

S3 Premium

Original

Instructions

Schick GmbH



We are pleased that you have decided in favor of a technically high-quality device from SCHICK and wish you every success and joy in working with your new technical hand-piece. We have compiled these operating instructions to familiarize you with your new device and to provide you with the necessary information for operation and maintenance.

Project data:

Trade name: **Send S3 Premium**

Serial number: Axxx xxx

Type: Dental milling device

Manufacturer: Schick GmbH

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1 About these operating instructions

Before you operate the S3 Premium for the first time, you must read this operating manual.

Pay special attention to the chapter2 "General safety regulations".

1.1 General

These instructions are intended to make it easier for you to get to know the S3 Premium and use its intended applications.

The operating instructions contain important information on how to operate the S3 Premium safely and properly. Your attention helps:

- to avoid dangers
- Reduce repair costs and downtime
- increase the reliability and lifespan of the product

This manual must be read and used by every person who is assigned to work with the S3 Premium.

In addition to these operating instructions, the accident prevention and environmental protection regulations applicable at the place of use must also be observed.

Before each use of the device, the knowledgeable user must convince himself of the functional safety and the proper condition of the device.

1.2 Further documentation

Under www.schick-dental.de you will always find the current version of these operating instructions as well as current information about the product.

1.3 Signs and symbols used

The following signs and symbols are used in these instructions:

- Activity symbol: The text after this symbol describes instructions that are to be carried out in the specified order from top to bottom.
- ✓ Result symbol: The text following this symbol describes the result of an action.



Info icon: Additional information

1.4 Structure of the warnings

warning levels	signal word	Use at...	Possible consequences if the safety information is not observed:
	DANGER	personal injury (imminent danger)	death or most severe injuries!
	WARNING	personal injury (Possibly dangerous situation)	death or serious injuries!
	CAUTION	personal injury	Light or minor injuries!

Tab. 1.1 warning levels

The warnings are structured as follows:

- Pictogram with signal word according to warning level
- Description of the hazard (hazard type)
- Description of the consequences of the hazard (hazard consequences)
- Measures (activities) to prevent the hazard



DANGER!

Type of hazard (text)

Consequences of danger (text)

➤ Security (text)

warning sign Special safety instructions are given at the relevant places. They are marked with the following symbols.



General danger point

This sign is placed in front of activities where there is a risk of personal injury and extensive property damage.

If there is a clear source of danger, one of the following symbols is placed in front of it.



heavy current

This sign indicates activities where there is a risk of electric shock, possibly with fatal consequences.



hand injuries

This symbol stands in front of activities where there is a risk of hand injuries.

1.5 Technical terms and abbreviations used

abbreviation	Meaning

Tab. 1.2used abbreviations

2 General safety regulations

2.1 principles

Use only at the maximum speeds specified by the tool manufacturer. Use only tools intended for the application and performance data of the S3 Premium by the manufacturer/dealer.

Area of application: industry, trade

2.2 Intended Use

The S3 Premium systems are designed exclusively for universal use in the dental laboratory for processing workpieces such as crowns, bridges made of wax, metal or ceramics. Only tools intended for processing such materials may be used.

Use only inside closed rooms.

2.3 Environmental conditions

Permissible ambient temperature range	+5 °C to +40 °C
Permissible up to max. relative humidity	80% (non-condensing)
degree of pollution	2
air pressure	700hPa to 1060hPa
Max Height	2000 m above sea level

Mains voltage fluctuations $\pm 10\%$

2.4 Foreseeable Misuse

System must not be used:

- In a potentially explosive atmosphere
- For medical applications on patients
- No flammable and combustible materials
- Any use other than that intended by the manufacturer is misuse
- Cleaning of the milling spindle with compressed air is not permitted

2.5 Selection and qualification of personnel

Personnel qualification: Apprentices and interns only after instruction by an experienced operator

2.6 Workplaces for the operating personnel

Workplace in the dental laboratory/practice laboratory/dental practice, industry and trade.

2.7 safety devices

The S3 Premium has a display that shows the preset maximum speed. After switching on, the device is limited to a maximum of 50,000 rpm and must be activated by the user for higher speeds up to 80,000 1/min.



Fire protection

No special requirements

2.8 safety signs

Note on the type plate on the control unit.



Meaning

Read the operating instructions in detail before starting up.

2.9 protective measures

Do not wear long hair loose

Personal protective equipment

safety goggles

2.10 safety regulations

General information

Caution!

Risk of injury from pointed and/or rotating tools!

Wear safety glasses.

While transporting

Transport or dispatch only in the original packaging.

During installation

Access to the power supply must not be made more difficult by the installation.

during operation

Operation and operation only with a sufficiently designed extraction system and protective clothing provided.



In anti-clockwise rotation mode, the collet may come loose when using a standard spindle!

maintenance and control work

- according to the operating instructions
- Apprentices and interns only after instruction by an experienced operator

maintenance and repair work

- Only by the manufacturer
- Setting up by trained personnel with specialist knowledge of the respective device class.

Structural changes

Structural changes to the product are not permitted.

2.11 Accesories and customization

The S3 Premium can be equipped with the optionally available ceramic set for processing ceramics under water cooling.



Accessories such as parallel holders or transmission spiders may only be used in the optionally available surveying spindle!

3 scope of delivery

	Art.No.		
S3 Premium cpl.	12500	dust cover	2502
Foot switch (magnetic couplings)	12526		
Foot switch spindle on/off	2560		
Milling spindle with cable	9400/08		

lighththead	2510/4
power cord	2160
Collet chuck key	4115
Counter holding key	6223

4 technical description

4.1 Overview

The S3 Premium is a dental milling device for the production and processing of removable dentures in the dental laboratory.

4.2 functional description

With the S3 Premium, components of removable dentures are parallelized or prepared for a defined insertion direction using a hand-guided milling spindle.

The milling arm, which can be moved freely in three axes, is guided by hand and can be fixed in any position by pressing a button or foot pedal. The router table is height-adjustable and has a magnetic clamping device for the model table.

4.3 interfaces


The S3 Premium has the following interfaces to other machines:

Connection for the S W1 water cooling Art.No. 2990.

4.4 Features of the tools

Only tools with perfect concentricity are to be used. Shank diameter 2.35 mm or 3 mm depending on the collet chuck variant.

4.5 type label

(1)		1. Manufacturer
(2)		2. Type
(3)		3. serial number
(4)		4. power supply
(5)		5. Performance
(6)		6. mains frequency
(7)		7. order/item. No.
(8t)		8. CE marking
(8b)		9. Pictogram: Disposal information
(9)		10. Pictogram: Observe the operating instructions
(10)		11. Pictogram: protection class 2

5 Transport and Storage

5.1 transport

If damage to the packaging is visible when the goods are handed over, please report to the transport company immediately and confirmed in writing. The damage must then be reported to Schick GmbH immediately.

Requirements for the installation site

Devices that have cooled down considerably must be brought to room temperature before being used. Risk of condensation.

5.2 storage

Storage location requirements

In the original packaging, indoors only, protected from moisture.

6 Installation and commissioning

6.1 installation

Necessary tool

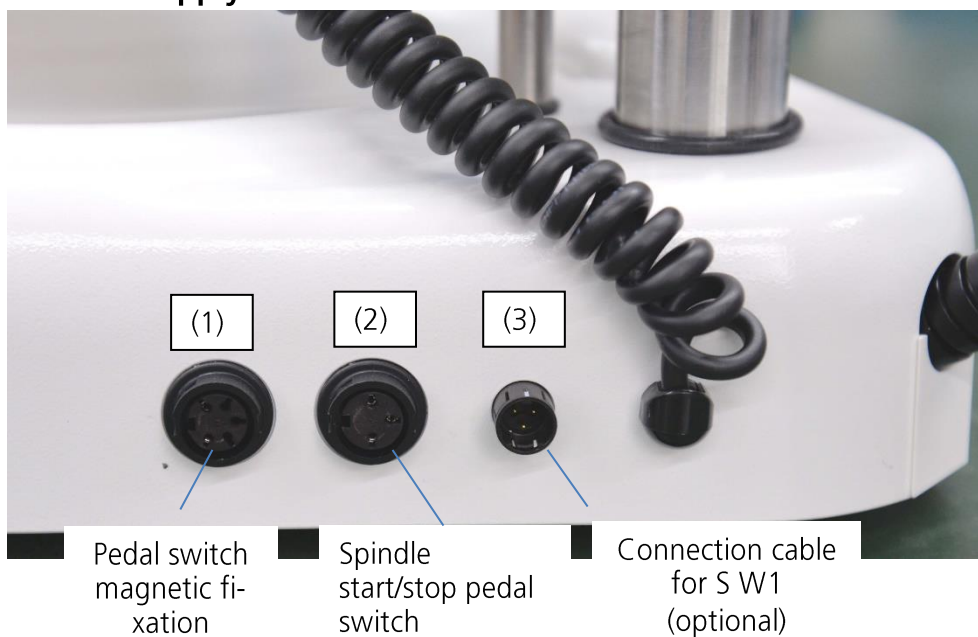
No tools required

Safety precautions before installation

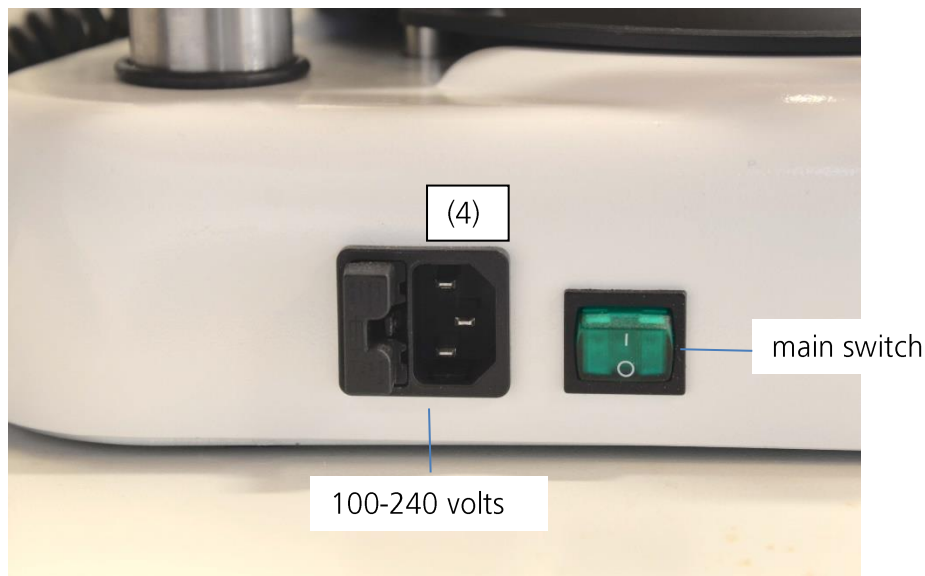
When working on the electrical installation, pull out the mains plug.

6.2 Installation

establish supply



- Plug the gray foot pedal into the jack (1)
- Connect the black foot pedal switch to the jack (2)
- Optional: connect the SW1 water station with the cable 12548 (3)
- Insert the mains adapter plug into the power supply socket (4)



i The mains cable may only be replaced with an original mains cable from Schick.

7 S W1 water cooling for milling spindle (optional, not included)



The S W1 water cooling for milling spindle Art.No. 2990 can be connected to the S3 Premium using the supplied connection cable 12548 and thus enables the water cooling to be switched on when the spindle is started.

i When using the S W1 water cooling, the supplied operating instructions must be observed!



When using a turbine or milling spindle with water cooling, a collecting or suction tub is necessary.

8 Functions and operation

8.1 Power on/off S3 Premium

Switching on/off is via the main switch on the back. Readiness indication via the display or LED on the main switch.



The S3 Premium may only be switched off using the main switch when the spindle is stationary.

8.2 Operation and OLED display

The S3 Premium is operated via an operating satellite which can be flexibly positioned via the gooseneck. In addition, the user has two foot pedal switches available.



Display:

The OLED display of the S3 Premium control device (only knee and table version) provides information about all operating states of the device after switching on.

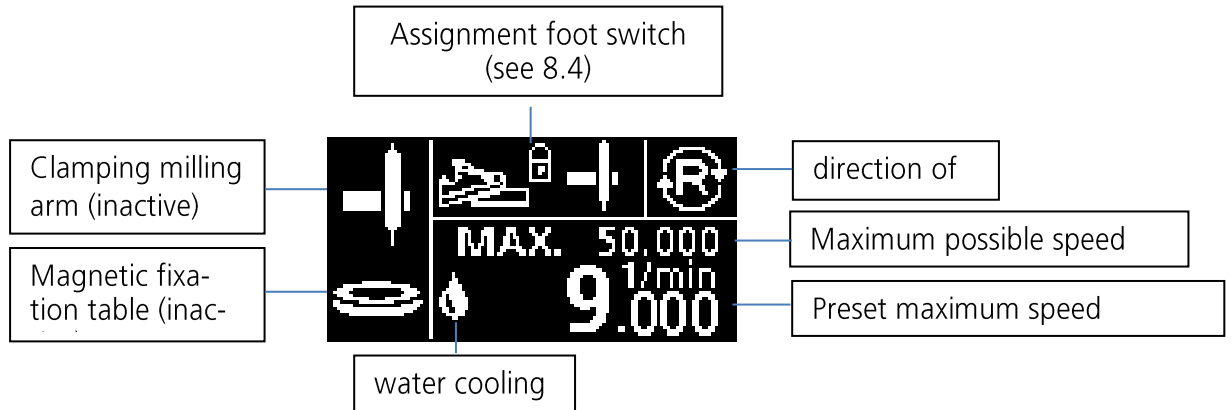
The following parameters are displayed in detail:

- *operational readiness*. The display shows the preselected maximum speed, the maximum possible speed for the spindle, the direction of rotation, the status of the arm or

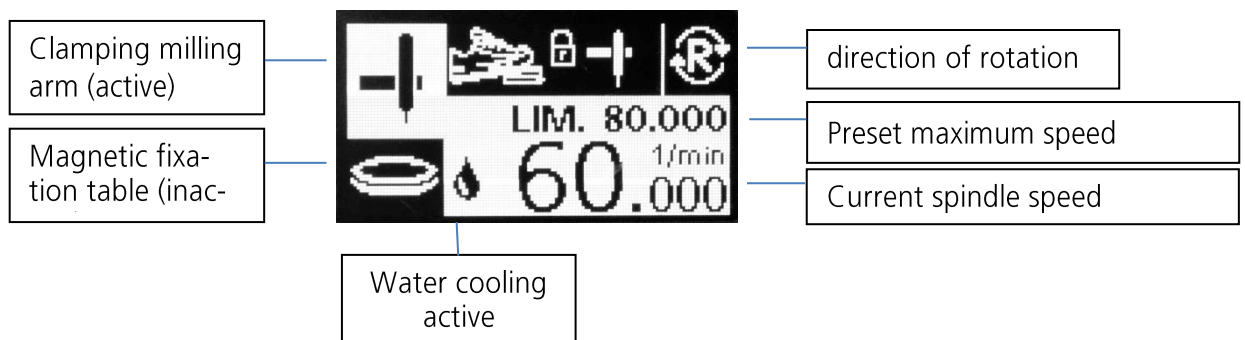
model table fixation and the associated functional assignment of the foot pedal switch. Switchable water cooling S W1 (optional).

- *Operating condition:* While the engine is running, the display is inverted compared to the basic display.

OLED display basic display:



OLED display with the spindle running and the milling arm clamp active:

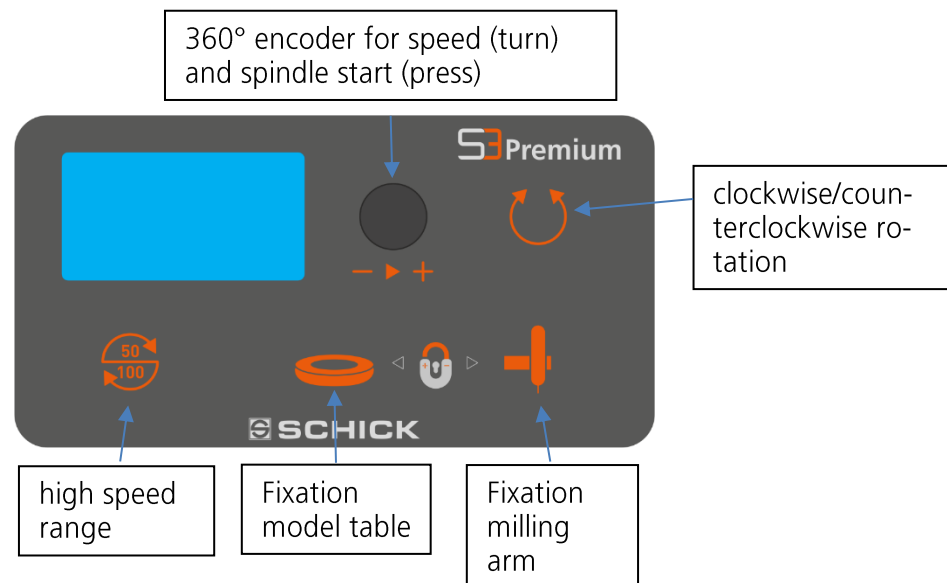


The inverted display indicates that the spindle is running or that the milling arm and/or the model table are being fixed!



After 20 minutes of non-use, the display dims. To reactivate it, simply make an entry by using the control satellite.

8.3 Functions of the control satellite:



8.4 Footswitch functions



The black foot pedal switch with the start symbol is permanently assigned the milling spindle start/stop function.

The gray foot pedal switch with a magnetic lock symbol actuates the fixing function defined via the control satellite – milling arm or model table.

The currently selected foot pedal function is shown on the display:



Pedal switch actuates fixation model table.

Selection of foot pedal function:

- Press the fixation model table or fixation milling arm button for at least 2 seconds. press and hold.
- ✓ Display shows new selection:



Foot pedal switch actuates the milling arm fixation.

8.5 Milling spindle operation

The milling spindle of the S3 Premium can be started and stopped using two control elements. Dynamic speed control is possible via the 360° encoder

- ✓ Static spindle start via the foot pedal switch to the speed set via the rotary knob.
- ✓ Static spindle start by pressing the rotary knob to the set speed.
- ✓ Dynamic speed control with the spindle running via the rotary knob.






It is essential to observe the maximum permissible speed of the clamped tool before starting the spindle!

8.6 Changing the direction of spindle rotation

The S3 Premium can be switched from right to left rotation. The default direction of rotation is clockwise.

Changing the direction of rotation:

- Press button  once.
- ✓ The symbol  or  the display shows the selected direction of rotation.
- ✓ The change in direction of rotation is confirmed by a vibration signal from the spindle.



If the spindle of the S3 Premium is subjected to greater stress in counterclockwise rotation, the collet can theoretically come loose.

8.7 Installation/removal of the milling spindle/measuring spindle

The optional measuring spindle can or must be used for special applications such as measuring or surveying.



Installation/removal:

- Loosen the clamping screw from the light head
- Loosen the clamping screw of the spindle
- Carefully pull the light head down and remove it from the plug connection
- Pull the spindle out upwards and place it in the spindle holder

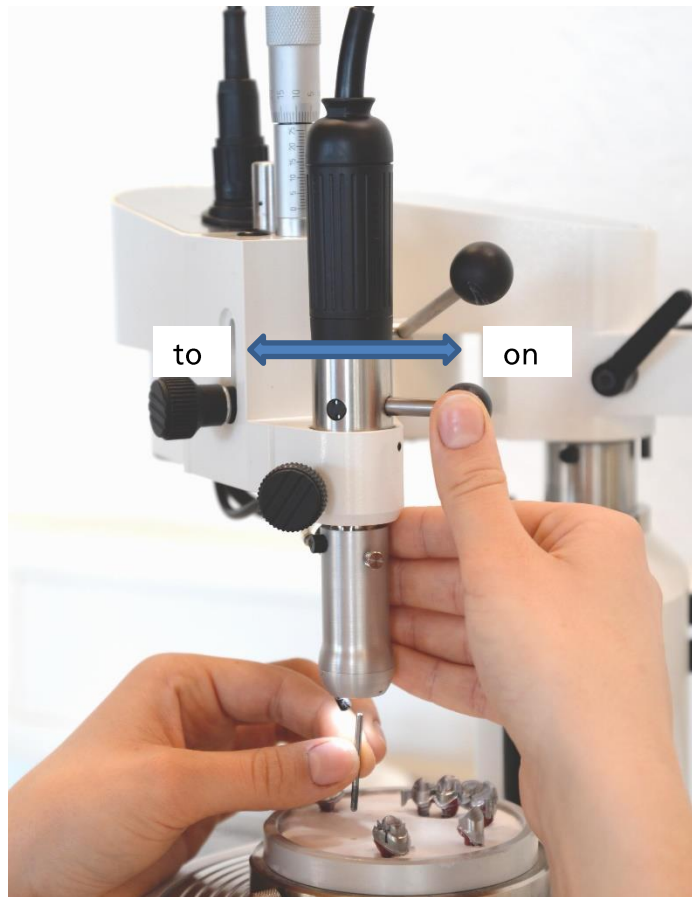
- Insert the measuring spindle into the spindle holder from above and tighten the clamping screw



Accessories such as parallel holders or transmission spiders may only be used in the measuring spindle!

8.8 Tool change on the spindle

The collet can be opened or closed by turning the clamping lever on the spindle.



Tool change only when the engine is switched off! With regard to the accuracy and service life of the collet, a tool or the protective pin supplied by the manufacturer must always be clamped, even when not in use.



Caution: In order to avoid buckling of the tool shanks at high speeds, always insert tools as far as possible into the collet in order to achieve the maximum clamping force!



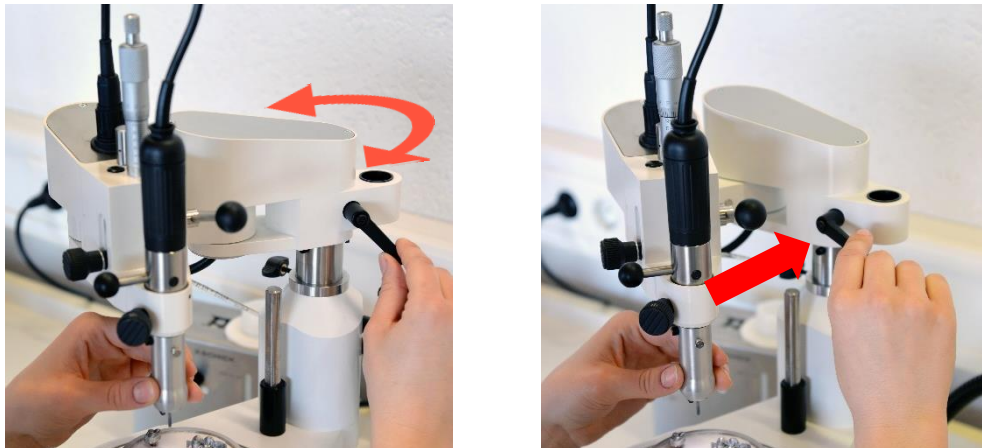
The collets of the S3 Premium milling machine are factory-equipped with a stop bolt for short tool shanks. Before using tools with a standard length shank, the stop bolt must be removed in order to achieve sufficient clamping depth.



Accessories such as transmission spiders or parallel holders must never be used in the milling spindle!


8.9 Home position of the milling arm


The 3D milling arm of the S3 Premium has three joints, two of which can be locked at the push of a button. The third joint is the pivot point of the milling arm on the column and is locked in place with a clamping lever. The basic position of the milling arm is adjusted via this joint before each use of the device. This basic position influences the radius of movement of the milling arm and the respective dead centers of the other two joints.



Setting the home position:

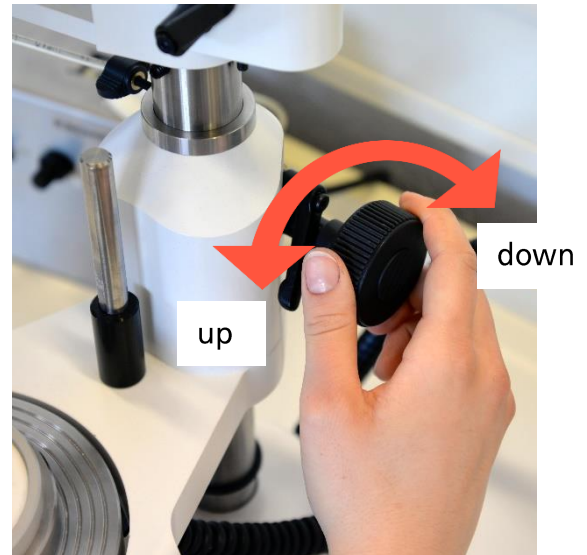
- Loosen the clamping lever
- Set the basic position by turning the milling arm
- Tighten the clamping lever
- ✓ Check the freedom of movement of the milling arm

 The clamping lever must be tightened while milling!

 Changing the basic position during milling should be avoided!

8.10 Setting the working height

In order to adapt the S3 Premium to the desired milling or working height, the milling table is adjusted in height.



Setting the working height:

- Loosen the clamping screw
- Adjust the working height by turning the knob
- Slightly tighten the clamping screw




The clamping screw must always be tightened while using the S3!

8.11 Use of the height stop ring

The height stop ring above the router table allows you to find a defined height setting for the router table. One application for this is drilling holes.



- Loosen the clamping screw from the height stop ring and let it fall onto the milling arm
- Tighten the clamping screw
- ✓ The router table can now be lowered to change tools and turned precisely back to the original height.

 If the height stop ring is not required, it is advisable to slide it all the way up and tighten it there.

8.12 drill lever and depth stop

Using the adjustable depth stop, the S3 Premium can be used to create individual millings at the highest level.



The depth stop is infinitely adjustable via a micrometer screw. If the micrometer screw is completely unscrewed, the entire vertical stroke of 25 mm is available. If the micrometer screw is screwed in completely, there is no vertical travel.

The milling spindle can be guided precisely and powerfully for drilling using the drilling lever.

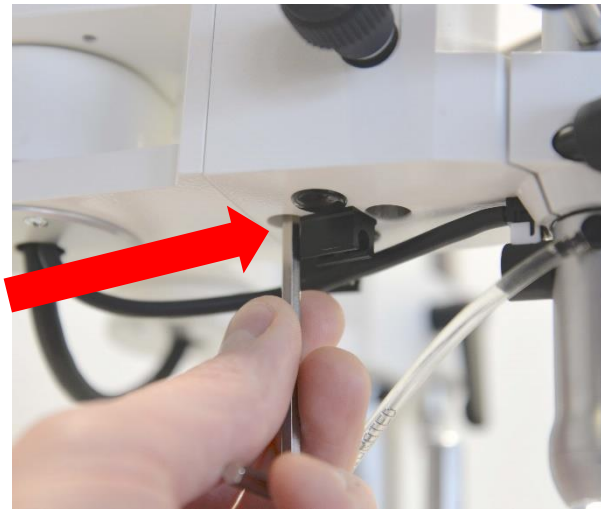
Setting the depth stop:

- Lower the spindle to the desired maximum drilling depth using the drilling lever.
- Screw in the micrometer screw until you can feel the depth stop on the spindle

8.13 Adjusting the spring tension of the spindle holder

The spindle mount of the S3 Premium has an adjustable spring tension.

The idle position of the milling spindle can be set individually using the Allen screw and the supplied Allen key size 4.



- To adjust the pulling force, unclip the light head cable from the bracket
- ✓ Turn the screw in - higher traction
- ✓ Unscrew the screw - less traction
- Clip the light head cable back in

8.14 Use of the optional wooden armrests

For improved working comfort, armrests made of beech wood Art.No. 12560 are available. These prevent the user's hands from coming into contact with the metal of the milling table and thus ensure a warm and ergonomically rounded hand rest.

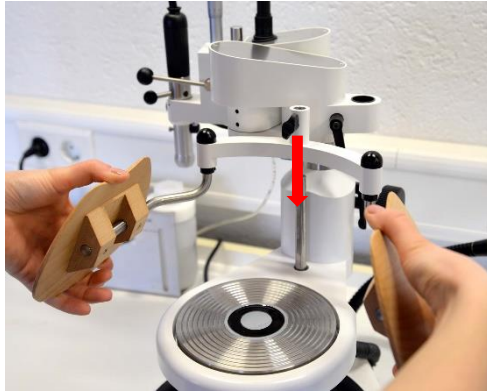
The adjustment of the armrests is independent of the height adjustment of the milling table and is only carried out once by the user individually.



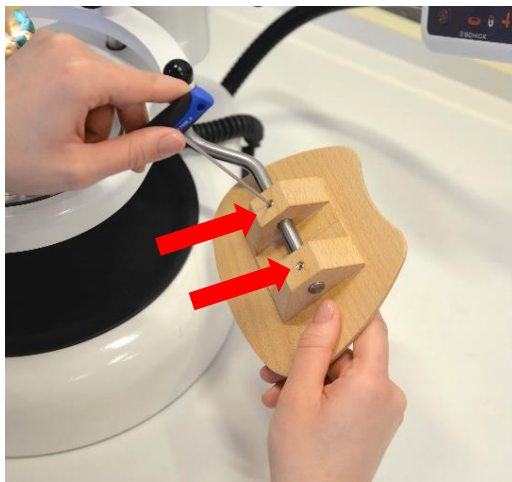
Armrests mounted and optimally adjusted.

The armrests can be individually adjusted in height, vertically and horizontally, as well as in the distance to the user.

Assembly and adjustment of the armrests:



- Swiveling the milling arm to the side
- Place the armrests on the column and fix them at the desired height with the clamping screw.



i The armrests cannot carry the full load of the user's arms!

9 Tips and Tricks

With the S3 Premium you get a dental device that was manufactured using the most modern production methods and the demand for maximum precision. In addition, we would like to give you some application tips with which you can achieve perfect results even more easily.

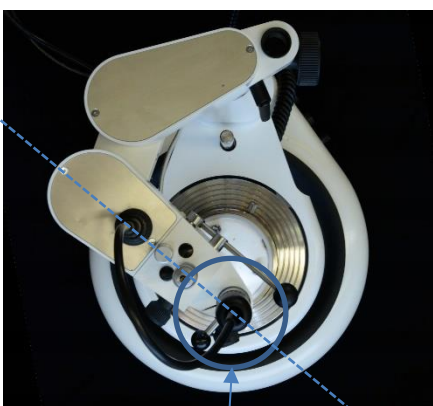
9.1 Free milling and measuring with maximum precision

A milling device in which the angle between the milling spindle and the milling table is exactly 90° is essential for precise milling results. In order to maintain this angle as precisely as possible, the S3 Premium has an adjustable milling table which is set to exactly 90° during assembly. Subsequent adjustment of the milling table by the user is not necessary.

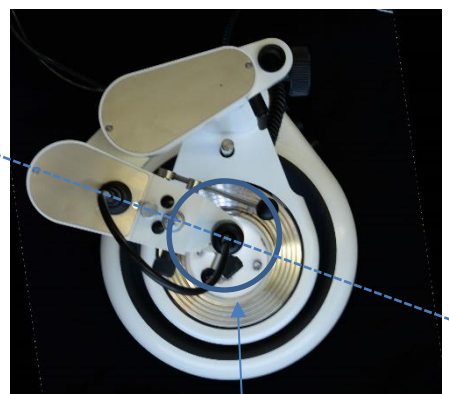
Nevertheless, minimal angle deviations are unavoidable when the milling arm moves. In order to keep the effects of small tolerances as small as possible, the radius of movement of the milling arm should be kept small. If, for example, a combined work is being made with several holding elements, each holding element to be machined should be machined at the same point on the router table.

i The clamping lever of the height-adjustable routing table must be tightened during all activities on the S3!

The following two illustrations show how the radius of movement can change when rotating the milling shell or the model table



Radius of movement of the milling spindle when processing telescope No.1



Radius of movement of the milling spindle after rotation of the milling shell for processing telescope No.2

Ideally, after the milling shell has been rotated, it should be moved on the milling table in such a way that the milling arm remains in a similar position.

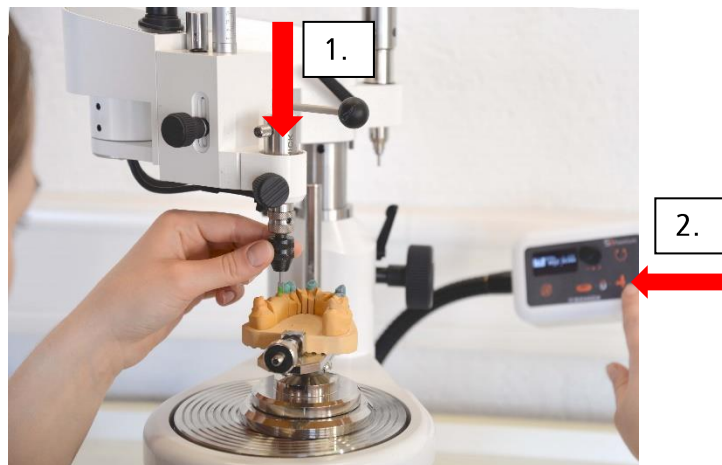
- i** The basic position of the milling arm must not be changed during free milling or measuring.
- i** The clamping lever of the milling arm must be tightened during free milling or surveying!

9.2 Use of the optional measuring spindle Art.No. 2052/1

The optional measurement spindle supports the dental technician both in classic measurement work for the clasp partial denture and when using ready-made attachment parts. The measuring spindle is also mandatory when using the transmission spider.

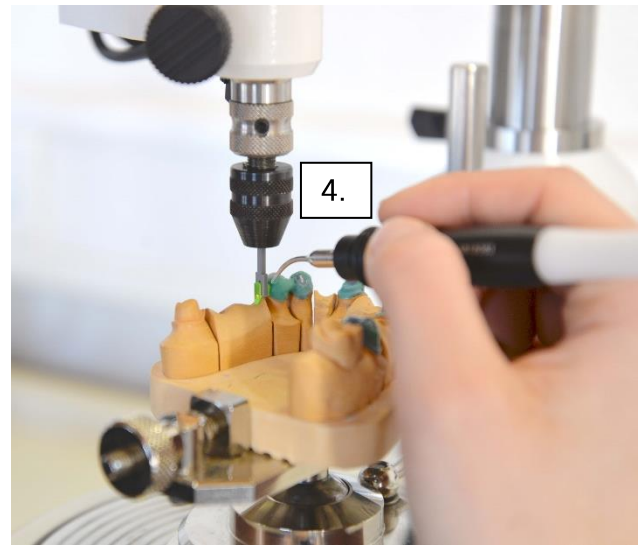
- Install the measuring spindle as described under point 8.7.

Use of the measuring spindle for ready-made attachments:

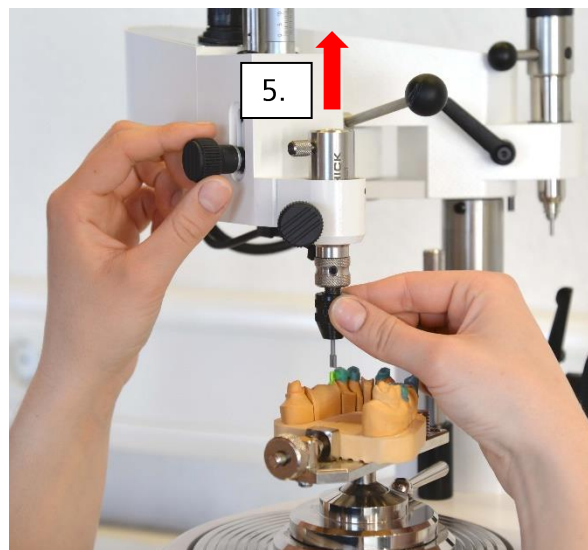


- Insert the parallel holder in the measuring spindle
- Bring the parallel mandrel with the attachment primary part into the desired position by pulling down the spindle holder (1.).

- Lock the milling arm (2.) (button on the operating satellite or pedal switch)



- Fix the spindle holder with the clamping screw.
- Fix/grow the attachment part



- Loosen the clamping screw again and carefully move the spindle holder upwards.

10 Troubleshooting

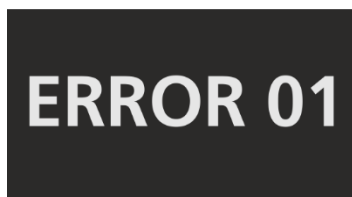
10.1 Procedure in the event of malfunctions or errors

Error messages immediately disappear from the display as soon as the fault is eliminated. Waiting times for a restart are therefore eliminated.

If a fault cannot be rectified using the above description, please contact an authorized service partner or Schick directly.

10.2 Malfunction and error messages

The S3 Premium has intelligent control electronics that recognize possible faults and can show them as an error code on the display. If an error occurs, this is indicated by "ERROR-01".



Example of an error message: ERROR 01

The faults/error messages are divided into categories

If several errors occur at the same time, the error with the higher priority is displayed. As soon as this is no longer present, the lower-priority error is displayed.

category	component		prioritization
1	Spindle/Cable		3
2	handpiece motor		2
3	control unit		1

Detailed error code list:

error code	Error Description	category	Caused	remedy
01	No handpiece connected.	1	2 or 3 motor phases not contacted. Always checked when control is on.	Check whether the handpiece is correctly connected.
02	Error in the handpiece cable.	1	One motor phase not contacted. Is always checked when the controller is on.	Replace motor cable.
03	Motor stalls at start.	2	Collet open or handpiece blocked due to bearing damage.	Check whether the tool can be rotated freely.
04	Motor stalls while running	2	Motor stalled for more than 2 seconds while running.	Reduce contact pressure.
05	Motherboard defective	3	Electrical failure on motherboard.	Contact Schick service.
08	Supply voltage error	3	DC link voltage (48V), 18V or 3V3 outside border area.	Contact Schick service.
10	Control unit overloaded	3	Temperatures on motherboard too high.	Allow control unit to cool down.

11 Maintenance and control work for operators

11.1 General information

Schick spindles are designed for maximum durability, but the collet should be removed and cleaned from time to time to remove dirt and extend the life of the collet.

Dirt on the plastic surfaces can be removed with a dry cloth.

Do not use harsh cleaning agents!

11.2 Care and Control Plan

Handpiece Care and Control Plan:








interval	maintenance and control activities	Remarks
Weekly	Remove LED light head and remove dirt	Do not use compressed air!
Monthly	Remove collet, clean and grease	Grease with Art.No. 51/1

11.3 Carry out maintenance and control work

Removal and cleaning of the collet



- Open the collet and remove the tool
- Unscrew and remove the motor cable
- Remove light head
- Insert the collet wrench (Art. No. 4115) into the opened collet, hold the counter-hold wrench (Art. No. 6233) on the wrench flat on the motor shaft and turn the collet out counter-clockwise with a jerk, if necessary by tapping on the collet wrench
- Pull the collet out of the shaft

-  For optimal concentricity, the collet and milling spindle are paired at the factory. The collet should be replaced at Schick.
-  After thorough cleaning of the collet, it should be lightly greased on the outside with special grease (Article No. 51/1) before reassembly.
-  Only tighten the collet slightly when reinstalling! The collet tightens itself during normal operation (clockwise rotation).
-  With regard to the accuracy and service life of the collet, a tool or the protective pin supplied by the manufacturer must always be clamped, even when not in use.
-  Never clean the handpiece with compressed air!
-  You will find the corresponding collet wrench in the scope of delivery of the device
-  The spare parts listed may only be replaced with original spare parts from Schick.

Technical specifications

handpiece:

General data and dimensions	
speed range	500 – 80,000 rpm
cooling	Closed system without cooling
drive system	Brushless DC motor
concentricity	<0.015mm
collets	Ø 2.35 and 3.0 mm (optional) incl. stop for short tools
tool change	quick release
operating voltage	100-240 volts, 50-60 Hz
continuous recording power	200 watts

Dimensions

Broad	300mm
Height	500mm
depth	420mm
Weight	21kg

The total vibration value during operation is less than 2.5 m/s²

12 Accessories

12.1 milling accessories



Surveying spindle
Art.No. 2052/1



Model table
Art.No. 2407/9



Milling technology tool
set Art.No. 2530/1



Surveying kit \varnothing 2.35mm
Art.No. 10450



Transfer unit
 \varnothing 2.35mm Art.No. 2052/1
 \varnothing 3.0 mm Art.No. 2795/1



Graphite lead holder \varnothing
2.35mm Art.No. 2268 \varnothing
3.0 mm Art.No. 2268/1



Milling tray Art.No. 2507/1



Receptacle Art.No. 2509



Milling oil 50 ml Art.No. 2575
milling oil 100 ml Art.No. 2575/1

12.2 Accessories ceramic processing/water cooling

Ceramic processing with the S W1 water station and the high-performance milling spindle included in the S3 Premium:



S W1 Art.No. 2990



Collection tub
Art.No. 2498

Ceramic processing with the turbine:



Ceramic milling set for S2 and S3 Premium
Art.No. 2650/05

Scope of delivery: suction tub, separator,
turbine T100, model table stainless steel,
light head for turbine, diamond tool set for
turbine 1.6 mm, polishing set 2.35 mm,
adapter for turbine

Ceramic milling set parts:



Turbine T100
Art.No. 2640/1



Suction tub
Art.No. 2470/5



Separator Art.No.
2655



Light head for turbine
Art.No. 2510/1



Adapter for turbine
T100 Art.No. 2481



Adapter turbine NSK
Art.No. 2481 /1



Diamond tool set
turbine Art.No.
2660



Polishing set ø 2.35
mm Art.No. 2665

13 Attachment

13.1 service address

Schick GmbH

Lehenkreuzweg 12

88433 Schemmerhofen

Phone: +49 7356 9500-0

Fax: +49 7356 950095

Email: info@schick-dental.de

Internet: www.schick-dental.de

If you need service, please send your device directly to Schick GmbH at the above address and fill out our repair form (on the back page as a template or under www.schick-dental.de/service-REPAIR/REPAIR-UND-ABHLSERVICE) out of.

Fax us the completed form to 07356/9500-95 or email it to info@schick-dental.de

Schick GmbH
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D-88433 Schemmerhofen
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13.2 Declaration of Conformity

We, Schick GmbH
Lehenkreuzweg 12
D-88433 Schemmerhofen

hereby declare that the product

S3 Premium consisting of
Milling spindle 9400/08 and milling device
S3 Premium 12520



Foot pedal switch (on/off) 2560
Foot pedal switch (magnetic fixations) 12526

complies with the following relevant provisions:

2006/42/EC (Machinery Directive)
2014/30/EU (EMC Directives)
2011/65/EU (RoHS)

Name/address of
document officer
In the community:

Wolfgang Schick
Lehenkreuzweg 12
88433 Schemmerhofen

Schemmerhofen, March 2023



W. Schick
Managing Director

Technical changes reserved

In terms of device safety and the
Radio protection according to the applicable regulations according to VDE.

These instructions for use are always accessible, preferably in
kept close to the device!

At this point we would also like to point out that
a corresponding one for such technically high-quality devices
Repair service and specially trained specialists
is required.

The house SCHICK guarantees you flawless
Repairs with original spare parts. To each of us
repairs carried out in-house will refer you to the
exchanged parts are granted a guarantee period of 6 months.