



Complete cleaning and massage of cows with a horizontal and a vertical brush for a comprehensive treatment of the back, flanks, abdomen, and chest of animals.

Manufacturer
SCHURR Gerätebau GmbH
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www.schurr-geraetebau.de
info@schurr-geraetebau.de

For a complete spare parts list, see www.schurr.digital or www.schurr-service.com

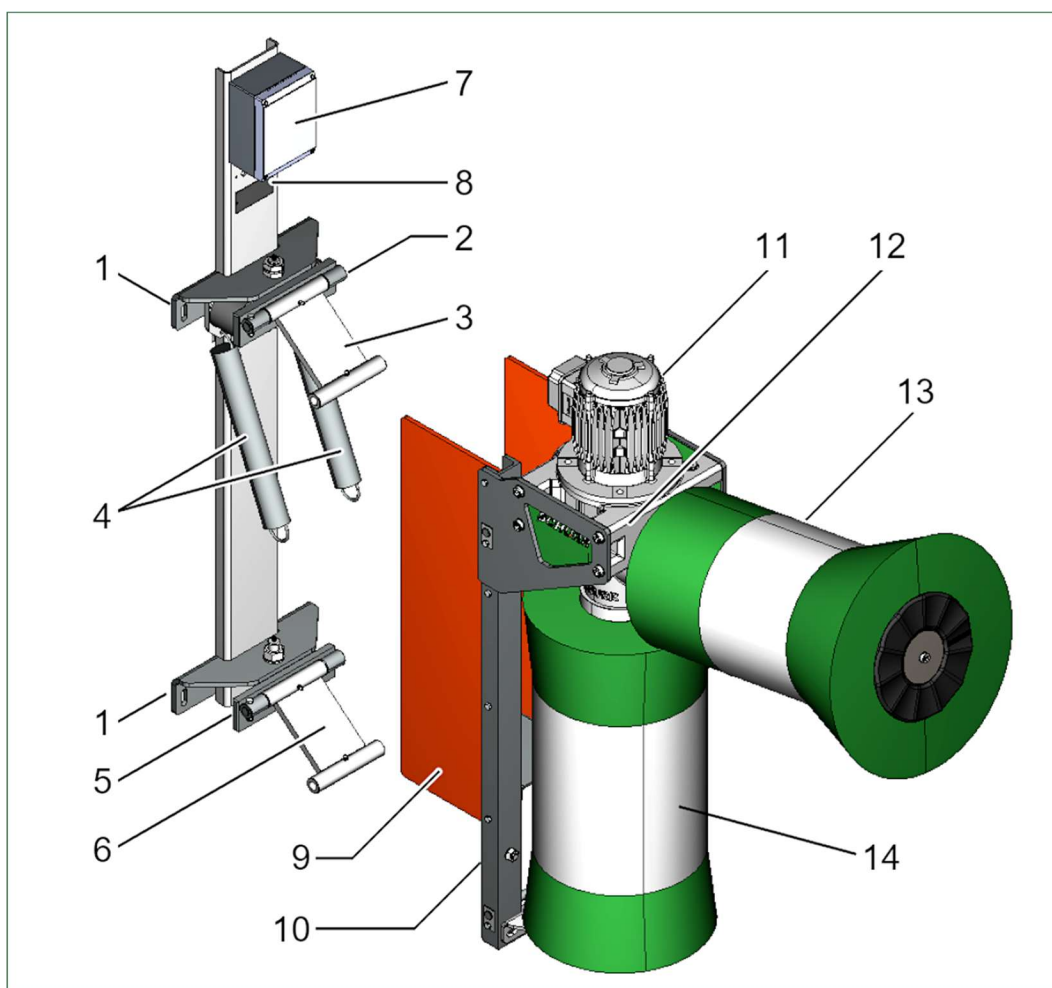


- Go to www.schurr.digital
- Type in serial number
- Download information about SCHURR cow-brush

Please always note the serial number from the designation plate on your SCHURR cow brush!

You can reach us by phone at: +49 (0) 7374 / 92 99 02-0 or byemail info@schurr-geraetebau.de

SETUP



<i>Pos.</i>	<i>Designation</i>	<i>Item number</i>
[1]	Wall mounting	12-0013
[2]	Upper side arm	10394-3
[3]	Upper vertical arm	10394
[4]	Tension springs	10160
[5]	Lower side arm	10394-3 (like pos. 2)
[6]	Lower vertical arm	10394 (like pos. 3)
[7]	 Electronic box complete with electronic card	10452-3 (B00) resp. FP-0314 (D22)
[8]	Designation plate/serial number → Please note the number!	_____
[9]	Rubber protective strips	10666 (1 pair)
[10]	Support frame for gearbox	10647
[11]	PM motor (power saving version – type D22) or standard motor (type B00)	22-0003 (D22) or 10680 (B00)
[12]	Gearbox	10391
[13]	Upper brush horizontal nylon PA6.6	10320
[14]	Lower brush vertical nylon PA6.6	10310

Spare parts can be ordered online at www.schurr-geraetebau.de!

For a complete list of spare parts, see www.schurr.digital

TECHNICAL DATA

Overall machine

Dimensions	See "Assembly" page 5
Weight	approx. 130 kg
CE-confirmation	Maschinenrichtlinie 2006/42EG
Normen	EN 60204-1:2006 EN 62061:2005 EN 12100:2010
Electrical connection	Earthed socket
Supply voltage	230 V AC 50 Hz (others on request i.e. 60Hz etc.)
Power consumption	D22: approx. 0.17 KW - B00: approx. 0.28 KW - max. 700 W
Connection cable	EU plug with 2 m cable
On-site fuse protection of the socket	max. 16 A miniature circuit breaker plus residual current operated circuit breaker (RCCB) with max. 30 mA rated residual current
Protection class	IP54 (suitable for outdoor use)
Speed of the brushes	approx. 60 1/min
Idle overrun	approx. 20 s (adjustable)
Internal protection of the electronics	5A slow-blow glass tube fuse 5x20 mm
Mechanical height compensation	approx. 220 mm

EU DECLARATION OF CONFORMITY

The manufacturer hereby declares on his own responsibility that the product

SCHURR cow-brush 2 brush-system type B00/D22

complies with the requirements of the following directives and standards:

2006/42/EC Machinery Directive

2014/30/EU Electromagnetic Compatibility Directive

2011/65/EU RoHS Directive

Applied harmonised standards

EN 12100:2010 Safety of machinery General principles for design

EN 60204-1:2007-06 Safety of machinery Electrical equipment of machines

EN 61000-6-1:2007 Electromagnetic compatibility (EMC) Part 6-1: Generic standards Immunity

EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use

Authorised representative for the provision of technical documentation:

Uttenweiler, 16-5-2022

SCHURR GERÄTEBAU GmbH, Uttenweiler

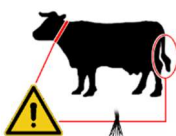

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Philip Schurr, CEO

SAFETY for humans and animals

Dangers in handling the machine

Dangers and impairments can arise when using the machine

- to life and limb of the operators or third parties,
- for life and limb of the animals,
- for the machine itself and on other material assets.

				
Observe the documentation!	Ensure proper assembly and installation!	Installation and operation only in areas with controlled access!	Make sure the animals are not wearing loose collars or ropes, trim tail hair!	Drive of the machine is started by movement of the brush!

WARNING!



Dangers due to motor-driven brushes!

Hair and clothing can be pulled in or wound up.

- Do not touch rotating brushes!
- Maintain the necessary safety distance!
- If necessary, wear hairnet and tight-fitting clothes!

WARNING!



Dangers due to electric current! Electric shock and burns are possible.

- Connection and repair work only by a qualified electrician!
- Observe general and locally applicable safety rules and regulations!

Usage

			
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The machine may only be used for cow cleaning and massage.

(We recommend 80-100 milking cows per SCHURR 2-brush-system)

The 2-brush system must not be used

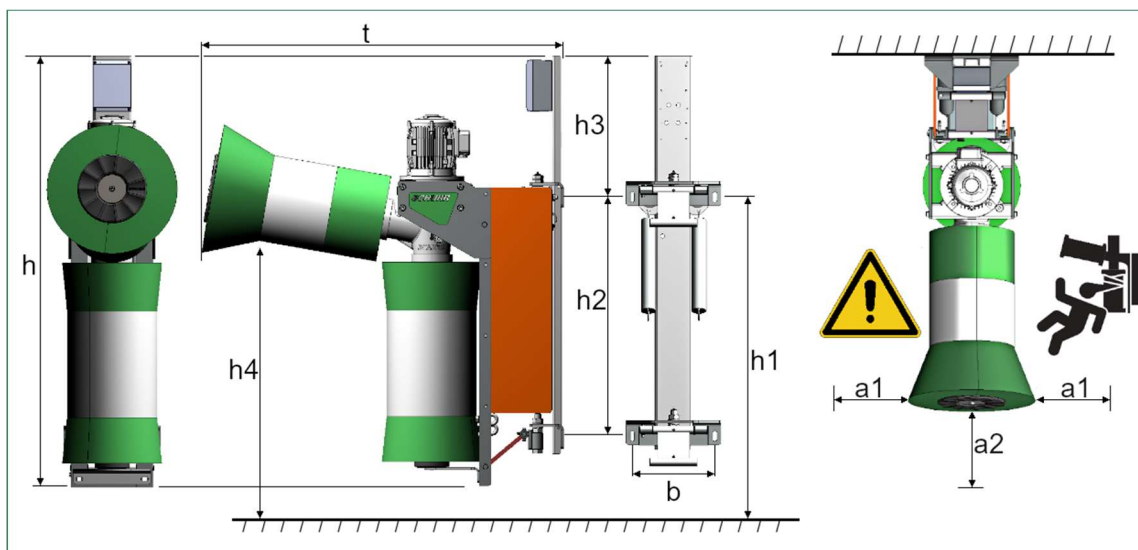
- for the treatment of humans, other animal species or objects;
- in explosive environments.

Important specifications for operation:

- Have assembly, commissioning and maintenance performed by qualified personnel.
- Only use original spare parts from Schurr!
- www.schurr.digital or order at www.schurr-geraetebau.de

ASSEMBLY

Sufficient fixing is crucial for safe operation!
Note the load caused by the weight of the device and the pressure exerted by the animals!
No warranty or liability claims in case of improper mounting!



Examples of mounting heights

Schwarzbunt (Friesian)	$h_1 = \text{approx. } 1.53 \text{ m to } 1.57 \text{ m from the ground}$
Simmental, Brown Swiss	$h_1 = \text{approx. } 1.52 \text{ m to } 1.55 \text{ m from the ground}$
Suitable mounting height $h_1 \Rightarrow \text{average animal height} + 10 \text{ cm}$	

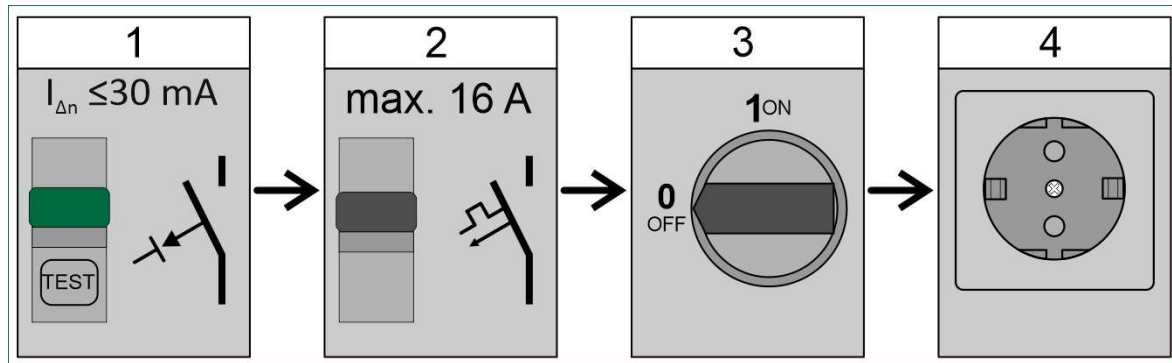
Distance $a_1 + a_2$ (recommendation)	$a_1 = \text{approx. } 1 \times \text{cow length}$ $a_2 = \text{approx. } 1 \times \text{cow width}$
Width b	260 mm
Height h	approx. 1400 mm
Height h_1	approx. 1520 mm - 1570 mm (see examples below)
Height h_2	750 mm
Height h_3	450 mm
Height h_4	$h_1 - \text{approx. } 100 \text{ mm}$ (mounting height minus approx. 100 mm)
Radius t	approx. 1150 mm

Fasteners (available from Schurr on request)

Concrete	heavy-duty dowels M12
Masonry	continuous threaded rods (i.e. M12 – 8.8)
Wood	continuous threaded rods (i.e. M12 – 8.8)
Steel	min. 100mm round or 120/120mm square
Fastening material - available from SCHURR on request (round tube mounting, wall elevation, stand posts, etc.)	

POWER SUPPLY and COMMISSIONING

Power supply



- [1] Residual current operated circuit breaker (RCCB) type B, rated residual current $I_{\Delta n} \leq 30 \text{ mA}$
- [2] Miniature circuit breaker
Rated current max. 16 A, recommendation: Type B
- [3] Recommendation: On-site mains switch, dimensioning to match the miniature circuit breaker
- [4] Earthed socket L/N/PE

Dimensioning of the switchgear, installation, and connection only by qualified electricians in compliance with the directives and specifications applicable at the place of operation.
Voltage and power consumption see "Designation plate"

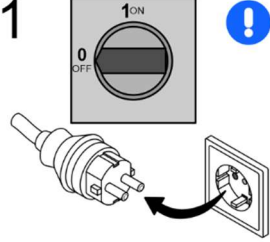
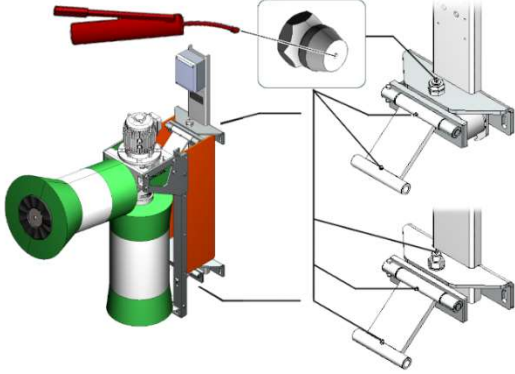
Commissioning and operation

1	2	3	4
Switch off the switch, unplug the mains plug	Carry out a visual inspection for damage Check for secure fastening	Prevent access for unauthorised persons!	Plug in mains plug

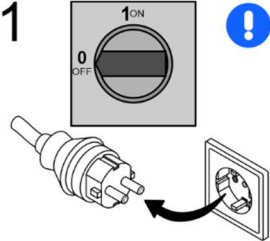
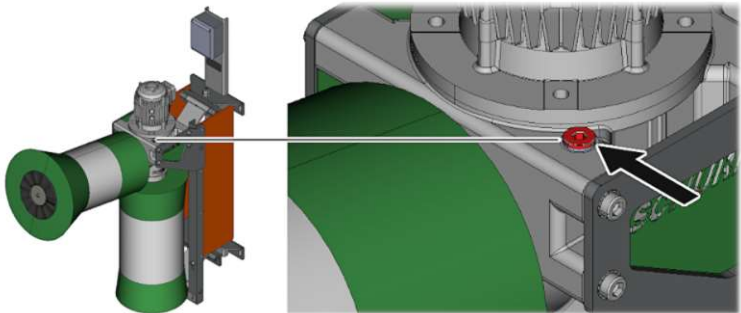
5	6	7	8
Carefully rotate brush by hand CAUTION! Drive switches on!	Brush turns without load! Drive must switch off after approx. 20 seconds! While the brush is under load, it runs continuously!	Operate brush Provide free access for animals Control takes place through the animals	Maintenance/ decommissioning Unplug the mains plug

MAINTENANCE and CLEANING

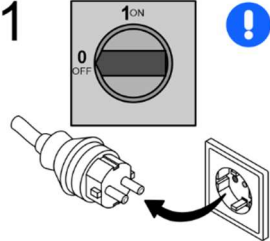
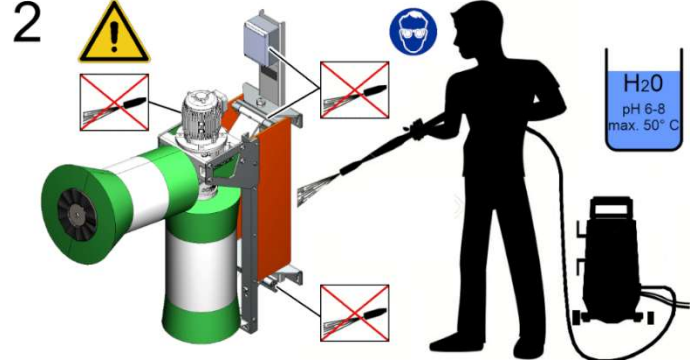
Lubrication

1 	2 
Unplug the mains plug	The cone-head grease nipples are directly accessible. Swing arm/rotary adapter on top, accessible from above. Swing arm/rotary adapter at the bottom: accessible from below. Lubrication with acid-free machine grease with grease gun for cone-head grease nipples. Tip: Raise brush unit to the upper end position

Check oil level

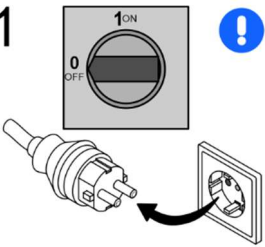
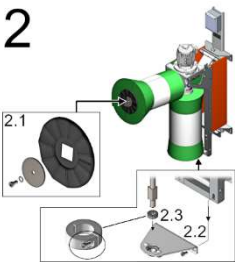
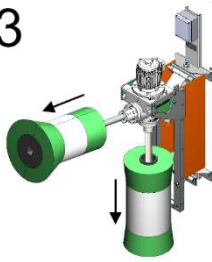
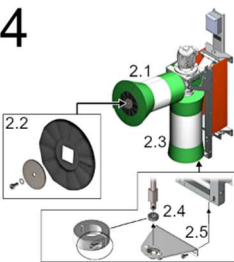
1 	
Unplug the mains plug	The gear unit must be filled to the brim with oil. Regularly check the oil level at the breather screw of the gearbox. Oil type: 85 W 90 or similar

Cleaning

1 	2 
Unplug the mains plug	Hose down brushes with high-pressure cleaner. Remove hair and dirt. Wear protective goggles! Do not spray on motor and control!

REPAIR and DIAGNOSIS

Change brushes

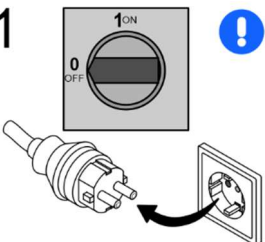
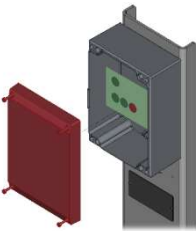
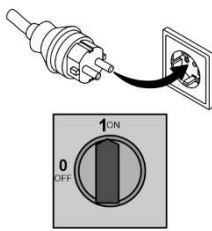
1 	2 	3 	4 
Unplug the mains plug	Remove the fastening screw on the front side and the lower bearing support and clamping ring	Pull the brushes off the shaft and fit new brushes	Insert and tighten fastening screw, insert and fix clamping ring, mount bearing support

WARNING!

Dangers due to electric current! Electric shock and burns are possible.

- Connection and repair work only by a qualified electrician!

Check diagnostic LEDs on the board

1 	2 	3 	<i>for type B00:</i>  LED „12V“ is ON = power supply is OK <i>for type D22:</i>  LED „POWER“ is ON = power supply is OK
Unplug the mains plug	Open the cover of the control box.	Plug in mains plug	

 Carefully rotate brush by hand CAUTION! Drive switches on!	Let the brushes turn without load: Motor switches off after ca. 20 sec.  LED „work“ must be off = brush/motor is not loaded	Brake the brushes manually, i.e. with wooden board etc.  LED „work“ lights up = Brush/motor is loaded – motor rotates as long as the LED ‘work’ is ON
See more information inside the control box!		

For type B00:

-  LED „12V“ is OFF = check your power supply and/or the fuse (5 ampere slow)!
-  LED „error“ is ON = there is a fault, unplug the mains plug and plug it in again
-  LED „defect“ is ON = PCB defective, pull out the mains plug and contact us! Change the PCB etc.

For type D22:

-  LED „12V“ is OFF = check your power supply and/or the fuse (5 ampere slow)!
-  LED „failure“ flashes = there is a fault, unplug the mains plug and plug it in again
-  LED „failure“ is ON = PCB defective, pull out the mains plug and contact us! Change the PCB etc.

FOR ANY QUESTIONS, COMMENTS and/or SUGGESTIONS FOR IMPROVEMENT, do not hesitate to contact us!

Misprints, errors and technical changes reserved.