

# S1 Basic

The compact milling unit

## Ergonomic work

The proven S1 Basic milling unit is not only suitable for milling, measuring, transferring or blocking out, but also ideally suited for the telescopic technology. The heightened base ensure excellent ergonomics. For even more working convenience, a foot switch can be connected to the control unit.

## Utmost precision

Another special feature is the optional LED light head for comfortable working. Other reliable features are the doublejointed arm for unrestricted flexibility and the ball bearing guides for highest precision during drilling.

## S1 Basic Parallelometer

The S1 Basic parallelometer for surveying, transferring and blocking out can be converted into a complete milling unit easily and at low cost. Individual components perfectly matched to your needs are also available for wet grinding applications.



S1 Basic Parallelometer

**High-performance milling spindle**  
with extremely quiet running

**Rotable grip**  
for comfortable work

**High-precision supporting surface**  
quick-release toggle clamp for simple fixing of the model table

**Utmost precision**  
during drilling and milling, thanks to the ball-bearing guides

**Double-jointed arm**  
for unrestricted flexibility

**Ergonomic working height**



## Control unit:

- ▶ Latest technology with up to 40,000 rpm
- ▶ Compact dimensions
- ▶ Optional connection for a foot switch



# S2 Profi

The all-round milling device

## Safe and perfect millings

With the new S2 Profi, we succeeded in combining high quality and practical parts with a compact and state-of-the-art design. The extremely solid construction of the milling arm and column prevents any vibrations and thus enables the best milling results. For more work comfort the model table can be fixed magnetically to the milling table at the push of a button.

## Your benefits

- ▶ Powerful milling spindle running ultra-smooth and quiet
- ▶ LED light head for a perfect illumination
- ▶ Magnetic fixation table
- ▶ Solid milling arm and column for a vibration free milling process
- ▶ Optional footswitch for better working comfort



**Depth stop**  
for precise adjustment  
of the drilling depth

**Double-jointed arm**  
for unrestricted flexibility

**LED light head**  
for optimal illumination

**Magnetic  
fixation**  
for model table

**Height adjustment**  
for a comfortable adjustment  
of the milling arm

**Powerful  
milling spindle**

**Solid milling arm  
and column**  
for a vibration free milling process

**Controls**  
within ergonomic reach



# S3 Premium

## The masterclass

### The number 1

The S3 Premium is the further development of the proven S3 Master milling machine. The new milling spindle with high-performance electronics permits speeds of up to 80,000 rpm and opens up additional machining further machining possibilities.

The S3 Premium uncompromisingly combines the precision and quiet running of an electric milling spindle with the high material removal rate of a turbine. Whether wax milling at 500 1/min, non-ferrous milling at 50,000 1/min, or zircon machining under water cooling at 80,000 rpm, the S3 Premium covers the entire spectrum of milling technology.

### High-performance milling spindle

- Speeds up to 80,000 1/min
- Low starting speed of 500 1/min for comfortable wax milling

### 3D milling arm

- Magnetic lock via foot via foot pedal switch or operating satellite
- Highest precision and mobility due to ball bearing guidance
- 25 mm drill travel

### Operating unit

- Flexible connection allows positioning to the optimum ergonomic, individual working position
- All adjustments are clearly visible and controllable during the working process
- Switching function for optional SW1 water cooling for milling spindle

### Height-adjustable milling table

- Ensures constant working at eye level even with different heights of models
- Magnetic fixation for model table

### Two footswitches

for better workflow

- Milling spindle On/Off
- Switchable between model table fixation and 3D milling arm lock

### Optional arm rests

- Individual three-dimensionally adjustable arm support for fatigue-free precision milling

**Depth stop**  
with micrometer spindle

**3D milling arm**  
with magnetic lock

**LED light head**  
for optimal illumination

**Milling table**  
height-adjustable

**Powerful milling spindle**  
with extremely smooth running

**Third knuckle joint**  
for unrestricted movement

**Flexible control satellite**  
with digital rpm display

**arm rest\***  
from beechwood, individually adjustable

**Magnetic fixation**  
for the model table\*

\* Optional accessories,  
not included in scope of delivery



# S Technology

## Technical data

### S1 Basic

	milling unit	control unit
Width	220 mm	106 mm
Height	400 mm	200 mm
Depth	270 mm	207 mm
Weight	7.2 kg	1,880 g
Operating voltage		100 – 240V
Operating frequency		50/60 Hz
Power consumption		160 Watt / max. 180 Watt
Speed range		1,000 – 40,000 rpm
Concentricity	< 0.015 mm	
Collet chuck	Ø 2.35 mm series incl. depth stop for short burs Ø 3.00 mm on request	



**S1 Basic milling unit cpl. Art. No. 2800**  
**Scope of delivery:**  
 S1 Basic unit  
 S1 Basic milling spindle  
 Q3 Basic control unit  
 Model table stainless steel



**S2 Profi milling unit cpl. Art. No. 2950/1**  
**Scope of delivery:**  
 S2 Profi milling unit,  
 S2 Profi milling spindle with light head  
 Model table is not included



**S3 Premium milling unit cpl. Art. No. 12500**  
**Scope of delivery:**  
 S3 Premium milling unit,  
 S3 Premium milling spindle with light head,  
 footswitch magnetic control,  
 footswitch motor on/off  
 Model table is not included

### S2 Profi

Width	280 mm
Height	530 mm
Depth	375 mm
Weight	13,5 kg
Operating voltage	100 – 240V
Operating frequency	50/60 Hz
Power consumption	160 Watt / max 180 Watt
Speed range	1,000 – 40,000 rpm
Concentricity	< 0.015 mm
Collet chuck	Ø 2.35 mm series incl. depth stop for short burs Ø 3.00 mm on request



**S1 Basic parallelometer Art. No. 2810**  
**Scope of delivery:**  
 S1 Basic unit  
 Measuring spindle  
 Lead holder 2.35mm

### S3 Premium

Width	300 mm
Height	500 mm
Depth	420 mm
Weight	21 kg
Operating voltage	100 – 240V
Operating frequency	50/60 Hz
Power consumption	200 Watt / max. 340 Watt
Speed range	500 – 80,000 rpm
Concentricity	< 0.015 mm
Collet chuck	Ø 2.35 mm series incl. depth stop for short burs Ø 3.00 mm on request

## Accessories

<p><b>Measuring spindle</b> adjustable from 0.5 – 3.00 mm Ø 22 mm Art. No. 2052/1</p>	<p><b>Measuring set</b> Ney 2.35 mm Art. No. 10450</p>	<p><b>Model table</b> Art. No. 2407/9</p>	<p><b>Adjustable angle</b> Art. No. 2506</p>
<p><b>Lead holder</b> Ø 2.35 mm Art. No. 2268 Ø 3.00 mm Art. No. 2268/1</p>	<p><b>Holding tray</b> for magnetic fixation of the milling bowl on the milling unit Art. No. 2509</p>	<p><b>Milling tray</b> Art. No. 2507/1</p>	<p><b>Milling set 2.35 mm</b> 10 pieces Art. No. 2530/1</p>
<p><b>Transfer unit</b> Ø 2.35 mm Art. No. 2795 Ø 3.00 mm Art. No. 2795/1</p>	<p><b>Foot switch on/off</b> Art. No. 6370/2</p>	<p><b>Light head</b> Art. No. 2510</p>	<p><b>Power supply light head</b> Art. No. 2480/1</p>
<p><b>Wooden armrest compl.</b> Art.-Nr. 12560</p>	<p> <span style="color: #00AEEF;">■</span> Accessories for S1 Basic    <span style="color: #90EE90;">■</span> Accessories for S2 Profi  <span style="color: #FF69B4;">■</span> Accessories for S3 Premium and S3 Master    <span style="color: #FFD700;">■</span> Accessories for S3 Premium  <span style="color: #FFFF00;">■</span> For milling units of other manufacturers         </p>		

# S Ceramic

The ceramic milling unit

## Safe and clean

All milling units from Schick are upgradable with the specially adapted accessories into a fully workable ceramic milling unit. This special ceramic milling accessory is also available for milling units of other manufacturer.

## Turbine

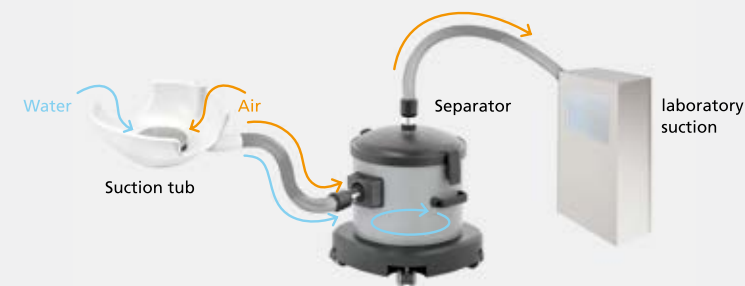
In place of a motor milling spindle a turbine with 300,000 rpm is used. Additionally the turbine is equipped with the proven LED lighting technology of Schick. To avoid micro cracks in the ceramic material, water cooling is used. A suction tub enables the technician to use this system in his standard milling device.

## Special tools

To complete the system one set of each diamond tools and special polishers for ceramic are available for the rework of ceramic primary parts and implant abutments.

## Suction

Arising dust and water spray is removed completely by the ergonomic suction tub in combination with the special water separator. User and milling unit are protected efficiently. By using the special separator, the system can be operated with all laboratory suction or dental suctions. Alternatively you can connect the suction tub to a wet-dry vacuum cleaner, too.



300,000  
rpm

**Adapter**  
for turbines and milling units of other  
manufacturers available upon request

**Turbine**  
with LED light head

**Model table**  
made of stainless steel

**Suction tub**  
for connection to extraction  
system via the separator

**Integrated pressure reducer  
with pressure gauge**  
for precise pressure adjustment

**Air and  
water cooling**  
is continuously adjustable

**Water  
cooling**  
can be switched  
on/off

**Filling level indicator**  
for precise display of water level

**Water tank**  
with 1.4 liter capacity



See user video on  
[www.schick-dental.de/ceramic](http://www.schick-dental.de/ceramic)

# S Ceramic

## Technical Data

### Collection tub

Width x height x depth	260 x 245 x 110 mm
Weight	0.83 kg

### Suction tub

Width x height x depth	300 x 245 x 125 mm
Weight	1.3 kg
Intake socket (suction support)	31 mm – 38.1 mm (conical)

### Separator

Width x height x depth	405 x 405 x 540 mm
Weight	5.75 kg
Connecting adaptor	Inside Ø 31.4 mm Outside Ø 37.1 mm

Hose length	1 x 2 m, 1 x 3.5 m
Hose weight	2.0 kg incl. adaptor
Ø hose	Inside 32.7 mm Outside 40.0 mm

### T 100 turbine control unit

Width x height x depth	295 x 192 x 155 mm
Air pressure	5 - 8 bar
Tank capacity	1.4 l
Foot pedal	Pneumatik
Weight	3,200 g

### Turbine handpiece

Speed	300,000 rpm
Air volume	35 l/min average
Spray	Max. 100 ml/min
Collet chuck	Ø 1.60 mm (FG)
Weight	60 g

Subject to technical modification without prior notice



**Ceramic milling set for S1 and other manufacturers**  
Art. No. 2650/15

**Scope of delivery:** Suction tub, separator, turbine T100, model table stainless steel, light head for turbine, power supply light head, diamond tool set for turbine 1.6 mm (8 pcs.), polishing set 2.35 mm (3 pcs.), adapter for turbine



**Ceramic milling set complete for S2 and S3**  
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 (8 pcs.), polishing set 2.35 mm (3 pcs.), adapter for turbine



Create your own set - according to your needs



**Ceramic milling set basic**  
Art. No. 2650/7

**Scope of delivery:** Suction tub, separator, model table stainless steel

 <b>S1 Basic unit</b> Art. No. 2805	 <b>Collection tub without nozzle</b> Art. No. 2498	 <b>Suction tub with nozzle</b> Art. No. 2470/5	 <b>Separator</b> Art. No. 2655
 <b>Turbine T100</b> Art. No. 2640/1	 <b>Model table stainless steel</b> Art. No. 2407/9	 <b>Diamond tool set for turbine 1.6 mm (8 pcs.)</b> Art. No. 2660	 <b>Light head for turbine</b> only possible in conjunction with 2480/1 when used in S1 2805 operation Art. No. 2510/1
 <b>Power supply light head</b> Art. No. 2480/1	 <b>Polishing set 2.35 mm (3 pcs.)</b> Art. No. 2665	 <b>Adapter for turbine T100</b> Art. No. 2481	 <b>Adapter for turbine NSK Aqua Presto</b> Art. No. 2481/1
 <b>Adapter milling unit Degussa F1, F3, for Turbine T100</b> Art. No. 2481/6	 <b>S W1 Watercooling for milling spindle</b> Art. No. 2990	 <b>Connecting cable for S W1 together with S3 Premium</b> Art. No. 12548	

Adapter for turbines and cutters of other manufacturer on request.

Accessories for S1 Basic   Accessories for S2 Profi   Accessories for S3 Master and S3 Premium   Accessories for S3 Premium   For milling units of other manufacturers



# S W1

## Watercooling for milling spindle

### Optimal for zero-degree milling

The new S W1 water cooling in combination with all current Schick milling machines is the ideal alternative solution to wet milling with a turbine. For the first time, it offers the user the option of machining all-ceramic primary parts without the need for timeconsuming conversion of the milling machine. The water feed is controlled by means of a rotary knob integrated into the unit. Compared to a compressed air driven turbine, the motor milling spindle achieves absolutely precise results, especially in the case of zero-degree milling. Thus, the combination of a Schick motor milling spindle and S W1 water cooling fully meets the increased requirements in the field of digital fabrication of ceramic primary parts.

### Your benefits

- Cost-effective alternative to turbines
- Adjustable water feed
- No compressed air required
- Easy filling thanks to removable water tank
- Highest precision due to milling spindle without bearing clearance
- wear-free, low-maintenance spindle technology

### Important information:

- S W1 is suitable for Schick milling machines
- S 1 Basic, S2 Profi, S3 Master and S3 Premium
- Recommendation: Conversion of your existing Schick milling spindle to a high-grade steel version to prevent any possible corrosion
- Power supply for light head (art.-no. 2480/1) is needed if you want to use the S W1 with your S 1 Basic
- Additionally required for S3 Premium: connection cable Art. No. 12548

#### Technical data

Operating voltage	100-240 V
Operating frequency	50/60 Hz
Dimensions (WxHxD)	170 x 170 x 85 mm
Weight (empty) max.	1.4 kg
Pumping capacity	60 ml/min
capacity	max. 0.5 l

#### S W1 Watercooling for Schick milling spindle

Art. No. 2990

##### Scope of delivery:

S W1 Station, water tank, S W1 light head with hose connection, reducer for chuck 3 mm to 1,6 mm, reducer for chuck 2,35 mm to 1,6 mm



### S W1 Ceramic milling set

#### S W1 Ceramic milling set for S1 Basic milling unit

Art. No. 2990/1

##### Scope of delivery:

S W1 Watercooling for Schick milling spindle, collection tub without nozzle, model table stainless steel, power supply light head for S1 Basic

#### S W1 Ceramic milling set for S2 und S3 milling units

Art. No. 2990/2

##### Scope of delivery:

S W1 Watercooling for Schick milling spindle, collection tub without nozzle, model table stainless steel

