



IMPORTANT! All personnel must read through this manual to be able to handle the equipment in a safe and efficient way.

ongratulations on your choice of MobiCrane as your company's lifting aid. Mobi-Crane is designed to handle piece goods up to a maximum weight of 85 kg with the help of a mechanical, pneumatic or vacuum tool. Maximun load depends on the model of the crane and the type of gripper. It's important that the weight of your tool/gripper is included in the maximum load. The MobiCrane is equipped with a standard gripper or a special gripping tool suited to your requirements. The gripper may be quickly replaced and there are several different models with suction, hook or mechanical gripping action. If your MobiCrane is fitted with an adapted gripper, instructions for this are included in Appendix A (Grippers).

MobiCrane is based on a modular system and can be installed in three different ways. It can be installed directly on a floor or a wall but If you need mobility MobiCrane can also be delivered with a self-stable base plate. This is ideal when your production needs to be flexible and MobiCrane can easily be transported with a forklift or pallet truck between your work stations.

Always keep this manual close to your MobiCrane to ensure a safe work environment.

Do you have any questions? - Please contact your distributor or the manufacturer.

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Table of content

	1
Installation of the crane	2
Inspection	9
Unpacking and assembly	10
Use	12
Care and maintenance	15
Technical data	20
Max-load	20
Own-weight	20
Service card for in-house inspection model PV	21
Service card for in-house inspection model M	22
Notes	23
Important parts	24
Wiring diagram	25
Recycling	29
EC declaration of conformity of the machinery	31
EC – Part 2, Modifications	32

Warning!



Before using the MobiCrane, it is essential that all personnel have carefully read and understood this manual.



MobiCrane is for indoor use only.



Be aware there is always a danger of the goods releasing from the gripper. Do not leave goods hanging without supervision.



Protective steel-toed shoes must always be worn when working with the MobiCrane.



Always consider your own and your co-workers' safety when using the lifting aid.



Lift goods only inside the MobiCrane's action radius. Otherwise a dangerous pendulum motion may occur.



Make sure to always lift in the geometric centrum of the load.



MobiCrane will stop any upward lifting action if the vacuum level is below safety limits. When this happens a red light will show on the display and the load shall be lowered immediately.



Pronomic vacuum tools has to be connected to compressed air with a pressure of no less than 600 kPa (6 bar) at the connection point on the MobiCrane. The connected compressed air must be free from oil, water and dirt.



Note what kind of surface the goods have where the suction cups are applied. A weak or thin surface may break or deform so much that the suction cups cannot grip sufficiently. If the suction cups are applied on a sticker or other glued-on surface the load may be released from the sticker and fall.



Do not remove the compressed air hose from the MobiCrane when it is being used. This action will cause loss of vacuum and the gripping function will stop.



Use caution when relocating the MobiCrane. Think about the mobility of the jib arm.



MobiCrane may not be used while being relocated or if it is not positioned on a level floor.



MobiCrane may not be used to lift people or live animals.



Ensure that no body part is underneath a hanging load. Ensure that nobody passes or stands underneath a hanging load.



The MobiCrane may not be used by anyone under the age of 18 or any person legally declared a minor. Use the key if necessary.



Be careful when lifting loads from a conveyor belt. Heavy loads in motion can cause instability to the crane if the load is not picked up in time.

Setup a safe working area

When MobiCrane is installed for the first time or moved to a different site its important to setup a safe working area. Most of all its important to protect the operator and other workers close to the crane. Examine your work area and remove objects that can cause hazards.

Inspect the ceiling and make sure no fixed objects will prevent the jib arm from moving or cause damage/harm to machine or operator.



- 1. Make sure MobiCrane reaches both pick-up spot (A) and drop-off spot (B) before fixed installation or use.
- 2. Make sure that no objects are blocking the way for the operator and look for objects that may cause tripping or falling.
- 3. Make sure there is at least 0,5 meters between a hanging load and fixed objects in your work area. This will prevent crushing injuries

Safety and limitations

MobiCrane III

MobiCrane is designed to aid in manual lifting of goods up to a maximum of 85 kg. Maximum load depends on model, weight class and your grippers own weight. Your gripper's weight shall be calculated and withdrawn from the maximum load. The lifting function is powered by a 24 V DC electrical motor with adjustable speed. MobiCrane is designed for use together with a pneumatic (compressed air) gripper, with built-in vacuum ejector and check valve or a pneumatic squeeze gripper, which grips and holds the goods. MobiCrane can also be used together with mechanical grippers. MobiCrane is fitted with a double-jointed pivot arm for easy lateral movement, which enables loading and unloading within the whole working area. On some models the height of the tower can be adapted to your workstation. MobiCrane requires a compressed air connection to be able to run a compressed air gripper. MobiCrane is designed for indoor use only.



MobiCrane model PV

Vacuum unit and gripper

The vacuum unit is connected to the line, control cable and air hose at the end of the MobiCrane jib arm. The vacuum unit is fitted with a built in venture ejector, providing a fast and safe vacuum when gripping and holding goods. Standard or custom made grippers with a range of different suction cups can be attached to the vacuum unit. A built in safety systems prevents the operator from unintentionally releasing goods. This system also prevent the operator from picking up goods if the vacuum level is too low.



Vacuum unit



Example of a gripper

Control handle

The gripper is connected to the line and control cable at the end of the MobiCrane pivot arm. The up- and down motion is controlled by a joystick. At the end there is a M10 thread which can be used to attach hooks etc. The joystick can be positioned in either right- or left-hand mode.

Installation of the crane

When installing the crane it is important to consider applicable standards and regulations for your region. It is also important to determine the nature and quality of the floor or foundation that will support the crane as well as ensuring that the correct type of crane has been selected for your application.

NOTE! To assess the options available when deciding how to mount the crane, consult the building's owner. It is important to plan the installation carefully in order to save time and avoid complications. Follow the recommendations in this manual closely. It is important to be meticulous and careful in order to ensure a safe and reliable crane.

Choosing how to install the crane

(The following installation options are for MobiCrane fixed mounting only). If your crane is intended to be mounted on a wall or existing column see below. The crane is intended to be mounted to a group of bolts cast into the floor or foundation. Under certain conditions the crane may be bolted to a concrete floor using chemical or stud anchor. When deciding if this is possible one must consider the length of the arms, the load to be lifted, the weight of the crane and the nature and quality of the concrete used in the floor as well as the thickness of the concrete.

NOTE! Consult the building's owner to determine if the floor and floor beams can sustain the torque Mx and the vertical force Q. The grouting is based on normal base conditions, consult the building's owner to determine what the conditions are at your site.



Mounting on a wall or existing column

MobiCrane can be mounted on a wall or existing column. When deciding if this is possible one must consider the length of the arms, the load to be lifted, the weight of the crane and the nature and quality of the wall or existing column.

NOTE! Consult the building's owner to determine if the wall or column can sustain the torque Mx and the vertical force Q.

Mounting with chemical or stud anchor

When the building's owner has approved the mounting method – contact a supplier of mounting bolts and make sure that:

-The concrete has adequate quality and thickness

-The bolt or anchor dimensions are suitable for use with the cranes mounting plate.

-The bolts in combination with the quality of the concrete can handle the forces caused by the crane with a suitable safety margin.

-That the accredited company/agency accept the mounting method.

Installation

- 1. Mark the position on the floor where the crane should be mounted to achieve a good and safe working area.
- 2. Use the foot plate as a template for the holes.
- 3. Drill thru the holes in the foot plate if this is suitable for the type of anchor used.
- 4. Make holes in the floor as specified by the supplier of the anchor.
- 5. Mount the bolts as specified by the supplier of the anchor.
- 6. Mount the column and use flat washers.
- 7. Do a first vertical alignment.
- 8. Do a final vertical alignment by placing spacers under the base plate. This will require the anchors to be loosened. Tighten the nuts again after the alignment is complete.
- 9. Mount the jib arm according to description.
- 10. If the jib arm after it has been mounted moves toward a certain point a final adjustment of the column can be done until it stand still.

Mounting with stud anchor (Hilti HAS M12 120mm)

When the building's owner and accredited company/agency have approved the mounting method - for (Hilti HSA M12 120mm) the following conditions must be met:

-The concrete must not be cracked.

-The concrete must be of quality C20/25 (K25) according to ENV 206 or better >20 N/mm2.

-The concrete must be at least 140mm thick.

-The drill holes must be a least 180mm from any edges or joints in the concrete.

-The stud anchor must be mounted according to the instructions below.









Drill a hole with drill 12mm.

Blow out dust and fragments.

Install anchor.

Apply tightening torque.



Mounting the crane with bolts cast in grouting

The grouting is based on normal base conditions, consult the building's owner to determine what the conditions are at your site. Concrete reinforcement with bolts suitable for this type of crane can be obtained from your supplier. The minimum dimension of the hole is specified casting the concrete foundation should be done by professionals. Concrete with minimum quality K250 should be used. Note the placement of the bolts above the foundation. Pouring the expanding concrete should be done right before mounting the crane. Do not use the crane for 25 days after pouring the foundation.

Mounting the crane with bolts cast in grouting

- 1. Expanding concrete
- 2. Concrete quality K250
- 3. Reinforcement
- 4. Bolt assembly

Tightening torque

- M12: 81 Nm
- M12: 128 Nm
- M12: 197 Nm

Recommended with oiled 8.8bolts.





Data for articulated jib crane with maximum forces.

Base plate		Base plate Bolt assembly Concrete found		foundation	Foi	rces				
D	F	G	н	а	с		b	I	M _x (Nm)	Q(N)
356	120	12	398	810	110	M12	1200	810	7000	3600

Mounting the column to the foundation

- 1. Make sure the adjustment bolts on the threaded bar are places 50mm above the foundation/floor and that there is no concrete on the threads.
- 2. Place the column (without the arms) on the floor with the foot plate facing the bolts.
- 3. Lift the column and place it over the threads, make sure it is facing the right way.
- 4. Do a first vertical alignment fig.1 fig.4. Check that the fulcrum is vertical using an accurate water level in combination with parallel rule.
- 5. A final vertical adjustment of the fulcrum can be done using the nuts on either side of the foot plate. When the fulcrum is perfectly vertical, tighten all the bolts, but make sure the adjustment is not lost.
- 6. Let the concrete set for about 25 days after the foundation has been casted.
- 7. Mount the jib arm according to description.
- 8. If the jib arm moves to a certain point when it have been mounted an adjustment according to Fig.4 can be made until it stand still.



B: Water level



Mount the jib arm

- 1. The bearings are assembled to the inner arm at delivery. Please confirm that the set screws are pointing outwards on the lower bearing and inwards on the upper bearing (see next page).
- 2. Remove the screws and nuts from the tower and lower bearing. Place one of the steel plates on top of the lower bearing holder



- A: Set screwsB: Steel plate
- 3. Make sure the arm is secured in a folded position then raise it to appropriate height using a forklift. Slide the bearings between the bearing holders (C).



- 4. Loosen the set screws on the upper bearing (A). Place the M14 screws and washers in the upper bearing holder and secure the bearing using the lock nuts. Tighten these nuts to 80Nm.
- 5. Place the bolts through the lower bearing and holder. Add the last steel plate (B) underneath the bearing holder and mount the nuts. Do not tighten the nuts at this point.
- 6. Make sure the arm is unfolded and pointing straight out. Remove the support/forklift. Secure the arm in this position and adjust the lower bearing using the adjustment bolts (D).
- 7. Tighten the lower bolts and nuts. Do this in a diagonal arrangement to preserve the adjustment of the arm.
- 8. Tighten the set screws in the upper bearing (A).



Inspection

Inspection is to be carried out in accordance with EU machine directive and local regulations (harmonizing standard). Pre use inspection by an accredited company/agency is not mandatory when the product is CE-certified. The responsibility for the crane being safe rests on the manufacturer and the person/company that carried out the installation. For impartial assessment, it is recommended that a pre use inspection is carried out by an accredited company. In some cases a yearly inspection should be carried out by an accredited company/ agency.

Unpacking and assembly

(Valid for MobiCrane with base plate) Ensure that the MobiCrane is lowered direct onto a flat floor and that no loose objects are under the base plate. Unpack and remove any transport packaging with caution. If the MobiCrane is not placed on a flat surface, the lifting arm may be set in motion when not loaded. If the MobiCrane is placed unstably or on loose objects, there is a risk of crushing or unstable lifting.

Vertical adjustment of the upper tower and lifting arm

(Only models with adjustable height) For optimal function of MobiCrane, the upper tower and lifting arm must be raised as high as possible with regard to the ceiling and any obstacles under the ceiling. The upper tower can be vertically adjusted up and down in increments of 100 mm to obtain the desired lifting height. Upon delivery, the tower is secured for transport at its lowest position. Use a lifting aid, e.g. a forklift, if available. If there is no lifting aid, at least two persons (three recommended) are required, one person to lift and lower the tower and another person to secure with the tower bolt at each increment.

Adjust the tower

- 1. Completely loosen the tower stabilizing bolts (handles).
- 2. Secure the arm and loosen the cable and air hose.
- 3. Loosen the wing nut on the security bolt running through the tower and remove the security bolt when lifting/ lowering.
- 4. Raise or lower to the desired height and match a hole in the outer and inner tower. When the red marking on the inner tower begins to appear, the tower may not be raised higher



Lower tower

- 5. Insert the security bolt and firmly screw in the wing nut.
- 6. Tighten the stabilizing bolts (handles) in the tower.
- 7. Air hose and cable can be adjusted so that they are tight and secure.



Note! When the red marking on the upper tower begins to appear, the tower may not be raised higher.

Compressed air on model PV

Connect compressed air, 600kPa (6,0 bar) to the compressed air connection point on the MobiCrane. The compressed air must be free from oil, water and dirt. Ensure that the external compressed air hose causes no risk of persons snagging, tripping or falling.

Connecting a Vacuum unit:

- 1. Attach the shackle on the line to the loop on the top of the gripper. Firmly close the shackle.
- 2. Connect the air hose to the quick coupling on the gripper.
- 3. Connect the electrical cable to the contact on the gripper.

Connecting a maneuvering handle:

- 1. Attach the shackle on the line to the loop on the top of the gripper. Firmly close the shackle.
- 2. Connect the electrical cable to the contact on the gripper.

Start-up 24 volt current:

Turn the main switch key clockwise.

Checking the vacuum function on the vacuum unit:

- 1. Put the suction cups against a flat, smooth and dry metal or plastic surface.
- 2. Press the green button to start the vacuum ejector. The gripper then sucks on to the surface.
- 3. Check the pressure gauge on the gripper. It should show at least 450 kPa (4,5 bar) when the gripper is activated.
- 4. If the pressure gauge does not show enough pressure then the air supply must be checked and adjusted if needed.

Check the vacuum unit safety system

Place the suction cups on the intended load, the display will show 0 (Kpa) in red when the vacuum is turned off. Start the vacuum function. The display on the vacuum unit will turn green if enough vacuum is created to proceed lifting. This value is set for the intended load or the most critical load handled in order to ensure safe use. If the digits goes red the vacuum levels are to low and the unit will not perform the lift. To simulate a low-vacuum situation start the vacuum function while the unit is hanging free without a load. When this happens, the vacuum unit will produce as much vacuum as possible but prevent further lifting. Lower the tool on a surface and the vacuum function may now be turned off. The safety system prevents the vacuum function to be turned off until the load is lowered and the rope is slack. Ask your dealer or PRONOMIC if you have questions about vacuum-levels. The display can be locked to prevent miss use. An extended manual for the vacuum display is available on request.



Use

When the MobiCrane is assembled according to the directions noted above and a tool is attached and checked, it is ready for use.

Lifting/lowering load

1. Feed out line by pressing the lift control button until the gripper reaches down to the goods. Do not feed more line than needed. The slack-line protection will stop the down movement when the tool is completely lowered on to the surface.

2. Place the gripper on the top of the goods (above the center of gravity). Ensure that the suction cups are in contact with the surface of the goods. Start the vacuum function by pressing the green vacuum control button on the gripper.



Note! the kind of surface to which the suction cups are applied. A weak or thin surface may break or deform, resulting in a loss of sufficient suction to hold the load.



Note! If the figures on the vacuum display becomes red, the vacuum level is under the security level. Lower the load immediately if this happens during use.



Note! The suction cups slip more easily if the surface is wet.



Note! Ensure that the lifting line does not touch any sharp or jagged edge but runs freely between the lifting arm and the gripper.

- 3. The display will show the actual vacuum created. If the vacuum level is sufficient the digits turns green and the load is ready to be lifted.
- 4. Lift the goods by pressing the lift control joystick upwards



Note! Lifting outside the MobiCrane action radius is not allowed, this may cause a dangerous pendulum motion.

- 5. Move the goods to the site where they are to be placed in as low position as possible in order to minimize the risk for damaging people or gods. Lower the goods by pressing down the lift control button on the gripper. When the load is completely lowered the slack-line switch will prevent any further feeding of line.
- 6. Release the gripper from the goods by turning off the vacuum function with the red vacuum control button on the gripper. The safety system only allows vacuum to be turned off when the goods is completely lowered.

7. If the gripper does not let go of the goods there might be vacuum left between the check valve and the suction cups. If this happens, press and hold the red vacuum control button ones more in order to blow compressed air into the suction cups. This action will also lift the tool in order to create som space between suction cups and goods. The amount of compressed air reaching the tool can be set by turning the potentiometer clockwise. This controls the duration of which the valve is open.



Relocating your MobiCrane

MobiCrane installed on a base plate is easy to relocate between different workstations by using a pallet truck or forklift. If a forklift is used, insert the forks centered in the holes of the base plate and lift slowly. When using a pallet truck, insert the forks in the same location, but ensure that the wheels in the front of the pallet truck are inserted in the recess beneath the lifting holes. Some models of pallet truck are designed without a lift wheel at the front of the fork, and cannot be used to lift the MobiCrane.



Note! Secure the arm in the folded position before the relocation to prevent the lifting arm to swing uncontrollably.



Care and maintenance

After use

During long stops, the main switch key should be turned off. The MobiCrane uses power even in stand-by mode. If the crane is powered by batteries, remember to charge them every night.



Note! Charging shall take place at least once per month, even when the machine is not used!

Daily inspection on model PV (Pneumatic and Vacuum)

The MobiCrane is designed for easy maintenance. However, the following inspections shall be carried out by the operator on a daily basis to maintain the functionality and safety of the MobiCrane.

Check that the vacuum unit's functions work properly:

- 1. Put the gripper suction cups against the intended load.
- 2. Start the vacuum function. Make sure the gripper is positioned correctly on the load.
- 3. Check the pressure gauge on the gripper. It must show a pressure of at least 450 kPa (4,5 bar) when the ejector is activated.
- 4. The vacuum display should now show green light and the load can be lifted.
- 5. Ensure that the suction cups and connections are clean and undamaged. Defective or worn parts must be exchanged and dirty suction cups must be cleaned.
- 6. To achieve proper functioning of the vacuum gripper, a compressed air filter is essential to separate dirt and water. Ensure that it is in working order. Clean when necessary.
- 7. Check that the shackle bolt is firmly attached.
- 8. Keep the machine clean.



Note! The MobiCrane must not be flushed with water!

Daily inspection on model M (Maneuvering handle)

- 1. Check that the shackle bolt is firmly attached.
- 2. Keep the machine clean.

Inspection very second month

The following checks shall be carried out by your service personnel and documented with date and signature every second month or if something has happened to the MobiCrane that cannot be deemed normal use, for example a collision.

On both model PV and model M

Check that:

- 1. Cables and their couplings are undamaged and correctly routed.
- 2. All rope wheels are undamaged and roll smoothly.
- 3. The rope is not worn or damaged.
- 4. The security bolt on the tower is not damaged or loosening.
- 5. If damaged or worn parts are detected they must be replaced before continued use of the MobiCrane.

Only on model PV (Pneumatic and Vacuum)

Check that:

- 1. Suction cups and vacuum hoses are undamaged.
- 2. Air hoses are not damaged, pinched or folded. Check this from the attachment point at the tool all the way through the tower to the attachment point for incoming air.
- 3. The safety system on the vacuum unit is working properly. Follow the steps under "Check the vacuum unit safety system" on page 15.
- 4. The ejector is clean.

Inspection every 12th month

During this inspection, which is carried out by your service personnel, the bi-monthly control is extended to include the following items and is to be documented with date and signature in the service file.

- 1. Check the rope drum. The ends of the rope drum must be straight and undamaged.
- 2. Check the welds and that no cracking has occurred.
- 3. Check bolted joints and if necessary tighten bolts.
- 4. If there is damage through wear or faulty parts is detected, the parts must be replaced before continued use of the MobiCrane.

Replacing the 24V batteries on MobiCrane

- 1. Ensure that the main switch is off.
- 2. Remove the protective hood and put it aside.
- 3. Disconnect the 4-pol connector.
- 4. Loosen the straps that hold the batteries and remove them.
- 5. Loosen the plus and minus cable lugs from the batteries. One cable is for series connection between the batteries.
- 6. Remove the batteries.
- 7. Install the new batteries and cable lugs in reverse order. Use batteries as in the specification.
- 8. Install and tighten the traps.
- 9. Ensure that the cables lugs are correctly connected.

10. Mount the hood.

Cleaning the ejector on model PV

Even when using an air filter, it sometimes happens that particles of dirt find their way into the vacuum unit and reduce the effect of the vacuum pump. This problem is easily dealt with by cleaning the vacuum pump. To do this, follow these simple steps:

- 1. Turn off the main switch.
- 2. Unscrew the roof of the gripper housing and lift it vertically upwards.
- 3. Unscrew the socket head bolts on the vacuum ejector (2 pcs).
- 4. Lift the upper part of the ejector together with the hose nipple and pressure gauge.
- 5. With a damp cloth, wipe clean both parts of the vacuum ejector.
- 6. assemble the upper part of the vacuum pump and fasten the socket head bolts.
- 7. Assemble and fasten roof.
- 8. Now remount the vacuum unit on the MobiCrane. Test run the tool before use.

Troubleshooting - model PV (Pneumatic and Vacuum)

Fault	Possible cause	Action
Lifting function does not work	The surface of the goods is not smooth enough or too porous for the gripper to achieve sufficient vacuum level. The safety system prevents lifting.	Try moving the gripper to get a new grip. Ensure that no particles are trapped between the suction cups and the goods. Ensure that the lifting surface of the goods is not damaged. If the problem remains, contact your retailer.
	The electrical system has entered its power saving mode. This can happen after a certain idle period.	Switch off the main power with the red key on the control panel and then turn it on again.
	The connection to the elec- trical cable at the gripper is incorrectly installed or not firmly attached.	Ensure that the coupling is correctly installed.
	Fuse blown.	Replace fuse. If it blows again contact your retailer.
	Electrical cable damaged.	Replace cable or contact your retailer.
	Weak battery.	Charge the battery. Check the battery if it does not take a charge. Replace battery if needed.
Insufficient suction (Vacuum level low).	There is not enough pressure at the connection point with to the crane.	Ensure that the air pressure is at least 500 kPa (5 bar) at the vacuum unit when the vacuum function is activated. Inspect the air hoses to ensure that they are not damaged, pinched or folded.
	The ejector is dirty.	Clean the ejector and check vacuum- levels again.

Fault	Possible cause	Action
Insufficient suction (Vacuum level low).	Leakage from cups or hoses on gripper.	Clean the cups. Monitor the vacuum display while searching for leakage
Vacuum function does not start.	Connection to electrical cable at grip tool incor- rectly installed or not firmly attached.	Ensure that the attachment is correctly installed.
-	Control cable damaged.	Replace the cable or contact your retailer.
	Damaged controls or interface board.	Check components if possible or contact your retailer.

Troubleshooting - model M (Maneuvering handle)

Fault	Possible cause	Action
Lift function does not work.	The electrical system has entered its power saving mode.This can happen after a certain idle period.	Switch off and on the main power with the red main switch key on the control panel.
	The connection to the elec- trical cable at the gripper is incorrectly installed or not firmly attached.	Ensure that the coupling is correctly installed.
	Fuse blown.	Replace fuse. If it blows again contact your retailer.
	Electrical cable damaged.	Replace cable or contact your retailer.
	Weak battery.	Charge the battery. Check the battery if it does not take a charge. Replace battery if needed.

Technical data

Mobicrane III

Туре:	1500mm base plate
Weight:	See the table below
Lifting capacity (max)	See the table below
Lift height (max):	About 2 300 mm. Depending on gripper.
Lifting arm length:	2000mm - 4000mm
Sound level:	64 dB (A) / 62 dB (B)
Line:	Dyneemic -32, diam. 6.0 mm. Tensile strength 1 400 kg
Energy support:	2 series connected 12 V, 54 Ah, maintenance free batteries, alternatively 240/24V AC/DC converter.
Motor:	Dagu, power rating 400W

Max-load

Max-load for different setups are listed in the table below:

Max-load					
Arm-length	Base-plate 1500mm	Floor-mount	Wall-mount		
2000 mm	85kg	85kg	85kg		
2500mm	75kg	85kg	85kg		
3000 mm	65kg	85kg	85kg		
3500 mm	45kg	65kg	65kg		
4000 mm	30kg	50kg	50kg		

Own-weight

Own-weight for different setups are listed in the table below

	Own-weight by arm-length					
Туре	2000mm 2500mm 3000mm 3500mm 4000					
Base-plate 1500mm	540kg	545kg	550kg	555kg	560kg	
Floor-mount	160kg	165kg	170kg	175kg	180kg	
Wall-moun	60kg*	75kg*	80kg*	85kg*	90kg*	

*The own-weight of a wall-mounted MobiCrane does not include the power source.

Service card for in-house inspection model PV

Observe that in some countries, depending on national regulations, certain inspections have to be performed by an accredited body.

Copy this page and use it in your service file to keep a record of which inspections have been carried out and when. For further information on service points, see the manual.

In the first inspection after 2 months' operations, inspect all bolted joints.

Inspection every second month Action	OK Sian
Check that gripper suction cups and vacuum hoses are undamaged.	
Check that compressed air hoses are not damaged, pinched or folded. Check this from attachment point at gripper all the way through the tower to the at- tachment point for incoming air.	
Check that the control cables with couplings are undamaged and correctly routed.	— —
Check that the line block is undamaged and rolls smoothly.	—
Check that the lift line is not worn or damaged.	—
Check that the tower bolt is not damaged or loosening.	
Check the safety systems.	—
Clean the ejector.	—
Inspection every 12th month	
Action	OK Sign
Check the line drum for damage.	
Check welds for cracking or other damages.	
Check bolted joints.	—
Note! If damage through wear or faulty parts is detected, the parts replaced before continued use of the MobiCrane.	s must be

Service card for in-house inspection model M

Observe that in some countries, depending on national regulations, certain inspections have to be performed by an accredited body.

Copy this page and use it in your service file to keep a record of which inspections have been carried out and when. For further information on service points, see the manual.

In the first inspection after 2 months' operations, inspect all bolted joints.

inspection every second month	
Action	OK Sign
Check that gripper attachment and bolts are undamaged.	
Check that the control cables with couplings are undamaged and correctly routed.	
Check that the line block is undamaged and rolls smoothly.	—
Check that the lift line is not worn or damaged.	— —
Check that the tower bolt is not damaged or loosening.	

Inspection every 12th month

Inspection every second month

Action	ОК	Sign
Check the line drum for damage.		•••••
Check welds for cracking or other damages		•••••
Check bolted joints.		•••••



Note! If damage through wear or faulty parts is detected, the parts must be replaced before continued use of the MobiCrane.

Inspection supervisor

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Notes

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Important parts

To reduce the risk of a breakdown or a hazard that may cause harm to the operator, worn parts should immediately be replaced. See the list below for the most common parts.

Description	Part number
Rope 4,8m for 2,0 m-arm	64710
Rope 5,3m for 2,5 m-arm	64711
Rope 5,8m for 3,0 m-arm	64712
Rope 6,3m for 3,5 m-arm	64713
Rope 6,8m for 4,0 m-arm	64714
Rope 7,3m for 4,0 m-arm with Tower +500	64715

Note! When using Tower +500 add 0,5 meters to rope length. This does not include 4,0 m-arm with tower +500. Please see the list above.

Description Spiral hose with quick couplings	Part number 62801	
Description	Part number	
Battery/AC/DC to motor cable Battery/AC/DC to motor cable Tower +500	64920 64921	
Description	Part number	
Spiral cable	62910	

For additional spare parts contact your reseller.

Wiring diagram

- 1: Motor controller24V 55A, 1212-2201
- 2: Interface card, Motor package



Vacuum unit



Maneuvering handle



Recycling

At the end of MobiCrane's life-cycle, please make sure that electronics, batteries and cables are separated from the crane's steel structure. it is important that no batteries are fitted in the crane when it is recycled.



EC declaration of conformity of the machinery

R on I, Inc. 8001 Tower Point Drive Charlotte, NC 28227	
Model:	MobiCrane III
Serial number:	64020
Arm length:	
Base plate:	
Max-load:	
Tool:	
Tested by:	

Applied EC directives:

2006/42/EC	Machinery Directive
2004/108/EC	EMC Directive

Applied standards:

EN ISO 12100:2010	Safety of machinery, general principles for design, risk assessment and risk reduction.
EN 14238:2004+A1:2009	Cranes, Manually controlled load manipulating devices.
EN 349+A1:2008	Safety of machinery, Minimum gaps to avoid crushing of parts of the human body.

We hereby declare that the above-referenced machine, built and equipped with attachments from Pronomic AB, is in conformity with stated directives and standards.

Sollentuna, 2012-02-10

Kjell Jansson, Pronomic AB

EC – Part 2, Modifications

The crane has been modified and/or equipped with attachments as follows:

Max-load:

After modification a supplementary risk analysis has been performed and the machine is certified to be in conformity with the directives and standards above.

Place, date

Name Company