROL VALVE BLOCK
14. MOUNTING HARDWARE



# 2.0 OPERATING INSTRUCTIONS

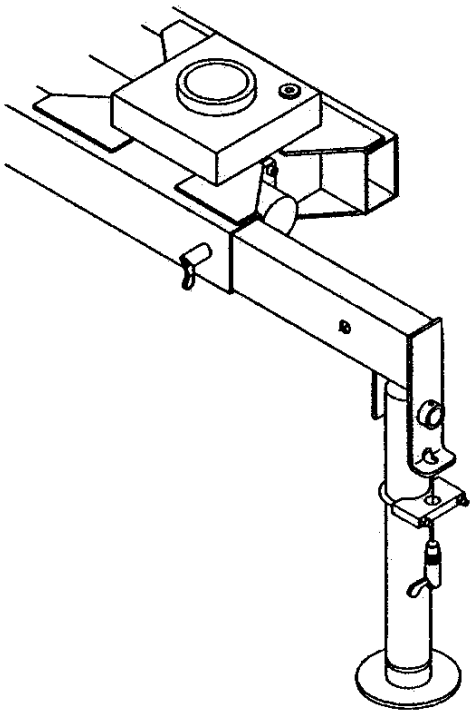
## 2.1 START UP

Before operatingthe loader:
- Set vehicle parking brake.
- Check oil levels in the tank and power pack.
- Check hoses for damage, twists, or kinks.
- Check all hooks, slings, and chains, if applicable.
- Check that manual extensions are correctly fastened with lock bolts and split pins, if applicable.
- DO NOT exceed the maximum load on manual extensions, if applicable.

### 2.1.1 STABILIZER SET-UP (IF APPLICABLE)

**CAUTION**

NEVER OPERATE THE LOADER IF THE STABILIZERS ARE NOT LOWERED!



For proper operation, the stabilizer legs should be lowered just enough to raise the truck chassis suspension slightly. The truck, including the crane, should be parked on even ground to give a nearly perfect slew of the crane.

If the job is on soft ground, put wooden blocks or steel plates under the stabilizer legs to ensure stability. (On Model 1.5/10, the weight on the stabilizer leg can exceed 1.3 tons.)

To set-up the stabilizer leg, release the stabilizer lock and extend the stabilizer beam completely. Then, re-lock it.

If the loader is equipped with swing-up stabilizer legs, they must be vertically locked.

## 2.2.2 STARTING THE HYDRAULIC SYSTEM

Start the engine, disengage the clutch, and engage the PTO by pulling the handle located in the truck cab.

## 2.3 FOLDING / UNFOLDING THE CRANE

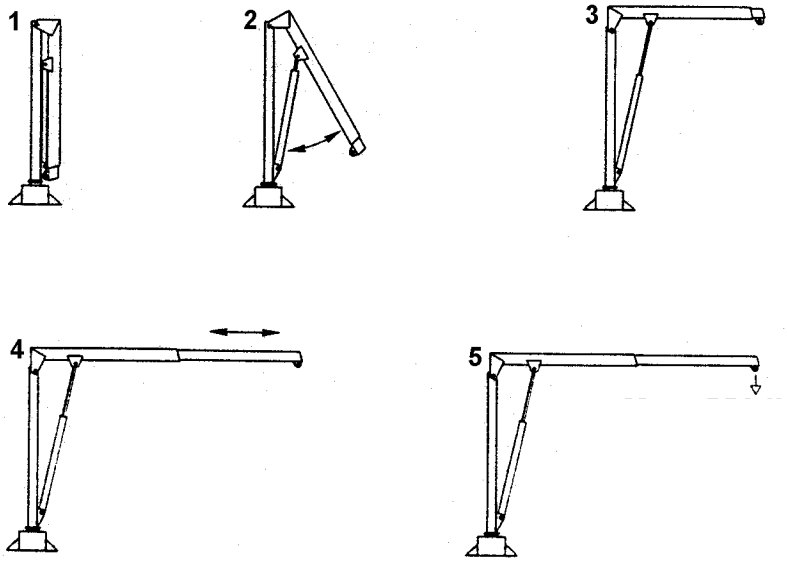
After the stabilizer leg has been lowered (if applicable), unfold the boom as shown.

**NOTE**

NEVER STAND UNDER A CRANE WHEN IT IS BEING UNFOLDED.

NEVER START UNFOLDING DURING A SLEWING MOVEMENT.

## UNFOLDING MODEL 0.5/4, 1.5/10, 2.0/15T, 2.6/10T



## 2.4 SAFE DISTANCES TO ELECTRICAL WIRES

| | NORMAL VOLTAGE kV (Phase to Phase) | MINIMUM REQUIRED CLEARANCE Feet (meters) |
|---|---|---|
| **OPERATION NEAR HIGH VOLTAGE** | From 0 to 350<br>Over 350 or unknown | 20 ( 6.10)<br>50 (15.24) |
| **OPERATION IN TRANSIT WITH NO LOAD AND BOOM OR MAST LOWERED.** | From 0 to 0.75<br>From 0.75 to 50<br>From 50 to 345<br>From 345 to 750<br>From 750 to 1000 | 4 ( 0.22)<br>6 ( 0.83)<br>10 ( 3.05)<br>16 ( 4.87)<br>20 ( 8.10) |

## 2.5 ATTACHING THE LOAD

Attach the load and auxiliary equipment securely and carefully to the hook directly or by use of straps or chains.

## 2.6 LOADER REACH & CAPACITY

Figures for reach and capacity are shown on the capacity charts on the following pages. Your crane is designed for specific loads which are defined on the capacity placard which is mounted near the operator's station and on the crane. Exceeding the limits presented on the capacity placard will create severe safety hazards and will shorten the life ot the crane. The operator and other concerned personnel must know the load capacity of the crane and the weight of the load being lifted!

**WARNING**

NEVER EXCEED THE CRANE'S RATED LOAD CAPACITIES. DOING SO WILL CAUSE STRUCTURAL DAMAGE AND DAMAGE TO WINCHES AND CABLES WHICH CAN LEAD TO SERIOUS INJURIES OR DEATH.

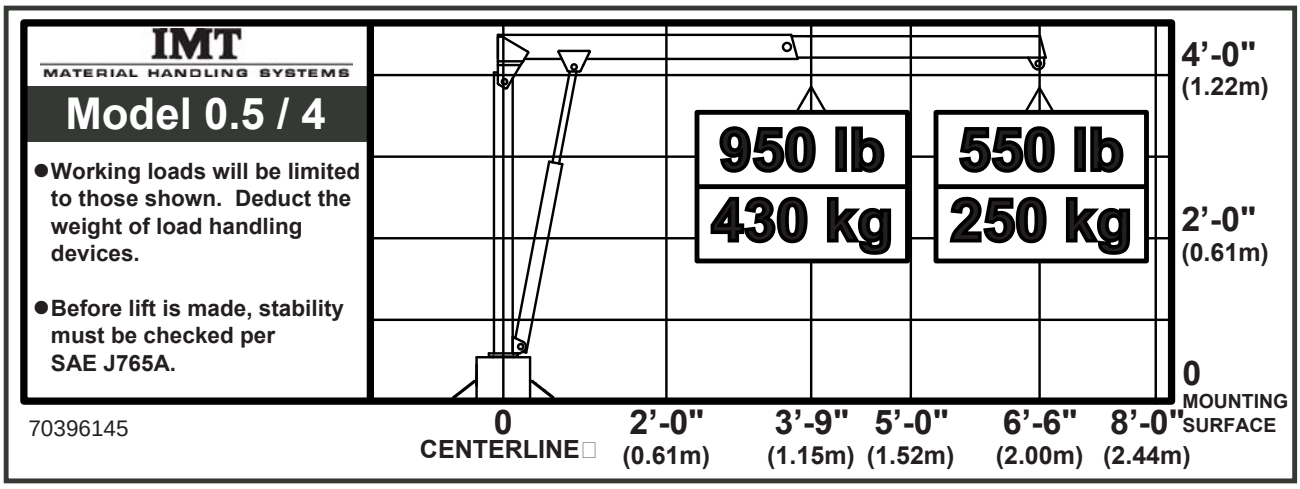
**NOTE**

LOAD LIMIT INFORMATION ON THE CAPACITY PLACARD IS FORMULATED ON 85% OF TIPPING. "TIPPING" REFERS TO THE CRANE ACTUALLY TIPPING WITH ITS OPPOSITE STABILIZER AND TIRES HAVING BROKEN CONTACT WITH THE SURFACE.

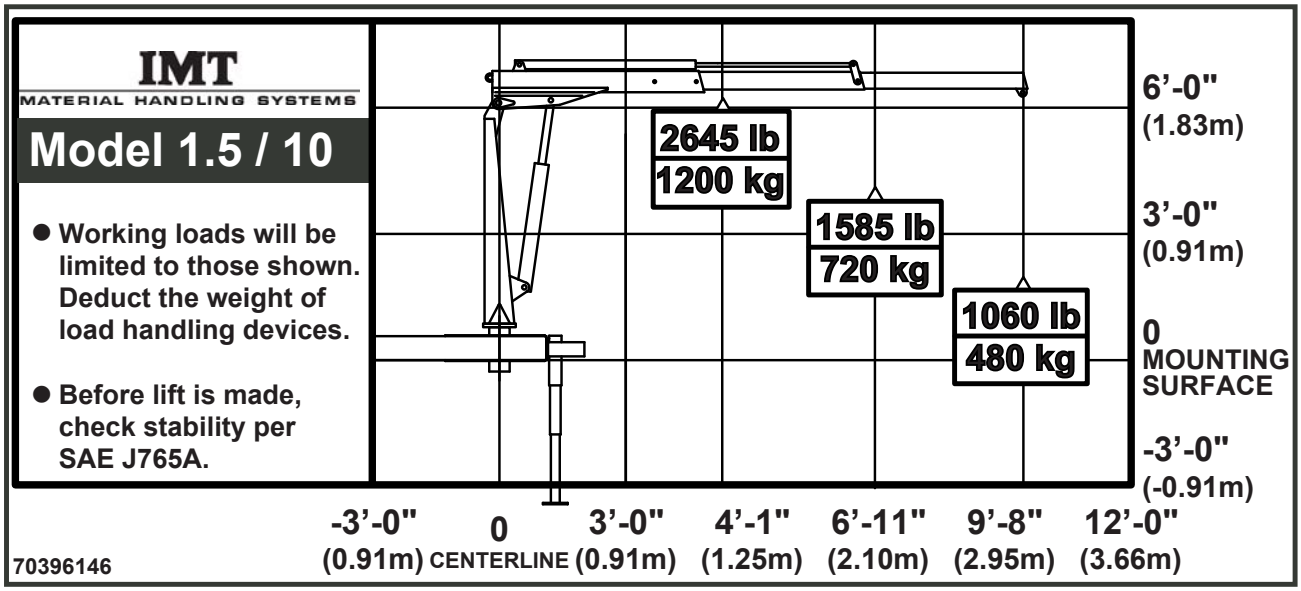
Prior to lifting a load:

1. Determine the weight of the load.
2. Determine the weight of any load handling devices.
3. Add the weight of the load and the weight of the load handling devices. The sum will be the total weight of the load being lifted.
4. Determine the distance from the centerline of crane rotation to the centerline of the load being lifted.
5. Determine the distance from the centerline of crane rotation to the centerline of where the location to which the load is to be moved.
6. The actual distance used should be figured as the larger of items 4 and 5 above.
7. Determine at what angle the crane will be operated (for example 30°, 45°, etc.) by referencing the angle indicator on the lower boom.
8. Make certain that 2-part line is used for any lift which requires 2-part line.

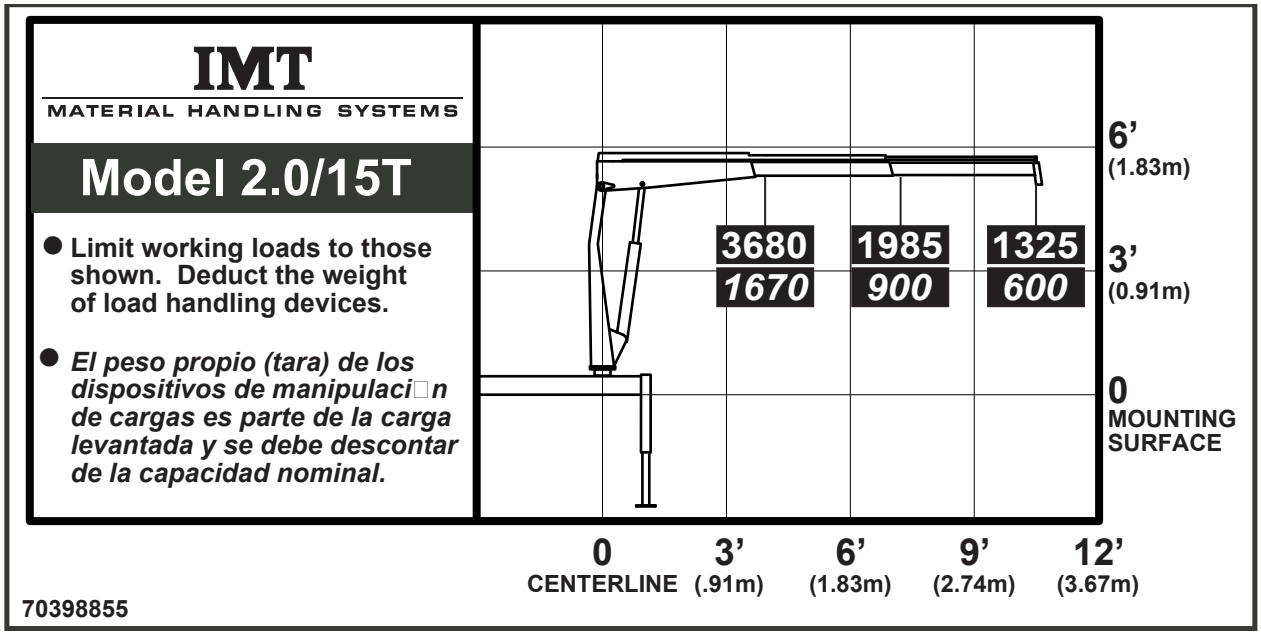
## 2.6.1 MODEL 0.5/4 CAPACITY CHART



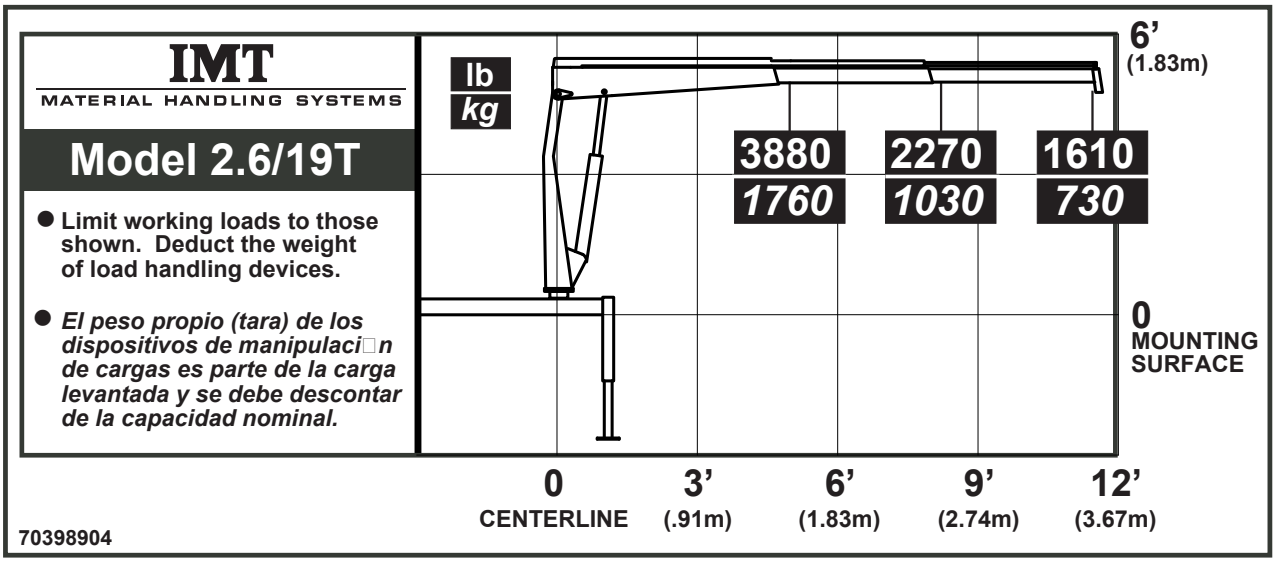

## 2.6.2 MODEL 1.5/10 CAPACITY CHART



## 2.6.4 MODEL 2.0/15T CAPACITY CHART



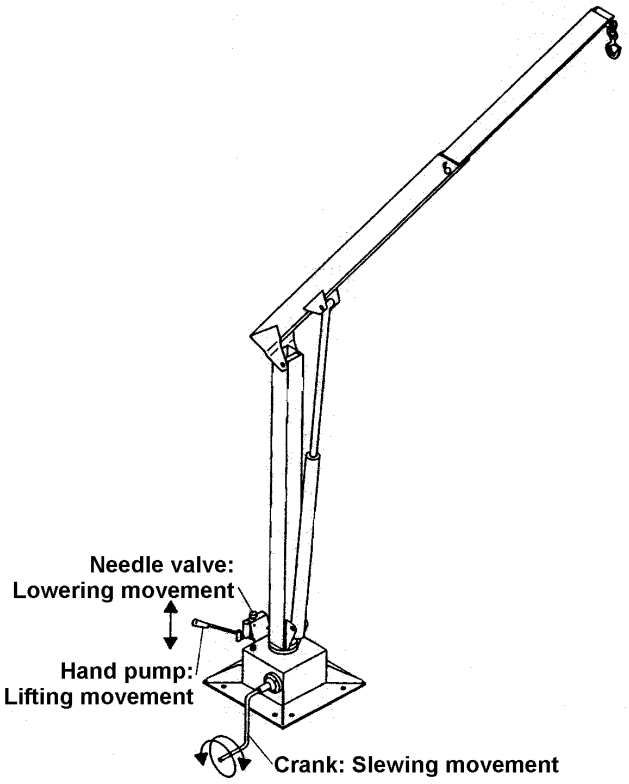

## 2.6.5 MODEL 2.6/19T CAPACITY CHART



## 2.7 CRANE OPERATION

### 2.7.1 OPERATION - MODEL 0.5/4

Crane model 0.5/4 is operated using pumps and cranks. The lifting and lowering functions of the crane are operated using a hand pump with a needle valve, and the crane slew is operated by turning a crank. An optional power unit is available instead of the hand pump for lifting, if ordered with the crane.

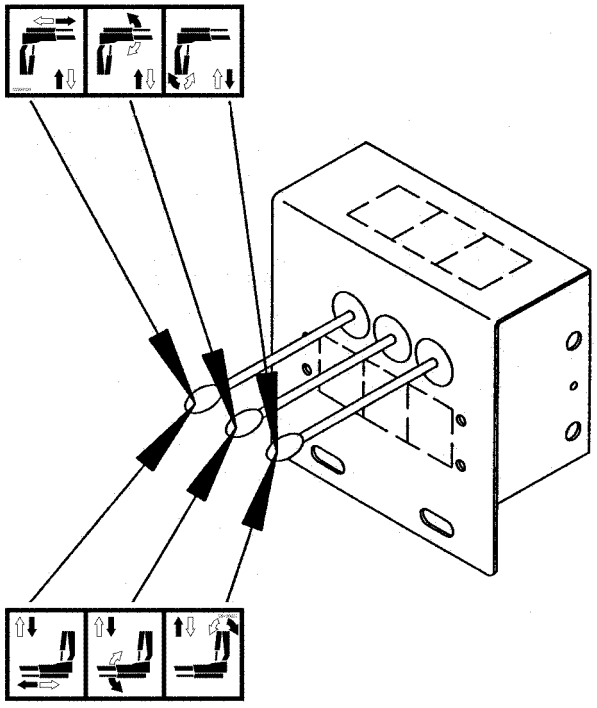



### 2.7.2 OPERATION - MODELS 1.5/10, 2.0/15T & 2.6/19T

These crane models are operated using control valves. Move the control valves gently, especially when working with heavy loads. The working speed of the crane is controlled using the valves. Jerky control valve operation causes the load to swing and move uncontrollably and put unnecessary strain on the crane.

**NOTE**

ALWAYS OPERATE CONTROL LEVERS GENTLY AND STEADILY.



## 4.0 HYDRAULIC SAFETY SYSTEM

NOTE: Model 0.5/4 has manual extensions and controls, so this section does not apply to that model.

## 4.1 MODEL 1.5/10, 2.0/15T, 2.6/19T HYDRAULIC SAFETY SYSTEM

1) Control Valve

Main relief valve

- Safeguard in case of overload.

2) Rotation/Slewing Cylinder

Double port-relief valve

- Safeguard in case of overload.

3) Lower Boom Cylinder

Single-acting load-holding valve

- Safeguard in case of hose failure/ overload
- Keeps the boom in position by relieving pressure on pipes and hoses

4) Stabilizer Cylinder

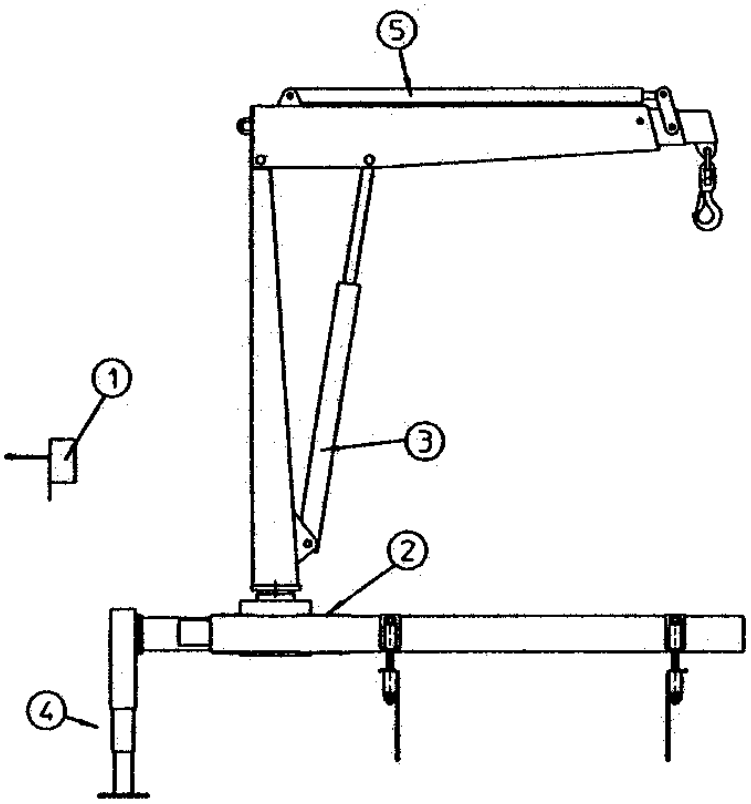
Piloted check valve

- Safeguard in case of hose failure / overload

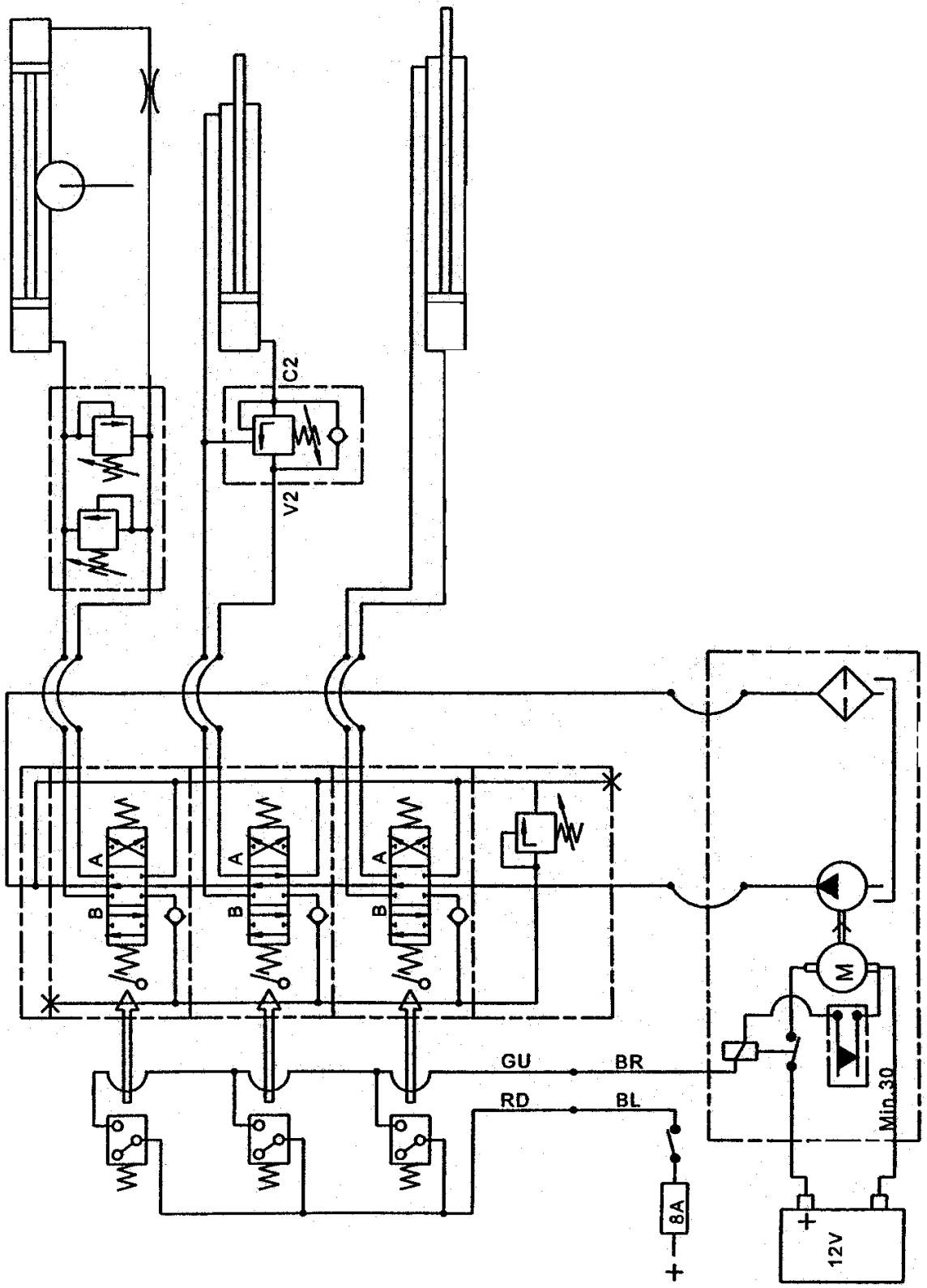
5) Extension Cylinder

Double-acting, load-holding valve

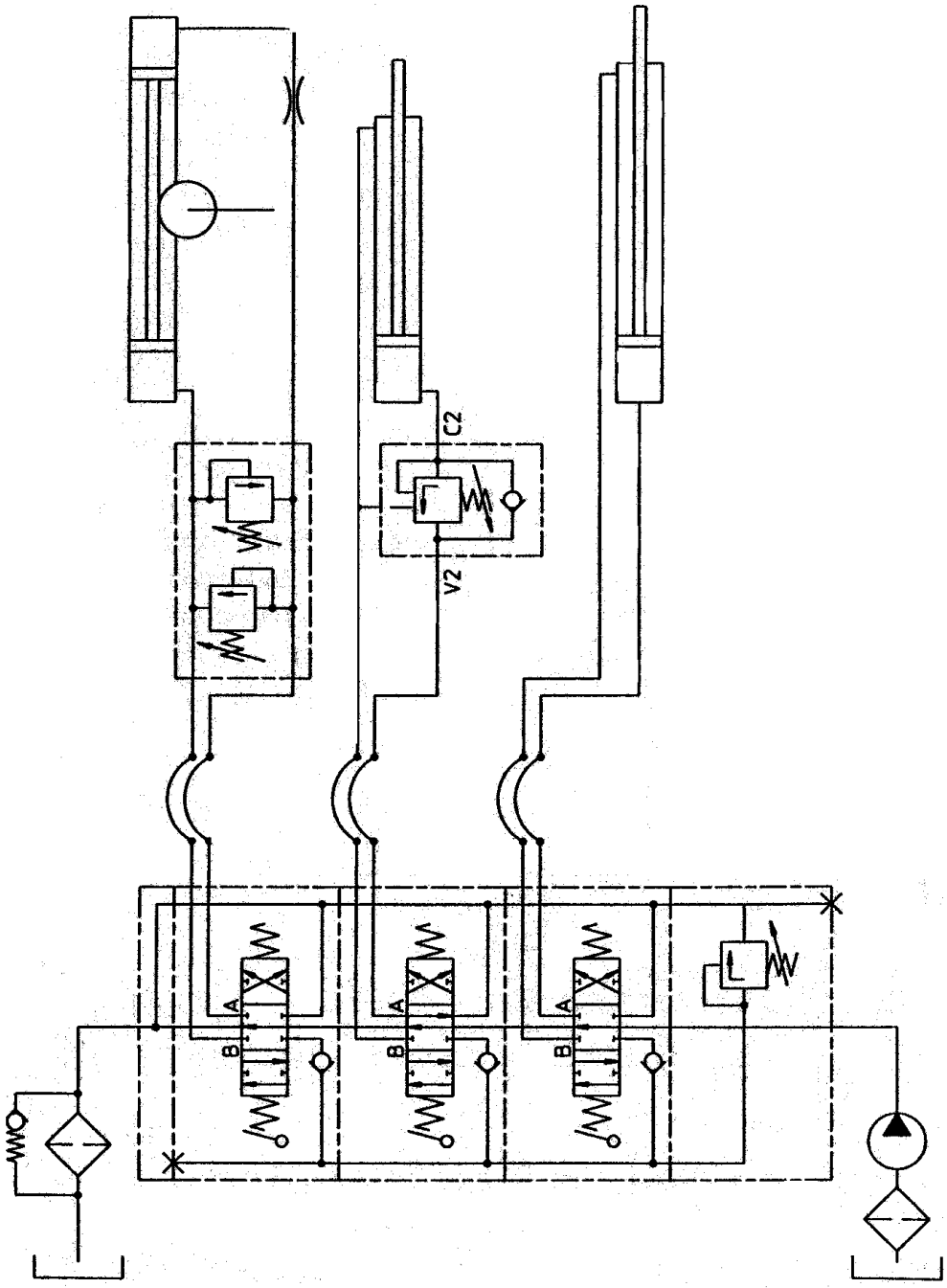
- Safeguard in case of hose failure / overload
- Keeps the boom in position by relieving pressure on pipes and hoses



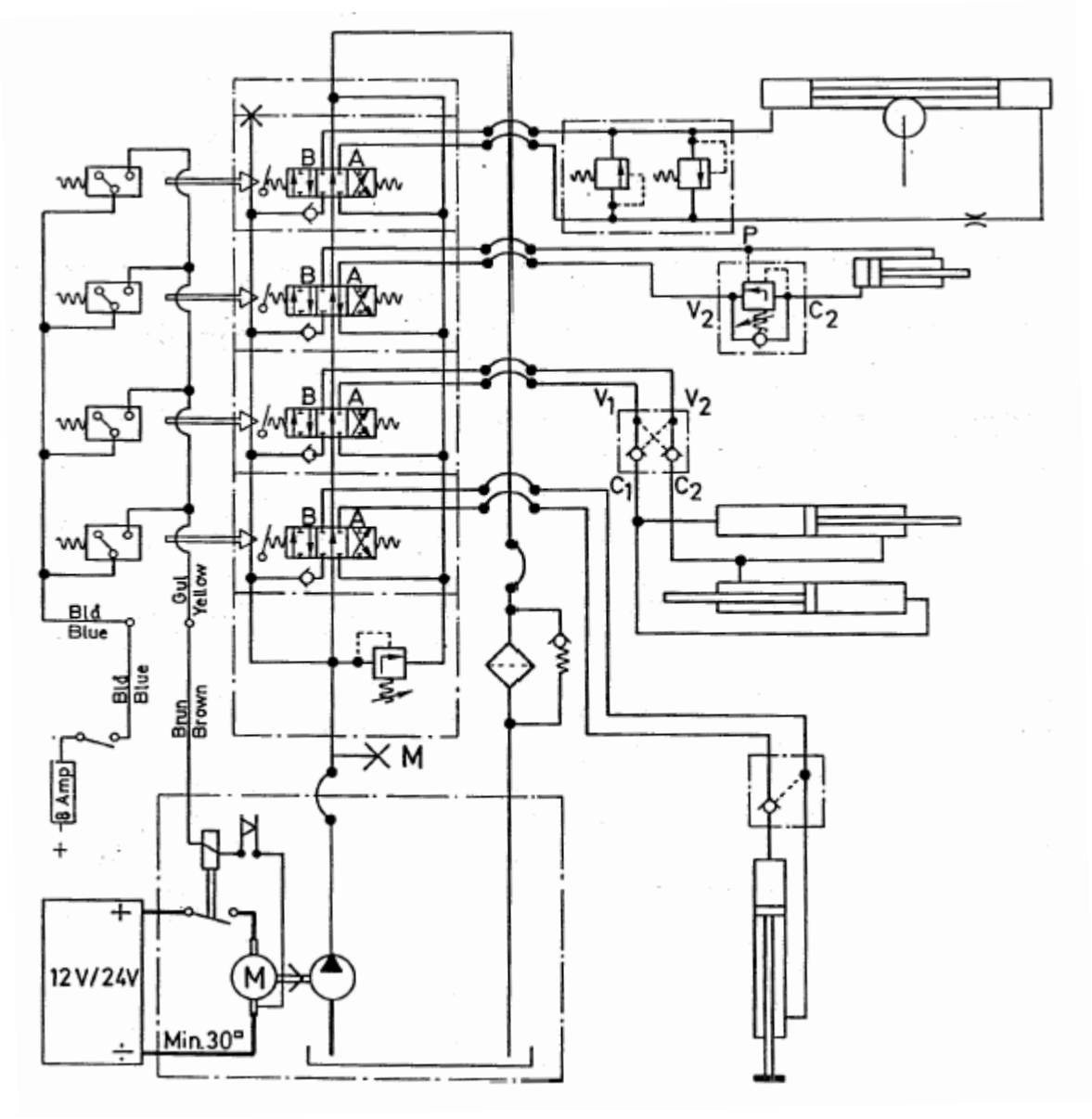
## 4.3 MODEL 1.5/10 ELECTRO-HYDRAULIC DIAGRAM



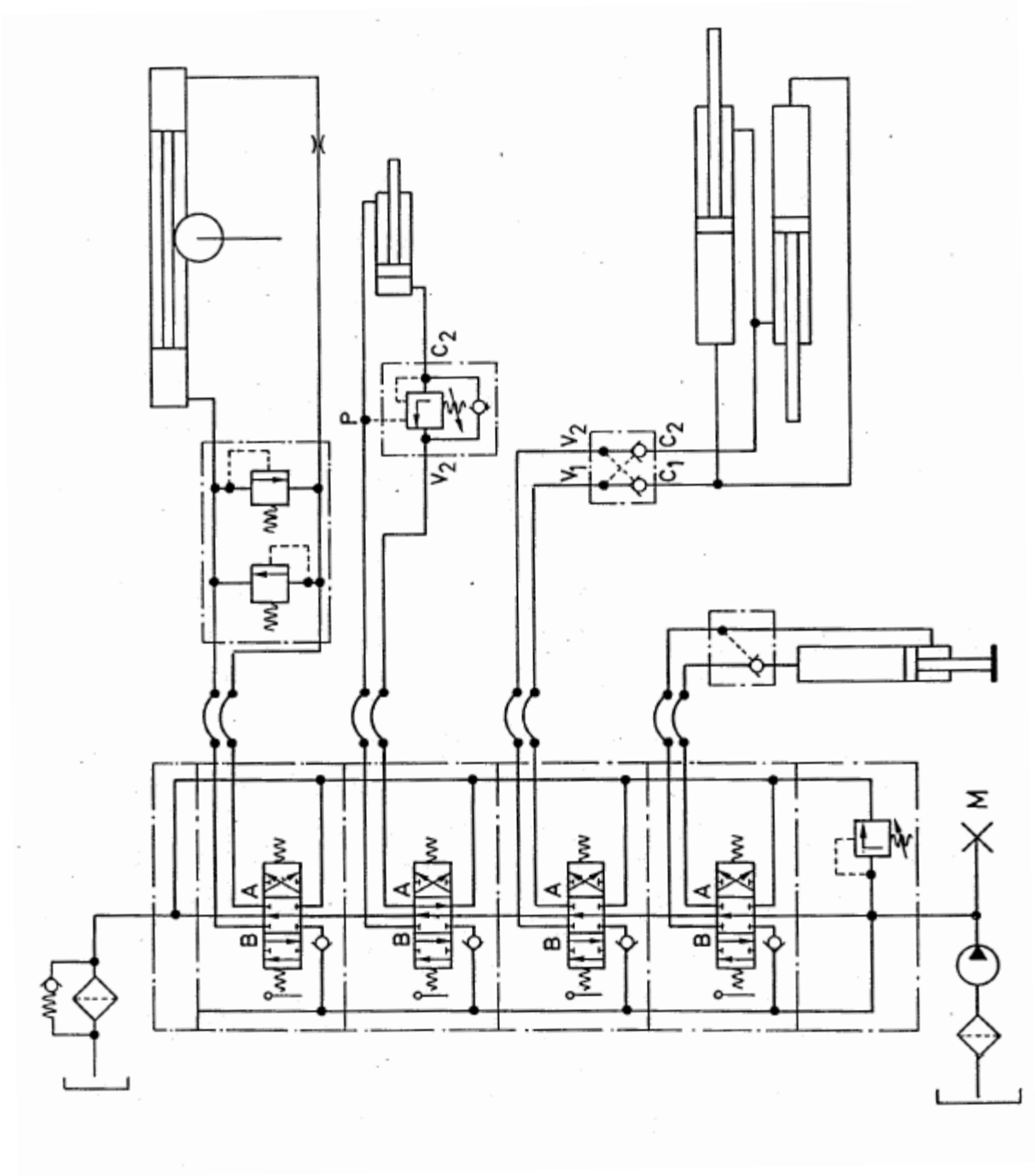
## 4.3.2 MODEL 1.5/10 HYDRAULIC DIAGRAM



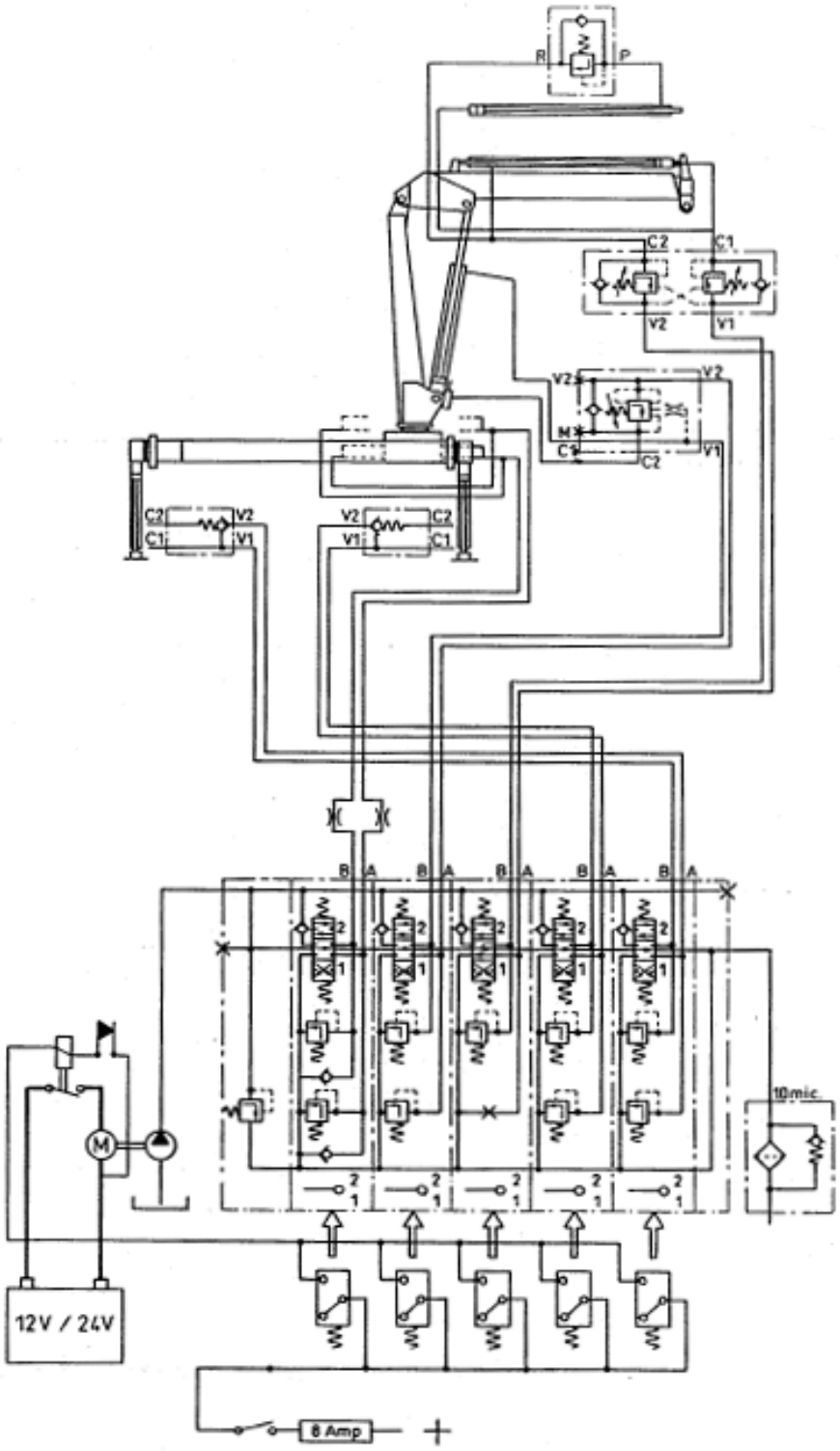
## 4.3.3 MODEL 2.0/15T ELECTRO-HYDRAULIC DIAGRAM



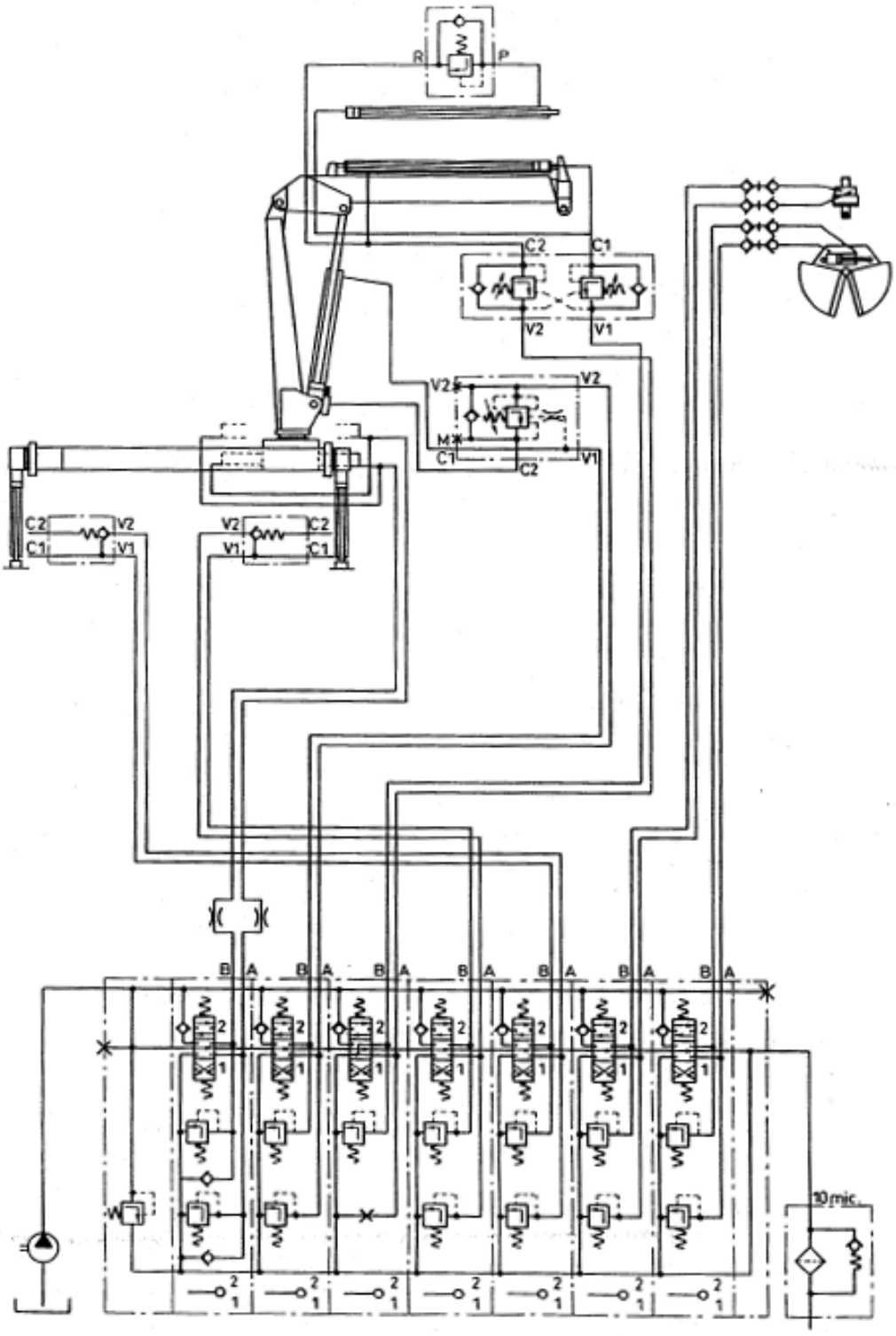
## 4.3.4 MODEL 2.0/15T HYDRAULIC DIAGRAM



## 4.3.5 MODEL 2.6/19T ELECTRO-HYDRAULIC DIAGRAM



## 4.3.6 MODEL 2.6/19T HYDRAULIC DIAGRAM



## 5.0 MAINTENANCE

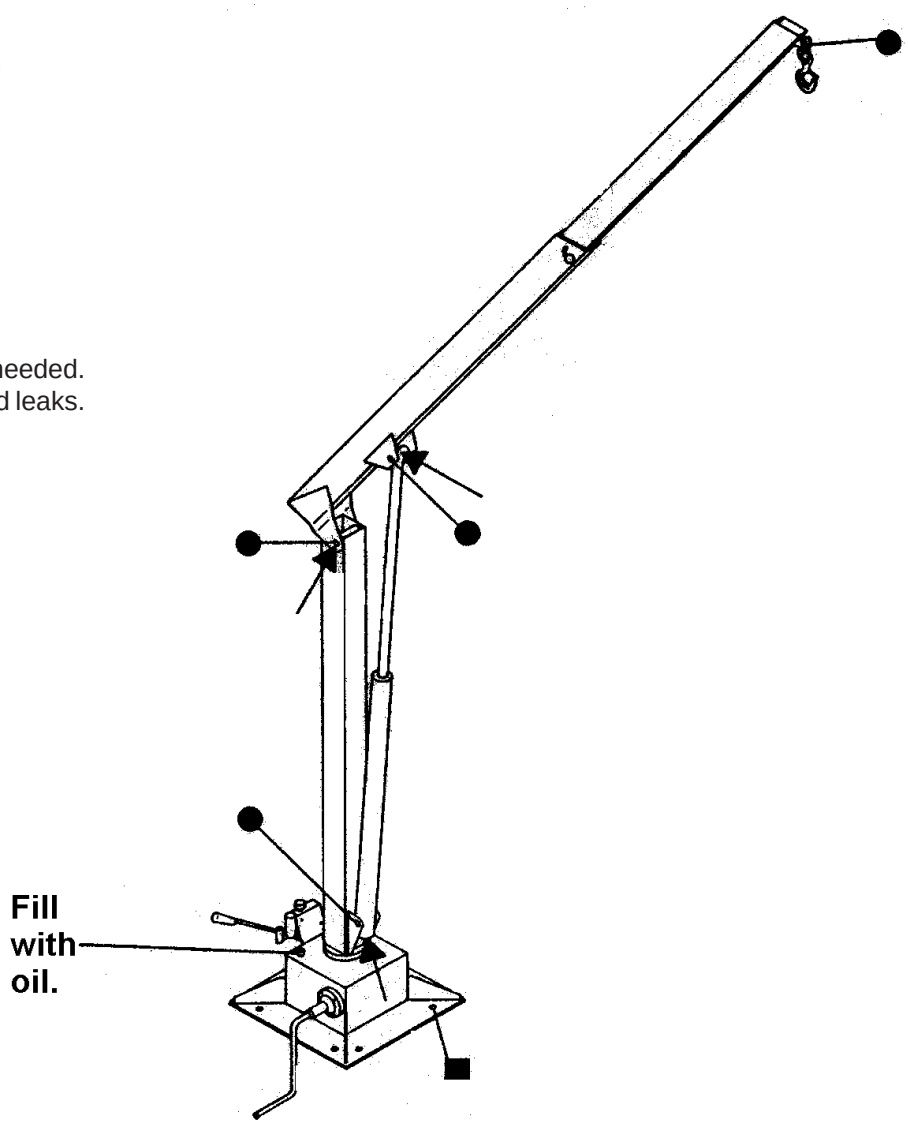
## 5.1 MODEL 0.5/4 - DAILY MAINTENANCE POINTS

● Check pins, splits, etc.

■ Tighten bolts if necessary.

▲ Lubricate with oil can.

- Replenish the tank (base) if needed.
- Check hoses for damage and leaks.



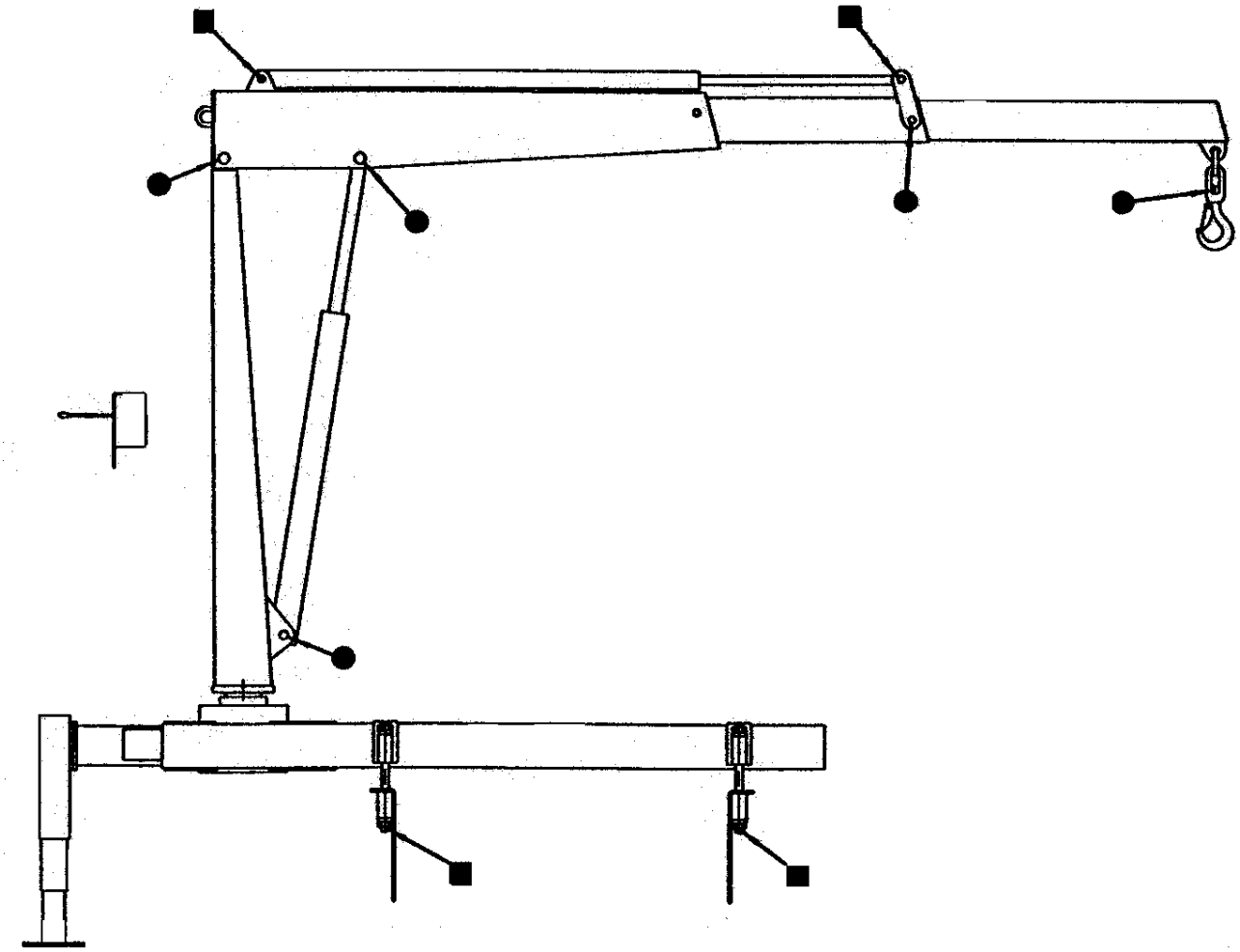
## 5.2 MODEL 1.5/10, 2.0/15T, 2.6/19T - DAILY MAINTENANCE POINTS

- Check the oil level in the base.

- Periodically check hoses and pipes for damage and leaks.

● Check pins, splits, etc.

■ Tighten bolts if necessary.



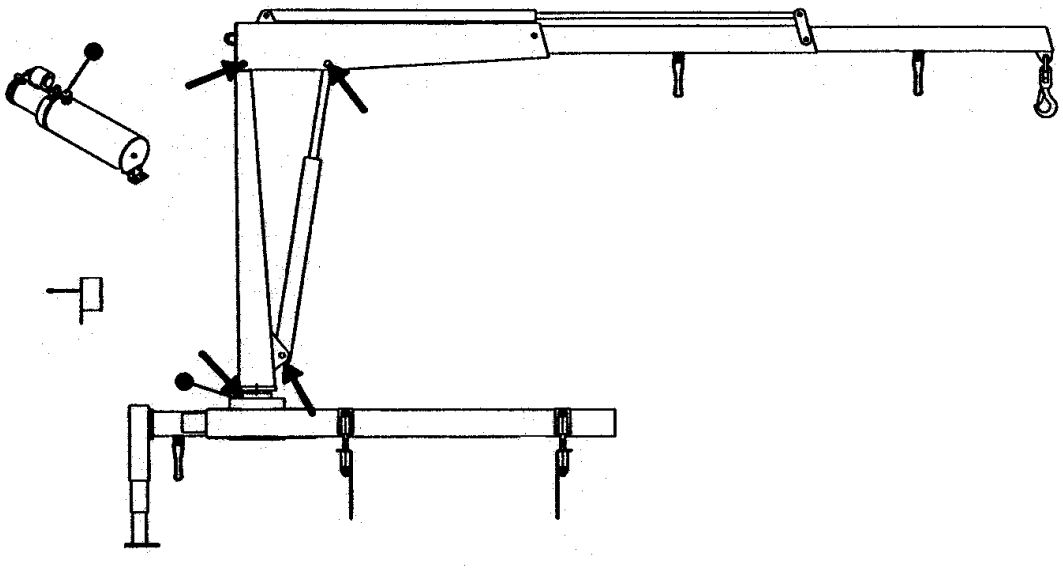
## 6.0 LUBRICATION & OIL CHANGE

The crane should be lubricatedt horoughly at the same intervals as the truck. However, in case of intensive use, it should be lubricated weekly. If the crane is used continuously, it should be lubricated daily.

NOTE:
Check the oil level in the base periodically.

| KEY - GREASE ZERK CHARTS | |
|---|---|
| ● | Fill with oil at these locations. |
| ▲ | Grease zerk locations. |
| | Apply grease with a spatula. |
| | Apply grease with a brush. |

## 6.1 MODEL 1.5/10, 2.0/15T, 2.6/19T GREASE ZERK LOCATIONS

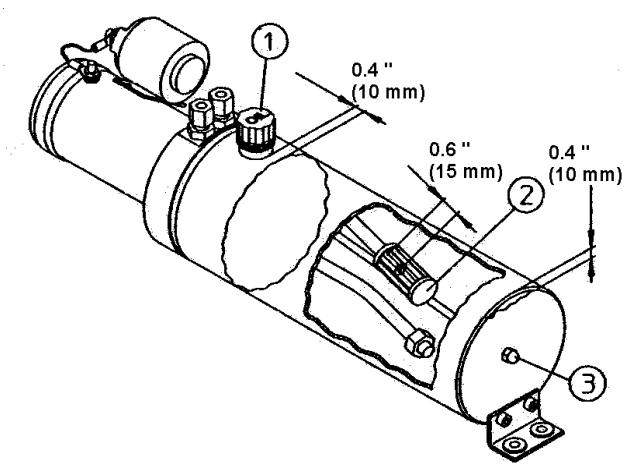


**NOTES:**

- Change oil and oil filter on an annual basis.
- Keep water and impurities from the oil tank.
- If necessary, refill the oil tank after bleeding air from the system.
- Do not mix different brands of oil.

## 6.3 CHANGING THE OIL AND OIL FILTER

### 6.3.1 MODEL 1.5/10, 2.0/15T, 2.6/19T - CHANGING THE OIL & OIL FILTER BY THE ELECTRIC POWER PACK




1. Fold the crane completely.

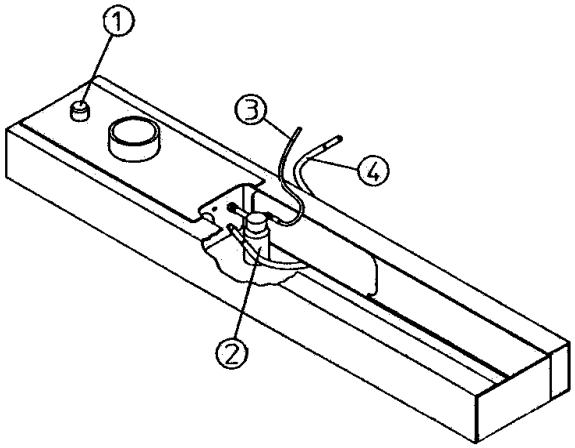
2. Remove the air filter (1), and empty the oil tank.

3. Dismantle the nut (3) in the end plate of the oil tank, remove the tank, and change the oil filter (2) if necessary.

4. Mount the tank and fill it with oil.

NOTE: Fill the tank with 2.11 gallons (8 l) of oil, even if the base is not used as a tank.

### 6.3.2 MODEL 1.5/10, 2.0/15T, 2.6/19T - CHANGING THE OIL & OIL FILTER BY PTO-HYDRAULIC




1. Remove the air filter (1) and the drain plug. Empty the oil tank.

2. Change the oil filter (2).

3. Mount the drain plug. Fill the tank with oil.

4. Mount the air filter (1).

## 6.3.4 HYDRAULIC OIL & GREASE SPECIFICATIONS

Choose hydraulic oils and greases using the tables below as guides. If the loader will be working below 32° F (0° C), select an oil designed for low temperatures, which has a higher viscosity index. Oil types not specified on the charts may be used if they correspond to the quality and specifications indicated.

In the winter, 1% isopropyl alcohol may be added to the oil to avoid condensed water problems.

During extreme temperatures, -40° F / + 167 °F (-40° C / +75° C), select hydraulic oil such as Esso Univis J26 or another comparable brand.

Grease telescopic jibs with Esso ESL 454. Apply grease where the telescopic jibs contact the slide blocks.

| APPLICATION POINT | LUBRICATION PRODUCT | APPLICATION MEANS | INTERVAL |
|---|---|---|---|
| Pinion and Drive Gear<br>Rotation Brake<br>Winch Brake<br>Winch Sheave<br>Turntable Bearing<br>Cylinder Pins<br>Boom Hinge Pins<br>Boom Rollers | Shell Alvania 2EP<br>OR<br>Shell Retinax "A"<br>OR<br>Mobilith AW2<br>OR<br>Equivalent | Hand Grease Gun<br>OR<br>Pneumatic Pressure Gun | Weekly |
| Rotation Worm Gear | Molub-Alloy 936 or Equiv. | Brush On | Weekly |
| PTO Transmission<br>Winch Sump | Mobilube HD 80W90 | Fill to Check Plug | Monthly |

## HYDRAULIC OIL SPECIFICATIONS AND APPLICATION POINTS

| AMBIENT TEMPERATURE RANGE | 0 - 90° | BELOW 0° | ABOVE 90° |
|---|---|---|---|
| Minimum Pour Point, °F | -40° | -40° | -10° |
| Maximum Viscosity, SSU @ 0°F | 5000 | 1500 | --- |
| Minimum Viscosity, SSU @ 100°F | 140-195 | 80-90 | 200-335 |
| Minimum Viscosity, SSU @ 210°F | 48 | 39 | 49 |
| Minimum Viscosity Index | 139 | 139 | 95 |
| ISO VG Grade | 32 | 15 | 46 |
| Mobil Oils (Reference) | DTE 13M | DTE 11M | DTE 25 |

## LUBRICANT SPECIFICATIONS

# 7.0 BLEEDING AIR FROM CYLINDERS

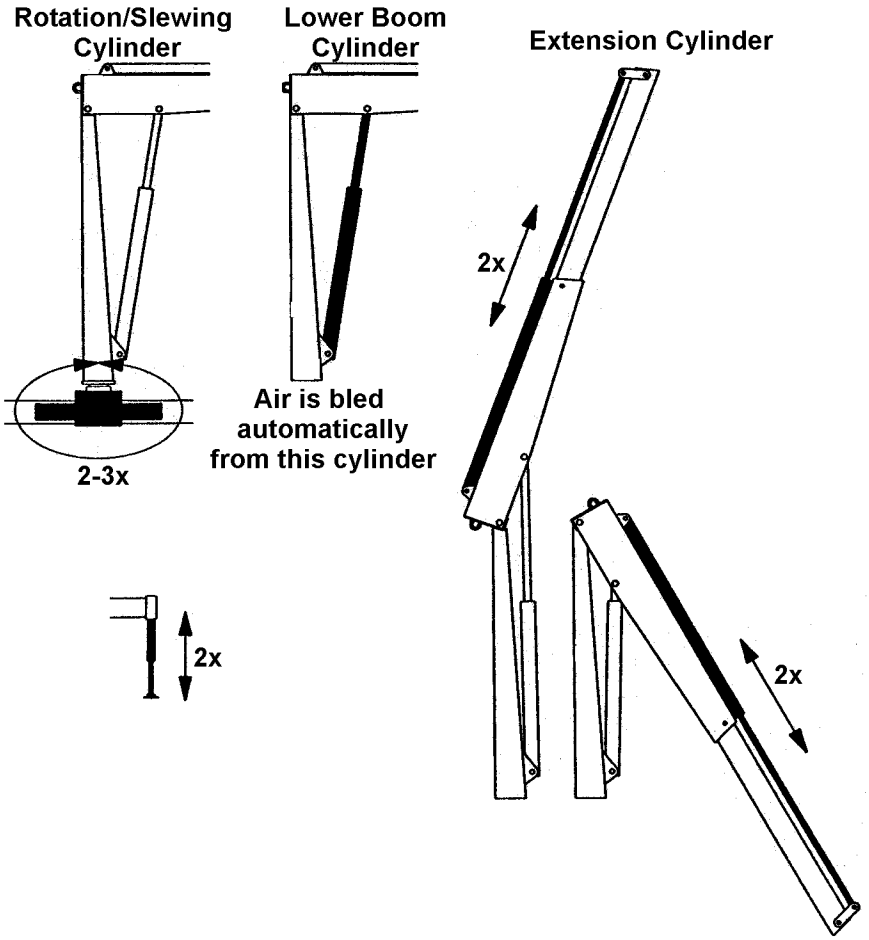
## 7.1 MODEL 1.5/10, 2.0/15T, 2.6/19T

If air has entered the hydraulic system, bleed the air from the cylinders by:

1) Fold the crane completely. Fill the oil tank with 2.11 gallons (8 l) of oil.

2) Follow the steps in the diagram below to bleed the air from the cylinders.

3) Refill the oil tank after bleeding the cylinders.

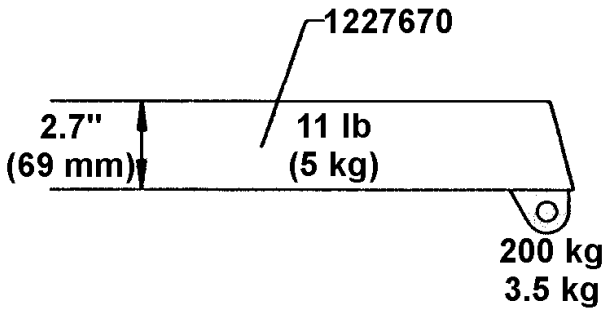


## 7.3 ACCESSORIES (MODELS 1.5/10, 2.0/15T, 2.6/19T ONLY)

MANUAL EXTENSIONS

An extra jib extension can be supplied for the loader. The manual extension is adapted especially for the particular type of loader. It should not be shortened or lengthened.

Use only factory original manual extensions.



# 8.0 CHANGE OF SLEWING AREA

## 8.1 MODEL 1.5/10, 2.0/15T, 2.6/19T CHANGE OF SLEWING AREA

1) Position the crane so that the slew to both sides is exactly the same (neutral position).

2) Remove oil from the base using the drain plug (5).

3) Remove the slewing cylinder (1).

4) Pull out the slide block (4) using the M8 threaded hole.

5) Pull out the rack (3).

6) Manually turn the loader column to the required “C” (Figure 2).

7) Place the rack (3) in the slewing house. The distance between the outer part of the rack (3) and the end plate must be approximately 2.8” ± .3” (71.5 mm ± 8 mm), depending on the mutual mesh of the teeth.

8) Place the slide block (4) behind the rack (3). Remount the slewing cylinder (1).

9) Lubricate the bolts (2) with Locktite Normal or Locktite No. 242. Screw the bolts back in.

10) Replace the drain plug (5). Replace oil if needed.

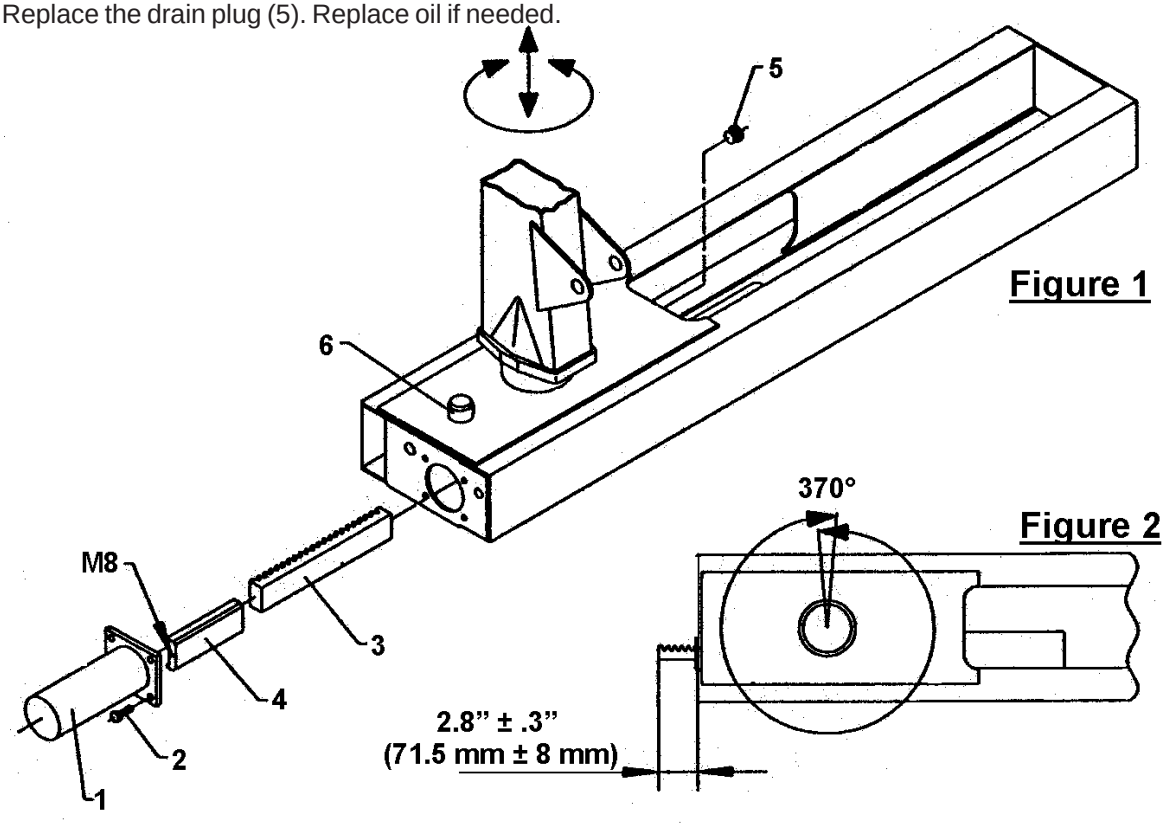


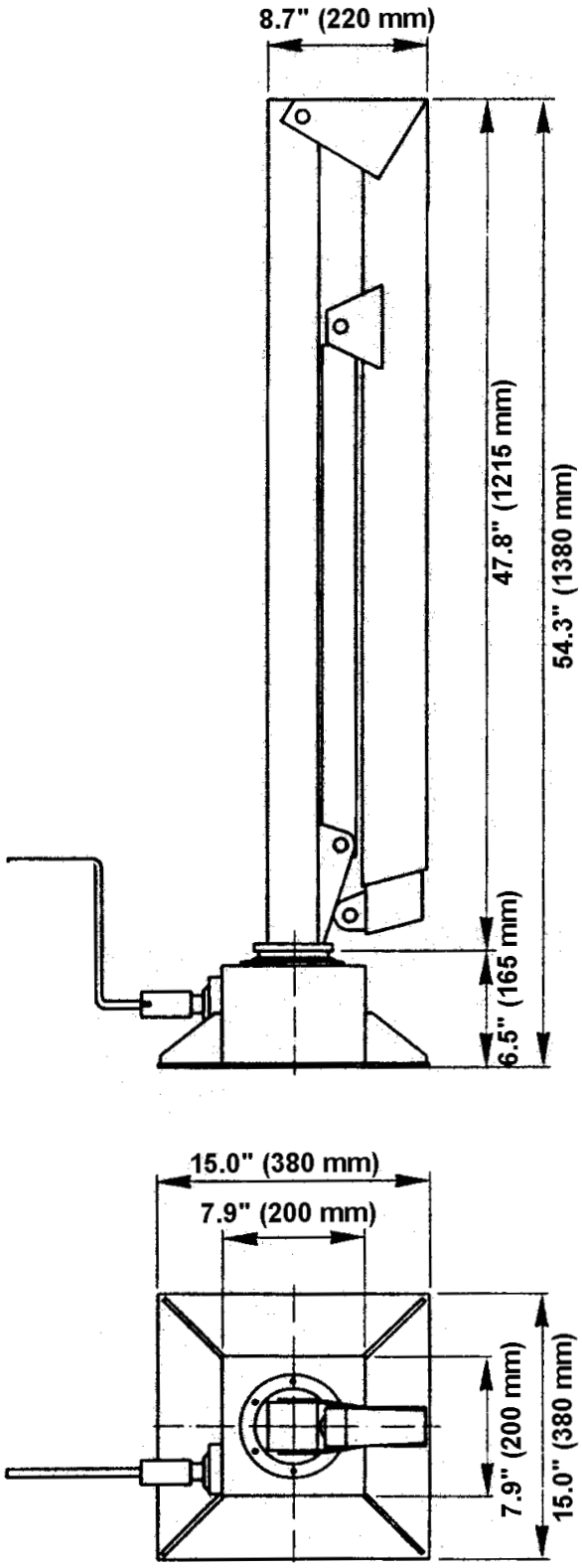

Figure 1




Figure 2

## 9.0 TECHNICAL DATA

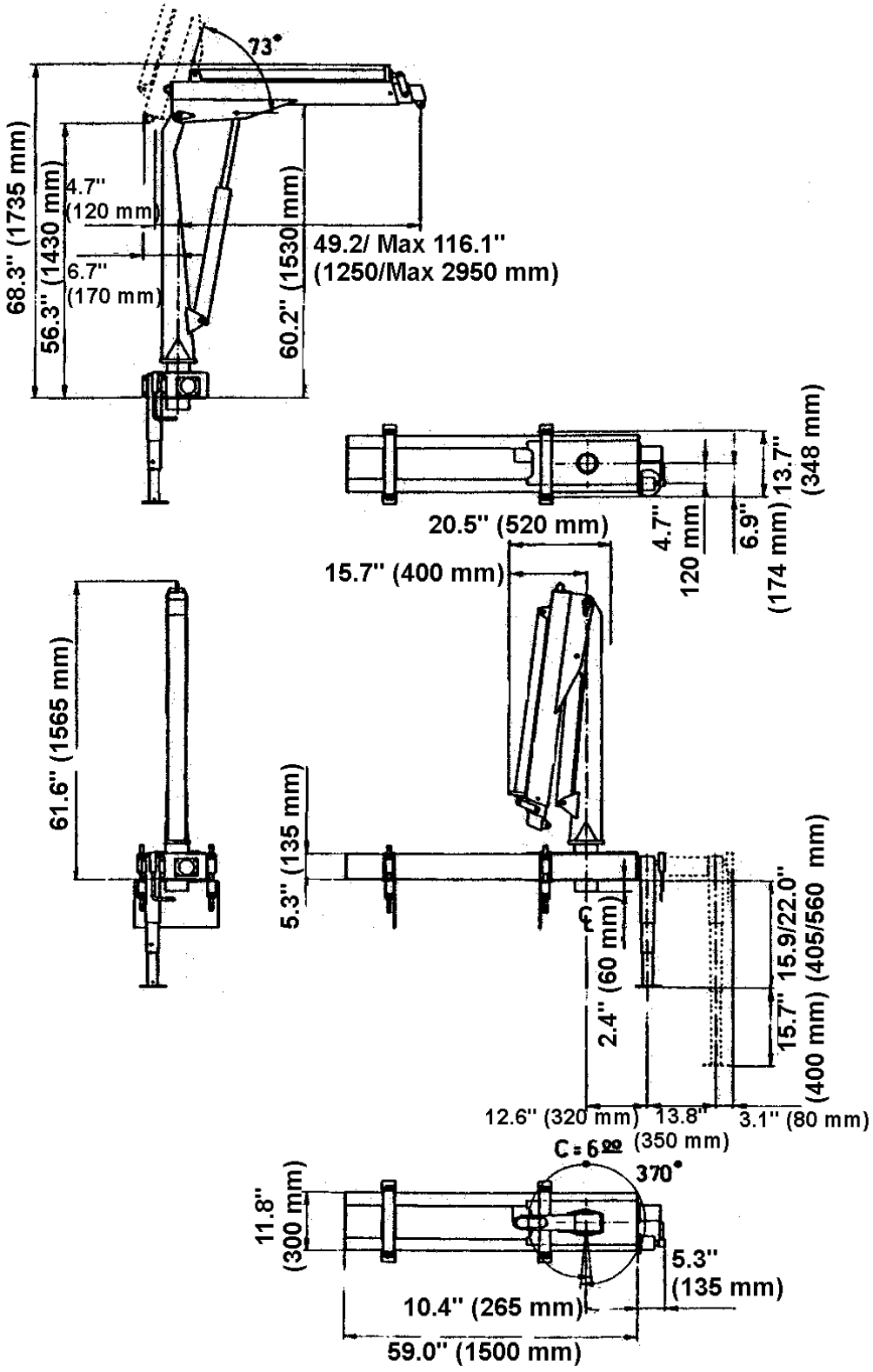
## 9.1A MODEL 0.5/4 DIMENSIONAL DRAWINGS



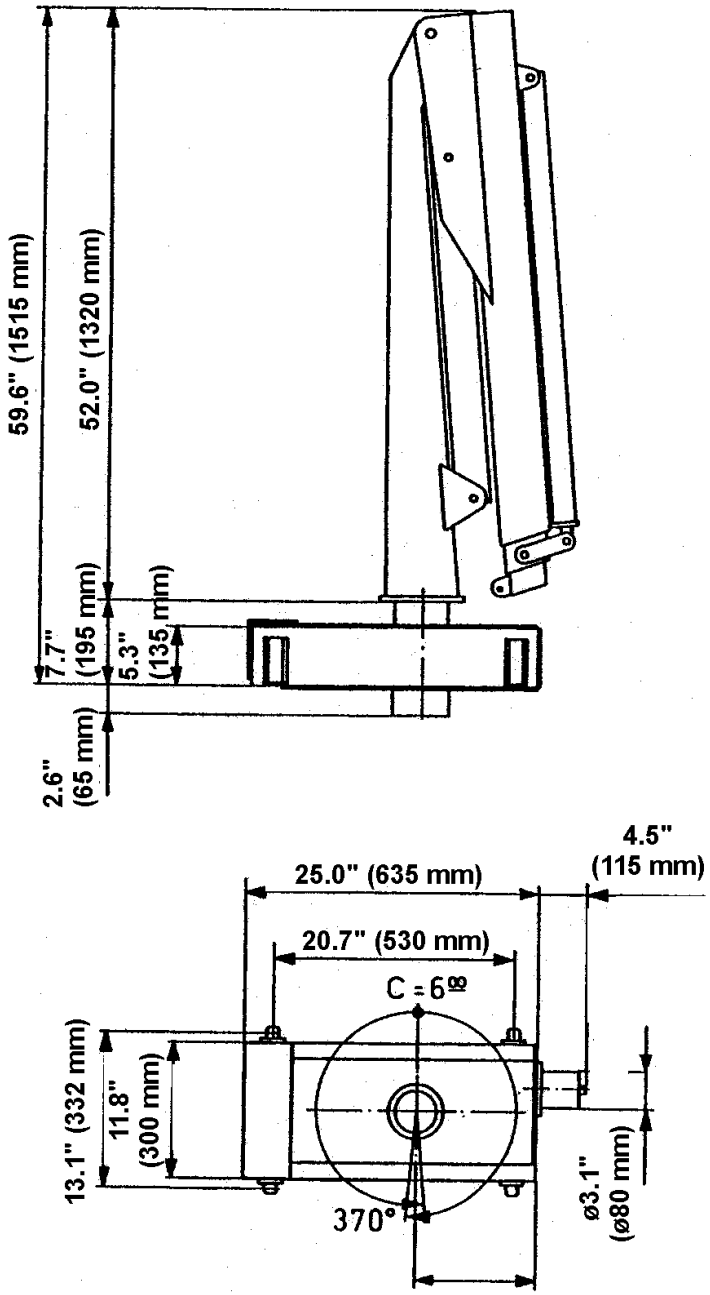
## 9.1B MODEL 0.5/4 TECHNICAL DATA

| | | |
|---|---|---|
| LOAD MOMENT | 0.5 TM | |
| LIFTING CAPACITY AT: | 4'-11" (1.5 m)<br>6'- 7" (2.0 m) | 948 lb (430 kg)<br>551lb (250 kg) |
| MANUAL EXTENSIONS | 1 | |
| MAX. LIFTING HEIGHT ABOVE BASE<br>MAX. LOWERING BELOW BASE<br>HEIGHT ABOVE PLATFORM IN PARKED POSITION | 122" (3100 mm)<br>35.4" (900 mm)<br>54.3" (1380 mm) | |
| POWER SOURCE | HYDRAULIC HAND PUMP<br>(OPTIONAL ELECTRIC POWER PACK FOR LIFT) | |
| SLEWING SYSTEM<br>SLEWING ANGLE | WORM GEAR IN OIL BATH<br>> 360° | |
| WEIGHT | 137 lb (62 kg) | |

## 9.2A MODEL 1.5/10 T1 (T2)
## DIMENSIONAL DRAWINGS



## 9.2B MODEL 1.5/10 T1 M (T2 M)
## DIMENSIONAL DRAWINGS



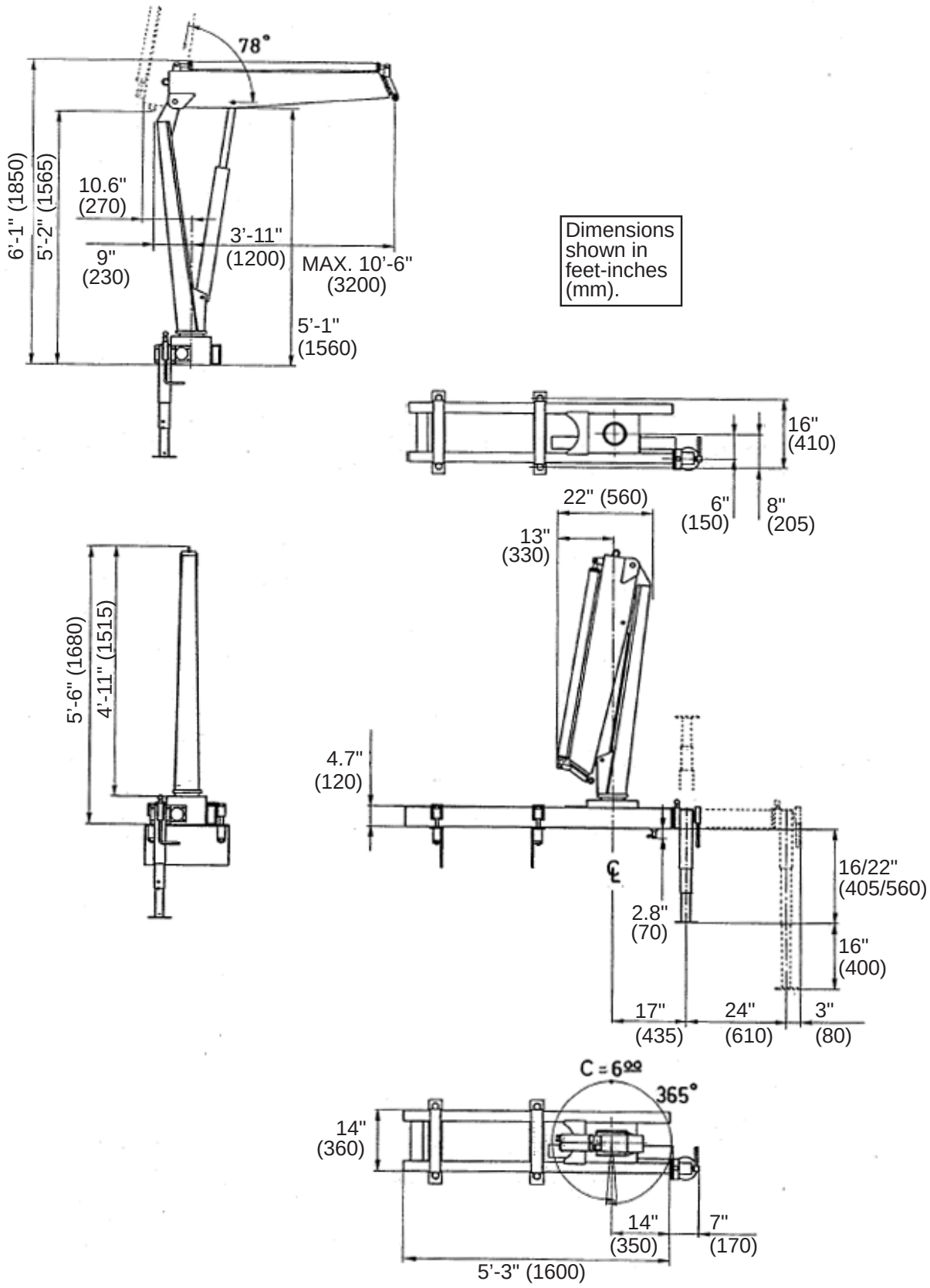
## 9.2C MODEL 1.5/10 TECHNICAL DATA

| | T1 | T2 | T1 M | T2 M |
|---|---|---|---|---|
| LOAD MOMENT | 1.5 tm | 1.5 tm | 1.5 tm | 1.5 tm |
| HYDRAULIC REACH | 6-'11" (2.1 m) | 9'-8" (2.95 m) | 6-'11" (2.1 m) | 9'-8" (2.95 m) |
| SLEWING TORQUE | 1013 ft-lb (140 kgm) | 1013 ft-lb (140 kgm) | 1013 ft-lb (140 kgm) | 1013 ft-lb (140 kgm) |
| HEIGHT ABOVE CHASSIS WHEN FOLDED | 61.6" (1565 mm) | 61.6" (1565 mm) | 59.6" (1515 mm) | 59.6" (1515 mm) |
| WIDTH WHEN FOLDED | 20.5" (520 mm) | 20.5" (520 mm) | 20.5" (520 mm) | 20.5" (520 mm) |
| STABILIZER SPREAD, EXTENSION | 13.8" (350 mm) | 13.8" (350 mm) | -- | -- |
| WEIGHT, LOADER INCL. STABILIZER LEG & POWER PACK | 407.9 lb (185 kg) | 440.9 lb (200 kg) | -- | -- |
| WEIGHT, LOADER EXCL. STABILIZER LEG & POWER PACK | -- | -- | 352.7 lb (160 kg) | 385.8 lb (175 kg) |
| OIL IN BASE | 17.6 lb (8 kg) | 17.6 lb (8 kg) | 17.6 lb (8 kg) | 17.6 lb (8 kg) |
| OIL IN CYLINDERS & HOSES | 8.8 lb (4 kg) | 8.8 lb (4 kg) | 8.8 lb (4 kg) | 8.8 lb (4 kg) |

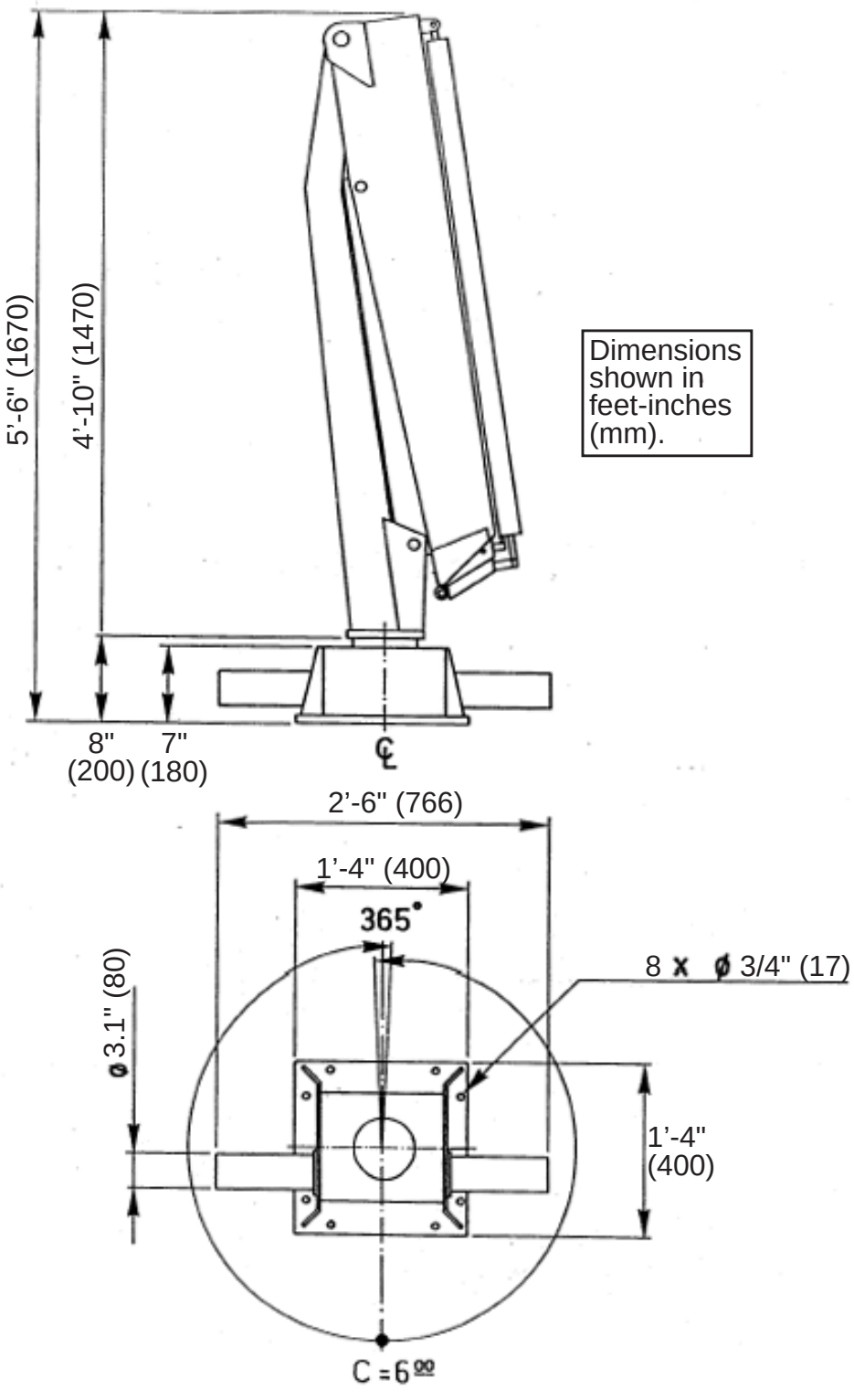
## 9.2D POWER CONSUMPTION / PUMP PERFORMANCE

| | ALL MODELS |
|---|---|
| WORKING PRESSURE | 2248 psi (15.5 MPa) |
| PUMP PERFORMANCE | 1.06-2.11 gpm (4 - 8 l/min) |
| MAX. POWER CONSUMPTION | |
| 12 volt: | 155 Amp |
| 24 volt: | 80 Amp |
| BATTERY CAPACITY | |
| 12 volt: | 120 Ah |
| 24 volt: | 80 Ah |
| OIL CAPACITY IN BASE | 2.11 gal (8 l) |

## 9.4A: DIMENSIONAL DRAWING, 2.0/15T



## 9.4B: DIMENSIONAL DRAWING, 2.0/15T STATIONARY MOUNT



## 9.4C: 2.0/15T TECHNICAL DATA

| **2.0/15T** | **2-HYDRAULIC** | **2-HYDRAULIC STATIONARY-MOUNT** |
|---|---|---|
| Crane Rating* | 14,465 ft-lb (2.0 tm) | 14,465 ft-lb (2.0 tm) |
| Maximum Horizontal Reach | 10' 6" (3.2 m) | 10' 6" (3.2 m) |
| Maximum Vertical Reach | 15' 9" (4.8 m) | 15' 9" (4.8 m) |
| Maximum Capacity | 3680 lb (1670 kg) | 3680 lb (1670 kg) |
| Max Cap @ Max Reach | 1325 lb (600 kg) | 1325 lb (600 kg) |
| Crane Weight, incl. stabilizer and power pack | 530 lb (240 kg) | |
| Crane Weight, exluding power pack | | 660 lb (300 kg) |
| Center of Gravity - Stored | | |
| Vertical | 16" (405 mm) | |
| Horizontal (C/L RotTo Bridge) | 4" (100 mm) | |
| Stabilizer Pad Diameter | 6" (160 mm) | 6" (160 mm) |
| Crane Storage Height | 5' 6" (1680 mm) | 5' 6" (1670 mm) |
| Mounting Space | 1' 10" (560 mm) | 1' 10" (560 mm) |
| Rotational Torque | 1375 ft lb (190 kg-m) | 1375 ft lb (190 kg-m) |
| Rotation | 365 degrees | 365 degrees |
| Optimum Pump Performance | 1.6 - 2.1 gpm (6-8 L/min) | 1.6 - 2.1 gpm (6-8 L/min) |
| System Pressure | 2610 psi (180 bar) | 2610 psi (180 bar) |
| Oil Capacity in Base | 1.7 gal (6.5 L) | 1.7 gal (6.5 L) |
| Stabilizers | | |
| Extension | 2'-0" (610 mm) | -- |
| Weight | 440 lb (200 kg) | -- |

PRESSURE SETTINGS
Use a pressure gauge when setting pressures. Check pressure with annual inspection and after all major repairs.

| WORKING PRESURE ON PORT-RELIEF VALVE | | |
|---|---|---|
| Main relief valve | 2610 psi (180 bar) | 2610 psi (180 bar) |
| Rotation (slewing) system | 1815 psi (125 bar) | 1815 psi (125 bar) |

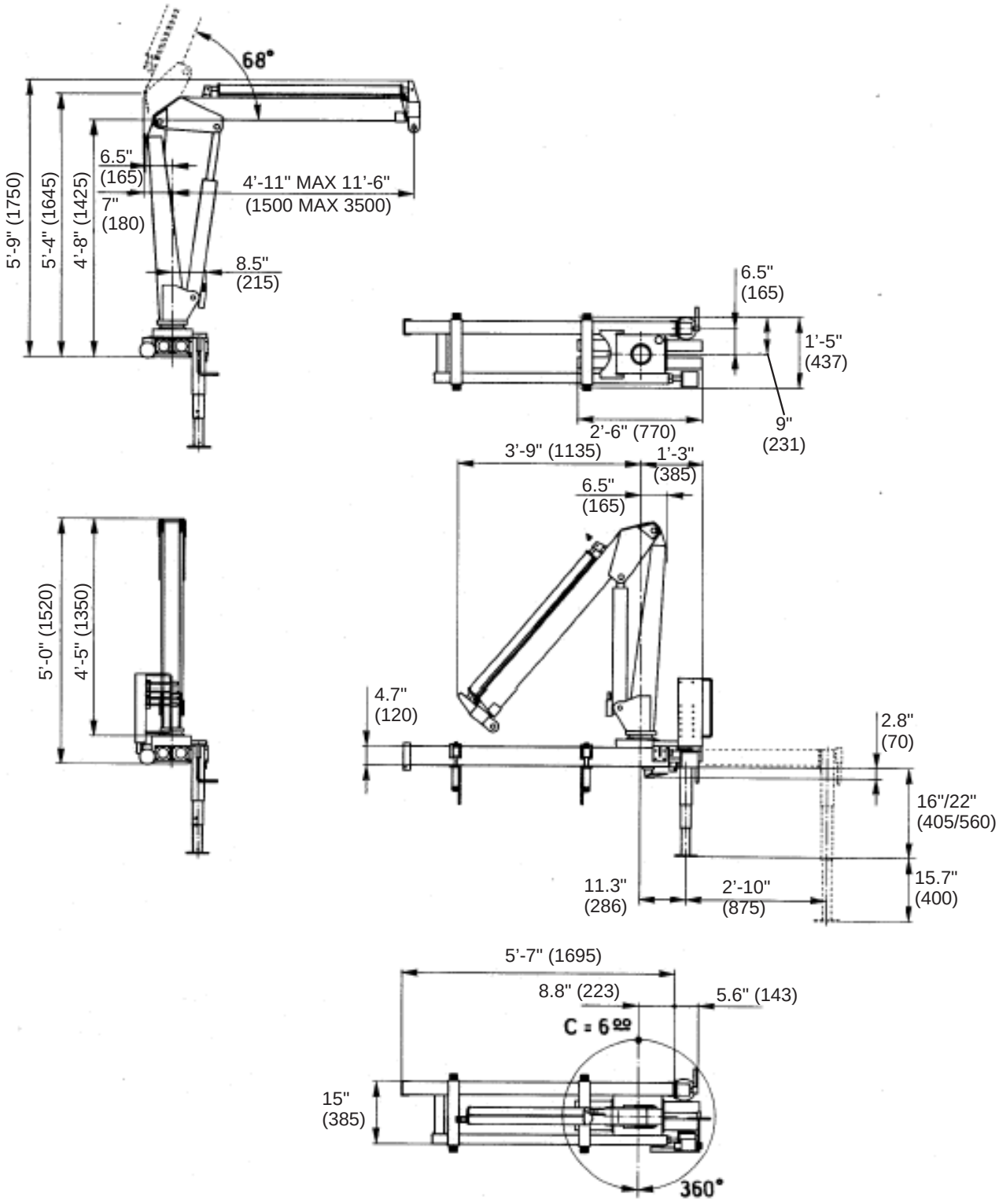
| OPENING PRESURE ON LOAD-HOLDING VALVES | | |
|---|---|---|
| Boom cylinder | 2755 psi (190 bar) | 2755 psi (190 bar) |

| PRESURE SETTINGS | | |
|---|---|---|
| 90% load | 2320 psi (160 bar) | 2320 psi (160 bar) |
| 100% load | 2610 psi (180 bar) | 2610 psi (180 bar) |

PRESSURE SETTINGS FOR LOAD-MOMENT LIMITATION
Set the working pressure of the load-moment limitation to 145 psi (10 bar) less than the opening pressure of the load-holding valves of the boom cylinder. Thus, the setting is 2610 psi (180 bar).

* Crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from centerline of rotation with all extensions retracted and the inner and outer booms in a horizontal position, per ANSI B30.22.

## 9.5A: DIMENSIONAL DRAWING, 2.6/19T



## 9.5B: 2.6/19T TECHNICAL DATA

| **2.6/19T** | **2-HYDRAULIC** |
|---|---|
| Crane Rating* | 18,806 ft-lb (2.6 tm) |
| Maximum Horizontal Reach | 11' 6" (3.5 m) |
| Maximum Vertical Reach | 16' 1" (4.9 m) |
| Maximum Capacity | 3880 lb (1760 kg) |
| Max Cap @ Max Reach | 1610 lb (730 kg) |
| Crane Weight | 605 lb (275 kg) |
| Center of Gravity - Stored | |
| Vertical | 15" (380 mm) |
| Horizontal (C/L RotTo Bridge) | 12" (310 mm) |
| Stabilizer Pad Diameter | 5.5" (140 mm) |
| Crane Storage Height | 5' 0" (1520 mm) |
| Mounting Space | 1' 7" (475 mm) |
| Rotational Torque | 2460 ft lb (340 kg-m) |
| Rotation | 360 degrees |
| Optimum Pump Performance | 3.2 gpm (12 L/min) |
| System Pressure | 2683 psi (185 bar) |
| Oil Capacity in Base | 2.8 gal (10.5 L) |
| Stabilizers | |
| Extension | 2'-10" (875 mm) |
| Weight | 62 lb (28 kg) |

PRESSURE SETTINGS (Continue from here)
Use a pressure gauge when setting pressures. Check pressure with annual inspection and after all major repairs.

WORKING PRESURE ON MAIN-RELIEF VALVES AND PORT-RELIEF VALVE

| | | |
|---|---|---|
| Main relief valve | A & B-ports | 2683 psi (185 bar) |
| Stabilizer legs, grab, rotator | Up & Down | 2540 psi (175 bar) |
| Extension cylinders | Extend (B-port) | 1815 psi (125 bar) |
| | Retract (A-port) | P |
| Boom cylinder | Down (B-port) | 1815 psi (125 bar) |
| | Up (A-port) | 2683 psi (185 bar) |
| Rotation system | Right (B-port) | 1450 psi (100 bar) |
| | Left (A-port) | 1450 psi (100 bar) |

OPENING PRESURE ON LOAD-HOLDING VALVES

| | |
|---|---|
| Boom cylinder | 2830 psi (195 bar) |
| Extension cylinders | 3625 psi (250 bar) |

| | |
|---|---|
| PRESURE SETTINGS FOR LOAD-MOMENT LIMITATION + 100% load | 2685 psi (185 bar) |
| PRESURE SETTINGS FOR LOAD-MOMENT LIMITATION + 90% load | 2395 psi (165 bar) |

* Crane rating (ft-lb) is the rated load (lb) multiplied by the respective distance (ft) from centerline of rotation with all extensions retracted and the inner and outer booms in a horizontal position, per ANSI B30.22.

## 11.0 REPAIR

If your crane needs repair, always use an authorized IMT dealer.

When ordering spare parts, know the:

| | |
|---|---|
| Crane Model | i.e. Model 1.5/10 |
| Serial Number | i.e. 421397 |

Reference number of the spare part required.

If you do not have a spare parts manual, contact your dealer to order one.

**IOWA MOLD TOOLING CO., INC.**
**BOX 189, GARNER, IA 50438-0189**
**641-923-3711**
**TECHNICAL SUPPORT FAX: 641-923-2424**