2.5/18 Instructions & Technical Specifications

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</tbody>
</table>
1. Introduction

This instruction manual contains a description of the loader, instructions for operation as well as for maintenance and servicing of the loader.

It is very important that the owner and operator are familiar with the contents of this manual as well as the Safety Manual, the RCL Instruction Manual, and the Service Booklet prior to beginning loader operation.

It is also important to attend the recommended service overhauls. These service overhauls are designed to secure operational safety at all times and will also be of importance in case of warranty claims at a later stage, where great importance will be attached to whether these overhauls have been carried through by an authorized IMT service point or not.

As IMT is constantly developing and improving the loaders, your loader model may have been changed slightly since printing of this instruction manual.

2. Description of Loader Terminology

The loader is designed as a truck-mounted loader and therefore stationary mounting of the loader, mounting on agricultural tractors, special purpose vehicles etc. must only take place according to specific agreement with IMT.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Suspension Bridge</td>
</tr>
<tr>
<td>2</td>
<td>Hydraulic Control Valve</td>
</tr>
<tr>
<td>3</td>
<td>Outrigger Arm</td>
</tr>
<tr>
<td>11</td>
<td>Mast</td>
</tr>
<tr>
<td>12</td>
<td>Link Arm, Inner Boom</td>
</tr>
<tr>
<td>13</td>
<td>Hinge Pin</td>
</tr>
</tbody>
</table>
### 3. Control Valve Symbols

<table>
<thead>
<tr>
<th></th>
<th>Control Valve</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5.</td>
<td>Outriggers</td>
<td>15. Outer Cylinder</td>
</tr>
<tr>
<td>6.</td>
<td>Control Valve, Outriggers</td>
<td>16. Outer Boom Pin</td>
</tr>
<tr>
<td>7.</td>
<td>Rotation System / Cylinder</td>
<td>17. Link Arm, Outer Boom</td>
</tr>
<tr>
<td>8.</td>
<td>Planetary Gear Drive</td>
<td>18. Outer Boom</td>
</tr>
<tr>
<td>9.</td>
<td>Inner Boom Cylinder</td>
<td>19. Extension</td>
</tr>
</tbody>
</table>

Each control valve has a label showing the functions of that particular valve.

- **Extension out**: Extension out
- **Outer boom up**: Outer boom up
- **Boom down**: Boom down
- **Rotation right**: Rotation right
- **Grab open up**: Grab open up
- **Rotator right**: Rotator right
- **Right outrigger arm extend**: Right outrigger arm extend
- **Right outrigger down**: Right outrigger down
- **Fly-Jib, extension out**: Fly-Jib, extension out
- **Fly-Jib, jib up**: Fly-Jib, jib up
- **Winch down**: Winch down
4. Operating Instructions

4.1a Safety Precautions

Before loader operation the operator must make sure that the loader operation does not entail any unnecessary risk. Special attention must be paid to the following factors:

1. The ground must be sufficiently firm to take up the pressure from the outrigger legs. Use of steel plates under the foot plates are recommended in case of heavy lifting.

2. The ground must not be slippery (i.e. covered with ice or sand). When the parking brake is applied, the truck must be able to take up the horizontal forces from the loader without skidding or moving.

3. The truck must be parked in such a way that the operator has a complete view of the working area.

4. The operator must make sure that there are no electric wires or any other obstacles within the working radius of the loader.

5. The operator must inform any unauthorized persons that entry into the working area is not permitted.

Electrical Safety

![Electrical Safety Warning]

- **DANGER**
- **ELECTROCUTION HAZARD**
  - This crane is not insulated
  - DEATH OR SERIOUS INJURY WILL RESULT FROM CONTACT WITH OR INADEQUATE CLEARANCE
  - Maintain a clearance of at least 10 feet between any part of the crane, loadline or load and any electrical line carrying up to 50,000 volts (50 kV).
  - If electrical line voltage is unknown, assume maximum voltage and maintain a clearance of at least 45 feet.

<table>
<thead>
<tr>
<th>Nominal Voltage, kV</th>
<th>Minimum Required Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 to 50</td>
<td>10 feet</td>
</tr>
<tr>
<td>Over 50 to 200</td>
<td>15 feet</td>
</tr>
<tr>
<td>Over 200 to 350</td>
<td>20 feet</td>
</tr>
<tr>
<td>Over 350 to 500</td>
<td>25 feet</td>
</tr>
<tr>
<td>Over 500 to 750</td>
<td>35 feet</td>
</tr>
<tr>
<td>Over 750 to 1000</td>
<td>45 feet</td>
</tr>
</tbody>
</table>
For all work in the proximity of power plants or overhead wires the following general rules apply:

1. Due care and caution must be exercised in the planning, instructing for and execution of such work in order to prevent any risk or danger to persons, equipment or goods.

2. Any power supply plant, installation or wire must be considered live until the responsible power supply authority has provided a declaration to the opposite effect.

3. Any directions or guidelines from the responsible power supply authorities or public bodies should be strictly observed.

Any person or company directly responsible for the implementation of work in the proximity of overhead wires or electric power stations must make sure that all personnel involved in the execution of such work is familiar with any laws, rules or safety regulations, national as well as local, governing such work in the relevant country, territory or zone.

### 4.1b Engaging the PTO

1. Switch the change-over valve, if any, to “loader”.

2. Engage the PTO at low revolutions.

3. The engine revolution speed is regulated by means of the hand accelerator in order to ensure that the oil flow from the hydraulic pump corresponds to the recommended pump flow for the loader. When starting up in the cold, the oil should be allowed to circulate for a few minutes before operation starts.

4. Apply the vehicle parking brake.

Starting up:

a. Pull out the emergency stop button – remember both sides of the loader, if necessary.

b. Push the green button once. The “RUN” diode is lit and the safety system is activated.
4.1c Outrigger Functions

Push the yellow button twice and the “FUNC” and “F5” diodes are lit. After 2 seconds the diodes are turned off, but the outrigger function remains activated.

The outrigger function is activated. Complete the following items.

**NOTE:**

On certain loader models the outriggers are operated using of the radio remote control. See the IRC Instruction Manual.

To return to loader functions,

Either activate one of the control levers of the loader’s control valve OR Push the yellow button twice. "FUNC" is lit and “F5” is turned off.

All loader functions are now active.

**OUTRIGGERS**

Release the outrigger lock and extend the outrigger arm completely, and lock it again. If the loader is equipped with a hydraulic extension function, it must only be used for extending and retracting the outrigger arm. The stability of the loader and the vehicle is based on the outriggers in their extreme position and the loader should only be used at maximum outrigger spread. The operator must know whether or not the vehicle is stable in the area in front of the outriggers (over the driver’s cab). Lower the outrigger legs just enough to raise the truck chassis a little in its suspensions. The tires must still have full contact with the ground. During loading of the truck the outrigger legs must be raised from time to time, to ensure that the truck carries the weight of the load. The outrigger legs are not designed to support this excessive load.
The best possible loader operation will be achieved when the vehicle is positioned as close to horizontal as possible. Therefore, the vehicle should be levelled to horizontal position by means of the outrigger legs before the loader is operated.

If the ground is not firm enough to take up the pressure of the outrigger legs, a steel plate, or the like must be placed under the foot plates.

### 4.2 Unfolding the Loader

1. Extend the outrigger arms completely. This also goes for the separate traverse (if any).

2. Lower the outrigger legs according to **4.1c Outrigger Functions** (on page 9) above. This also goes for the separate traverse (if any).

   **NOTE**

   The outer boom must be raised (the “outer boom down” movement of the lever), so that the outer boom is released from the bracket.

3. Raise the main boom and thereby release it from the bracket. Raise the inner boom somewhat above horizontal, so that the outer boom can be moved freely downwards.

4. Raise the outer boom until it is free of the base.
NOTE:

In case of loaders equipped with stop bracket on the outer boom, extend the outer boom extensions a little until the stop bracket is released.

4.3 Using the Loader

When the loader has been unfolded, work can start.

The lifting capacity of the loader is shown on the lifting capacity diagram on the loader and in the Loader Data. The capacity limits indicated must never be exceeded.

The loader is designed to lift loads vertically and therefore diagonal stresses should be avoided. Consequently it is not permitted to drag loads across the ground using the extension cylinders or the rotation system. These functions must only be activated once the load is free of the ground.

When mounting a grab, the total weight (grab, rotator and sand/contents) must not exceed the loader’s lifting capacity at maximum reach. The grab/clamshell bucket must be used for moving excavated soil only. Excavating is not permitted.

CAUTION

Damage caused by improper loader operation will not be covered by the IMT warranty.

If the load is extended so far that the loader’s lifting capacity is exceeded, the load moment increasing movements will be stopped. Please see the Instruction Manual on the RCL safety system.

The inner boom will slowly begin to sink in case of overloading. To stop this movement, the load should be brought closer towards the loader mast by means of the “extension retract”-movement.

WARNING

Never stand under the boom when the loader is working!

NOTE

Position the truck as closely to the load as possible, so that the load can be lifted on the shortest possible boom.

The rotation system should be operated with care, especially when the inner boom is at an acute angle with the outer boom.

The outriggers must not be activated when the loader is working.

Never drive off with a suspended load.
4.4 After Operation

The loader is folded up by reversing the procedure described in 4.2, Unfolding the Loader (see "4.2 Unfolding the Loader" on page 10).

If the boom is parked on the truck platform it must be properly secured to prevent the boom from swinging out during transport. Also the operator must check that the total height does not exceed 13'-1" (4000 mm).

**CAUTION:**

It is very important to check that both the outrigger lock and safety lock are in place and properly secured, otherwise the outrigger arm might extend by itself during transport.

If the loader is equipped with swing-up outrigger legs they must also be secured in position before driving off. Before the vehicle is started, disengage the PTO and turn off the pump.
5. Maintenance

Careful maintenance of the loader is the best way to ensure reliable loader operation at all times.

At daily or weekly intervals, depending on frequency of loader application, complete the following maintenance steps:

1. Check the oil level in tank. The oil must be visible in the oil level glass of the tank when the loader is folded. If the loader is equipped with a planetary gear, check the oil level in it.

2. Make sure that any defects, damage or leaks are repaired at an authorized IMT service point as soon as they are discovered.

3. Check that loader is safely mounted to the truck.

4. Slide blocks and bushings reduce friction and therefore they are naturally subject to wear and tear. Replace slide blocks if too much free play is found in the boom system. Replace bushings before the metal components physically touch each other.

5. Check all hoses for defects and kinks.

6. Check that hooks, wire ropes, straps and the like are in good working order.

7. Check all lock pins and bolts for wear and tear.

Service overhauls should be undertaken in accordance with the Service Booklet. In case of any warranty claims at a later date, great importance will be attached to observance of these service overhauls.
5.1 Lubrication Chart

<table>
<thead>
<tr>
<th>Lubrication Point</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mast / planetary gear</td>
<td>After 50 hours of operation / 1 month (whichever occurs first)</td>
</tr>
<tr>
<td>Pinion ball bearings</td>
<td>After 50 hours of operation / 1 month (whichever occurs first)</td>
</tr>
<tr>
<td>Base bearings</td>
<td>After 20 hours of operation / 1 week (whichever occurs first)</td>
</tr>
<tr>
<td>Extension system / slide blocks</td>
<td>After 50 hours of operation / 1 month (whichever occurs first)</td>
</tr>
<tr>
<td>Guide rail on extension cylinders</td>
<td>After 50 hours of operation / 1 month (whichever occurs first)</td>
</tr>
<tr>
<td>Pins / bolts</td>
<td>After 50 hours of operation / 1 month (whichever occurs first)</td>
</tr>
<tr>
<td>Outrigger arms</td>
<td>As required</td>
</tr>
<tr>
<td>Control valves and rod connections</td>
<td>Oil spray as required</td>
</tr>
</tbody>
</table>

5.2 Lubrication Diagram

![Lubrication Diagram](image-url)
Example of a lubrication chart. For specific loader model, please see lubrication label on loader/Fly-Jib.

The rotation system should be activated and the loader swung from stop to stop several times within the whole rotation area at the same time as the bearings in the base are lubricated.

Requirements for hydraulic oil and lubrication grease are stated in the Service Booklet.

The telescopic extensions and the planetary gear are lubricated with a special grease, see the Service Booklet.

**CAUTION**

If the loader is not folded after use, make sure that all cylinders are completely retracted at least once a day. The protective oil coat on the piston rods is thus maintained, preventing corrosion from occurring on the chromium surface.
6. Optional Extras

Various extras are available with the loader:

- Fly-Jib
- Manual extensions
- Winch
- Pallet fork
- Grab / Rotator
- Remote control

Some loaders have optional extras such as manual extensions, winch, and Fly-Jib on a standard basis.

If these extras are standard, you should find technical data and pressure setting diagrams as well as lifting capacity diagrams for the Fly-Jib in this manual.

You should always consult an authorized IMT dealer/service point before mounting any kind of optional extra. This also applies to equipment already in your possession.

Please note: All optional extras on the loader must be protected by the safety system.

See the Instruction Manual – RCL Safety System.

CAUTION

Welding or drilling into the structural components of the loader will automatically invalidate any liability on the part of IMT.
6.1 Manual Extensions

When working with manual extensions, please note:

**CAUTION**

Never exceed the indicated load limits for manual extensions.

Use great caution when activating the rotation system during work with manual extensions.

If the loader has manual extensions or other extras, reduce the lifting capacity of the loader by the weight of the extras.

Always check that lock bolts are fitted correctly with a pin.

If the loader is fitted with several extensions and a certain lifting job requires the use of one extension only, use the extension with the largest box profile.

Only pull out the manual extensions when the outer boom is as close to horizontal as possible.

If the outer boom is pointing downwards when the lock bolt is removed, the extensions will drop out at uncontrollable speed. This may ruin the stop at the risk of resulting in personal injury.

The load must not be extended from the stop, i.e., the extension lock pins must always remain in place.

6.2 Winch - General

Refer to the parts manual for winch information. The winch is protected by the safety system. Refer to the RCL Safety System Instruction Manual.
6.3 Fly-Jib - General

The Fly-Jib is protected against overloading by the RCL Safety System in the entire lifting area. See the Instruction Manual – RCL Safety System.

CAUTION

The load limits indicated on the lifting capacity diagram of the manual extensions must never be exceeded.

When the Fly-Jib is dismounted, all quick-release couplings must be equipped with dust caps in order to avoid penetration of dirt in the hydraulic system.

Also carefully fit the dummy plug in the socket on the loader, otherwise the safety system will indicate an error. Avoid damaging the plug when mounting and dismounting. Keep the dummy plug in the driver's cab when not in use.

When the Fly-Jib is mounted, always check that the lock bolt is fitted correctly with a pin.

Always operate the loader in a calm and considerate way when working with a Fly-Jib. Special care should be taken when operating the rotation movement.
7. Lifting Capacity and Lifting Capacity Diagrams

7.1 Lifting Capacity Labels on the Loader

From the factory, the loader is equipped with lifting capacity labels for the loader as well as for the optional extras, if any (manual extensions, Fly-Jib). Like all labels on the loader, these labels must be intact and legible.

If a label has been damaged or removed, you can get a new one from IMT. Use the part number at the bottom of the label, if any, or see the spare parts catalog.
8. Technical Data

The Loader Data contain tables with technical data on loader and Fly-Jib respectively, if a Fly-Jib is available as standard.

8.1 Loading Groups

Different loader applications imply different types of stress to the loader construction, and consequently the loaders are divided into loading groups according to application.

In the standard application, the loader belongs to a certain loading group indicated by the last digit of the loader type denomination. (i.e.: 2823-K2 means a 2820-K2 loader classified in loading group B3).

If the loader is stationary or the working speed increased, for instance by means of a dual circuit hydraulic system (2 pumps), the load moment of the loader is reduced.
9. Working Pressure & Pump Performance

The working pressure must only be set with a calibrated pressure gauge by an authorized IMT service point.

The working pressure is checked during the annual service overhaul and in case of any major repairs.

The procedure for checking and setting of load-holding valves is described in the Service Information binder. All adjustable valves will be re-sealed after pressure setting adjustment.

CAUTION

Please note that any warranty obligations on the part of IMT will be invalidated if the conditions stated in this manual are not complied with.
10. Description of the Hydraulic System

The valve block of the loader is of the "stack" type, i.e., it is made up of a number of separate control valves. This ensures great flexibility and low maintenance costs.

A main relief valve is fitted in the inlet section of the valve block to ensure that the oil pressure in the pump line does not exceed the permissible limit. This valve is adjustable and must always remain sealed.

Port relief valves are mounted at the ports of the individual control valves in order to limit the pressure in the individual circuits. Normally the port relief valves will be pre-set and unadjustable.

The inner boom, outer boom and extension cylinders are mounted with load holding valves with the following functions:

1. Protection of cylinders against excessive pressure
2. Reducing the lowering speed of the boom
3. Maintaining the boom in position during operations where a fixed boom position is required.
4. Locking the boom and maintaining the load in position in case of hose or pipe rupture.

The outrigger cylinders are equipped with a piloted check valve, which locks the cylinder in case of damage to the hydraulic system.

CAUTION

The main relief valve, the load holding valves, the dump valve and the external relief valve are sealed. If these seals are broken or removed, the IMT warranty will automatically be invalidated. Therefore, it is in your own interest to have the seals checked from time to time and to make sure that they are replaced by an authorized IMT service point, should they be damaged.

Any modification or alteration to the hydraulic system must be in accordance to specific agreement with IMT and such alterations should always take place at an authorized IMT service point.
11. Load Moment Limitation

The loader is equipped with a load moment limitation system (LMB). This system ensures that the permissible load moment is never exceeded, irrespective of the operator’s doings.

However, it is important to keep in mind that the LMB-system does not necessarily ensure sufficient vehicle stability. Before starting to work with the loader, the operator must always make sure that the vehicle is stable in the entire rotation area of the loader.

However, if the loader is equipped with an EVS-system (Electronic Vehicle Stability), the stability of the vehicle is ensured in the entire working area, because the system is constantly checking the vehicle, and immediately stopping the load moment increasing movement in case of instability, irrespective of the operator’s doings.

The LMB-system is described in the Instruction Manual - RCL Safety System. The operator must be familiar with this manual.

12. Heavy Duty Lifting - HDL

If the loader is equipped with a Heavy Duty Lifting (HDL) system, an increased lifting capacity is obtained, although at reduced speed.

When the loader reaches its normal lifting capacity limit, the HDL-system will automatically couple in, irrespective of the operator’s doings, and the oil flow to the control valve will be reduced to approx. 20% of the normal oil flow. At the same time the loader lifting capacity is increased by approx. 10% in the entire working area of the loader.

When the HDL-system couples in, the operator will be able to continue extending the load without interruption, although at reduced speed.

If the load moment is reduced to the permitted load limits again, the HDL-system will increase the oil flow to normal and the working speed will increase again.

However, the automatic disconnection implies that all control levers have been into neutral position at the same time as the load moment has been reduced to the permitted load limit.

See the section titled "Heavy Duty Lifting, HDL" in the RCL Safety System Instruction Manual.
13. Hoses and Hydraulic Pipes

The hoses must comply with the DIN 20 022 2SN standards.

The pipes are manufactured in St.35.4C-NBK.

14. Bleeding of Air

If for some reason air has entered into the hydraulic system, the loader is bled as follows:

1. Raise and lower each outrigger leg twice.
2. Extend and retract the inner boom cylinder twice.
3. Extend and retract the outer boom cylinder twice with the inner boom pointing downwards and twice with the inner boom pointing upwards.
4. Extend and retract the extension cylinder twice with the outer boom cylinder pointing almost vertically upwards and twice with the outer boom cylinder pointing almost vertically downwards.
15. Repair

If you discover defects, damage or leaks they should be repaired as soon as possible. Always take your repairs to an authorized IMT service point. Repairs to the hydraulic system must only be made by an authorized service point.

When you order spare parts for your loader, please state:

- Loader type
- Loader serial number

This information can be found in this instruction manual or stamped into the metal plate on the back side of the loader mast.
## Technical Specifications

### Technical Data, 2.5/18

#### PERFORMANCE

<table>
<thead>
<tr>
<th></th>
<th>K2</th>
<th>K3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load moment</td>
<td>18,100 ft-lb (2.5 tm)</td>
<td>18,100 ft-lb (2.5 tm)</td>
</tr>
<tr>
<td>Hydraulic reach</td>
<td>18'-6&quot; (5.64 m)</td>
<td>22'-11&quot; (6.99 m)</td>
</tr>
<tr>
<td>Hydraulic telescopic movement</td>
<td>0.10&quot; (2.5 mm)</td>
<td>0.15&quot; (3.8 mm)</td>
</tr>
<tr>
<td>Out-reach with manual extensions</td>
<td>26'-11&quot; (8.2 m)</td>
<td></td>
</tr>
<tr>
<td>Lifting capacity, hydraulic</td>
<td>1741 lb @ 10'-2&quot; (790 kg @ 3.1 m)</td>
<td>1710 lb @ 10'-6&quot; (775 kg @ 3.2 m)</td>
</tr>
<tr>
<td></td>
<td>1212 lb @ 14'-1&quot; (550 kg @ 4.3 m)</td>
<td>1190 lb @ 14'-5&quot; (540 kg @ 4.4 m)</td>
</tr>
<tr>
<td></td>
<td>904 lb @ 18'-5&quot; (410 kg @ 5.6 m)</td>
<td>893 lb @ 18'-8&quot; (405 kg @ 5.7 m)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>716 lb @ 23' (325 kg @ 7.0 m)</td>
</tr>
<tr>
<td>Lifting capacity, manual extensions</td>
<td>N/A</td>
<td>606 lb @ 26'-11&quot; (275 kg @ 8.2 m)</td>
</tr>
<tr>
<td>Rotation torque</td>
<td>2,820 ft-lb (390 kg-m)</td>
<td>2820 ft-lb (390 kg-m)</td>
</tr>
<tr>
<td>Rotation angle</td>
<td>370°</td>
<td>370°</td>
</tr>
<tr>
<td>Max. heel at max. load moment</td>
<td>4°</td>
<td>4°</td>
</tr>
</tbody>
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#### DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>K2</th>
<th>K3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height above chassis, folded</td>
<td>5'-0&quot; (1527 mm)</td>
<td>5'-0&quot; (1527 mm)</td>
</tr>
<tr>
<td>Width, folded</td>
<td>5'-7&quot; (1700 mm)</td>
<td>5'-7&quot; (1700 mm)</td>
</tr>
<tr>
<td>Length, without extra valves</td>
<td>1'-9&quot; (538 mm)</td>
<td>1'-10&quot; (564 mm)</td>
</tr>
<tr>
<td>Stabilizer spread, standard</td>
<td>9'-10&quot; (3000 mm)</td>
<td>9'-10&quot; (3000 mm)</td>
</tr>
</tbody>
</table>

#### WORKING SPEEDS

<table>
<thead>
<tr>
<th></th>
<th>K2</th>
<th>K3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slewing speed</td>
<td>20° degrees/second</td>
<td>20° degrees/second</td>
</tr>
<tr>
<td>Lifting speed at max. reach</td>
<td>2'-7&quot;/Second (0.8 m/second)</td>
<td>2'-7&quot;/Second (0.8 m/second)</td>
</tr>
</tbody>
</table>

#### WEIGHTS

<table>
<thead>
<tr>
<th></th>
<th>K2</th>
<th>K3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard loader, excl. stabilizers</td>
<td>851 lb (386 kg)</td>
<td>928 lb (421 kg)</td>
</tr>
<tr>
<td>Stabilizers</td>
<td>130 lb (59 kg)</td>
<td>130 lb (59 kg)</td>
</tr>
<tr>
<td>Mounting bolts</td>
<td>44 lb (20 kg)</td>
<td>44 lb (20 kg)</td>
</tr>
<tr>
<td>Oil in base and cylinders</td>
<td>33 lb (15 kg)</td>
<td>35 lb (16 kg)</td>
</tr>
<tr>
<td>Standard tank with oil</td>
<td>46 lb (21 kg)</td>
<td>46 lb (21 kg)</td>
</tr>
</tbody>
</table>

#### POWER CONSUMPTION / OIL CAPACITY

<table>
<thead>
<tr>
<th></th>
<th>K2</th>
<th>K3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working pressure</td>
<td>2755 psi (19 Mpa)</td>
<td>2755 psi (19 Mpa)</td>
</tr>
<tr>
<td>Pump Performance</td>
<td>3.1 gallons/min (12 l/min)</td>
<td>2.6 gallons/min (10 l/min)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>5.4 hp (4 KW)</td>
<td>4.7 hp (3.5 KW)</td>
</tr>
<tr>
<td>Oil capacity in base</td>
<td>2 gallons (7.5 l)</td>
<td>2 gallons (7.5 l)</td>
</tr>
<tr>
<td>Oil tank capacity (separate tank)</td>
<td>4 gallons (15 l)</td>
<td>4 gallons (15 l)</td>
</tr>
</tbody>
</table>
Working loads will be limited to those shown. Deduct the weight of load handling devices.

Before lift is made, stability must be checked per SAE J765A.
Working loads will be limited to those shown. Deduct the weight of load handling devices.

Before lift is made, stability must be checked per SAE J765A.
Lifting Capacity

K2

*1710 lb
10'-2"

*1190 lb
14'-1"

*893 lb
18'-8"

716 lb
22'-7"

K3

*1710 lb
10'-2"

*1190 lb
14'-1"

*893 lb
18'-8"

*716 lb
22'-7"

*606 lb
26'-11"

▼ Manual Extension

△ * Without manual extensions. The lifting capacity limits indicated must never be exceeded.
2.5/18 Dimensions

K2: 19.4" / MAX. 18'-6"
K3: 20.3" / MAX. 22'-11"
2.5/18 Lifting Height at Column

<table>
<thead>
<tr>
<th></th>
<th>Hs</th>
<th>H1</th>
</tr>
</thead>
<tbody>
<tr>
<td>S 2.5/18 K2</td>
<td>4'-9&quot; (1.45 m)</td>
<td>6'-10&quot; (2.08 m)</td>
</tr>
<tr>
<td>S 2.5/18 K3</td>
<td>4'-9&quot; (1.45 m)</td>
<td>6'-7&quot; (2.01 m)</td>
</tr>
</tbody>
</table>
### 2.5/18 Center of Gravity

![Diagram of 2.5/18 Center of Gravity]

<table>
<thead>
<tr>
<th>Model</th>
<th>V1</th>
<th>V2</th>
<th>V3</th>
<th>H1</th>
<th>H2</th>
<th>H3</th>
<th>H4</th>
<th>Z3</th>
<th>f</th>
<th>G1</th>
<th>G2</th>
<th>G3</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5/18 K2</td>
<td>3.75&quot; (95 mm)</td>
<td>4'-4&quot; (1330 mm)</td>
<td>18.3&quot; (465 mm)</td>
<td>6.3&quot; (160 mm)</td>
<td>5'-2&quot; (1575 mm)</td>
<td>10&quot; (245 mm)</td>
<td>3'-10&quot; (1175 mm)</td>
<td>8&quot; (20 mm)</td>
<td>11.8&quot; (300 mm)</td>
<td>7.12&quot; (181 mm)</td>
<td>10.4&quot; (264 mm)</td>
<td>17.5&quot; (445 mm)</td>
</tr>
<tr>
<td>2.5/18 K3</td>
<td>3.75&quot; (95 mm)</td>
<td>4'-5&quot; (1355 mm)</td>
<td>18.7&quot; (475 mm)</td>
<td>6.3&quot; (160 mm)</td>
<td>6'-4&quot; (1925 mm)</td>
<td>10&quot; (245 mm)</td>
<td>4&quot; (1215 mm)</td>
<td>1.2&quot; (30 mm)</td>
<td>11.8&quot; (300 mm)</td>
<td>7.12&quot; (181 mm)</td>
<td>11.8&quot; (299 mm)</td>
<td>18.9&quot; (480 mm)</td>
</tr>
</tbody>
</table>