



User manual

Safety labels

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This is the original English user manual.

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Preface

General data

This user manual contains information and instructions to operate the machine correctly and safely.

Make sure that all approved personnel that do work on the machine, read and understand this user manual first. Always obey the instructions. Keep the user manual in an area that is available for all approved personnel.

Contact the manufacturer when you have questions.

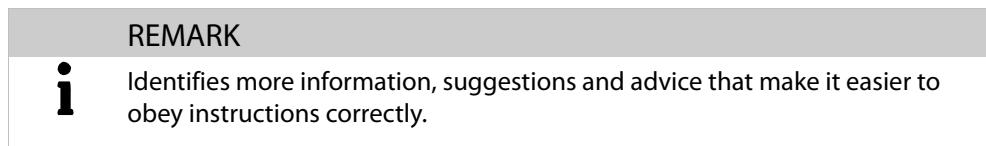
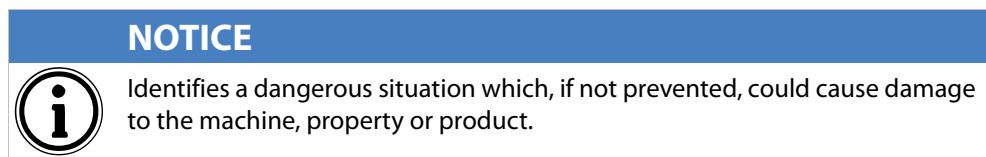
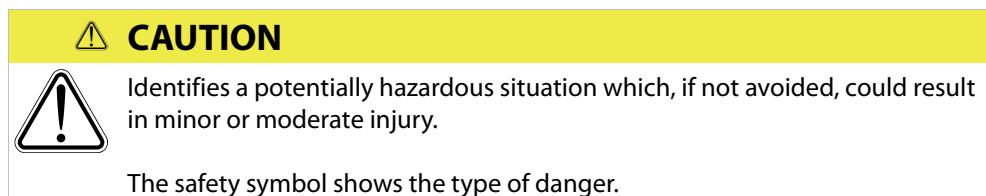
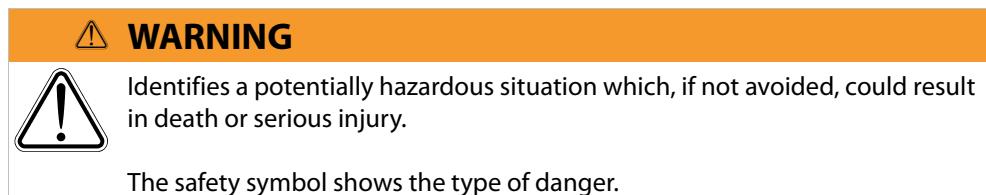
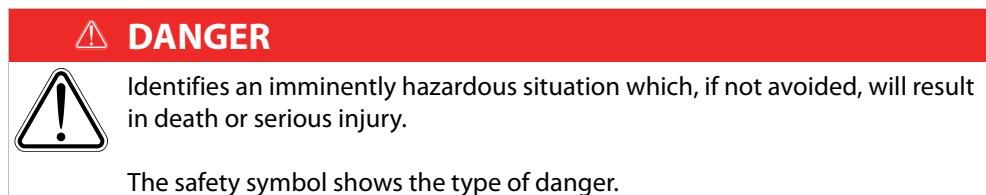
Always replace missing or damaged user manuals. When updates are available, replace the related pages in the user manuals.

Definitions

In this user manual:

- “Machine” can be:
 - A module
 - An installation
 - A unit
 - A system with its related machines / Control Panel
- “Product” or “products” is the result of the production.
- “Operator” is the person responsible for the:
 - Installation
 - Adjustments
 - Operation
 - Cleaning
 - Maintenance
 - Troubleshooting
- “Approved personnel” are persons, including operators, who are:
 - Professional
 - Competent
 - Fully trained
- “Buyer” includes all companies that use the machine. This includes:
 - Bought machines
 - Leased machines
 - If the machine is subject to other user rights
- The symbol in the text boxes VALUES is a length or a temperature, pressure, angle etcetera.

Explanation of the text boxes



Explanation of the numbers, letters and references

References in the header and in the footer

The header has this information:

- The chapter title on each page.
- The machine name on the odd pages.
- The company name on the even pages.

The footer on each page has this information:

- The page number.
For example: 4.
- The document number and the publication date.
For example: 94024_01 ENG / 12 October, 2020.

Numbers and letters in the text

The numbers and letters in bold refer to the related item in the figure.

For example: Product guides **40** and **41**.

References to other user manuals

The text can have references to other user manuals:

- The names of these user manuals are between quotes.
- The document numbers of these user manuals are between brackets.

For example: See the user manual "Cleaning and Disinfection" (90811).

REMARK

It is possible that the figures in this user manual do not show your machine accurately. Be aware of this when you read this manual and operate the machine.
Some of the machine components have specified documentation. See the table of contents in the documentation set.

General Terms and Conditions of Sale

The General Terms and Conditions of Sale applied by the Marel companies apply to this machine. The documentation set contains the General Terms and Conditions of Sale.

Responsibilities

**WARNING**

Always install the machine as the layout drawing and the "Technical Data" show. If you install the machine differently, this could result in death or serious injury.

The local legislation in your country or local conditions can make a different layout or more safety steps necessary. If this is applicable, contact the manufacturer.

The buyer must make sure that all approved personnel that do work on the machine, read and understand this user manual first.

The buyer must make sure that the personnel and the machine are safe.

The buyer must make sure that:

- Only approved personnel do this work correctly and in time:
 - Installation
 - Adjustments
 - Operation
 - Cleaning
 - Maintenance
 - Troubleshooting
- All approved personnel have access to the necessary data.
- All approved personnel have the necessary skills to do work on the machine.
- All approved personnel obey all the rules and instructions.
- Only use the machine with the specifications in this user manual, the "Technical Data" and the order confirmation.

- No one changes the initial condition of the machine without prior written permission from the manufacturer.

Safety

Safety at work

The manufacturer informs as correctly and fully as possible about the dangers and risks when you work on the machine. The buyer must make sure that the approved personnel obey the information and instructions in this user manual.

The national or local legislation in the country of the installed machine can permit minors to work on the machine. The manufacturer explicitly points out that persons under 15 years of age must never work on the machine.

Do all the work according to the rules and regulations on safety and environment.



WARNING



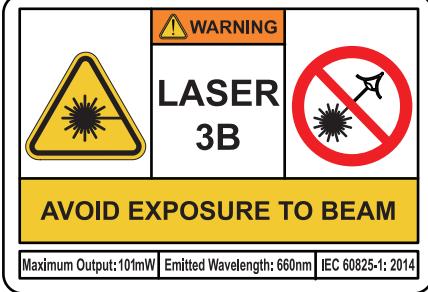
Loose-fitting clothing increases the danger of entrapment or entanglement in moving or rotating components. Loose-fitting clothing can also get stuck in protruding components.

- Wear close-fitting clothing.
- Do not wear rings, necklaces or other jewelry.
- Use a hairnet.
- Wear slip-resistant, substantial footwear or safety shoes.

Safety labels

	Risk of injury from sharp objects.
	Risk of injury from sharp objects.

	Risk of injury from moving and rotating components.
	Risk of injury from entrapment
	Risk of injury from electrical voltage.
	Risk of injury from high temperatures.
	Risk of injury from high temperatures.
	Risk of hearing loss from high noise levels.
	Go near a dangerous area.

	Risk of injury from the breathing of poisonous gases.
	Risk of injury from ionizing radiation.
	Risk of injury from laser beams.
 <p>Danger! Visible laser radiation Class 3B laser product Maximum output: 50 mW Wavelength: 660 nm</p>	
 <p>WARNING LASER 3B AVOID EXPOSURE TO BEAM Maximum Output: 10mW Emitted Wavelength: 660nm IEC 60825-1; 2014</p>	
	Risk of injury or death. This safety label indicates risks, other than the risks on all the other safety labels.

	Risk of injury from high-pressure water.
	Risk of injury from a magnetic field.
	Risk of injury when you lift heavy parts.
	Risk of injury when the machine automatically starts.
	Risk of injury from overhead obstruction.
	Risk of injury from flammable materials.
	Risk of injury by a fall from a height.

	Risk of injury or damage to the machine when you step on the machine. Do not step on the machine.
	Always lift the machine with a forklift truck at these spots.
	Always wear a harnass at these spots.

The machine and the user manual contain safety labels that identify possible dangers.

Hygiene and environment

Always obey the legislation on hygiene and environment during work on the machine.

Do not keep dangerous materials such as cleaning agents and maintenance chemicals in the production area.

Recycling

Sort material for recycling as much as possible.

Chemical waste

Always discard chemical waste separately.

Waste disposal

Only hand over waste materials to waste-disposal experts who obey the national and local legislation in your country.

Disassembly

Remove all dangerous components such as blades and discard chemical waste separately when you:

- Do not use the machine for an extended period.
- Dispose of the machine.

Description

Scope

This user manual is about the used safety labels on the machine. The safety labels are a safety provision. The function of the safety label is to give a warning to the user of the machine. See the paragraph Safety labels on page 5 for an explanation of the safety labels.

There are safety labels on the machine. See the paragraph Safety provisions of the user manual of the machine.

 **WARNING**

 Some parts of the machine, for example moving or rotating parts, blades and electrical components can cause death or serious injury. Safety labels at or near these parts identify the type of hazard.

- Regularly examine if the safety labels are in place, not damaged and recognizable. See the paragraph Maintenance schedule on page 14.
- If not, install new safety labels. See the paragraph Install the safety labels on page 14.

Maintenance

Introduction

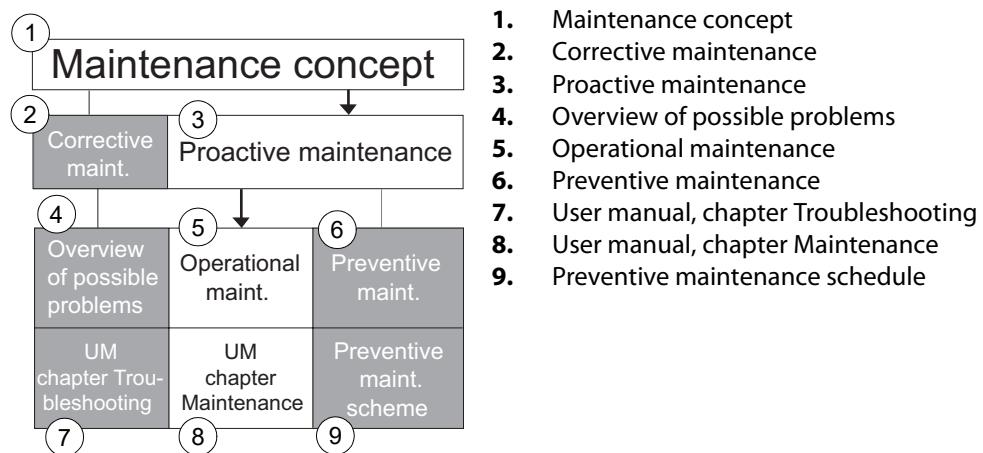


Figure 1 Maintenance

Do the maintenance operation on time and accurately to keep the condition of the machine at the highest technical and technological level that is possible. Regular visual inspections of the machine will help you to find possible technical or technological deviations at an early stage.

Figure 1 shows maintenance concept 1. This chapter is about operational maintenance 5 as a part of the maintenance concept.

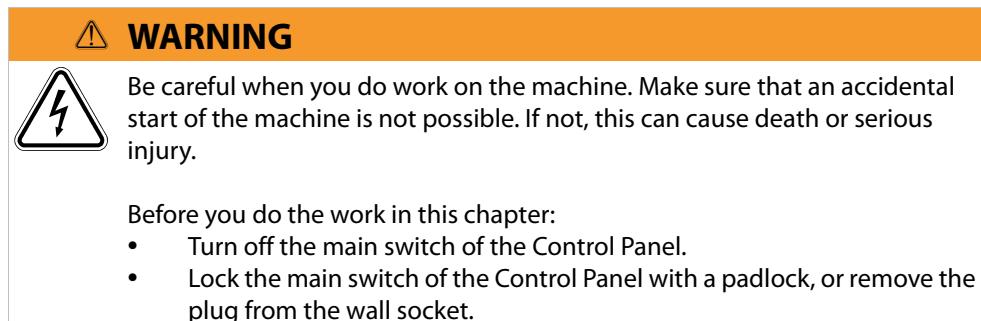
Chapter Troubleshooting gives the possible steps during corrective maintenance 2. For more information about preventive maintenance 6, contact the manufacturer.

⚠️ WARNING



If you do not obey the procedures in this chapter, this can cause death or serious injury.

Make sure that only approved personnel do the work in this chapter.



Operational maintenance

The maintenance schedule gives the maintenance operations. See the paragraph Maintenance schedule on page 14.

Maintenance schedule

The maintenance schedule contains the information about the operational maintenance items and the operational maintenance intervals. Please obey this information to keep the machine in a good condition.

REMARK							
i	Keep the correct spare parts in stock.						

Table 1 Maintenance schedule

Item	Daily*	Weekly*	2-Weekly*	Monthly*	3-Monthly*	6-Monthly*	Yearly*	If necessary	Clean	Done	Page
									Examine		
Safety labels									Adjust / repair / replace		
									Lubricate the machine		
									Description		
									Examine if there are safety labels (in position, not damaged and recognizable).	**	
									Install new safety labels on the machine.	15	

* Maintenance frequency on the basis of 40 production hours / week.

**See the user manual of the machine.

Install the safety labels

If the safety labels are damaged, not recognizable or not present, install the new safety labels on the machine. Install the new safety labels in the correct positions. See the user manual of the machine for the correct positions of the safety labels.

Do these steps to install the safety labels:



Figure 2 Clean the surface

1. Clean the surface of the machine at the position of the safety label. Use a clean cloth. Do not use aggressive chemicals or solvents. Use, for example methanol.

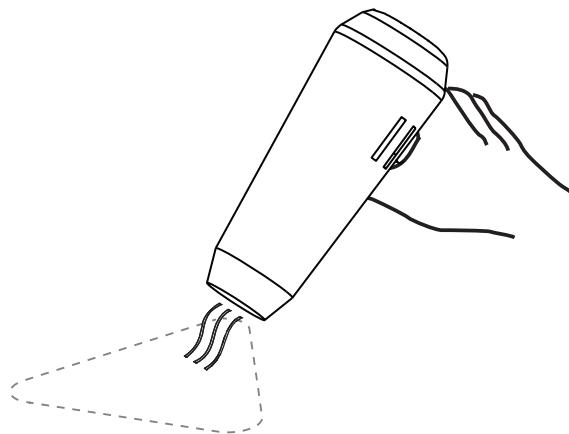


Figure 3 Heat the surface

2. Heat the surface to a temperature of 40 °C.

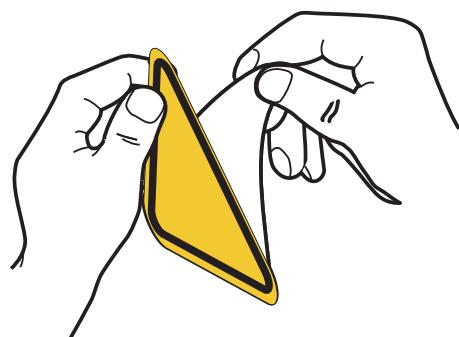


Figure 4 Pull the protection layer from the safety label

3. Pull the protection layer from the rear of the safety label.



Figure 5 Install the safety label

4. Install the safety label on the surface.



Figure 6 Apply pressure to the safety label with a spatula

5. Apply pressure to the safety label with a spatula or roller.
Make sure that the safety label is level without bubbles.
6. Wait for 48 hours for the safety label to dry.

NOTICE



Do not use water or detergent on the safety label during the first 48 hours after the installation of the safety labels.

Ordering the safety labels

You can order the safety labels from the manufacturer.

Always give this information when you order the safety labels:

- Quantity.
- Part number. See Table 2.

**Figure 7 Value A****Table 2 Part numbers of the safety labels**

Safety labels	Values A [mm]	Part number
	35	400021456
	50	400021457
	100	400021458
	35	400002384
	50	001070001
	100	001070002
	35	400002382
	50	001070004
	100	001070005
	35	400002383
	50	001070007
	100	001070008
	35	400002385
	50	001070013
	100	001070014

Table 2 Part numbers of the safety labels

Safety labels	Values A [mm]	Part number
	35	400021459
	50	400021460
	100	400021461
	50	400002146
	100	001070017
	100	001070020
	50	400001161
	100	001070011
	150	001070012
	100	001070025
	50	400002386
	100	400002387
	35	4907800
	50	400002388
	100	400002389

Table 2 Part numbers of the safety labels

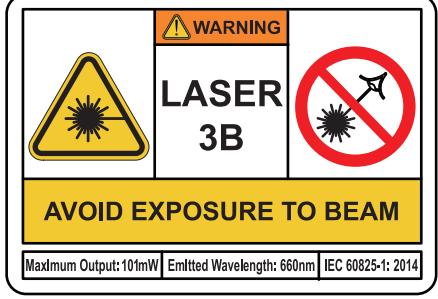
Safety labels	Values A [mm]	Part number
	100	400002392
	70	7893351
	50	400002390
	100	400002391
	100	3256406
	35	400024117
	50	400014526
	100	400014527
	40	400017330

Table 2 Part numbers of the safety labels

Safety labels	Values A [mm]	Part number
	100	4836647
	50	400022934
	-	-
	35	400002393
	50	400002394
	50	400013254
	-	-

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