

English

Operating Instructions C1-Master



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We are pleased that you decided to buy a highly developed piece of equipment from SCHICK and would like to wish you every success when working with your new C1 Master motor unit.

We wrote these operating instructions to enable you to get accustomed to your new piece of equipment and to provide you with the correct operating and maintenance instructions.

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1. Safety information

- 1.1 Ascertain that your mains supply coincides with the data on the rating plate.
- 1.2 C1-Master - units are not suitable for the following applications:
 - in areas where there is a risk of explosion
 - for medical applications
 - for working on moist materials
- 1.3 Ensure that all regulatory requirements are observed during use
 - always wear protective glasses
 - provide enough light at the working place
 - use dust suction
- 1.4 Under no circumstances should the motor handpiece be cleaned with compressed air.
- 1.5 Before putting the handpiece down, always insert a rotary instrument or the pin, supplied with the unit, into chuck.

Caution:

- When using rotary instruments, do not exceed the maximum speeds laid down by their manufacturer.
- Repairs and other technical procedures must only be carried out by suitable qualified personnel, authorized by SCHICK.
- SCHICK do not guarantee the C1 Master unit should it not have been used in accordance with the operating instructions.

2. Range of applications

The C1 Master unit is designed for universal use in dental laboratories when trimming crowns and bridges, respectively acrylic and light chrome cobalt dentures.

With its speed range from 1.000 - 40.000 rpm the SCHICK C1 Master - unit allows to work all dental materials.

The motorhandpiece is ergonomical, small shaped and runs smoothly, thus eliminating user-fatigue and making it economical to use over long periods. The progressive processor controller constantly monitors the unit for overloading. A second thermal fuse, which is independent of the computer, provides further protection. Thus the C1 Master - unit offers a maximum of safety.

Conditions of environment:

- interior 5° - 40° C.
- up to 2,000 meter over sea level

Categorie of overvoltage: II

Grade of pollution: 2



WEEE-Reg.-Nr. DE 78620387

3. Summary C1-Master units

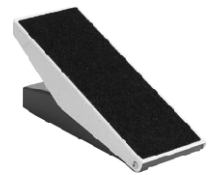
C1/SK complete
article no. 3505



C1/SF complete
article no. 3510



C1/ST complete
article no. 3515



Accessories:

digital indicator
article no. 6380



NH / DNH
riveting hammer(1)
article no.1850
twin riveting hammer(2)
article no. 1860

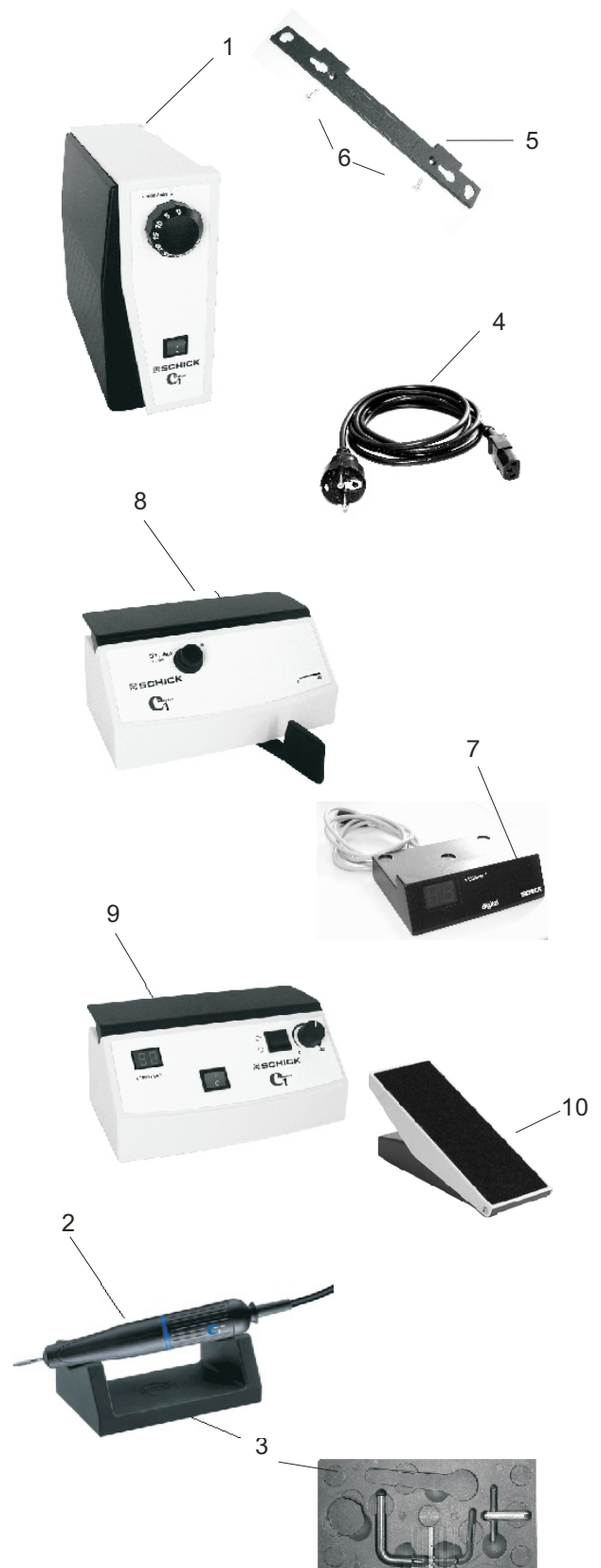


C1/MA
C1-Master Motor with INTRAMatic-coupling
article-no. 3500/03



4. List of contents - accessories/spare parts

		article-no.
C1/SK	complete	3505
C1/SK	knee controller 1	3535
C1/MH	motorhandpiece and cable 2	3500
	handpiece rack - with two	9127
	keys for changing chuck 3	
	mains cable 4	2160
	suspension strip 5	5614
	screws - 2 pieces - 6	3170
C1/SK-D	with digital indicator complete	3505/1
C1/SK-D	knee controller with attachment	3535/1
	for digital indicator 1	
C1/MH	motorhandpiece and cable 2	3500
	handpiece rack - with two	9127
	keys for changing chuck 3	
	mains cable 4	2160
	suspension strip 5	5614
	screws - 2 pieces - 6	3170
	digital indicator 7	6380
		article-no.
C1/SF	complete	3510
C1/SF	foot controller 8	3540
C1/MH	motorhandpiece and cable 2	3500
	handpiece rack - with two	9127
	keys for changing the chuck 3	
	mains cable 4	2160
C1/SF-D	with digital indicator complete	3510/1
C1/SF-D	foot controller with attachment	
	for digital indicator 8	3540/1
C1/MH	motorhandpiece and cable 2	3500
	handpiece rack - with two	9127
	keys for changing the chuck 3	
	mains cable 4	2160
	digital indicator 7	6380
		article-no.
C1/ST	complete	3515
C1/ST	control unit table top model 9	3545
C1/MH	motorhandpiece and cable 2	3500
	dynamic foot-switch 10	6371
	handpiece rack - with two	9127
	keys for changing the chuck 3	
	mains cable 4	2160
spare parts		
	Chucks:	
	Standard: Ø 2,35mm	6642
	Optional: Ø 3,00mm	6643
	chuck key	4115
	counter stay wrench	6223
	motor cable complete	3560

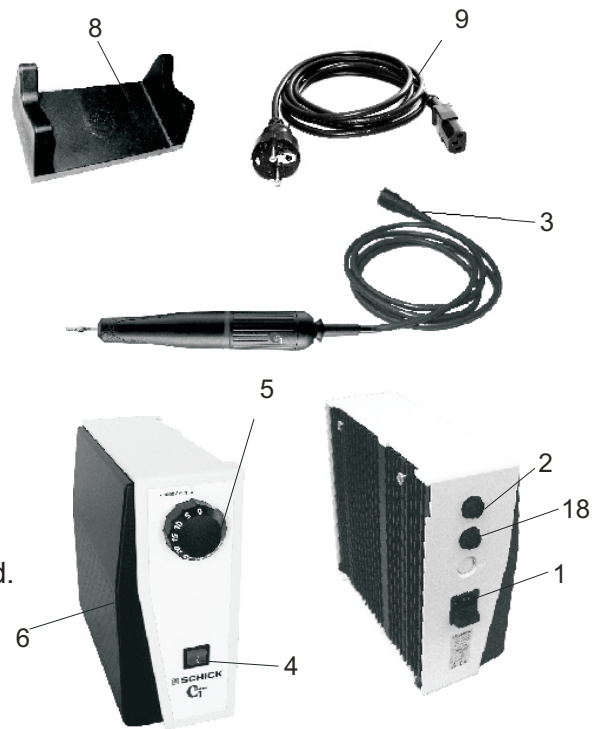


5. Setting up

Operating the different versions
operating with digital indicator see discription
on page 6

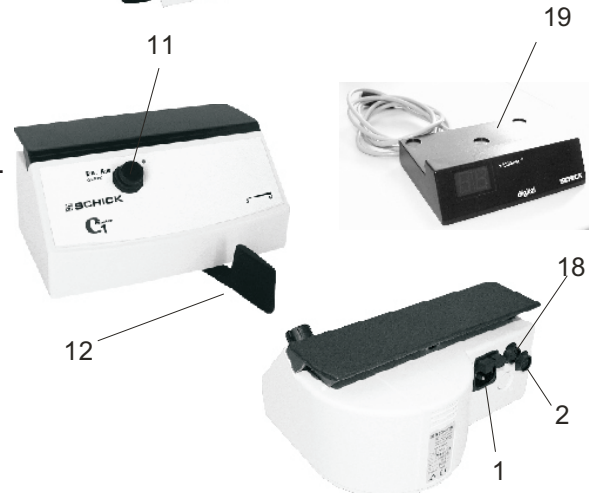
all versions

- 5.1 Ascertain, that your mains supply coincides with the data on the rating system.
- 5.2 Plug the mains cable 9 into the unit 1 and into a mains socket.
- 5.3 Plug the motor cable 3 into the socket 2 on the rear of the unit (quarter-turn catch).
- 5.4 Place the handpiece on the rest 8 supplied with it.



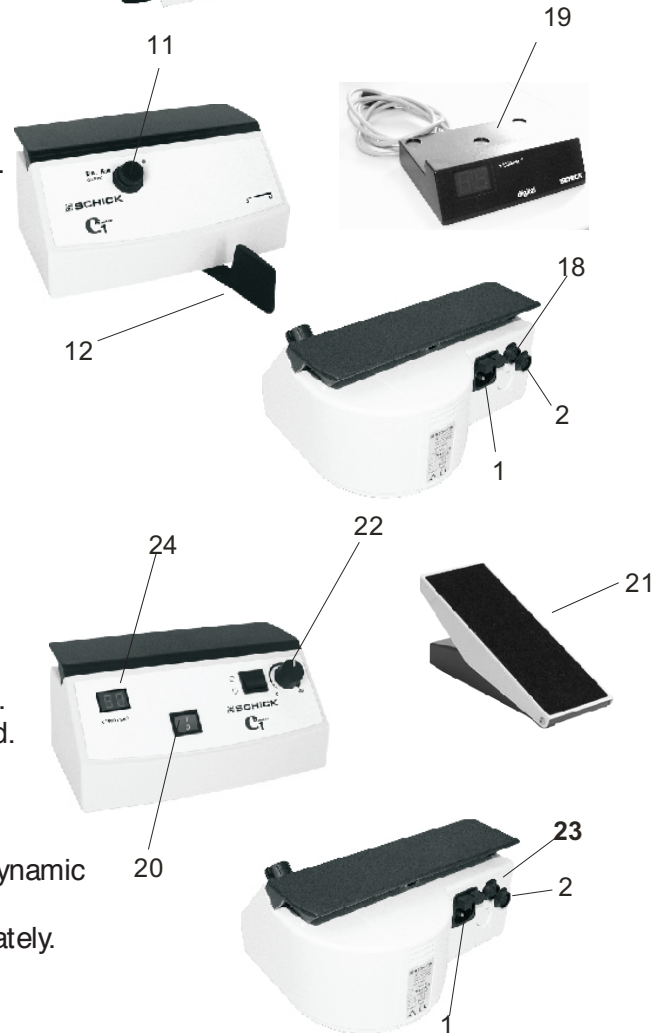
knee controller version only

- 5.5 Press the mains switch 4 on the front of the unit. The control lamp will come on. The unit is switched off by pressing the mains switch 4 again.
- 5.6 Set the speed controller 5 to the desired speed. The set speed can be reached right away by pressing the knee controller 6.



foot controller version only.

- 5.5 Press the mains switch 11 on the front of the unit. The LED will flash up. The unit is switched off by pressing the mains switch 11 again.
- 5.6 The speed can be varied progressively between 1.000 - 40.000 rpm by moving the foot pedal 12.



bench controller version only

- 5.5 Plug the dynamic foot-switch 21 into the socket 23 on the rear of the unit (quarter-turn-catch).
- 5.6 Switch on the mains switch 20 on the front of the unit (the control lamp lights up). The unit is switched off by pressing the mains switch 20 again.
- 5.7 Set the speed control knob 22 to the desired speed. (see digital display 24) The motor can be switched on or off by moving the pedal and the speed can be varied progressively up to the set speed.
- 5.8 The bench unit can also be operated without the dynamic foot-switch. Set the speed control knob 22 to the desired speed. The motor will begin to run immediately.

6. Operating the unit with a digital display

knee and foot models only

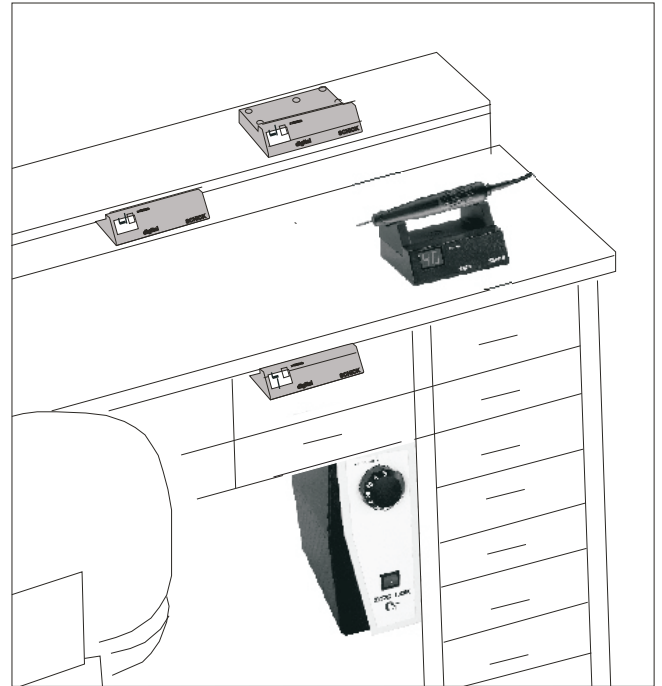
Insert the plug on the digital display 19 into the socket 18 in the rear of the unit.

When the unit is switched on, the digital speed indicator shows the pre-selected maximum speed. Once the motor is running, the actual speed of the motor is displayed.

To save space, the digital speed indicator can be placed under the handpiece rack or, if required, adhered to a bench top with double-sided adhesive tape.

table top unit

into the table top unit a digital display is integrated - the display operates in the same way as described above.



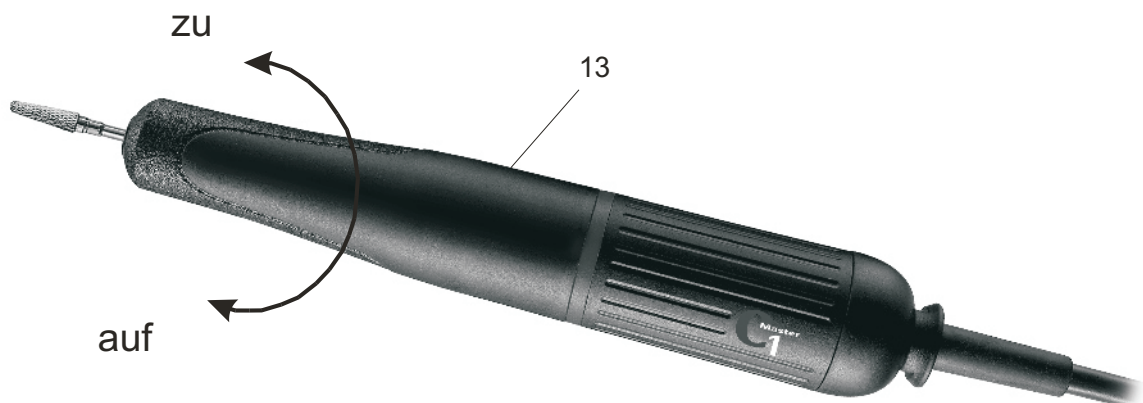
7. Exchanging the rotary instruments

The chuck is opened, respectively, closed by turning the outer sleeve 13 of the handpiece.

Caution:

Only ever exchange the rotary instrument with the motor switched off!

With regard to the precision and service-life of the chuck, an instrument must always be inserted into it - even when the handpiece is not in use.



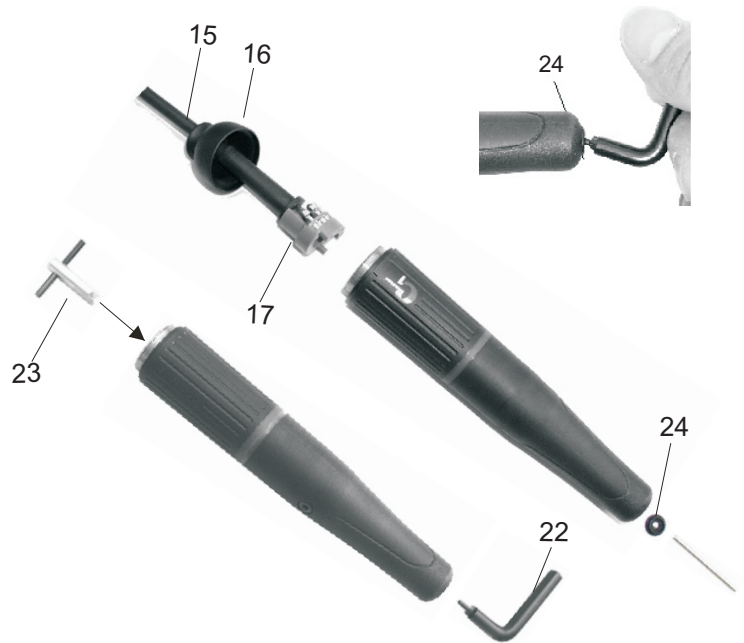
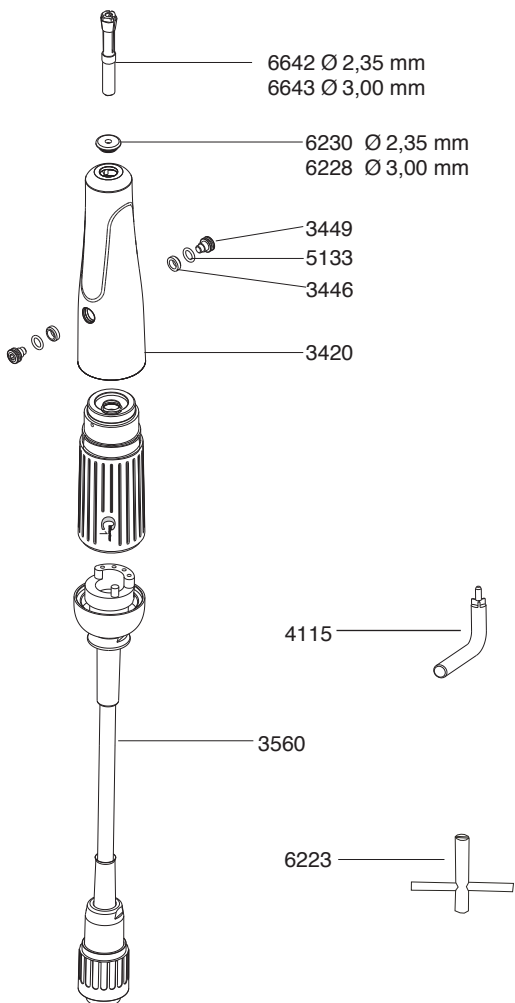
8. Replacing the chuck

- 8.1 Remove the motor cable 15. To do so unscrew the cap 16 from the motor and loosen the cable by pulling out the plug-in seal 17.
- 8.2 Open the chuck and withdraw the rotary instrument.
- 8.3 Remove sealing cap 24
- 8.4 Use a number 6223 wrench 23 to hold the motor end of the spindle. Insert the chuck tool No. 4115 22. Hold the number 6223 23 wrench tightly and turn the chuck tool anti clockwise to unscrew the chuck completely.
- the chuck has a right-handed thread!

- 8.5 Clean the chuck, grease it lightly and place it in the spindle. Use the tools to screw the chuck in - clockwise and as far as possible - as described in section 8.4 - and tighten it slightly. Replace the plug-in seal 17 and screw the cap 16 back into place. Replace the sealing cap 24 again.

Please note:

The tools 22 and 23 are to be found in the base of the handpiece rack!



9. Care and maintenance

Caution: Do not clean your C1 Master motorhandpiece with compressed air!

Chuck: should be cleaned and re-greased once in a while, depending on how dirty it is.

As C1 Master units have no commutators, carbon brushes or ventilation parts, no further maintenance is required.

10. Possible faults

Should the handpiece be overloaded, respectively, jammed, for safety reasons the unit will switch itself off.

- Release knee/foot switch and operate it again; the unit is ready for use immediately
bench controller version only

- When using the bench version without a pedal switch, the speed control knob should be turned to "0", when the desired speed is selected again; the unit is ready for use immediately.

- When using the bench version with a pedal switch it should be released and operated again; the unit is then ready for use again.

all versions

if the unit should not be running after doing as described above the 2 fuses have to be checked and eventually exchanged.

The fuses (2x T2AH250V/2x T4AH100V-115V) are to be found at the rear of the unit beneath the socket 1.

11. Technical Data

Dimensions:		C1/SK	C1/SF	C1/ST
	Width	107mm	225mm	225mm
	Height	243mm	110mm	110mm
	Dept	253mm	170mm	170mm

Weight	3,7 kg	3,0 kg	2,9 kg
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C1/MH	Length	158mm	Weight	200g
Power Supply:	AC 220-240V	115V	100V	
Nominal frequency:	50/60Hz			
Power input:	175W			
Type:	C1 Master			
Speed range:	1.000 - 40.000 min rpm			
Torque max.:	5,0 Ncm			
Safety class:	I			

This unit complies with the current VDE (German association of electrical technicians) regulations concerning safety and suppression.

These operating instructions should be readily accessible and are best kept close to the unit itself.

The oscillation total value during operation is below 2,5m/s² (EN 28662).

We would like to take this opportunity to advise you that a proper repair service and suitable qualified personnel are required for such highly developed technical equipment.

SCHICK guarantees to carry out perfect repairs using original spare parts.

12. Declaration of Conformity

We, SCHICK GmbH
Lehenkreuzweg 12
88433 Schemmerhofen

declare herewith, that the product

C1 Master installations consisting of
C1 Motorhandpiece 3500 connected with
C1 Control unit 3535, 3540 and 3545



is in conformity with the following provisions of Directive:

2006/42/EG (machinery directive)
2014/30/EU (EMV directive)

Name and address of
person in charge: Wolfgang Schick
Lehenkreuzweg 12
88433 Schemmerhofen

Schemmerhofen, February 2016

W. Schick
managing director

Subject to technical modification without prior notice

manufacturer:



Schick GmbH
Lehenkreuzweg 12
D-88433 Schemmerhofen
Telefon +49 7356 9500-0
Telefax +49 7356 9500-95
E-Mail info@schick-dental.de
Internet www.schick-dental.de