



# SHG 230 110V

## Single Head Grinder



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## 2 Machine applications

Grinding of horizontal, dry floors such as concrete surfaces with or without a coating using SASE QCS diamond tooling. The use of the machine outside is only possible in dry weather.

## 3 Technical data

Grinding width	230 mm (9 in)
Width	30 cm (12 in)
Length	60 cm (24 in)
Height	51 cm (20 in)
Weight	42 kg (93 Lbs)
Speed of grinding head	1680 rpm
Hose ↓	50 mm (1.97 in)
Average value of acceleration $a_{hv}$ *	9.6 m/s <sup>2</sup>
Noise level $L_{wa}$ *	100 dB(A)
Noise level $Leq$ *	90 dB(A)

## 4 Safety rules for the operation of the floor grinder

**Attention!** The SHG 230 floor grinders are constructed according to existing safety rules and regulations. These technical precautions should not be removed or changed under any circumstances. While operating the machines the following points should also be kept in mind:

1. The grinders should always be operated with all safety covers and technical precautions.
2. During transport, cleaning, repair or maintenance the grinder must be disconnected from the power source. This also applies to the changing of tools.
3. The safety ring (Diagram No. 17) can only be removed while operating the machine directly against the wall. While operating the machine without the safety ring dust can be generated. In this case the operator must wear a mask. In all other cases the grinder must be operated with the safety ring.
4. The operator should never leave the machine unattended during operation.
5. Before leaving the machine all rotary parts should be brought to a stand still. Electric models must be disconnected from the main power source. Make sure that the machine cannot roll or move by itself.

6. After any maintenance and adjustment all safety covers must be reattached.
7. Ear protectors must be worn.
8. Eye protectors must be worn.
9. Safety shoes with steel caps must be worn.
10. The SHG 230 must be connected to an industrial vacuum.
11. Depending on the floor (floor coating) grinding can produce gases. The operator must be held responsible if these generated gases are dangerous and if protection is necessary. Grinding floors containing asbestos is especially dangerous and can cause health problems. Special masks must be worn to keep the breathing air clean. A dust collector must be used and should be equipped with filters suitable for asbestos dust.
12. The floor must be swept before grinding to remove loose materials. Anchor screws and bolts coming out of the floor can also be seen better if the floor is clean. If the grinding head hits an anchor screw or bolt then serious damage can be caused to the machine or grinding head.

## 5 Operating

Disconnect the grinder from the power supply!

After mounting the appropriate tools, the operation of the grinder can begin.

Adjust the grinder by loosening the screws of the rear wheel swing (Appendix diagram No. 3) and changing its position in the slots so that the motor axis is 90° level to the floor. Tighten the screws again. Connect the grinder to the mains. Lift the tool from the floor by tilting the machine onto its back wheels. Switch the motor on.

**Attention**, when switching on the motor, beware the machine can jump slightly.

After the motor has reached full speed, place the grinding head carefully on the floor. If the machine is correctly adjusted (see above) it is easy to move across the floor. If the machine pulls to the left or right, the machine has to be re-adjusted by changing the position of the rear wheel swing (see above).

**Attention:** Never switch the motor on while the grinding head is on the floor.

Dust emission should be prevented by connecting a industrial vacuum.

Before finishing the grinding process the machine must be turned off and the tools have to be brought to a stand still by letting them touch the floor. Disconnect from the power supply.

## 6 Changing of the tools

**Attention:** Before working on the grinder bring the motor to a total stand still and disconnect from the power supply.

**Attention:** Tools can be hot after use.

- Tilt the machine onto the back wheels and rest it on the handlebar.
- All tool discs are fixed with three Allen screws to the tool bracket.
- Remove the screws with an 8mm Allen key.
- Check the grinding tool for wear and tear for the next application.
- Fix new tools according to the appendix
- Adjust the different heights of the tools by changing the position of the rear wheel swing (see chapter 5 Operating). The motor axis of the grinder has to be 90° level to the floor.

## 7 Appendix

Diagrams

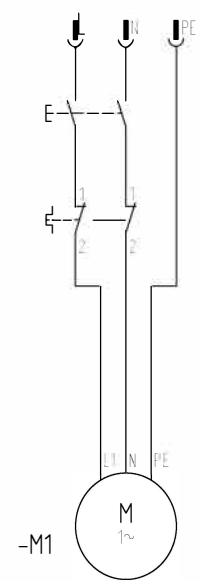
Tools

Part list

# SASE SHG 230 Grinder

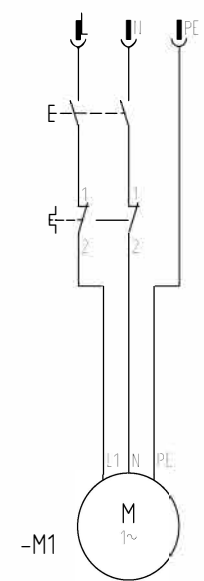
Pos.	Part No.	Description	Quantity
001	04-10-01-00	Frame	1
003	04-10-04-01	Rear Swing Arm	1
005	80-20-52-22	Rear Wheel	2
007	04-17-06-01	Bracket for Coupling	1
009	90-25-10-01	Rubber Coupling	1
010	14-17-10-05-N	Tool Bracket	1
011	04-10-05-01-N	Bracket for Diamond Shoes	1
013	70-23-76-70	Rubber Sealing	1
015	90-27-03-01	Steel Clamp	1
016	70-23-81-65	Dustring for Pads	1
017	70-23-81-50	Dustring	1
019	55-03-11-11-US	Motor	1
021	04-10-02-01-N	Handle lower part	1
023	04-10-03-00-N	Top Handle	1
025	60-30-10-50	Cross Handle Screw	2
027	50-20-203-742	Switch	1
029	70-21-120-90	Rubber Grip	2
031	90-21-45-13	Handle	1
033	04-10-08-00	Spacer	1
035	90-20-00-24	Strain-Relief	1
037	90-09-SW-8	Allen Key 8 mm	1
059	04-10-05-02	Bracket for Sandpaper	1
060	04-10-05-03	Bracket for Pads	1

Europa  
230V 50Hz



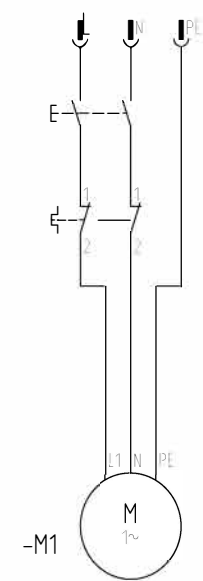
P = 2KW  
U = 230V 50Hz  
I = 13,0A  
n = 1290 min-1  
50yF 450V

USA  
115V 60Hz



P = 1,1KW  
U = 115V 60Hz  
I = 15,0A  
n = 1690 min-1  
160yF 220V

GB  
110V 50Hz

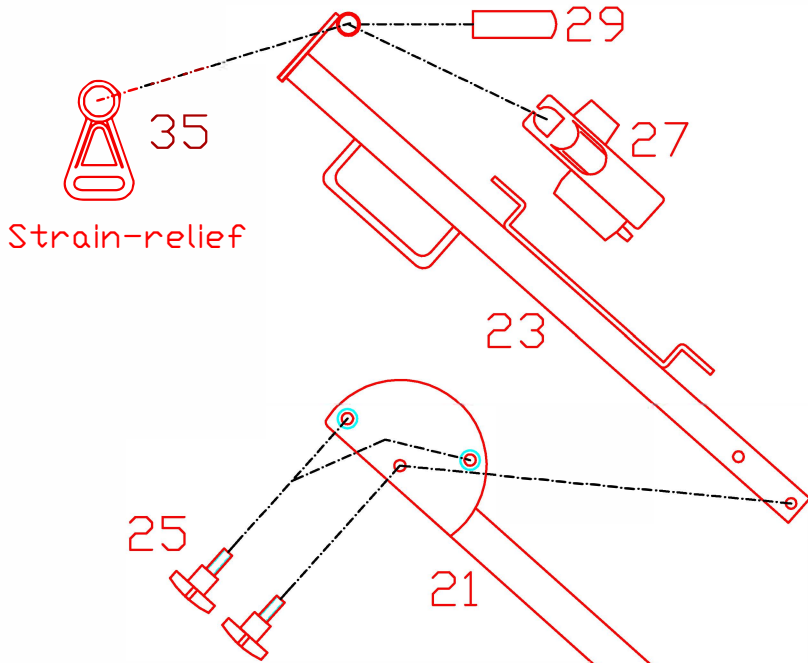


P = 1,5KW  
U = 110V 50Hz  
I = 19,7A  
n = 1380 min-1  
200yF 220V

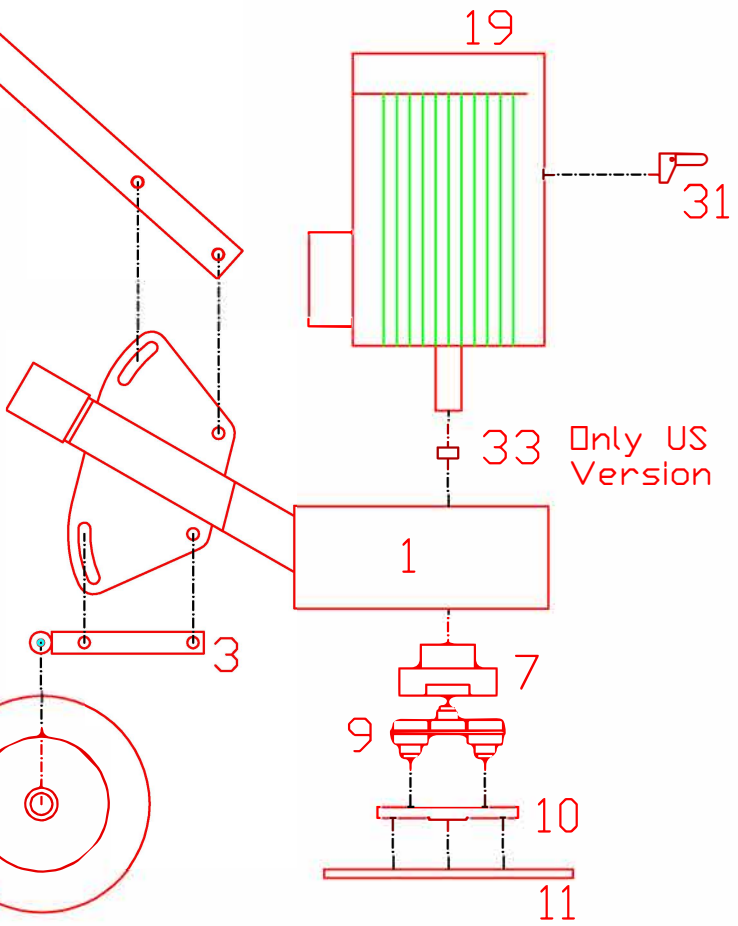

vers.1.0


Blatt 1  
von 1 Bl.

SHG 230  
 115 V, 60 Hz  
 230 V, 50 Hz  
 (c) Contec GmbH 2015



Strain-relief



Only US Version

- |       |                                                               |
|-------|---------------------------------------------------------------|
| A     | - Sechskantschraube / Hexagon bolt                            |
| B     | - Innensechskantschraube / Allen key bolt                     |
| C     | - Innensechskantsenkopfschraube / Allen key counter sunk bolt |
| D     | - Linseninnensechskantschraube / Allen key lens head bolt     |
| S     | - Scheibe / Washer                                            |
| SR    | - Sprengring / Circlip                                        |
| SS    | - Sicherungsscheibe / Lock washer                             |
| M     | - Mutter / Nut                                                |
| SM    | - Stopfmutter / Locknut                                       |
| 3.1:  | 2xA(M10x75), 8xS, 2xSM                                        |
| 5.1:  | 2xC(M6x16), 2xS(D30/10x3.5)                                   |
| 21.1: | 2xA(M10x75), 4xS, 4xS(D25/10x4), 2xSM                         |
| 19.1: | 4xA(M10x25), 4xS, 4xSR                                        |
| 7.1:  | 1xA(M10x30)                                                   |
| 9.1:  | 2xD(M10x50)                                                   |
| 10.1: | 2xD(M10x55)                                                   |
| 11.1: | 3xB(M10x20) halbhoch, 3xSS                                    |

