













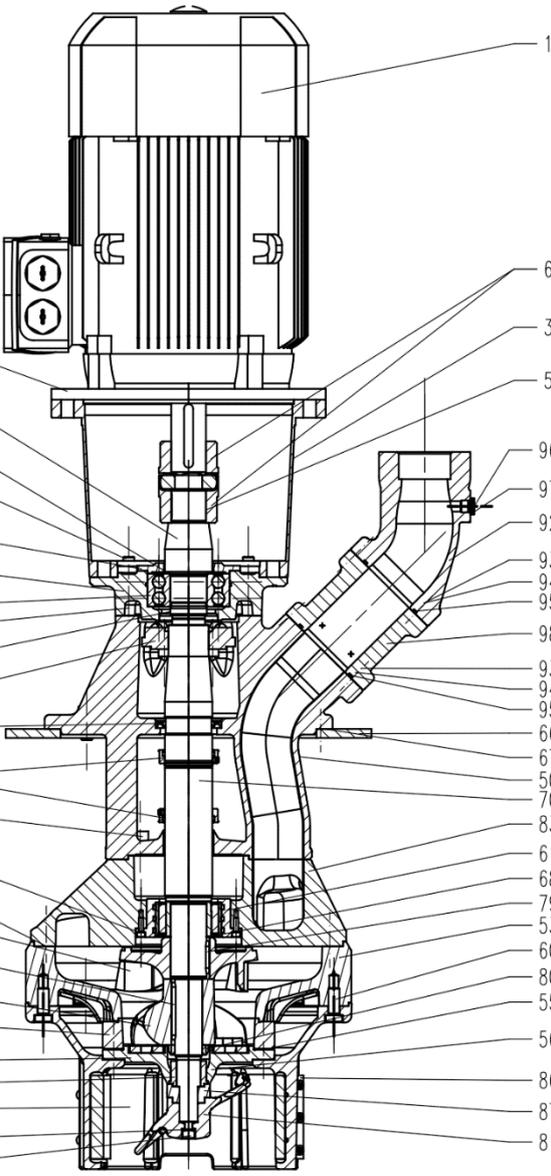






## 10 Spare part

### 10.1 Spare part list for the immersion pumps of the series SXC2824



Item	Description	
1	Motor	
2	Bearing flange	
3	Pump housing	
4	Bearing shaft	
5	Woodruff key	
6	Coupling	
9	Ball bearing	DIN 628
11	Socket head cap screw	DIN 912
12	Socket head cap screw with lock with spring washer	DIN 912 DIN 7980
17	Socket head cap screw with lock	DIN 912
20	Bearing cover	
21	Retaining ring	DIN 7603
22	Shaft nut	
50	Pump body	
52	Shaft seal	
53	Intake cover	
54	Socket head cap screw with lock	DIN 912
55	Washer	
56	Chip breaker	
57	Bearing bush	
58	Socket head cap screw with lock	DIN 7984
59	Inlet cover	
60	Socket head cap screw with lock	DIN 7984
61	Bushing cartridge assembly	
65	Socket head cap screw with lock	DIN 912
66	Pump sheets	
67	Socket head cap screw with lock	DIN 912
68	Distance plate	
70	Insert shaft	
71	Shaft clamp	
72	Splash ring	
75	Impeller	
76	Key	DIN 6885
78	Suction screw	
79	Key	DIN 6885
80	Shaft nut	
81	Agitator	
82	Socket head cap screw with lock	DIN 912
83	Pump plate	
84	Socket head cap screw with lock	DIN 912
85	Serrated lock washer	
86	Hard metal plates	
87	Scraper SXC2824-H	
88	Wear protection SXC2824-H	
92	Joining socket	
93	Socket head cap screw	DIN 912
94	Spring washer	DIN 7980
95	O-ring	
96	Screw plug	DIN 908
97	Sealing ring	DIN 7603
98	Adapter	

Drawing 4

## 10.2 Indications to the spare part order

Spare parts are available from the supplier. Standard commercially available parts are to be purchased in accordance with the model type. The ordering of spare parts should contain the following details:

### 1. Pumptype

e.g. SXC2824 / 480

### 2. Pump No.

e.g. 0120233124

The date of the construction year is a component of the pumps type number.

### 3. Voltage, Frequency and Power

Take item 1, 2 and 3 from the nameplate

### 4. Spare part with item No.

e.g. Intake cover item No. 53

## 11 Repair Instructions / Replacing shaft clamps and shafts



Drawing 5

### 11.1 Dismantling the insert shaft or extension shaft

- Disconnect the submersible pump from the mains both electrically and mechanically.



#### CAUTION

##### Risk of burns!

- The pump must have cooled down sufficiently prior to commencing any repair or maintenance.



#### WARNING

##### Risk of squeezing or crushing body parts when installing or removing the pump exists!

- Secure pump with appropriate hoist.
- Remove pump from system. Secure pump against tipping over, i.e. use ropes to secure pump.
- Disassemble the motor.
- Set the pump down on the pump housing.
- Dismantle the pump unit and the extension pump body (if appropriate).



#### WARNING

##### Risk of injury due to sharp edges on pump components, i.e. impeller blades!

- Wear safety gloves!



#### WARNING

##### Risk of injury by discharging parts!

- Do not, under any circumstances, remove the screws on the shaft clamp (1) completely.
- Remove the extension shaft (2) and shaft clamp (1).
- Dismantle the pump body.
- Loosen the screws on the shaft clamp (1) (see above), pull the insert shaft (2) off the motor shaft (3).

### 11.2 Assembling the insert shaft and motor shaft



#### WARNING

##### Risk of jamming or crushing during pump installation or removal!

- Secure pump with appropriate hoist.

#### ATTENTION

- Clean the contact surfaces of the insert shaft (2) (inside) and the motor shaft (3). They must not be lubricated or oiled.
- Set the pump down on the pump housing.
- Position the shaft clamp (1) (use a new shaft clamp) in the centre of the cranked clamping diameter (2) of the insert shaft.
- Insert the motor shaft (3) into the insert shaft (2).
- Tighten:  
Mark the first screw and tighten all the screws evenly by hand, one after the other in a clockwise direction (not cross-ways).
- Use a torque screwdriver to tighten each screw first with 12 Nm then with 24 Nm and finally with 35 Nm (in a clockwise direction again).
- Repeat the last turn (with 35 Nm) 3 times.

**WARNING**

**Risk of injury due to sharp edges on pump components, i.e. impeller blades!**

- Wear safety gloves!
- Install the motor.
- The remainder of the reassembly process is to be completed in the opposite order of the prior described dismantling process.

**ATTENTION**

Assembly help and detailed instruction is demanded for the assembly of the pump and adjusting of the cutting unit!

- Request the required documents from the manufacturer.
- Note torques for the screw connections!

**Tightening torques for screwed connections**

Thread - Ø	M5	M6	M8	M12	M16
<b>Strength classes</b>	8.8	8.8	8.8	8.8	8.8
<b>Tightening torque (Nm)</b>	3 Nm	4.5 Nm	20 Nm	80 Nm Item 54, 60, 84	60 Nm Item 93 100 Nm Item 54

- Pump Installation. Secure pump against falling over. i.e. with use of safety straps.
- Reconnect immersion pump as described in point 5.

**ATTENTION**

- When putting the pump back into use, **make sure the direction of rotation is correct** (see point 6.1)!

**12 Disposal**

When disposing of the pump or the packaging materials the local and national regulation for proper disposal must be complied with.

- Prior to its disposal, the pump must be completely drained and decontaminated if necessary.

## 13 Declarations of conformity

### 13.1 UK declaration of conformity



#### UK declaration of conformity

Manufacturer

**Brinkmann Pumpen, K. H. Brinkmann GmbH & Co. KG**  
**Friedrichstraße 2**  
**D-58791 Werdohl**  
**Germany**

**This declaration of conformity is issued under the sole responsibility of Brinkmann Pumps and belongs to the following product.**

Product name

**Cutter Pumps**

Type **SXC2824 / SXC2824-H**

The named product described above complies with the following statutory requirements of United Kingdom:

**UK SI 2008 No. 1597      The Supply of Machinery (Safety) Regulations 2008**

**UK SI 2016 No. 1091      The Electromagnetic Compatibility Regulations 2016**

**UK SI 2020 No. 1647      The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2020**

**The following exceptions in accordance with table 1, "Table of exempted applications" are claimed: No.12 (6a), No.15 (6b)**

The following designated standards and technical specification have been applied:

**EN 809:1998+A1:2009+AC:2010**

**EN ISO 12100:2010**

**EN 60204-1:2018**

**EN IEC 61000-3-2 :2019**

**EN 61000-3-3 :2013+A1 :2019**

**EN IEC 61000-6-2 :2019**

**EN IEC 61000-6-3 :2021**

**EN IEC 63000 :2018**

Additionally the following standard has been applied:

**EN 60034-1 :2010/AC :2010**

**The instructions contained in the operating manual for installation and start up the pump have to be followed.**

**Brinkmann Pumpen, K. H. Brinkmann GmbH & Co.**  
**KG**

Werdohl, 16.01.2023

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