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PLANMECA



Planmeca PlanMill® 40 S

EN

user's manual

30003011_1

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The manufacturer, assembler and importer are responsible for the safety, reliability and performance of the unit only if:

- installation, calibration, modification and repairs are carried out by qualified authorised personnel
- electrical installations are carried out according to the appropriate requirements such as IEC 60364
- equipment is used according to the operating instructions.

Planmeca pursues a policy of continual product development. Although every effort is made to produce up-to-date product documentation this publication should not be regarded as an infallible guide to current specifications. We reserve the right to make changes without prior notice.

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1 INTRODUCTION

This manual described how to operate the Planmeca PlanMill 40 S as part of the Planmeca Chairside CAD/CAM solution.

1.1 Indications for use

The Planmeca PlanMill 40 S is a dental milling unit used to fabricate restorations from compatible dental materials.

2 ASSOCIATED DOCUMENTATION

- Planmeca Romexis User's Manual (publication number 10014593)
- Installation manual, publication number 30003240

  Instructs how to install the components of the Planmeca Chairside CAD/CAM solution. The manual is for service personnel.
- Technical manual, publication number 30003241
  Instructs how to do the maintenance, troubleshoot and repair tasks of the Planmeca PlanMill 40 S. This manual is for service personnel.

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3 SYMBOLS ON PRODUCT LABELS

The following symbols are used on various labels on the system.



Alternating Current IEC 60417-5032



Caution: ISO 7000-0434A



Date of Manufacture



European conformity



Manufacturer



Non-ionizing electromagnetic radiation



Separate collection for electrical and electronic equipment according to Directive 2002/96/EC (WEEE)



UL Laboratory Equipment Listing
IN ACCORDANCE WITH UL 61010-1
30SC
E253493



OFF Power IEC 60417-5008



ON Power IEC 60417-5007



On/Off Power IEC 60417-5010



Operating Instructions ISO 7000-1641



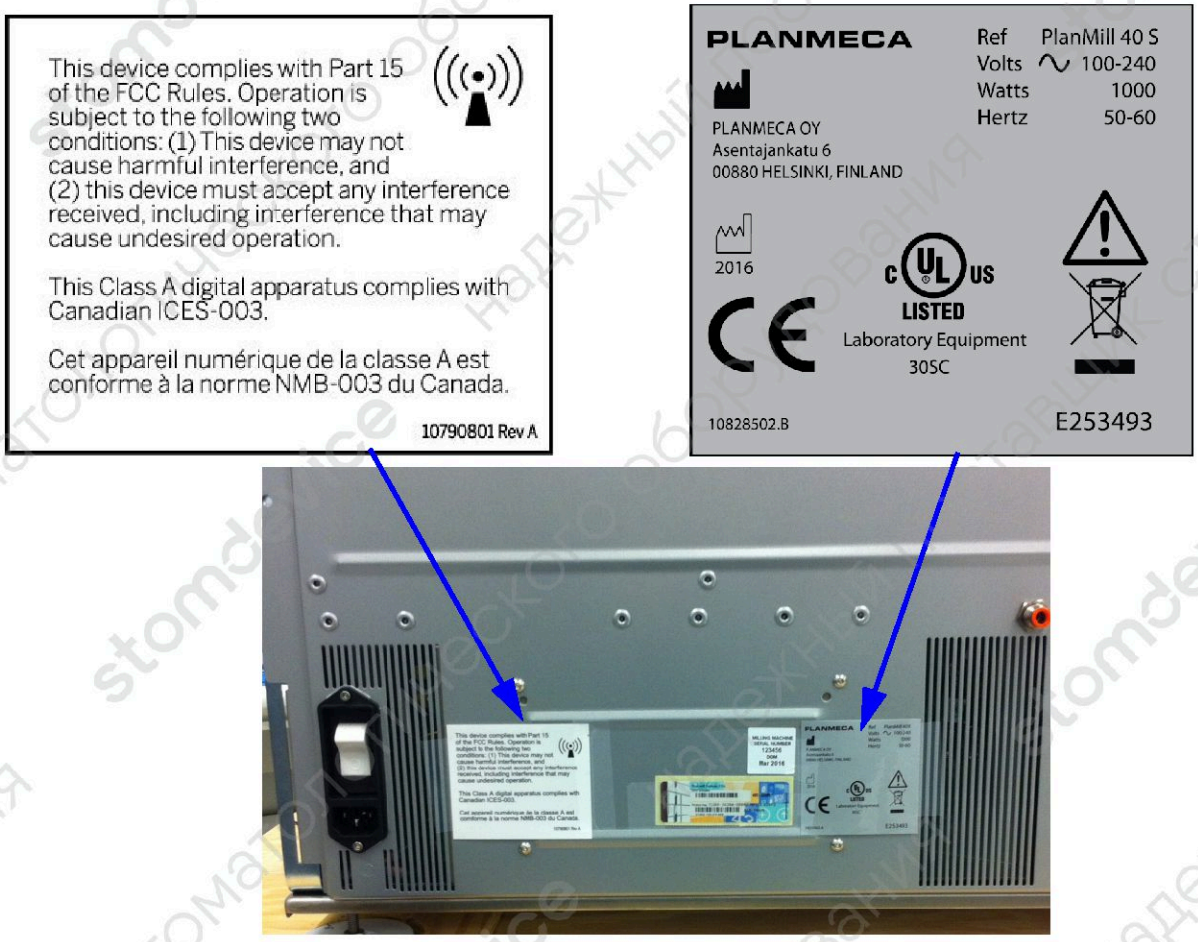
Protective Earth IEC 60417-5019

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3.1 Label locations

3.1.1 Product identification labels

Affixed to the milling unit are product identification labels that contain identification and safety information. Be certain to read all product labelling.





The serial number is located inside the milling unit above the tank.



NOTE

If any of the labels are missing or illegible, please contact Planmeca Customer Support for replacement labels.

NOTE

Label examples are not shown actual size. The labels may have changed since this book was published.

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3.1.2 Attention labels

Attention labels are located in numerous places on the Planmeca components. These labels direct you to specific safety entries in this user manual. Adhere to all such safety warnings at all times.

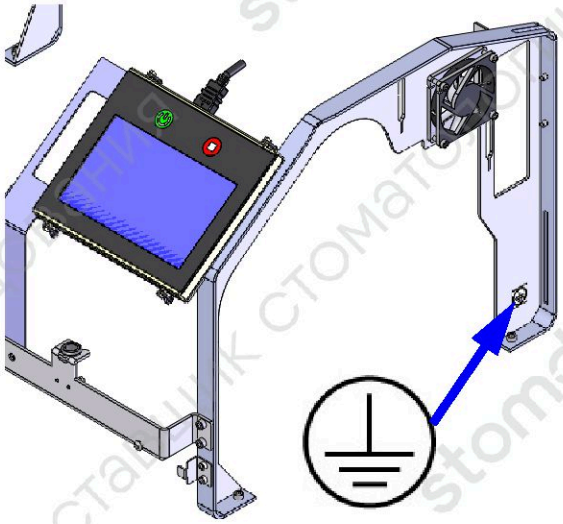
External components and connectors



When connecting external components to the Planmeca system, attach only components that have been tested for compliance with IEC 60601-1 or UL 60950.

Connectors for attaching external devices conduct low voltages. Avoid touching the connector pins.

3.1.3 Protected earth ground label



The Protected Earth Ground label is attached to the milling unit under the cover as shown.

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4 MILLING UNIT

4.1 Switching on the milling unit

Press the green button on the front of the milling unit to turn it ON.



The power button on the back of the milling unit shuts off electrical power to the milling unit. This is generally left ON. The red button on the front of the milling unit will stop/ abort the milling process.

The screen on the milling unit is a touch screen. No mouse is needed.

4.2 Display screen



When the milling unit application loads, the following screen appears.

Close the lid and wait.

4.3 Lid lights

The lid lights change color based on the status of the milling unit.

Lid color	Description
Blue (solid)	Milling unit is initializing
Green (solid)	Milling unit is idle or is milling. It can accept instructions (select restorations, cancel milling, replace tools, etc.)
Green (flashing)	Milling complete. The restoration has completed milling and the lid is open.
Purple	Diagnostic mode
Red (flashing)	The milling unit has faulted. Warning screen: Re-initialize to clear the fault or enter the diagnostic state to attempt to diagnose the problem.
White	Lid is open.
Yellow	Warning message displayed.

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4.4 Turning off the milling unit



1. Touch the **X** in the corner of the main screen to Exit.



A verification screen appears.

2. Touch OK to turn OFF the milling unit. Touch Cancel to leave it ON.

The desktop for the operating system appears.

3. Touch **Start**.
4. Select **Shut Down**.

4.5 Relocating the milling unit



WARNING

The milling unit weighs approximately 77 kg (170 lb.). Always follow these guidelines when relocating the machine.

Be certain to drain the milling unit's fluid reservoir before moving the unit.

The milling unit is designed to operate on a level and stable surface in an environment free from excessive moisture or dust. The milling unit should be located away from the patient access area. When choosing a location for the milling unit, adhere to all clearance requirements stated in section 11 "TECHNICAL SPECIFICATIONS" on page 22.

1. Ensure no milling operations are in progress.
2. Open the front access panel and remove the fluid reservoir.
3. Empty the fluid reservoir according to your approved material disposal protocols.
4. Turn OFF the milling unit.
5. Disconnect all power and data connections.

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6. Lift the milling unit onto a cart that is capable of supporting the weight of the milling unit and its accessories. You are advised to use a suitable cart rather than moving the milling unit by hand. Lifting and carrying should be kept to a minimum.

NOTE

The milling unit weighs approximately 77 kg (170 lb.). Lifting the milling unit requires at least two people.

Those lifting the milling unit should:

- Stand close to the milling unit with their feet approximately shoulder width apart, and one foot slightly in front of the other for optimal balance.
- Squat down by bending at the knees, not at the waist, keeping their backs as vertical as possible.
- Firmly grasp the milling unit before beginning the lift.

NOTE

Be certain to lift the milling unit by the underside metal framework, not by the plastic housing.

- Refrain from twisting their bodies and slowly begin lifting, using their legs, not their back, to lift.
- Keep the milling unit as close to the body as possible to minimize stress on the back.
- If turning is required, turn by shuffling their feet, not by twisting their body.
- If it is necessary to place the milling unit below the level of their waists, each person lifting should follow these procedures in reverse order, keeping their backs vertical and bending at the knees.
- Be careful to avoid obstacles.

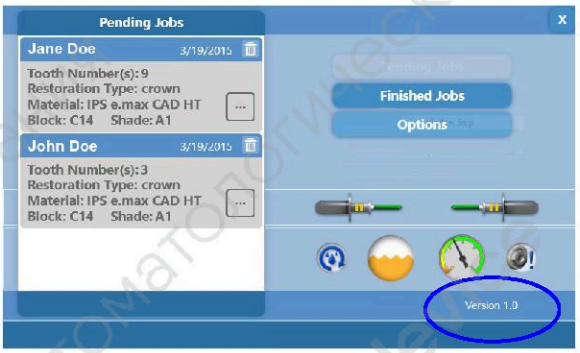
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4.6 System information and upgrades

4.6.1 Software and hardware

System software and hardware upgrades are initiated through Planmeca only. No software or hardware should be added or deleted to/from the Planmeca systems without prior approval of Planmeca. Doing so may result in damage to the system and will void the product warranty.

4.6.2 Milling unit software version



The version number is displayed on the home screen.

When placing a call for service or support, you may be asked to provide the serial number, model number, software version number, or similar identifying data. The serial number and model number are located on the Product Identification Label, affixed to the rear of each unit, see section 3 "SYMBOLS ON PRODUCT LABELS" on page 2.

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5 FOR YOUR SAFETY

CAUTION

Failure to adhere to all safety warnings may result in personal injury, equipment damage, or data loss.

The milling unit weighs approximately 77 kg. (170 lb). When lifting or moving the milling unit, follow the guidelines in section 4.5 "Relocating the milling unit" on page 6.

Always ensure the milling unit is on a surface capable of supporting its weight of approximately 77 kg (170 lb).

Use caution when handling the milling unit's cutting tools.

Before milling a restoration, ensure the milling unit has adequate milling fluid. Adequate milling fluid is required to prevent overheating and possible damage to the restoration blank and cutting tools.

Do not open the lid of the milling unit while a milling operation is in progress. Doing so will result in the loss of data and restoration block; the milling process will have to be repeated.

This equipment is intended to be grounded. Connect the products to earth grounded outlet only.

If a power cord (other than the one provided with the equipment) is used for connecting to the power source, ensure it meets all of the following requirements:

- Detachable power supply cord
- Type SJT
- 18 AWG
- 3 conductor
- Rated 10 A or better
- For products outside of the United States and Canada, the power cord must be marked “HAR” or with a suitable agency marking from the country of intended use. The attachment plug and appliance coupler must be marked with a suitable agency marking from the country of intended use.

Do not use the products for any purpose other than its intended and labelled use.

To prevent electrical shock, do not open any sealed or user restricted access panels or connectors.

A detachable non-locking type power cord has been provided with this equipment as the disconnect device. Do not block access to the power cord. In case of emergency, remove power from the device by unplugging the cord at either end.

Do not block any of the product's cooling vents. Doing so may result in overheating and damage to the products and will void the product warranty.

When placing components, adhere to all clearances stated in section in section 11 "TECHNICAL SPECIFICATIONS" on page 22.

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Do not make any unauthorized repairs or modifications to the system software or hardware. This includes installing unauthorized software on the computer system or altering or bypassing any safety switches or mechanisms.

Do not install or operate the products in an environment where an explosion hazard exists, e.g., high oxygen area.

Comply with all applicable regulations when disposing of waste materials.

Do not attach any equipment or devices to the products unless their use has been specifically authorized by or Planmeca or E4D Technologies.

The wireless components in the products may be interfered with by other equipment, even if the other equipment is fully compliant with CISPR (International Special Committee on Radio Interference) emission requirements.

When possible, electrical equipment should not be used when adjacent to other electrical equipment. If adjacent use is necessary, the equipment should be observed to verify normal operation in the configuration in which it will be used.

When connecting the components, use only the cables supplied with the products. Failure to do so may result in increased electromagnetic emissions or reduced immunity to external electromagnetic emissions.

Ensure your products are properly maintained through periodic maintenance.

If you suspect equipment malfunction or failure, discontinue using the products and contact Planmeca Technical Support immediately. Do not attempt to make any repairs on the products.

Read and comply with all safety, warning, and instructional labels on the products.

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6 MANAGING PATIENTS IN PLANMECA ROMEXIS

For instructions see Planmeca Romexis (10014593) or Planmeca FIT solution User's manual (10033946).

7 IMPORT FOR MILLING

For instructions see Planmeca Romexis (10014593) or Planmeca FIT solution User's manual (10033946).

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8 OPERATING THE MILLING UNIT

8.1 Pending jobs

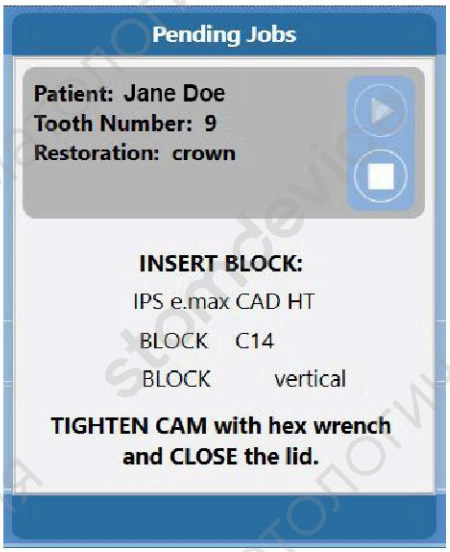


The *Pending Jobs* is the default screen.

NOTE

Always wait until the lid lights turn green before making any selections on the touch screen.

1. Scroll to find the desired restoration by dragging a finger up and down the restoration list. Touch the desired job to select it.



2. The system opens the lid and prompts you to insert the block that matches the material selected in the Design software.

NOTE

To return to the case list touch the Stop button.

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8.2 Inserting blocks

Blocks can be inserted vertically or horizontally. The *Insert Block* screen specifies the block orientation. Notice that the notches face right in the examples below. If the notch is pointing to the left, you will not be able to insert the block. Round blocks use the vertical orientation of the mandrel.

NOTE

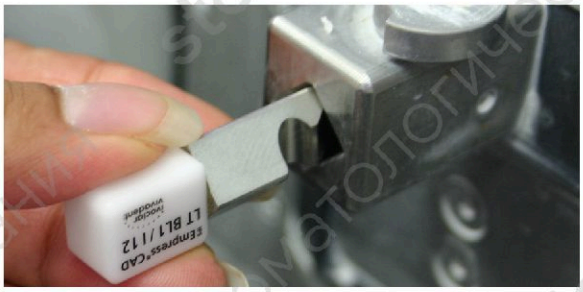
The mandrel is the metal piece of the restoration block that is inserted into the milling unit to hold the block steady during milling.

8.2.1 Horizontal orientation

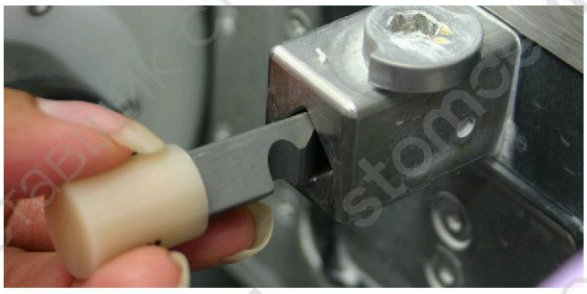


For the horizontal orientation, the wide side of the rectangular block faces up, with the mandrel notch points to the top right. This side will usually have the printed label. Note the position in the picture.

8.2.2 Vertical orientation



For the vertical orientation, the narrow side of the rectangular block faces up, with the mandrel notch points to the bottom right.



The round blocks are inserted with vertical orientation.



Insert the Mandrel T-Handle into the cam and turn 180 degrees counter-clockwise to loosen the cam.

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Insert the block into the correct position and lock the block in place by tightening the cam.

8.3 Composite block defoaming solution



Composite Block Defoaming Solution is used with Paradigm blocks. Due to the nature of the composite material when milled, it is necessary to use this solution every time you mill with the MZ100 block. Without the defoaming solution, the milling fluid may foam and overflow.

1. After inserting the Ivoclar Vivadent Telio CAD block into the milling chamber, shake the bottle of defoaming solution and position it over the chamber.
2. Press down once to release the solution directly into the milling chamber.
3. Close the chamber and begin the milling process as explained below.

8.4 Zirlux FC2 scale factor

See the manufacturer's Instructions for Use provided with the Zirlux FC2 blocks for processing instructions.

Zirconia shrinks in the sintering oven. There are numbers on the side of the box that the blocks come in. You must keep this box with the blocks. Do not mix blocks from different boxes. Each box can have a different amount of shrinking. The milling unit asks for the Scale Factor before a Zirlux FC2 is milled. The system will increase the size of the restoration according to this number. This means you cannot test the fit of the restoration before sintering.

NOTE

It is necessary to clean the milling unit and change the water before milling Zirlux FC2. If the zirconia is contaminated with other materials, it will turn green when sintered. Cleaning after milling is recommended because the zirconia acts as a thickening agent with the water.

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8.5 Starting milling

Milling is an automated process that varies in length of time based on the restoration data.

1. After inserting the block, close the lid and wait for the lid lights to turn green.

   The system checks the positioning of the block and begins generating the toolpath.

   You may wait a few minutes for the toolpath to be generated and then see the milling time in the Time Remaining field.

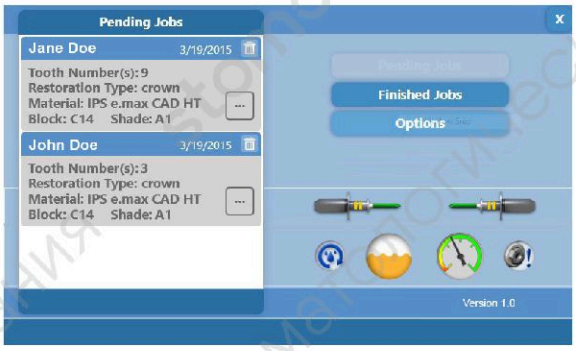
NOTE

See the Troubleshooting section for assistance if you experience a problem generating a tool path or if the milling unit times out.

   After the milling process is complete, the lid automatically opens.

2. Remove the restoration and any debris and close the lid.

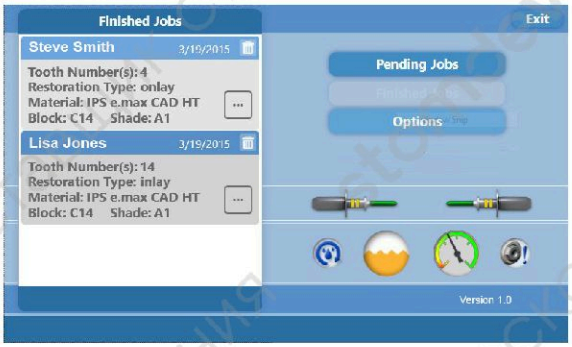
8.6 Finished jobs



Previously finished jobs can be milled again if desired.

1. On the main screen, touch Finished Jobs.

   The Finished Jobs list appears.



2. Touch the desired job to select it.
3. Touch the Play button to start the job or the Stop button to return to the case list.

   You are prompted to insert the appropriate block. Milling continues as usual.

8.7 Deleting jobs



Click the trash can button next to a job to delete it. Deleted jobs cannot be recovered on the milling unit, but can be resent from the design software.

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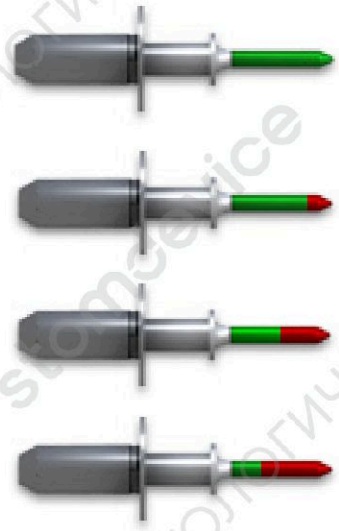
8.8 Automatic tool changer

The milling unit's automated tool changer holds an array of grinding tools. The tool changer switches between grinding tools as the milling task demands.

The main screens display a graphic that indicates the status and type of tool in each spindle.

Tool Type	Tool Stripe Color
Ellipsoidal	Yellow
Tapered	White
Conical	Blue

8.8.1 Tool status



The color of the tool tip changes based on the number of minutes used in milling.



Change the tool when it turns red.

To fill the tool changer, exchange tool shapes, or to replace broken tools see section 8.8.3 "Replacing / inserting tools" on page 18 for instructions.

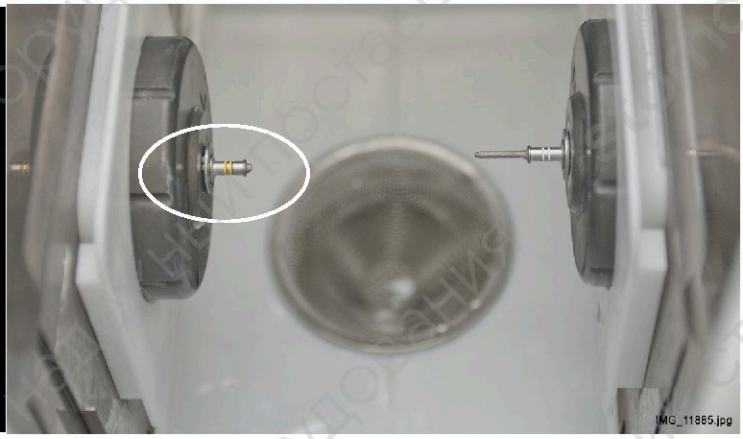
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8.8.2 Broken tools and restoration inspection

If a conical tool breaks halfway instead of at the shoulder, the broken tool may not be detected right away. If the broken tool continues to mill, it can cause damage or put black marks on the restoration.





By default, the new Restoration Inspection feature is activated.

If a tool breaks:

The lid lights turn blue and the lid pops open

The operator assesses the restoration and closes the lid

Once the lid is closed, a new message displays.

If the restoration has black marks or has come off of the mandrel, click No. The lid pops open. Remove the block. Select the job to restart milling. The system will prompt you to insert a new block at the beginning of the restarted milling process.

To continue milling with a new tool, click **Yes**.

To deactivate this feature, contact Customer Support.

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8.8.3 Replacing / inserting tools



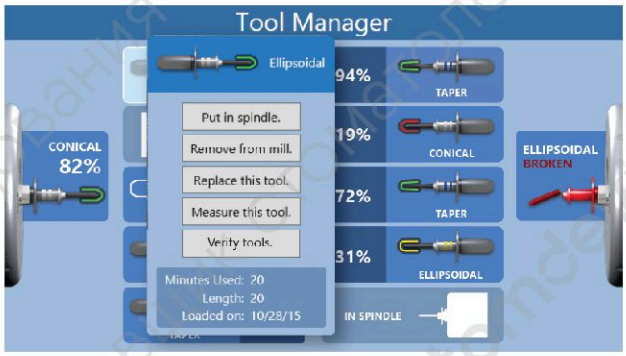
If a needed tool is not already in the tool changer, the message *Tool(s) not available* will appear.

The reasons for replacing a tool include:

- Tool(s) needed for the restoration are not in the tool changer.
- Fill empty slots in tool changer.
- Tool in spindle is broken.
- Tool is too worn down to use.

1. To replace the tool on the main screen, touch **Options**.
2. Touch **Tool Manager**.
3. Touch the desired tool or empty slot to see more information and options.

   The tool or empty slot changes color when selected.
4. Select the desired option and follow the on-screen instructions.



   - Put in Spindle - move a tool from the tool changer to the spindle
   - Put tool away - move a tool from the spindle to the tool changer
   - Remove from the milling unit - take tool out of the milling unit and leave this spot empty
   - Replace this tool - remove this tool from the milling unit and replace with a new one
   - Measure this tool - calculate the length of the tool
   - Verify tools - displays screen to visually inspect all tools and change tool types in the software if needed

   When placing a new tool in the collet, ensure it is pushed all the way in (fully seated). The system measures new tools and suggests a tool shape. Select a different tool type if necessary.
5. Close the lid when finished.

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9 TROUBLESHOOTING/REPAIR

If you have questions, please contact Planmeca Customer Support.

Symptom	Probable cause	Corrective action
Milling unit does not turn ON	Power cable unplugged	Verify power cable is plugged into a live AC outlet.
	Power supply switch turned OFF	Set power supply rocker switch at rear of milling unit to ON position.
	Faulty ON/OFF switch	Call Customer Support.
Block orientation on milling unit incorrect.	Dirty block orientation sensor	Using a small/long object, push very gently on the sensor switch two or three times.
Pump making fast thumping noise.	Dirty tank	Clean the tank. You may also need to clean the collets.
Air failure message 	Loss of air pressure	Ensure there is power to the office compressor.
	Air line loose	Secure air line from compressor to mill.
Fluid Level Low Message	Low water supply	Fill tank with water.
	Faulty sensors	Clean or replace sensors (Call Customer Support)
Tool stuck in collet	Collet rusty or caked with ceramics	Remove tools manually. Done in the maintenance/command screen on the milling unit. (Call Customer Support for assistance).
	Tool jammed due to air pressure	Verify the supply air pressure 50 psig. Verify the pressure multiplier is maxed out. i.e. the adjustment knob is turned fully clockwise this doubles the pressure to 100 psig.
Not generating tool path	Incomplete information from the Job Server	Restart the milling unit.
Milling is not completing on the facial surface of an anterior tooth	Restoration takes longer than normal	On the design software, change the block selection to Multi Block, but be sure to select the same block size. You can then insert a standard Empress LT or HT block of the same size. The milling unit makes multiple passes on Multi blocks while other materials use a single pass.

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10 PREVENTIVE MAINTENANCE / CLEANING

Cleaning the chamber and replacing milling fluid are required to ensure proper operation of the milling unit.

High volume offices should clean daily. For most offices weekly cleaning is sufficient.

NOTE

When e.max or zirconia blocks are used the milling unit must be cleaned more often.



WARNING

Operating the milling unit with insufficient milling fluid will damage the milling unit, void your warranty, and destroy the restoration that is being milled. Personal injury from the milling unit overheating may result from inadequate milling fluid.

10.1 Cleaning fluid tank



When the tank is scheduled to be cleaned the **Clean Fluid Tank** icon turns red.

To see how many milling hours are estimated before the tank needs to be cleaned touch the icon at any time.

1. Touch and hold the **Clean Fluid Tank** icon.

   A message appears showing the number of hours remaining before a scheduled cleaning is needed.
2. Touch **Next** to continue.

   Follow the on-screen instructions.

The tank, floats, and strainer should be cleaned once a week to prevent mold growth or build-up of ceramic material and for optimal circulation. High volume offices need to clean the strainer and fluid tank more frequently.

NOTE

Dirty tank floats and strainer will affect the fluid pressure of the milling unit and not allow the milling unit to work properly.

10.2 Refilling milling unit tank



The water level icon shows when the water level is too low to continue milling.

Refill the tank before starting your next job.

1. Slowly pour one gallon of water into the chamber and watch the fill indicator. Stop when it blinks blue.
2. Add 90 ml (3 ounces) of milling coolant.

   Continue with the normal milling procedure.

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10.3 Maintenance before Zirlux FC2 milling

It is necessary to clean the milling unit and change the water before milling Zirlux FC2. If the zirconia is contaminated with other materials, it will turn green when sintered. Cleaning after milling is recommended because the zirconia acts as a thickening agent with the water.

10.4 Spindle cap and collet cleaning



Cleaning Cycle: As Needed

Over time, residue from the milling process may build up in the spindle caps and/or on the collet. This inhibits coolant delivery and/or reduces the spindle's tool holding capability. Clean the collets and spindle caps when the icon turns red or the tools "walk" (do not stay flush with the spindle) during a restoration. Replace the fluid regularly to reduce residue buildup.

The Collet Cleaning icon turns red when the collets or spindle caps are scheduled to be cleaned. Touch the icon at any time to see how many milling hours are estimated before they need to be cleaned.

To proceed with cleaning:

1. Click **Next**.
2. Select the **Guided** or **Advanced** wizard.
3. Follow the on-screen instructions.
4. Close the lid when finished.

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11 TECHNICAL SPECIFICATIONS

The components use standard electrical current and do not need to be attached to a water supply or drain.

Model type	Planmeca PlanMill 40 S
Electrical ratings:	100-240 Vac, 1000 W, 50-60 Hz
Air requirements:	3,5 - 9 bar (50 - 130 psi), 60 l/min (2 cfm) filtered, dry air
Data connection requirements:	Cat5 Ethernet cabling
Storage conditions	-20°C to 60°C (-4°F to 140°F)
	5% to 95% RH “non-condensing”
Operating conditions	Indoor use only
	5°C to 40°C (41°F to 104°F)
Transient overvoltage category	II per IEC 60364
Maximum altitude	2,000 m (6,562 ft)
Maximum 80% non-condensing relative humidity for temperatures up to 31 °C (88 °F)	
Pollution degree	2
Dimensions:	
	Height 445 mm (17.5 in.)
	Width 661 mm (26 in.)
	Depth 508 mm (20 in.)
Minimum clearance	Sides: 2 in.; Rear: 1 in.; Top: 12 in.
Weight:	77 kg (170 lb.)

11.1 Applicable standards

Electrical and Mechanical Safety	UL 61010-1:2015, 3rd Edition
	CSA C22.2 No 61010-1:2012, 3rd Edition
	IEC/EN 61010-1:2010, 3rd Edition
EMC	IEC/EN 61326
Packaging and Environmental	ISTA 3 Series

11.1.1 Additional standards

ISO 14971:2007
EN ISO 14971:2012
EN ISO 13485:2012
ISO 13485: 2016

European Directive
2006/42/EC for Machinery
2004/108/EC for EMC
2002/96/EC for WEEE
2011/65/EU for RoHS

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11.2 Approvals

International	CB Scheme Test Certificate (UL)
Quality System Certifications	ISO 13485 Registered Firm
	Japan GMP
North America	Product Safety Mark (NRTL) - UL C/US

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12 DISPOSAL

CAUTION

Comply with all applicable regulations when disposing of waste materials from the Planmeca products.



In order to reduce the environmental load over the product's entire life cycle, Planmeca's products are designed to be as safe as possible to manufacture, use and dispose of.

Parts which can be recycled should always be taken to the appropriate processing centres, after hazardous waste has been removed. Disposal of obsolete device is the responsibility of the possessor.

All parts and components containing hazardous materials, such as oil and heavy metals, must be disposed of in accordance with local and national waste legislation and instructions issued by the environmental authorities. The risks involved and the necessary precautions must be taken into account when handling waste products. For more detailed information consult your Planmeca representative.

Batteries must be disposed of following the requirements of Directive 2006/66/EEC and in accordance with waste legislation and instruction issued by the environmental authorities.

This product must NOT be disposed of with other waste. It is the user's responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor, or by returning it to Planmeca for reprocessing. For more information about where you can send your waste equipment for recycling, please contact your local city office or Planmeca.

This product must NOT be disposed of with other waste. It is the user's responsibility to dispose of their waste electrical and electronic equipment by handing it over to an approved reprocessor, or by returning it to Planmeca for reprocessing. For more information about where you can send your waste equipment for recycling, please contact your local city office or Planmeca.

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