



Translation of the original operating instructions

MASTER 115B

701L62=115B

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Preface

Many thanks for choosing the Master 115B. We are confident that you can soon carry out your tasks in a safe, comfortable, healthy and ergonomically friendly environment. Should you have additional remarks or ideas to continue improving our products, we like to hear about them and kindly ask you to get in touch with us. We appreciate that the continuous contribution of it's users helps us to develop machines into reliable and esteemed products they are today.

Usage

The Master 115B is designed for the shoe repair industry. This machine is designed and produced by Ottobock Equipment

Maintenance

The Master 115B is produced with very high attention to details. At all times, they comply with the norms set for machine manufacturing. Especially in the area of safety and reliability, a lot of features have been added. Only the Ottobock Equipment Service team and Producers/Customer service departments that have been approved by Ottobock Equipment should carry out the maintenance. The guarantee expires immediately if the service has been carried out by unauthorized parties.

Warranty

The company gives a warranty of 12 month on the Master 115B, given that the machine is only used by professionally trained staff. Furthermore is it forbidden to use the Master 115B purpose-alienated. The warranty covers all accessories, where the faults are not due to normal usage.

The claim has to be made in writing to the producer straight after the fault has been discovered and the faulty part(s) enclosed therein. Providing the producer approves the claim, he will send the replacement parts as soon as possible and free of charge.

Finally, we like to wish you successful working with this advanced machine,

Otto Bock Equipment B.V.

1.1 Description of caution symbols and labels

The following symbols are used throughout this manual and are described below:

- 

Warning. If you do not follow the procedures prescribed in this manual it might result in irrevocable damage and/or severe injury.
- 

Hazardous voltage. If you do not follow the procedures prescribed in this manual it might result in irrevocable damage and/or severe injury or death.
- 

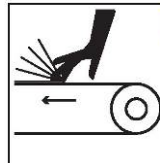
Hand abrasion. Rotating parts can cause severe injury. If you do not follow the procedures prescribed in this manual it might result in severe injury.
- 

Rotating cutter head. Rotating parts can cause severe injury. If you do not follow the procedures prescribed in this manual it might result in severe injury.

The following labels are used on the MASTER 115B and are described below:

- 

⚠ WARNING
Hot Surface.
Do not touch.
Allow surface to cool before servicing.
- 

⚠ WARNING
Rotating cutter head.
Rotating parts can cause severe injury. Disconnect power before servicing.
- 

⚠ WARNING
Hand abrasion
Rotating parts can cause severe injury. Lockout/tagout before servicing.
- 

⚠ DANGER
Hazardous voltage inside.
Disconnect power before opening. This unit is to be serviced by trained personnel only.
- 

⚠ WARNING
Read and understand operator's manual before using this machine.
Failure to follow operating instructions could result in death or serious injury.
- 

⚠ DANGER
Moving parts inside can crush and cut.
Follow lockout procedure before servicing.

1.2 Purpose and safety

This section gives instructions for safe and proper handling of the Master 115B.

There are no user-serviceable parts inside the Master 115B.

All service, maintenance and installation information in this manual is for use by trained personnel only.

Do not remove any parts unless you are specifically told to do so in this manual.

Place the machine on a solid and flat surface, this ensures the smooth running of the machine. The distance between the machine and the wall needs to be a few centimeters, this space is needed for maintenance and operation.

The emergency stop feature is positioned in such a way that it is reachable in any dangerous situation.

The Master 115B and the filtering devices are not suitable for working with damp or wet materials.

The Master 115B is an exclusively indoor machine and should stand in a dry environment only. It is not to be used outside.

Further processing of dust and residue (collected by the filters) must be done in a way that complies with the current health and safety legislation.



During maintenance, changing the scouring belt or tools, always switch off the Master 115B. Always switch off the main switch to be sure the machine is inactive.



Please consider the following while using this machine:

- **Always** wear personal safety equipment, such as safety goggles and gloves.
- **Always** leave enough distance to the rotating parts of the machine while operating.
- **Avoid** the danger of being wedged , due to loose clothes or hair etc.
- **Always** work at the right personal heights.
- **Always** guarantee a good illumination without shadows.

2. Technical data

Name: MASTER
 Typ: 115B
 Serial.nr.: see information on machine
 Year of manufacturing: see information on machine

Weight: machine: 352 kg
 Press: 135 kg
 dimensions : machine 75 x 115 x 165cm (lxwxh)
 press 65 x 45 x 190cm (lxwxh)

Installation data: operating temperature 5°C < till < 40°C
 Surface should be solid and flat.
 The surface should have the capacity to meet mentioned weights.

Motordata:
 Power (total): 2.65 kW

	<i>Motor polishing</i>	<i>motor extraction</i>	<i>motor scouring</i>	<i>motor naumkeag</i>
Power	0,55 kW	0,75kW	1,1kW	0.25kW
Rotation	1360rev/min	2800 rev/min	2860 rev/min	2800 rev/min
Power supply voltage	400V / 50Hz	400V / 50Hz	400V / 50Hz	400V / 50Hz
Current	2,8A	3,2A	4,5A	1,5A

Noise level 78 Db (A) Measuring distance 1 mtr, measuring height: 1.6 mtr

Surface treatment: The machine has been treated with a base coat and lacquer coat.

3. Installation



Attentively read this manual prior to the installation, connection, usage or maintenance of the Master 115B. Ensure that you gain sufficient knowledge about the Master 115B and that you are aware of all safety instructions.

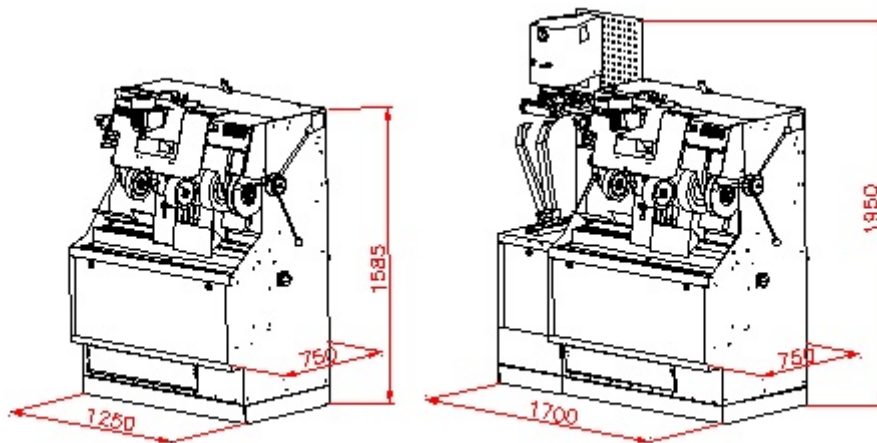
Place the machine on a solid and flat surface, this ensures the smooth running of the machine. The distance between the machine and the wall needs to be a few centimeters, this space is needed for maintenance and operation. The machine is fully operational upon delivery.



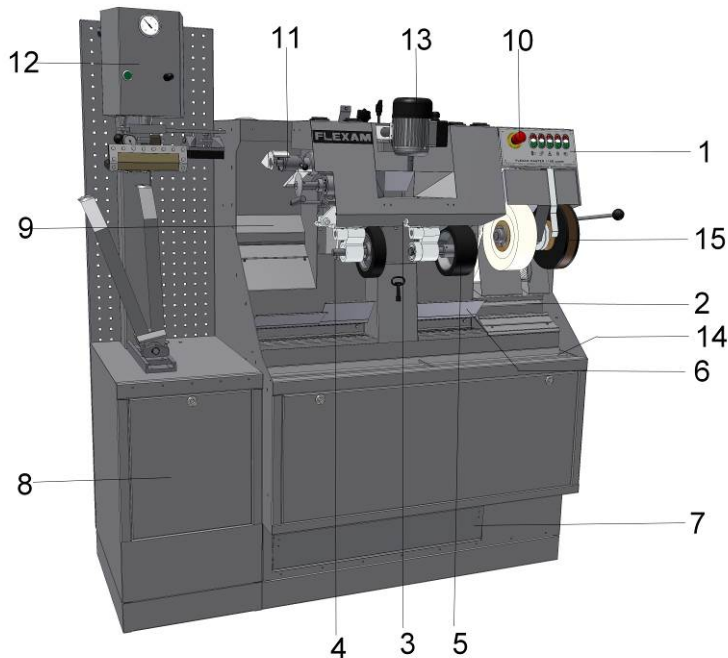
Prior to using the machine, connect it to the appropriate power connection. See the technical instructions on the machine for the appropriate connection and power consumption. Be sure to activate the emergency stop, the machine will be inactive. Service and installation may only be done by trained personnel.

Space needed for Master115B without press: 75 x 125 x 160cm

Space needed for Master115B with press : 75 x 170 x 195cm



4. name of parts



- 1: control panel
- 2: opening for extraction polishing unit
- 3: bold for tracking the scouring belt
- 4: bayonet
- 5: scouring belt
- 6: extraction for the scouring belt
- 7: door for dust container
- 8: door for compressor
- 9: extraction for cutter
- 10: emergency stop
- 11: cutter
- 12: press
- 13: naumkeag
- 14: front dust container
- 15: polishing unit

figure 1

5. Set up for operation



Be sure to activate the emergency stop. This prevents the machine from operating during installation. First connect the Master 115B to the appropriate power connection. See the technical instructions on the machine. Service and installation may only be done by trained personnel.

6 Using the MASTER 115B

6.1 Control panel

The function of the buttons on the control panel of the Master 115B (figure 2) will be described in this section:

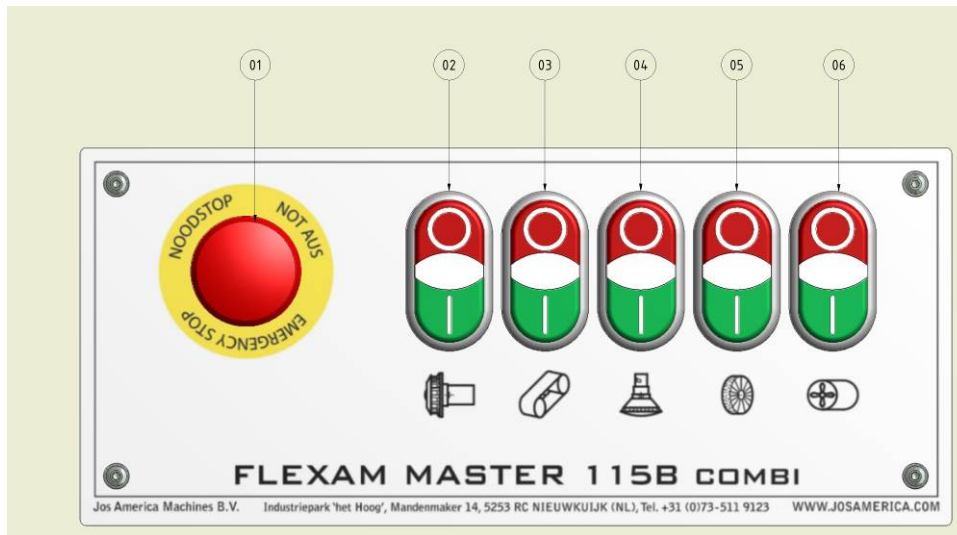


figure 2

Pos 1: emergency stop.

Press the switch. The machine will stop. pull the switch to start it again.).

Pos 2: I -switch for cutter start. O -switch for stop.

Pos 3: I -switch for scouring belts start. O -switch for stop.

Pos 4: I -switch for bims start. O -switch for stop.

Pos 5: I -switch for polishing brushes start. O -switch for stop.

Pos 6: I -switch for dust extraction start. O -switch for stop.



Always wear safety gloves. Never touch the scouring belt with your hands. The scouring belts can not be protected completely as it would obstruct using them properly. Therefore, always pay attention to the position of your hands during the usage of the scouring belts

Emergency stop procedure:

When the emergency stop has been activated, ALWAYS find out what causes the use of the emergency stop. Be sure all problems have been solved that causes the use of the emergency stop.

6.2 Changing tools with the bayonet



Left of the scouring belt (width 40mm) is a conical shaft. See figure 3. This is for connecting tools with a bayonet. For further information about these tools please contact our sales department. You can also visit our website: www.pe.ottobock.com

Figure 3



WARNING! Always deactivate the machine before changing tools. Always switch off the main switch to be sure the machine is inactive.

6.3 Changing scouring belts



WARNING! Always deactivate the machine before changing belts. Always switch off the main switch to be sure the machine is inactive.

Open the cover of the Flexam Master 115B and lock it as shown in figure 4. Tension of the scouring belts is done by springs. So before exchanging a scouring belt, you have to remove the force of the spring. You do this as follows:

Be sure the belts don't turn. Use the unlocking bar. The unlocking bar is placed as seen on figure 5.



Figure 4

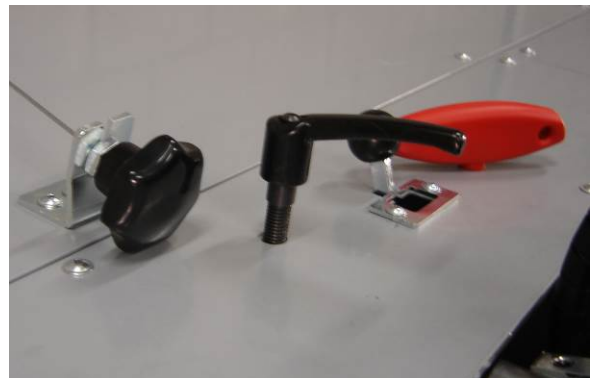


Figure 5

Use this bar in the locking mechanism and move it downwards until you can't move it further. See figure 5.



Figure 5

If the scouring belt is tensionless you can remove the belt.

The new scouring belt can be place. Be sure the direction of the rotation is correct. The direction is marked inside the scouring belt. Pull the bar down to put the tension back on the scouring belt.

6.4 Tracking the scouring belt

If the scouring belt is not right in the middle of the rollers, the rollers will wear out faster than usual. Also one side could wear out more than the other side. Working will become difficult.

It is important to be sure the scouring belts are in the middle of the rollers. Do this each time you start working with the Master 115B.

It is easy to track the scouring belt. Use the socket wrench with T-grip that comes with the machine. Place the socket wrench in the bold for tracking. Figure 7 shows these bolts, they are marked with an arrow. See also figures 1, pos 3. (page 8)

By turning the socket wrench you can adjust the tracking to the left or right.

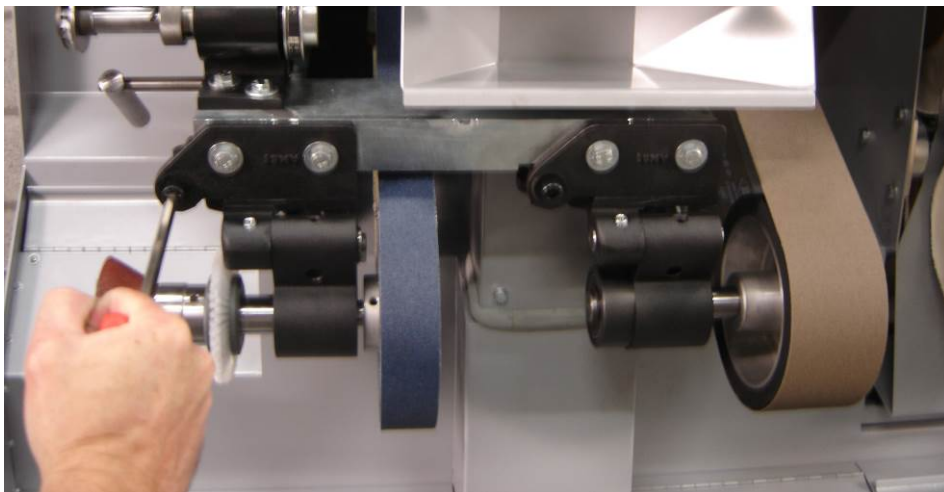


Figure 7

6.5 Tension on the scouring belt

You can't change the belt tension. The tension is done by springs and guarantee a sufficient tension. If the tension is not sufficient enough, please contact the Ottobock Equipment service department.

7. Cleaning and maintenance

7.1 Cleaning the scouring belt and rollers

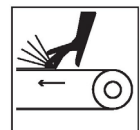
On the inside of the scouring belt there is a copper brush (figure 8), it cleans the inside of the scouring belt. This prevents the rollers from fast contamination, so the scouring belt will not vibrate.



figure 8

If the scouring belt happens to vibrate, you can clean the rubber rollers by wipe away residue that is on the rollers. You can easy do this by hand. **Never use chemicals for cleaning!** If the scouring belt keeps vibrating you might consider replacing the rollers.

WARNING! Always deactivate the machine before changing the brush. Always switch off the main switch to be sure the machine is inactive.



7.2 Cleaning the dust filter and the dust container



WARNING!! Be sure the extraction unit is switched off so no dust will flow into the filter when cleaning.

The Master 115B is equipped with a cotton filter. This filter needs to be cleaned every day. Cleaning is done by hand using the device you find on top of Master 115B. See figure 9.

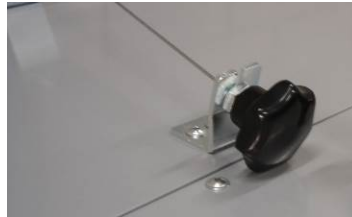


figure 9

Take the handgrip and move the attached cord forwards and backwards. By doing so, dust will fall of the filter into the dust container.

7.2.1 Cleaning the front dust container.

In front of the Master 115B is the front dust container. See figure1, pos 14. (page 8)
Cleaning is as follows:



figure 10



Remove the cover with the key. (figure 10). The dust container can now be removed. (figure 11)

7.2.2. Cleaning the dust collection container

Below the machine is the dust collection container. All dust that is extracted is collected here. Cleaning is as follows:



figure 12

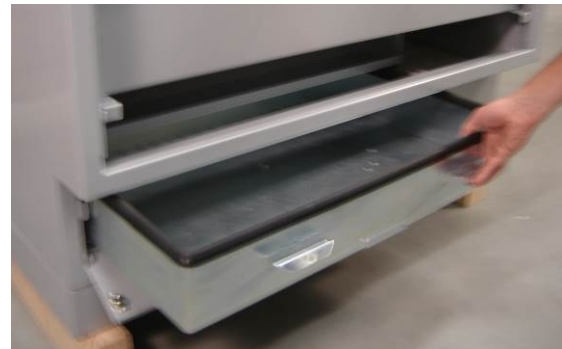


figure 13

Remove the cover by pull the plate. See figure 12.
Disconnect the dust collection container by unlocking. See figure 12.
Now you can pull the dust collection container (figure13) forwards for cleaning.

Please note! Clean regular. This will give the filter a longer lifetime.

When returning the drawer, don't forget to lock it again.

8. Dust extraction

To remove all the dust when working with the Master 115B, the machine has extraction holes. You can open and close the holes (for the scouring belts, polish unit and naumkeag) by hand by lifting its cover. See figures 14, 15 and 16.



figure 14



figure 15



figure 16

To have the most efficient extraction, only one hole should be opened at a time.

9. Compressor

The optional press with the Master 115B has a compressor for air pressure. The air pressure is used for the press and optional stapler. Working pressure is 6 bar.

You can access the compressor (figure 17, pos 1) by removing the compressor cover.

Here you also find the reducer for the air pressure.



figure 17

The reducer (pos 2, figure 17) is used for setting the air pressure for the press.

Desired pressure is 5 bar. You can read the pressure on the manometer (pos 1, figure 17)

The manometer pos3, figure 17 is the pressure for the tank. Below this pressure the tank will refill.

There is no need to change this setting.

For maintenance see appendix 3.

10. Press



- 1: Manometer for pressure
- 2: handle for up/down cushion
- 3: On/off compressor

figure 18

Set the desired air pressure with the reducer (figure 18, pos 1). Adjustment knob is on the left side. The handle (figure 18, pos 2) has 3 positions. The handle downwards will make the cushion go down. If the handle is in its middle position, the cushion stops moving. The handle upwards will make the cushion go up.

Place the last you need on the last holder. Place the shoe over the last and push the last holder with the shoe under the press cushion. Pull the handle (figure 18, pos 2) to let the cushion press the shoe. Set the handle in its middle position to keep the reached pressure. Release the pressure by pulling the handle upwards.

You can use the press for pressing soles and heels. For soles use the press cushion. For heels use the heel press block.

Place the cushion or press block above the V-arm by simply sliding the cushion or press block from left to right (or visa versa) to its stopper.

11. Polishing unit

The polishing unit has three shafts. Each shaft has a polishing-cloth disc and a polishing brush. Only one shaft (with the disc and brush) is in front of the Master 115B. (figure 1, pos 15 (page 9)) This is for one specific color. With the handle on the right side you can change a set of disc and brush.

Puss I -switch for polishing brushes start. The brushes in front will rotate puss O -switch for stop.

Under the brush and disc is the extraction hole. (figure 2 (page 10)) You can open or close it. Open the extraction hole when using the polishing unit.

12. Heel cutter

If you have glued a new heel on a shoe, you can take away the oversized material by using the heel cutter. You can adjust the heel cutter towards the amount of material you want to remove. See figure 1, pos 11 (page 10) and figure 19.



figure 19



Always wear safety gloves. Never touch moving cutters with your hands. The cutter knives can not be protected completely as it would obstruct using them properly. Therefore, always pay attention to the position of your hands during the usage of the cutter section.



Use facial protection and ensure that no loose hanging parts, hair or clothing can obstruct the cutter section. Switch off the machine if you change anything in the cutter section. Always switch off the main switch to be sure the machine is inactive.

You can adjust the width that needs to be cut by displacing the handle (figure 19, pos 1)

Normally, the bottom of the guider is equal with the bottom of the cutter.

13. The naumkeag motor



figure 20



figure 21

The naumkeag motor is adjustable in all directions. By turning the handle (figure 20, marked by an arrow) you loosen the naumkeag motor. Place the naumkeag motor in the desired position. Lock this position when the naumkeag motor is in its right place by turning the handle. (figure 21, marked by an arrow)

13.1 Other tools for the naumkeag motor

The Flexam Master115B has a naumkeag $\varnothing 90\text{mm}$.

You can also place other tools on the naumkeag motor. Read the given brochure for possibilities or visit our website, www.pe.ottobock.com

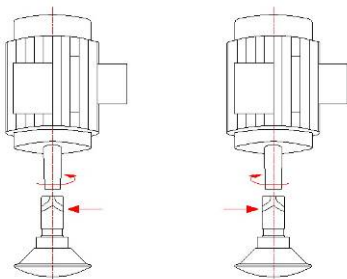


figure 22

The naumkeag has a universal bayonet. It is suitable for a left turning or right turning motor. Please notice the side of the bayonet. Figure 22 shows the direction of rotation and on which side the bayonet should be.

13.2 Replacing the naumkeag scouring paper

You can replace the scouring paper as follows:



Figure 23



figure 24

Place a fork spanner (width 22) as shown on figure 23. Place a pen $\varnothing 6$ in the hole of the naumkeag as shown on figure 23. Because it is fastened with left-handed thread, the direction for loosening is just the other way you are used to. Hold the pen $\varnothing 6$ and turn the fork spanner in the direction as shown on figure 23. Figure 24 shows how it looks when the naumkeag is removed.



Warning. Switch off the machine when replacing the scouring paper! Always switch off the main switch to be sure the machine is inactive.



Figure 25



figure 26

Remove the cone that holds the scouring paper in its place. Figure 25 shows the naumkeag with the cone, figure 26 shows the naumkeag without the cone. Now you can replace the scouring paper.

Fasten the cone. If the rubber under the scouring paper is worn-out, you can order one at Ottobock Equipment and replace it yourself.



Use facial protection and ensure that no loose hanging parts, hair or clothing can obstruct the naumkeag section. Switch off the machine if you change anything of the naumkeag section.

13.3 naumkeag abstraction



figure 27

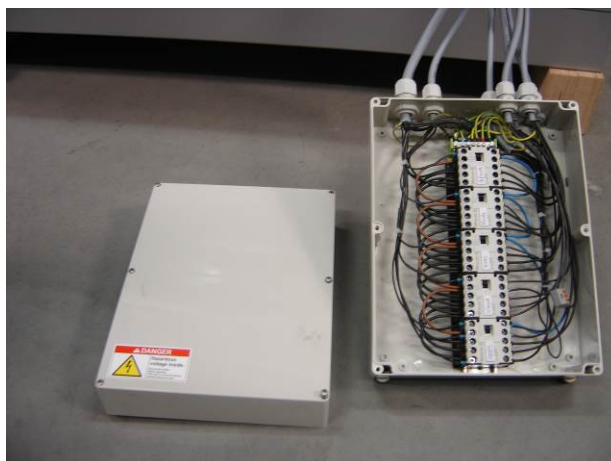
Under the naumkeag is the extraction hole. (figure 27) You can open or close it. Open the extraction hole when using the naumkeag unit.

14. Trouble shooting

	Problem	Cause	Solution
scouring belts	-scouring belt vibrates.	-spring tension not sufficient	replace the spring
	-unable to put tension on the belt	-broken device for tensioning	Contact the Jos America service team
	-the scouring belt makes a lot of noise	-bearings worn-out	Contact the Jos America service team
		-roller not secured	secure the roller
		-roller is not round or contaminated	replace or clean the rollers
	-poor tracking of the scouring belt	-the scouring belt is not proper set	track the scouring belt. See section 6.4
Bayonet			
	-the bayonet vibrates	-worn-out tool attached	replace the tool

For advice and further information please don't hesitate to contact us under:
www.pe.ottobock.com

The position of the electrical switch box:



15. Periodic maintenance

To assure smooth running of the machine you must keep a periodic maintenance. Be sure to check the list below.



During maintenance always switch off the Master 115B. Always activate the emergency stop to be sure the machine is inactive.

Maintenance	Every day	Every week	Every month	Every 6 month
Cleaning the dust filter	#			
Cleaning motor space	#			
Cleaning rollers		#		
Adjusting the copper brush			#	
Check if emergency button works properly		#		
Check air pressure (optional)			#	

16. EG – Declaration of Conformity

The manufacturer: *Otto Bock Equipment B.V.
Industriepark "het Hoog"
Mandenmaker 14
5253RC Nieuwkuijk
Netherlands*

herewith declares with exclusive responsibility, that the machine type Master 115B produced by him comply with the following guideline:

2006/42/EC	General machinery directive
2014/35/EU	Low voltage directive
2011/65/EU	Restrictions on the use of certain hazardous substances in electrical and electronic equipment

and complies with the following standards:

EN-ISO 12100:2010	Safety of machinery – Terminology, general principles for design.
EN-ISO 349:1993+A1:2008	Safety of machinery – Minimum gaps to avoid crushing of parts of the human body.
EN-ISO 13850:2015	Safety of machinery – Emergency stop devices, functional aspects, design principles.
EN 60204-1:2006+A1:2009	Safety of machinery – Electrical equipment of machines. General requirements.

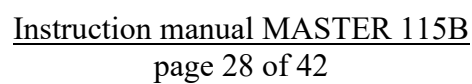
Nieuwkuijk,

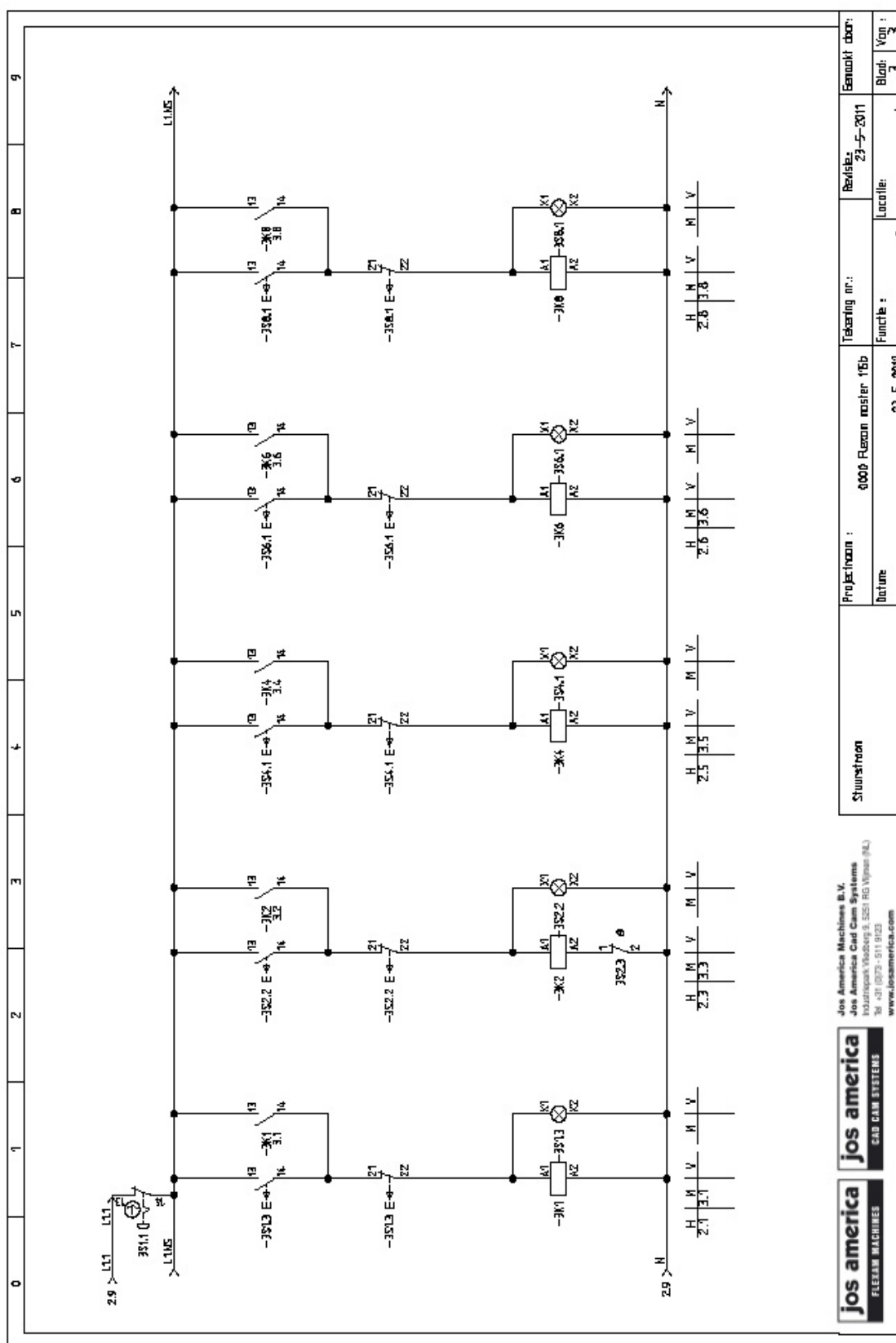


A.H.M. Boom,
Managing Director of Otto Bock Equipment B.V.

Appendix 1 electrical diagram

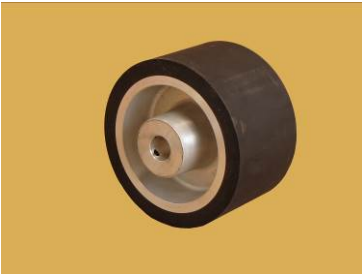
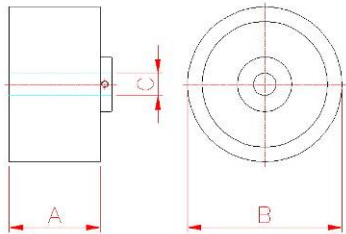
jos america
FLEXAM MACHINES





Appendix 2. Spare parts

Rollers for the MASTER 115B



Measure A	measure B	measure C	article number
75	170	25	702L140
40	170	20	702L143

Rollers for motor MASTER 115B

Measure A	measure B	measure C	article number
40	140	18	702L152
100	100	18	702L153

Appendix 3. Scouring belts for the Master 115B

Standard

Roll	Width	Length	Grain	Article number
Ø100x100	100	1480	k24	649G124=24
Ø100x100	100	1480	k36	649G124=36
Ø100x100	100	1480	k60	649G124=60
Ø100x100	100	1480	k80	649G124=80
Ø100x100	100	1480	k120	649G124=120
Ø170x40	40	1650	k24	649G121=24
Ø170x40	40	1650	k36	649G121=36
Ø170x40	40	1650	k60	649G121=60
Ø170x40	40	1650	k80	649G121=80
Ø170x40	40	1650	k120	649G121=120



Optional

Roll	Width	Length	Grain	Article number
Ø170x100	100	1650	k24	649G125=24
Ø170x100	100	1650	k36	649G125=36
Ø170x100	100	1650	k60	649G125=60
Ø170x100	100	1650	k80	649G125=80
Ø170x100	100	1650	k120	649G125=120

polishing brushes and cloth discs



polishing brush 240 x 60 x 30 natural
Incl. flange 75 x 30 x 20mm with 3 holes for cloth disc or polishing brush

article number
702L84=N



polishing brush 240 x 60 x 30 black
Incl. flange 75 x 30 x 20mm with 3 holes for cloth disc or polishing brush

702L84=BL



polishing brush 240 x 60 x 30 brown
Incl. flange 75 x 30 x 20mm with 3 holes for cloth disc or polishing brush

702L84=BR

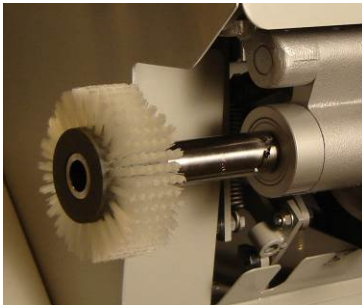


polishing-cloth disc 240 x 60 x 30
Incl. flange 75 x 30 x 20mm with 3 holes for cloth disc or polishing brush

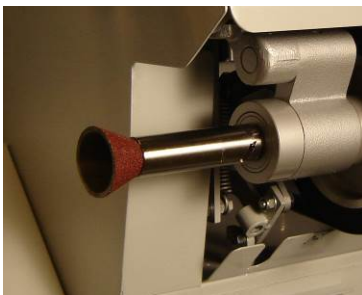
article number
702L78=60

Appendix 4. Tools for the bayonet

article number



Brush nylon soft , Ø110mm x 50mm, incl. bayo 100mm 702L65=100



Small heel cone incl bayonet, length 35mm. Ø 50 to 23mm,
total length 4cm

Length 110mm	702L56=110
Length 140mm	702L56=140
Length 175mm	702L56=175



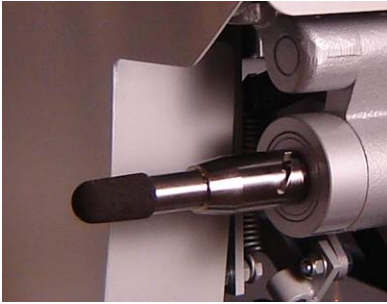
Polishing disc (red) Ø 205mm x 50mm, incl. bayonet main axis 150 x
30mm 702L162



Scouring roll Podologica Ø45 x 70mm, Incl. main axis bayonet
L=155mm 702L94=155

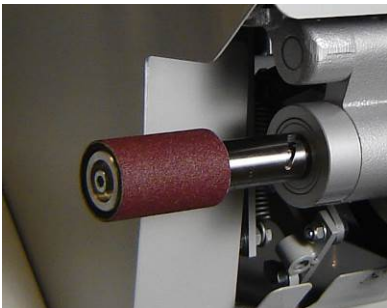


Scouring roll expand-wheel Ø140mm x 35mm incl. bayonet 150mm
702L73=150



Podologica scouring roll Ø21 x 40mm on fixed axis bayonet
L=131mm

702L93



Scouring roll Linea 46x75 on fixed axis bayonet L=139mm

702L68



Scouring case Linea 70x Ø45mm grain 40

749Y16=A45

Scouring case Linea 70 x Ø45mm grain 80

749Y16=B45

Scouring case Linea 70 x Ø45mm grain 120

749Y16=C45



Large heel cone, length 35mm, ø88 to 48mm, total length 11,5cm
702L58=115



Scouring case for heel cone Ø 85 x Ø 38 x 50 grain 40 (large)
649G129



Scouring cap Podologica 40 x Ø 21mm grain 60 649G139=60
Scouring cap Podologica 40 x Ø 21mm grain 150
649G139=150

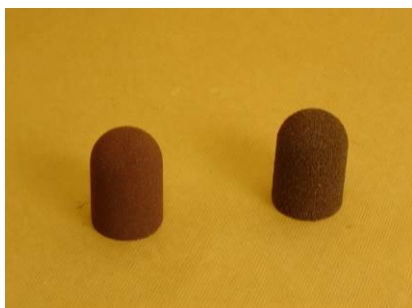


Nylon glue remover brush Ø100mm x 25mm cone brush for main axis

	702L65=100	702L65=150	702L65=200
LENTE	incl. bayonet 100mm	incl. bayonet 150mm	incl. bayonet 200mm



Widia heel cutter A 18mm 16-teeth
702L29=18x16



Scouring roll Podologica 70 x Ø 45 grain 40

649G151=80

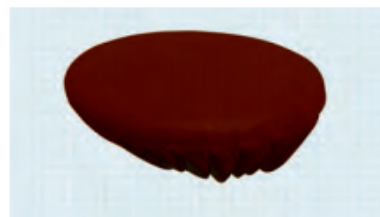
Scouring roll Podologica 70 x Ø 45 grain 80

649G151=40

Accessories for naumkeag

649G153=* Sanding sleeve

Article number	649G153=80	649G153=100	649G153=120	649G153=180
for	702L161 Naumkeag			
Diameter	130 mm			
Grit	80	100	120	180



649G154=* Sanding sleeve

Article number	649G154=60	649G154=80	649G154=100	649G154=120	649G154=180
for	702L160 Naumkeag				
Diameter	90 mm				
Grit	60	80	100	120	180



702L124 / 702L126 Replacement rubber

Article number	702L124	702L126
for	702L161 Naumkeag	702L160 Naumkeag
Diameter	130 mm	90 mm



Appendix 5. Compressor

GENERAL INFORMATION



Identifying the product

The product is identified by an EC label (see fig.1)

Important! Read me

Compressors fitted with: FD2000, FD2500, OL185, OL195, OL230, MK6, FD9200, FD9300 and SF2500 pump units are designed for intermittent use, the duty cycle should not exceed 50% and they should not be operated continuously for more than 15 minutes.

- Compressors rated at more than 5.5 hp must only be used in closed environments.

Unpacking

- The packaging may include metal staples, always wear safety gloves and use pliers when removing them.
- Ensure the lifting device is capable of supporting the weight. In the case of compressors with a capacity of greater than 50 litres, take special care not to overbalance the machine, ensure that transportation is carried out by personnel who have been trained in the use of the lifting equipment and that there are no persons or obstacles of any kind present in the area where it is to be moved.
- Ensure that the compressor is in perfect condition and that the following items are present:
User and Maintenance manual, oil level dipstick, wheels and/or vibration dampers, air intake filter
- If necessary, fit the wheels and/or vibration dampers (fig.2).

Positioning

DO NOT USE the compressor if it is installed on floors with a slope of more than 15° (fig.3).

Always position the compressor **at least 50 cm** from any obstacles that could obstruct the passage of air and hence affect the cooling system.

Disposal

Keep the packaging in case it is necessary to move to another location, or at least until the guarantee expires.
The packaging material, the compressor and its components must be disposed of by authorised recycling centres.

Information about technical assistance

Repairs under guarantee may only be carried out by our authorised technicians. Use original spare parts only.
Whatever your request, always indicate the TYPE, CODE and SERIAL N° of your compressor.

SAFETY

The compressor must be used exclusively as a compressed air generator, all other uses are excluded. The manufacturer declines all responsibility for damages in cases where the machine is misused, or used in a way that does not conform to the operating instructions.

DO

Make sure you understand how to switch off the compressor, and how to use all the controls.
Empty the air tank and disconnect the electrical supply before carrying out any operations, in order to avoid starting up the machine by accident.
Ensure that you have replaced all parts correctly after carrying out any maintenance operations.
Keep children and animals away from the area where the compressor is operating.
Carefully read the instructions provided with any accessories that may be fitted; in particular, when using the paint spray gun ensure that the area is properly ventilated.
Use acoustic protection devices if you are present in the area where the compressor is running for prolonged periods.

DO NOT

Use the machine for spray painting in closed environments or near to naked flames.
Touch the head, the cylinders, the cooling fins or feeder tube as these can reach high temperatures during operation, and may take some time to cool down again after the compressor has been switched off.
Place inflammable materials on and/or near the compressor.
Move the compressor when the air tank is pressurised.
Use the machine if the power cable is damaged, or the electrical connection is unsafe.
Point the air jet at people or animals.
Allow anyone to use the compressor unless they have been properly trained.
Strike the flywheel or the fans with blunt or metallic objects. This could cause them to break while the compressor is running.
Operate the compressor without the air filter.
Tamper with the safety valve and/or the air tank.
Operate the compressor in a potentially explosive atmosphere.
Connect tubes that are rated at less than the maximum capacity of the compressor to the outlet valve.
Use the compressor at temperatures below 0°C (range temp. +5° C to + 45° C).

Protecting the motor

- SINGLE PHASE compressors are fitted with a motor-protector, which automatically interrupts the electrical power supply if an overload occurs.
In this case, disconnect the power supply and wait a few minutes before resetting the motor-protector manually (fig.4), then restart the compressor. If the motor-protector trips again, disconnect the power supply and contact an authorised service centre.
- THREE PHASE compressors are equipped with a tele-pressurestat that, in addition to performing ordinary "control" functions, also protects the motor. If an anomalous condition occurs, the switch (see fig.6) is automatically switched to the OFF position. Disconnect the power supply and wait for a few minutes (about 5) before returning the switch to the ON position. If it trips again, disconnect the power supply and contact an authorized customer service centre

OPERATING THE COMPRESSOR

Installation (fig.5)

1. Remove the guard cover cap and insert the oil level dipstick.
2. Remove the cap from the compressor head and screw the sucking filter (if not already mounted).
3. Check that the oil level is between the minimum and maximum markers indicated in the window or on the dipstick.
4. Check that the mains voltage corresponds to the value indicated on the EC label.

Single phase Compressors: are fitted with an EEC type 7 plug. If necessary this may be substituted by specialised personnel only.

Three phase compressors: must be connected to the mains supply via a correctly rated thermo-magnetic breaker switch. This operation must be carried out by a qualified electrician in accordance with the procedure described in table 1.

Switching the compressor on (fig.6)

- Insert the mains plug, or apply the mains supply to the breaker switch, and start the machine by switching the ON/OFF switch to ON.
- The first time the compressor is switched on, leave it to run for about ten minutes with the air output valves (A) open. Close the valves and check that the compressor pressurises the air tank, stopping when it reaches the value P_{max} (as indicated by the manometer B).
- The compressor operates in automatic mode, stopping when the pressure reaches P_{max} and restarting when the pressure falls to the calibrated minimum value ($P_{max} - 2 \text{ bar}$).
- The only correct way to switch off the compressor is by switching the ON/OFF switch to OFF.

When the compressor is operating correctly it releases:

a puff of compressed air each time it is switched off; a prolonged puff of air each time it is switched on.

Setting up the working pressure (fig.6)

- You can regulate the output pressure, which is indicated by the manometer D, by adjusting the reducer C. After use, the pressure should be allowed to fall to zero.

When using pneumatic tools, always check the optimum working pressure of the accessory.

MAINTENANCE

Turn the compressor off and let all the air out of the tank before carrying out any maintenance.

After operating for 50 hours

- Check that all the screws are tight, particularly those securing the head and the base
- Change the oil (see paragraph "Once every 6 months")

Once a week

- Check the oil level and top it up if necessary using ONLY the same type of oil (do not exceed the max. level - see fig.5).
- Discharge the condensation by opening the valve located under the tank; close the valve as soon as it begins to vent air only (fig.7).

Once a month (or more frequently if used in a dusty environment)

- Remove the intake filter and clean the filter element (fig. 8), or replace it if it is damaged. PAPER element: clean by directing a jet of compressed air through it from the inside towards the outside – SPONGE element: wash using a detergent, rinse and dry thoroughly - METAL element: wash using an oil-free diluting agent and blow dry using compressed air.

Do not operate the compressor without the intake filter.

Once every 6 months:

- Change the oil (while the compressor is warm): extract the level dipstick, undo screw A (fig.9) and collect the waste oil in a recipient. Replace the screw A, and replenish with new oil up to the maximum level. Original oil: SHELL Rimula D Extra 15W-40. **Never mix different oils.**
- Clean all the finned parts thoroughly.

Once every 2 years

- Check the valve seal and substitute the sealing element D if necessary (fig.10).
- Check the intake and discharge valves.

5. FAULT FINDING

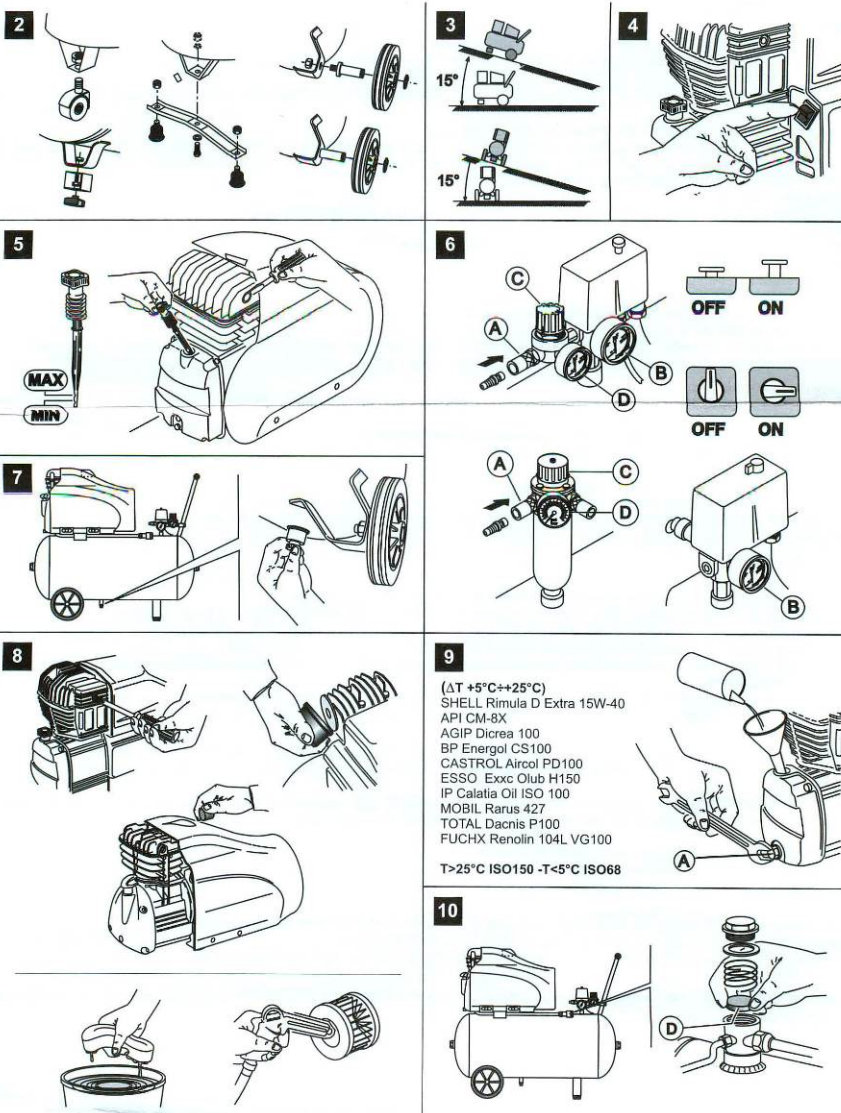
Fault	Solution
1 - The tank pressure decreases.	1 - Check that all the connectors are closed correctly. If the problem persists call technical assistance.
2 - Air leaks from the pressurestat valve when the compressor is not running.	2 - Clean the valve seal seat thoroughly. Substitute the sealing element if necessary.
3 - Air leaks from the pressurestat valve when the compressor has been running for more than 1 minute.	3 - Idle start valve faulty. Stop the compressor and call technical assistance.
4 - The compressor stops and will not restart.	4.1 - Disconnect the power supply, wait a few minutes, and then press the motor-protector button. If the motor-protector trips again when the compressor is restarted, call technical assistance
5 - The compressor does not stop when it reaches P_{max} causing the safety valve to open.	4.2 - The motor winding is burnt out, contact an authorised service centre.
6 - The compressor fails to pressurise the tank, and overheats.	5 - The pressurestat may be faulty. Stop the compressor and call technical assistance.
7 - The compressor is very noisy; rhythmic and metallic knocking sounds can be heard.	6 - Blown head gasket or faulty valve. Stop the compressor immediately and call technical assistance.
	7 - The bushing or ferrule may have become seized. Stop the compressor immediately and call technical assistance.

1

1	CE	2
3		
4		5
6		7

- Dati del costruttore
 - Herstellerdaten
 - Coordonnées fabricant
 - Gegevens van de fabrikant
 - Manufacturer's data
- Marchio CE - anno di costruzione
 - CE-Zeichen - Baujahr
 - Marque CE - Année de fabrication
 - CE-merkteken - bouwjaar
 - CE mark - year of manufacture
- TYPE / CODE / SERIAL N.

- Aria resa misurata in (l/min) e (cfm)
 - Lufterzeugung des Kompressors gemessen in (l/min) und (cfm).
 - Débit d'air du compresseur mesuré (l/min) et (cfm)
 - Luchtopbrengst van de compressor gemeten in l/min en cfm
 - Air delivered by the compressor expressed in (l/min) and (cfm)
- Pressione massima di esercizio (bar e PSI) - rumorosità dB(A)
 - Max. Betriebsdruck (bar und PSI) - Kompressorschalldruck dB(A).
 - Pression de fonctionnement maximum (bar et PSI) - Niveau de bruit du compresseur dB(A)
 - Maximum bedrijfsdruk (bar en PSI) - geluidsniveau van de compressor in dB(A)
 - Max. operating pressure (bar and PSI) - compressor noise level in dB(A)
- Dati elettrici: tensione di alimentazione (V/ph), frequenza (Hz), assorbimento (A) - potenza (HP e kW), giri al minuto (Rpm).
 - Elektrische Daten: Versorgungsspannung (V/ph), Frequenz (Hz), Aufnahme (A) - Leistung (PS und kW), U./min (Rpm).
 - Données électriques : tension d'alimentation (V/ph), fréquence (Hz), absorption (A), puissance (CV et Kw), tours par minute (Tpm)
 - Elektrische gegevens: voedingsspanning (V/ph), frequentie (Hz), stroomopname (A) - vermogen (HP en kW), toeren per minuut (Rpm)
 - Electric data: voltage (V/ph), frequency (Hz), absorption (A) - power (HP and kW), rotations per minute (Rpm).
- Eventuali altre omologazioni
 - Eventuelle andere Zulassungszeichen.
 - Eventuelles autres homologations
 - Eventuele andere goedkeuringen.
 - Other approvals



Notes

Notes

Notes

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Netherlands
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