

# PrograMill Base

Operating Instructions





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# 1 About this Document

These Operating Instructions will familiarize you with the PrograMill Base features. The PrograMill Base will be referred to as “base cabinet” from now on.

This product is a cabinet for accessories, tools and discs / blocks from the PrograMill milling systems.

The Operating Instructions are an integral part of the product. They describe the safe and correct use in all operating processes.

Improper use can be dangerous. Please observe the relevant safety instructions and read the Operating Instructions carefully.

These Operating Instructions only apply together with the Operating Instructions from the milling systems PrograMill PM3, PM5 and PM7 (“Supporting documents”, page 7). Read the instructions carefully before using PrograMill Base, in particular the chapter regarding safety instructions and warnings.

Should you lose these Operating Instructions, you can download them from [www.ivoclarvivadent.com](http://www.ivoclarvivadent.com).



For all types of technical questions, please contact your authorized service partner.

## 1.1 Target groups

Target group	Duties
Operator	<ul style="list-style-type: none"> <li>• Keep these Operating Instructions available at the place where the unit is operated, also for future use.</li> <li>• Request personnel read and observe these instructions and the applicable documents included. This applies in particular for the safety instructions and warnings (“Safety”, page 8).</li> <li>• Observe additional product-related stipulations and regulations.</li> </ul>
Dental technician	<ul style="list-style-type: none"> <li>• Read and observe these Operating Instructions and the applicable documents, in particular safety instructions and warnings (“Safety”, page 8).</li> </ul>
Qualified dental staff	
CNC technician	
Authorized Ivoclar Vivadent service partner	




## 1.2 Signs and symbols

### 1.2.1 Warnings

Warnings are used in these Operating Instructions to warn you of a risk of injury to persons and/or damage to property.

1. Always read and observe these warnings.
2. Follow all measures marked with the warning symbol and warning word.

Depending on the severity and probability of the danger, the following warning levels are distinguished:

Warning symbol	Warning word	Danger level	Consequences resulting from non-observance
	DANGER	Immediate imminent danger	Death, severe personal injury
	WARNING	Potential danger	Death, severe personal injury
	CAUTION	Potential danger	Slight personal injury
-	NOTICE	Potential danger	Damage to property

Clarification of the structure of a warning:

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 **WARNING! Name of source of danger, cause of hazard or type of risk.**

Consequences of non-compliance with instructions.

- ▶ Action in order to avoid danger.
- 

Hazard example:

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 **WARNING! Risk of injury from the PrograMill Base tipping over or falling down.**

Crushing extremities.

Damage to the PrograMill Base.

- ▶ Only use suitable means of transportation (e.g. fork lift trucks, capacity > 500 kg).
  - ▶ Secure the PrograMill Base with suitable transport straps to prevent falling (e.g. tension belts).
  - ▶ Avoid impact, jerky movements and vibration during transportation.
  - ▶ Stay well clear of suspended loads or raised parts.
-

### 1.2.2 Signs and symbols

Symbol	Significance
	Additional information, e.g. for better understanding, for simplifying workflows or for further information
	Prerequisite which must be followed before the subsequent actions can be performed
	Individual steps which you must perform
1., 2.	Several steps that you must perform in the given order
	The result indication of an operation step or several steps, for success control

### 1.3 Revision and validity

Version	Date	Amendments to the previous version
1.0	30-11-2017	Initial creation date

### 1.4 Supporting documents



You can obtain information about the applicable documents from your local sales partner or in the download area of Ivoclar Vivadent at: <http://www.ivoclarvivadent.com>.

Document	Clarification
Checklist for your PrograMill system	Information about requirements that must be observed for transport, installation and use of the PrograMill system
Operating Instructions PrograMill PM3	Instructions on operating the milling machine PrograMill PM3 and the PrograMill Tank
Operating Instructions PrograMill PM5	Instructions on operating the milling machine PrograMill PM5 and the PrograMill Tank
Operating Instructions PrograMill PM7	Instructions on operating the milling machine PrograMill PM7 and the PrograMill Tank
Operating Instructions PrograMill Suction Unit	Important information about the use of the PrograMill Suction Unit (optional)
Safety Data Sheet PrograMill Fluid	Important information about the use of the PrograMill Fluid coolant concentrate

## 2 Safety

These Operating Instructions only apply together with the Operating Instructions from the milling systems PrograMill PM3, PM5 and PM7 ("Supporting documents", page 7). Read the instructions carefully before using PrograMill Base, in particular the chapter regarding safety instructions and warnings.

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### **WARNING! Improper use of the product.**

Danger to the user.

- ▶ The safety chapter contains important information on the safety of the product: Please read thoroughly prior to use.
- 



The product is built according to state-of-the-art technology and recognized safety regulations. Nevertheless, its use could constitute a risk of injury of the user or third party or possibly cause impairment to the product and other property.

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### 2.1 Intended use

PrograMill Base is designed for use in the dental technical field as a place to stand the PrograMill PM3, PM5 or PM7 milling systems and store accessories, cleaning materials, tools and discs / blocks. Use the PrograMill Base exclusively for this purpose.

In the case of damage caused by improper use or failure to observe the Operating Instructions, all liability and warranty claims are void.

#### 2.1.1 Potential improper use

Equipment, accessories and components whose weight exceeds the load-bearing capacity of PrograMill Base and built-in pull-out shelf must not be placed on or in PrograMill Base.

The following is considered as misuse of the system:

- Non-compliance with the intended use, intended operator specifications or intended environment
- Modifications, maintenance and repairs without the permission of Ivoclar Vivadent
- Operation with unsuitable parameters

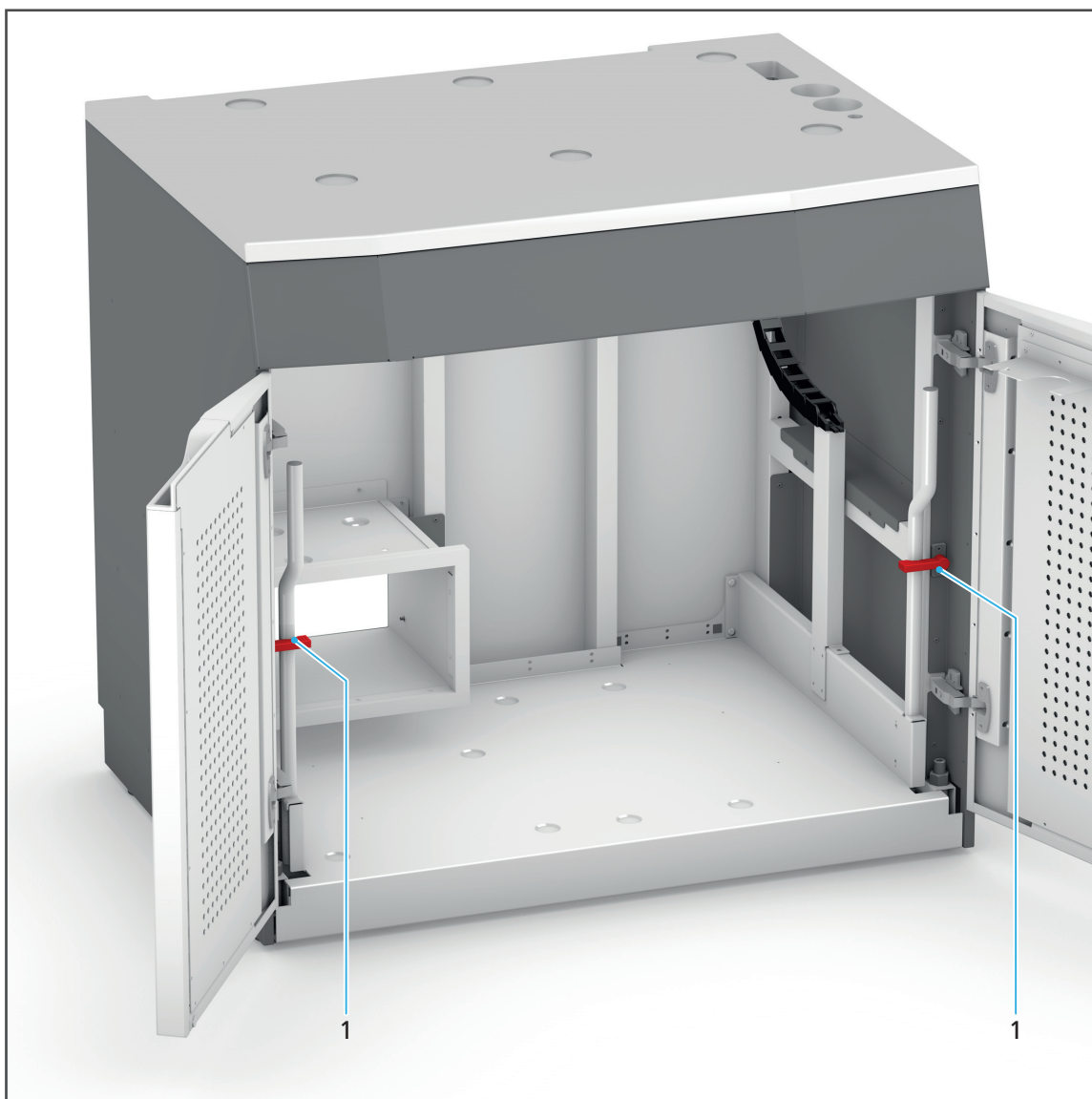
Improper use of the PrograMill Base can lead to the following:

- Danger for operating personnel
- Impairment of the operability of the PrograMill Base

Ivoclar Vivadent assumes no liability for damage resulting from improper use.



## 2.2 Hazardous areas on the PrograMill Base



No.	Hazardous areas	Safety measures	Protective effect
1	Pull-out shelf	Lock on the handles	Secures against unintentional movement when doors are opened or work is carried out on the PrograMill milling machine or PrograMill Base.

### 2.3 Safety instructions for individual operating phases

#### 2.3.1 Transportation

- ▶ Only transport the PrograMill Base according to the description in these Operating Instructions (“Transportation and Assembly”, page 17).

#### 2.3.2 Use

- ▶ Keep unauthorized persons, such as patients, children and animals, away from the product.
- ▶ Do not use a damaged, non-functioning product or accessories, instead notify the authorized service partner.
- ▶ To ensure the stability of the PrograMill system, only operate the CNC milling machine with a crossbeam mounted on the PrograMill Base.

#### 2.3.3 Improper maintenance, modifications and repairs

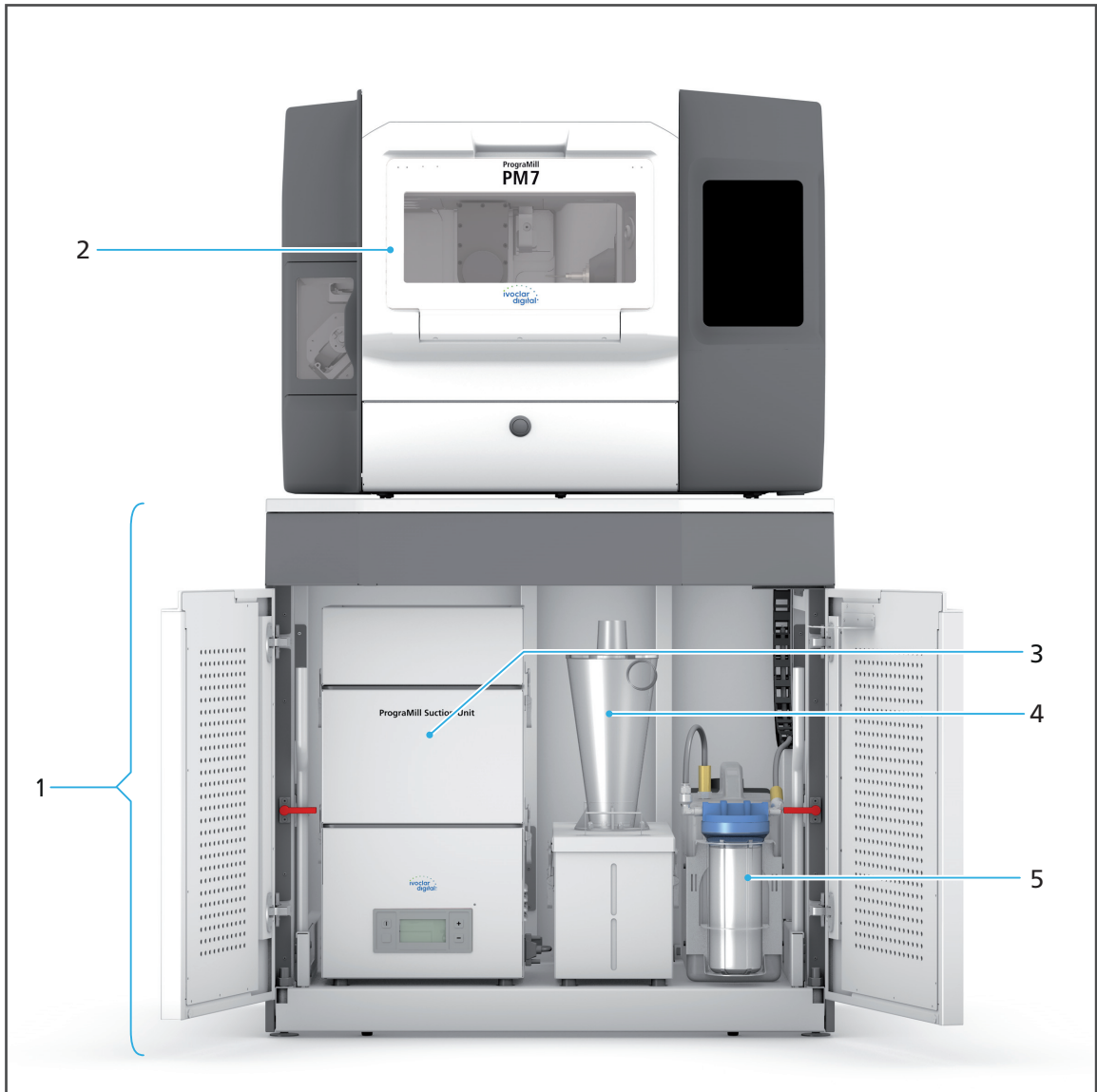
Improper service and improper repairs or modifications will endanger users and result in damage to the product.

Should you carry out any maintenance to the system or modifications to the product without prior written consent by an authorized service partner, all warranty claims are void.

- ▶ Maintenance and repair of damaged safety equipment or other parts of the PrograMill Base should only be performed by an authorized Ivoclar Vivadent service partner.

# 3 Design and Function

## 3.1 Complete system



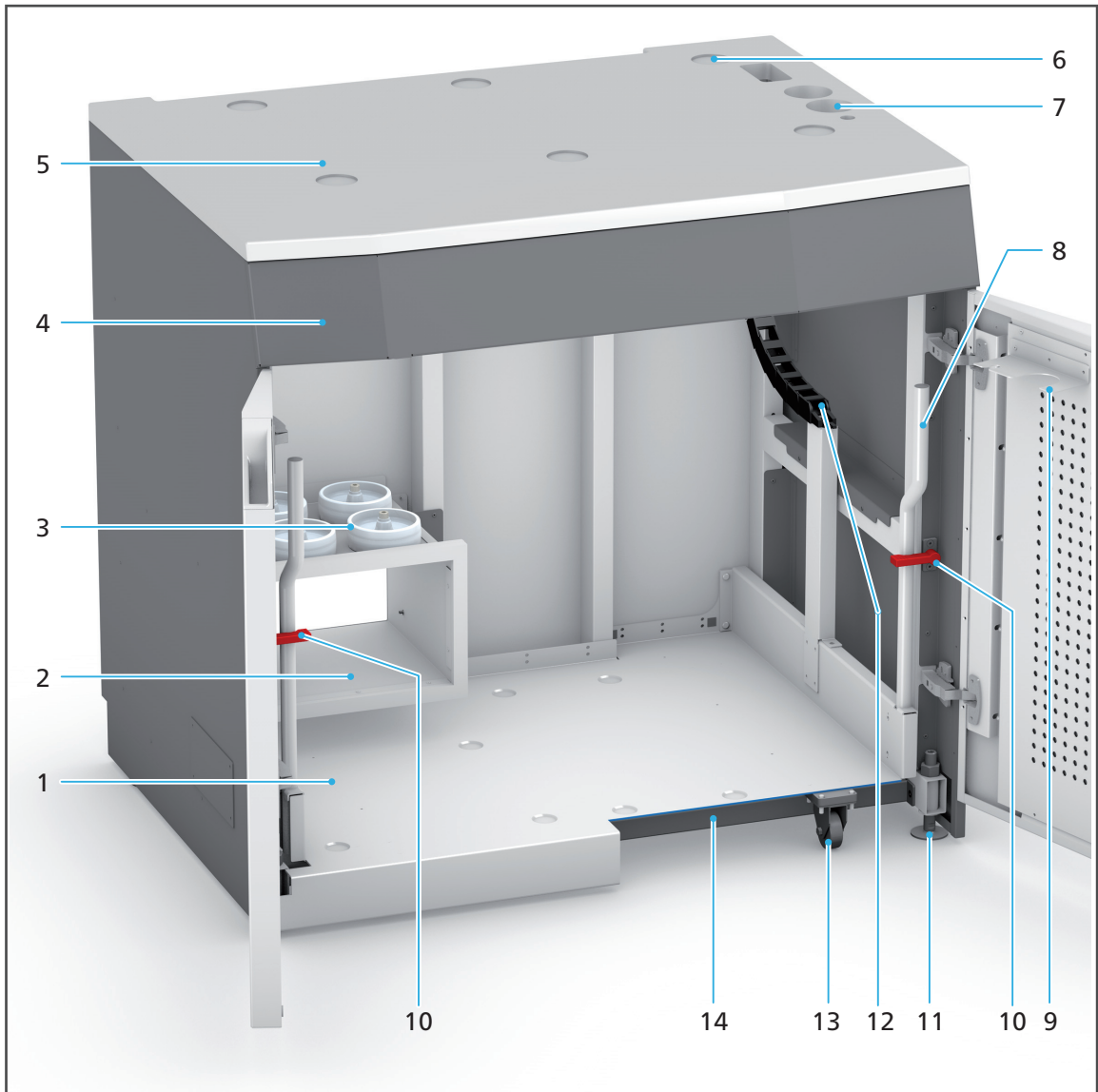
## Design and Function

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No.	Description	Function
1	PrograMill Base cabinet	<ul style="list-style-type: none"> <li>• Installation site for the milling machine</li> <li>• Storage of accessories, tools and discs / blocks</li> </ul>
2	CNC milling machine PrograMill PM7 (exemplary for PrograMill series including PM3, PM5, PM7)	Milling of discs / blocks
3	PrograMill Suction Unit (optional)	Extraction of milling dust, milling vapours and other dental material particles in dry operation
4	PrograMill Suction Unit separator (optional)	
5	PrograMill Tank and Filter	Wet operation: <ul style="list-style-type: none"> <li>• Part of the coolant fluid circuit, intake and delivery of the coolant fluid</li> <li>• Filter for the used coolant fluid before it is (re-)used in the milling chamber</li> </ul>

### 3.2 Overview of PrograMill Base

The PrograMill Base has been specifically designed to meet the needs of the PrograMill systems. It has sufficient load-bearing strength to support the PrograMill milling machines and their accessories and is designed to store discs / blocks and tools.



## Design and Function

No.	Description	Function
1	Pull-out shelf with indentations (in the illustration part of the front panel has been faded out for better visibility)	<ul style="list-style-type: none"> <li>• Holds the PrograMill Suction Unit</li> <li>• The indentations ensure proper positioning of PrograMill Suction Unit</li> </ul>
2	Exhaust air outlet	Removal of exhaust air to the PrograMill Suction Unit
3	Service wheels	Only for the service partner
4	Drawer	Storage of tools, discs / blocks and cleaning agents
5	Storage space	Position for the milling machine
6	Indentations for device feet	Secure positioning of the milling machine on the PrograMill Base
7	Tube and cable access	Cable and tube guides
8	Handle	Pulling the shelf out and pushing it back in
9	Tube holder	The water outlet tube and the water inlet tube are attached in the tube holder during cleaning and maintenance work
10	Lock	Securing the pull-out shelf against unwanted movement
11	Device feet	Height adjustment of the PrograMill Base cabinet
12	Energy chain	<ul style="list-style-type: none"> <li>• Laying cables and tubes</li> <li>• Kink protection for cables and tubes</li> </ul>
13	Wheels	Pulling the shelf out and pushing it back in
14	Crossbeam	Ensures the stability of the PrograMill system

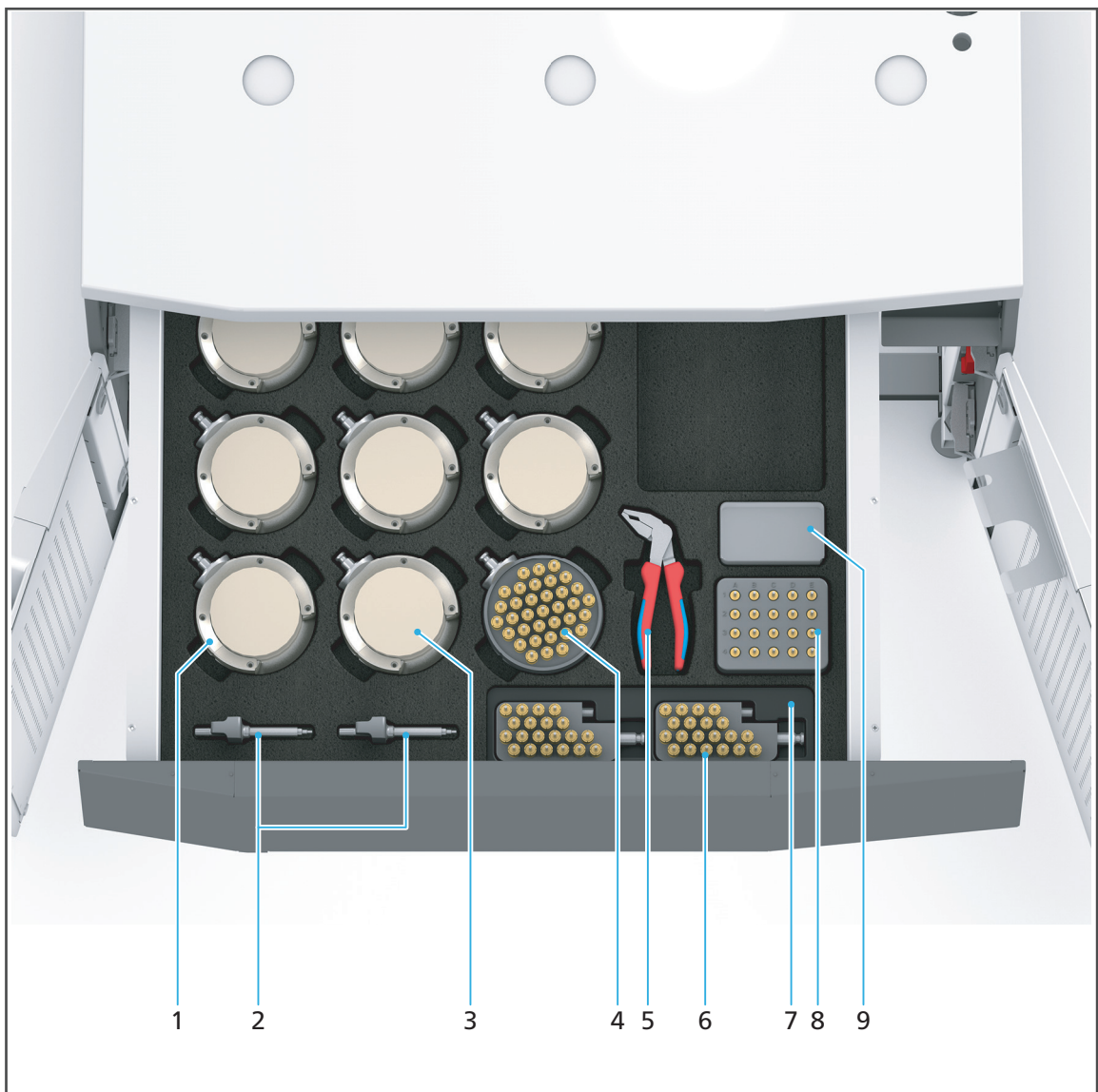
### 3.3 Suggestion for the placement of items within the drawer



You can store the accessories for your PrograMill system in the drawer of the PrograMill Base cabinet as follows:

The following picture shows an assembly example for the components supplied with the PrograMill PM7 milling machine.

Further information on the scope of delivery of your respective PrograMill milling machine can be found in the operating instructions for the device ("Supporting documents", page 7).



## Design and Function

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No.	Description
1	PrograMill disc holder for PM3, PM5, PM7
2	Torque wrench <ul style="list-style-type: none"><li>• 0.45 Nm for all zirconium oxide and wax materials</li><li>• 2.8 Nm for all PMMA materials and non-precious metals</li></ul>
3	Disc
4	Tool disc with tools for the milling machine without interchangeable tool magazine (optional, estimated to be available from Q4/2018)
5	PrograMill tool pliers
6	Tool magazine (optional, available for PrograMill PM7, use supplied foam insert, see "Delivery form", page 28)
7	Foam insert for tool magazine (only for PrograMill PM7)
8	Used Tool Library with labelled matrix for accommodating used tools
9	Spindle maintenance set



## 4 Transportation and Assembly



Transportation and assembly are carried out by your sales or service partner and a Digital Instructor as part of your PrograMill System Instruction.

**Do not perform the tasks described below alone!**

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### 4.1 Choosing the location site

Before setting up the PrograMill Base, select a suitable location site for your device.

Make sure the following requirements are complied with:

- ▶ Place the PrograMill Base on a stable, level, non-slip and clean surface (load bearing capacity min. 500 kg).
- 



Further information on choosing a suitable site can be found in the operating instructions for the PrograMill milling machine and in the checklist for your PrograMill system ("Supporting documents", page 7).

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### 4.2 Transportation of the PrograMill Base



**WARNING! Risk of injury from the PrograMill Base tipping over or falling down.**

Crushing of extremities.

Damage to the PrograMill Base.

- ▶ Only use suitable means of transportation (e.g. fork lift trucks, capacity > 500 kg).
  - ▶ Secure the PrograMill Base with suitable transport straps to prevent falling (e.g. tension belts).
  - ▶ Avoid impact, jerky movements and vibration during transportation.
  - ▶ Stay well clear of suspended loads or raised parts.
-

### **⚠ WARNING! Risk of injury due to heavy lifting.**

Injuries to the back due to overloading.

- ▶ Only lift the PrograMill Base with the aid of a fork lift.
- ▶ Unpack the PrograMill Base after transportation.

- ▶ Move the product in its original packaging by means of a fork lift to the defined location site.

## 4.3 Unpacking the PrograMill Base

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### **⚠ WARNING! Risk of injury from heavy lifting, falling over or dropping the PrograMill Base.**

Crushing of extremities.

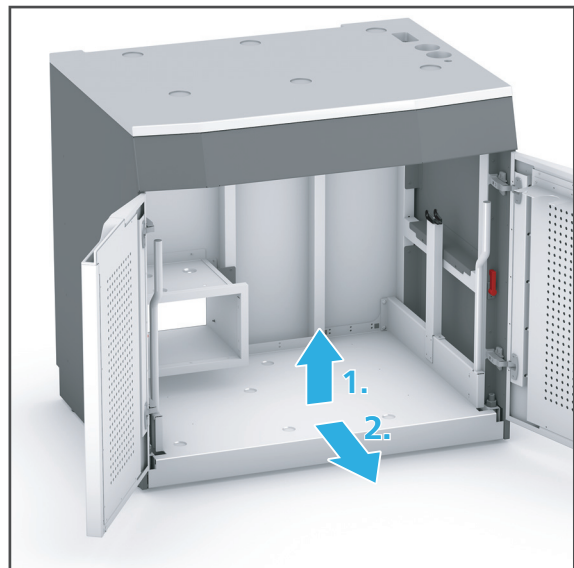
Injuries to the back due to overloading.

- ▶ Lift the PrograMill Base with at least 4 persons from the Euro pallet.

The PrograMill Base is delivered on a Euro pallet.

- Location site selected ("Choosing the location site", page 17)

1. Cut the transport bands with scissors.
2. Remove the transport box.
3. Open the PrograMill Base doors.
4. Open the lock on the handles of the pull-out shelf ("Overview of PrograMill Base", page 13).
5. Lift the pull-out shelf (1). Remove it from the cabinet over the crossbeam (2).
6. Lift the PrograMill Base from the Euro pallet.



## 4.4 Checking delivery contents and condition

1. Unpack the product after delivery ("Unpacking the PrograMill Base", page 18).
2. Check that all contents are complete ("Delivery form", page 28).
3. Check all components for transport damage.
4. Report any transport damage or missing components immediately.

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## 5 Initial Operation



The set-up is carried out by your sales or service partner and a Digital Instructor as part of your PrograMill System instruction.

**Do not perform the tasks described below alone!**

If you need to move the PrograMill system due to renovation or relocation, please contact your sales or service partner first.

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### 5.1 Setting up the PrograMill Base



A set of rolling wheels have been included in the delivery (part (3) in the picture in section "Overview of PrograMill Base", page 13) to make moving the PrograMill Base easier during renovation, cleaning and maintenance work within the laboratory.

In order to move the PrograMill Base using the wheels during later transportation, screw the standing feet out as far as possible so that the rolling wheels can be fitted.

Then screw the standing feet back in so that the weight of the PrograMill Base is no longer supported by the feet, but by the rolling wheels. The PrograMill Base can now be moved using the wheels. After the cabinet has been placed into the correct position, repeat the above steps in reverse order to disassemble the rolling wheels.

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**WARNING! Risk of injury due to the PrograMill Base rolling away or the PrograMill milling machine falling down due to unsecured rolling wheels.**

Crushing of extremities.

Damage to the PrograMill milling machine.

- ▶ Before placing the PrograMill milling machine on top of the PrograMill Base, unscrew the standing feet so that the weight of the machine rests exclusively on the feet, not on the mounted rolling wheels.
  - ▶ Then, disassemble the wheels and store for later use.
- 

**NOTICE! Damage to cables and tubes.**

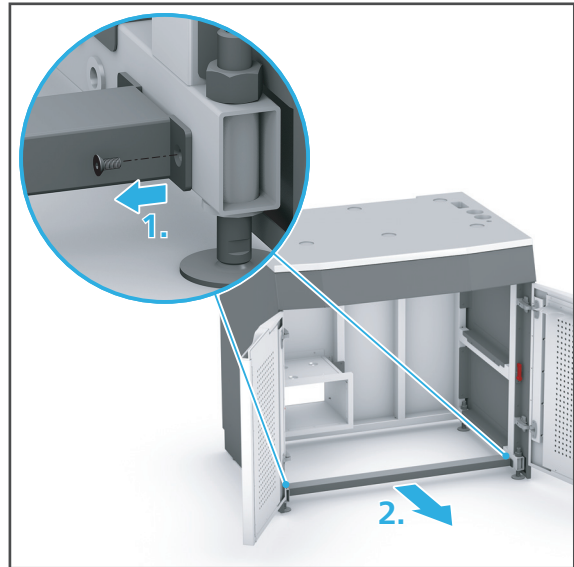
Defective or damaged PrograMill Suction Unit.

- ▶ Adjust the feet so that the distance between the sides of the PrograMill Base and the floor is at least 15 mm.
-

## Initial Operation

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- ☑ Location site selected ("Choosing the location site", page 17)
  - ☑ PrograMill Base unpacked ("Unpacking the PrograMill Base", page 18)
1. Set up the PrograMill Base in the chosen location site.
  2. Adjust the height of the feet using the Allen key according to the above specifications.
  3. Use the spirit level to check whether PrograMill Base is perfectly level.
  4. Loosen the Allen screws (1) and remove the crossbeam (2).



## 5.2 Placing the PrograMill milling machine onto the PrograMill Base

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**⚠ WARNING! Risk of injury from the PrograMill Base tipping over or falling down.**

Crushing of extremities.

Damage to the PrograMill milling machine.

- ▶ Only use suitable means of transportation (e.g. fork lift trucks, capacity > 500 kg).
- ▶ Secure the PrograMill milling machine with suitable transport straps to prevent falling (e.g. tension belts).
- ▶ Avoid impact, jerky movements and vibration during transportation.
- ▶ Stay well clear of suspended loads or raised parts.
- ▶ Always move the PrograMill milling machine from the fork lift truck to the location site with at least 6 people (weight of the milling machine approx. 210 kg).

**⚠ WARNING! Risk of injury due to heavy lifting.**

Injuries to the back due to overloading.

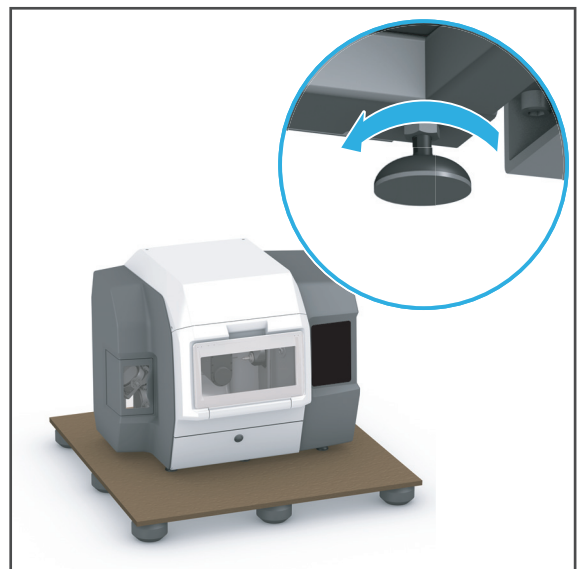
- ▶ Only lift the PrograMill milling machine with the aid of a fork lift truck.



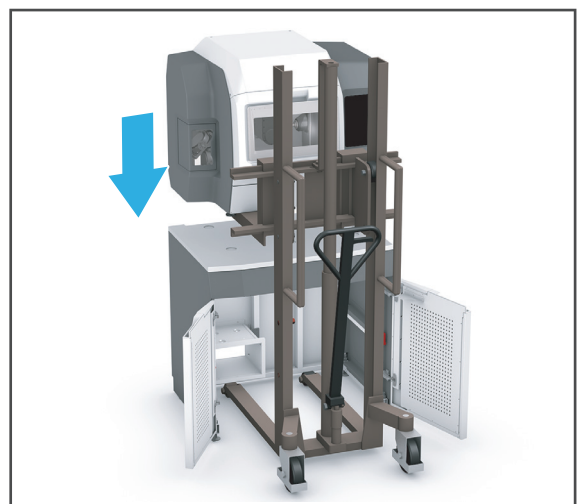
Further information on unpacking your PrograMill milling machine can be found in the operating instructions for the device ("Supporting documents", page 7).

- ☑ Location site and workplace freely accessible
- ☑ No accessories in the PrograMill Base
- ☑ No tubes or cables on, under or in the PrograMill Base
- ☑ Pull-out shelf from the PrograMill Base dismantled ("Unpacking the PrograMill Base", page 18)
- ☑ Cross beam from the PrograMill Base dismantled ("Setting up the PrograMill Base", page 19)

1. Screw out the feet of the PrograMill milling machine as far as possible with an open-ended spanner.
2. Drive the fork lift underneath the PrograMill milling machine.
3. Raise the PrograMill milling machine from the base plate of the transport box using the fork lift.

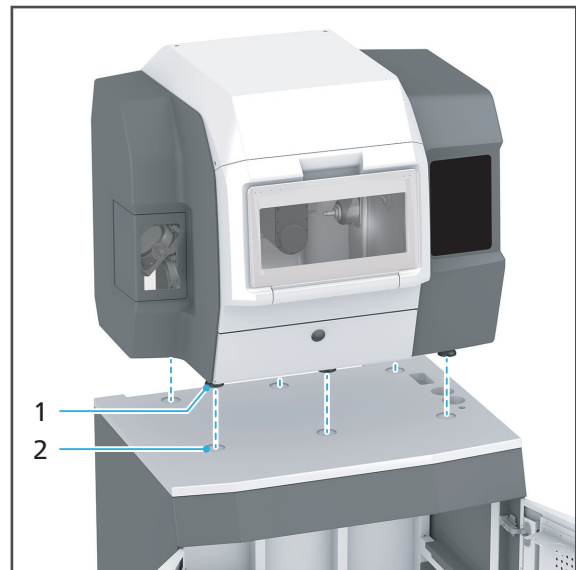


4. Position the PrograMill milling machine onto the PrograMill Base using the fork lift.

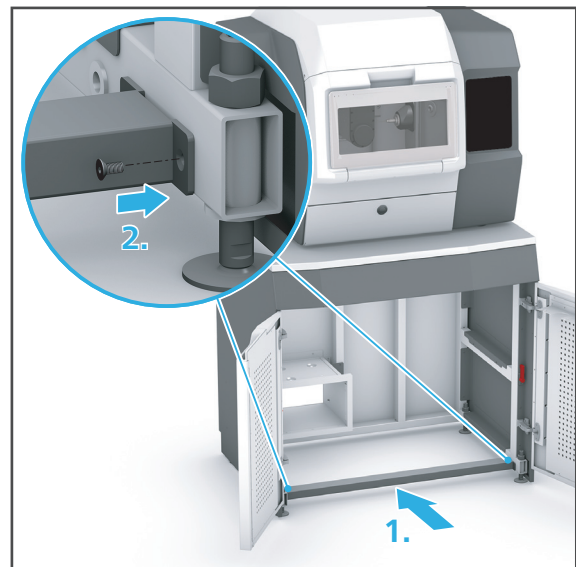


## Initial Operation

5. Position the milling machine on the cabinet so that the feet (1) can be placed in the indentations (2) provided on the PrograMill Base cabinet.
6. Lower the PrograMill milling machine onto the PrograMill Base.



7. Adjust the feet of the PrograMill milling machine to the required height using an open-ended spanner and use a spirit level to ensure that the device is completely level.
8. Position the device so that there is no interference from other devices and so that it does not interfere with other devices.
9. Insert the crossbeam into the PrograMill Base (1) and screw in tightly with the Allen screws (2).

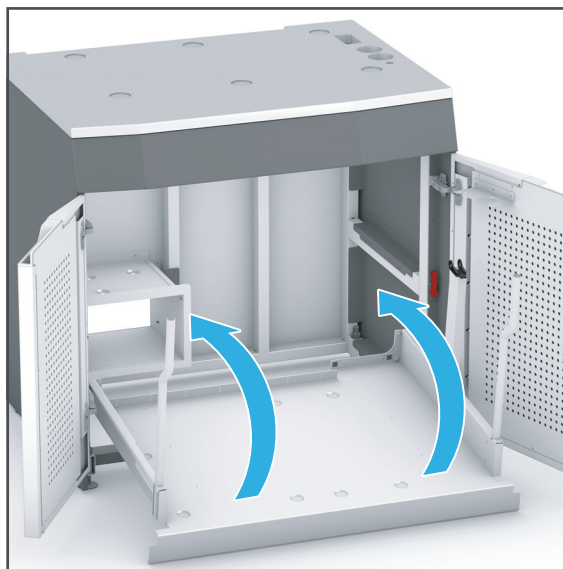


### 5.3 Setting up the PrograMill accessories

The PrograMill Suction Unit and PrograMill Tank are positioned as follows. Observe the corresponding Operating Instructions of the PrograMill Suction Unit and the PrograMill milling machine ("Supporting documents", page 7). When using suction systems from other manufacturers, please refer to their manufacturer's Operating Instructions.

### 5.3.1 Placing the pull-out shelf into the PrograMill Base

1. To place the pull-out shelf into the interior of PrograMill Base, tilt the shelf slightly forward and lift the rear rollers over the crossbeam.
2. Pull the shelf out of the PrograMill Base so that there is sufficient space to insert the PrograMill Suction Unit and Tank.



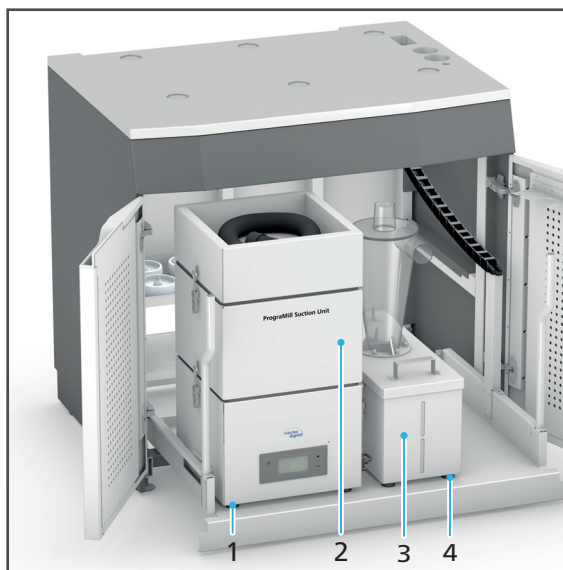
### 5.3.2 Placing the PrograMill Suction Unit onto the pull-out shelf

#### NOTICE! Damage to cables and tubes.

Defective or damaged PrograMill Suction Unit.

- ▶ Before placing the PrograMill Suction Unit onto the shelf, make sure that there are no cables or tubes under or behind the pull-out shelf.
- ▶ When placing the PrograMill Suction Unit, make sure that there are no kinks in the cables or tubes.

1. Position the PrograMill Suction Unit (2) onto the pull-out shelf with the display pointing towards the front so that the unit's feet (1) are placed in the corresponding indentations in the shelf.
2. Position the separator from the PrograMill Suction Unit (3) onto the shelf, to the right of the suction unit (2), and ensure that the separator's feet (4) are placed in the corresponding indentations in the shelf.
3. Connect tubes and cables to the PrograMill Suction Unit (see PrograMill Suction Unit Operating instructions, "Supporting documents", page 7).



### 5.3.3 Placing the PrograMill Tank onto the pull-out shelf

- ▶ Position the PrograMill Tank (1) next to the separator as shown.
- ▶ Connect the tubes to the PrograMill Tank and Filter (see PrograMill milling machine Operating Instructions, "Supporting documents", page 7).



### 5.3.4 Connecting the tubes and cables

- PrograMill milling machine placed onto the PrograMill Base ("Placing the PrograMill milling machine onto the PrograMill Base", page 20)
- PrograMill accessories set up ("Setting up the PrograMill accessories", page 22)
- Cables and tubes connected to the PrograMill Suction Unit and PrograMill Tank / Filter

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**!** Further information on the PrograMill Suction Unit, the PrograMill milling machine and the PrograMill Tank connections can be found in the PrograMill Suction Unit and the PrograMill milling machine Operating Instructions ("Supporting documents", page 7).

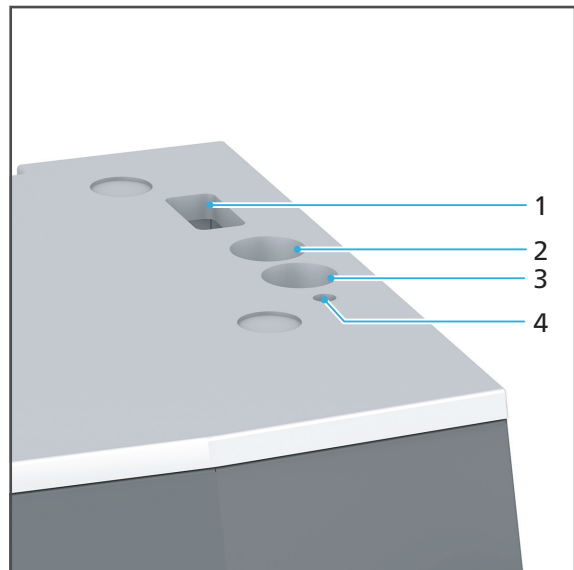
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**!** In the following, the PrograMill Base is shown without the PrograMill milling machine.

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1. Pass the control cable and the cold-device cable from the PrograMill Suction Unit (included in the delivery of the PrograMill Suction Unit) through the energy chain and out through the opening (1).
2. Pass the tube connected to the separator of the PrograMill Suction Unit (2.5 m, included in the delivery of the PrograMill Suction Unit) out through the opening (2) to be connected to the milling machine.
3. Pass the water outlet tube connected to the PrograMill Tank (included in the delivery of the PrograMill milling machine) out through the opening (3) to the outside.
4. Pass the water intake tube connected to the PrograMill Filter (included in the delivery of the PrograMill milling machine) through the energy chain and out through the opening (4).
5. Connect the cables and tubes to the milling machine.
6. Push the pull-out shelf by the handles into the PrograMill Base and fasten the locks.
7. If necessary, place other PrograMill accessories into the PrograMill Base cabinet ("Suggestion for the placement of items within the drawer", page 15).



## 6 Cleaning

- ▶ Perform monthly visual inspection.
- ▶ If necessary remove dust, milling residues etc. with the help of the suction system, a commercial vacuum cleaner or a cloth moistened with tap water (see the PrograMill milling machine Operating Instructions, "Supporting documents", page 7).

## 7 Technical Data

### 7.1 Measurements, weight

Characteristics	Value
<b>Measurements:</b>	
Depth	750 mm
Width	980 mm
Height	930 mm
<b>Weight:</b>	
Weight of the base cabinet	Max. 120 kg
Weight of the base cabinet incl. PrograMill Suction Unit and PrograMill Tank	Max. 185 kg

### 7.2 Ambient conditions



Please observe the environmental conditions of the PrograMill milling machines and the accessories used.

## 8 Appendix

### 8.1 Delivery form

Item description	Number	Item number
PrograMill Base (without device)	1	689971
PrograMill Base inlay	1	689972
Foam insert for tool magazine PrograMill PM7	1	-
Energy chain	1	-
Standard rolling wheels, white	4	-
Allen screws	4	-

### 8.2 Ordering spare parts

1. When ordering spare parts, keep the following information ready:
  - Item number
  - Serial number
2. Contact authorized service partner.







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Original operating instructions

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This device has been developed solely for use in dentistry. Setup and operation should be carried out strictly according to the Operating Instructions. Liability cannot be accepted for damages resulting from misuse or failure to observe the Instructions. The user is solely responsible for testing the apparatus for its suitability for any purpose not explicitly stated in the Instructions.