



FLOOR PLANER/SCARIFIER

CT250

OWNER'S MANUAL AND PARTS BOOK



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1. Machine applications

Planing of horizontal, dry floors such as concrete and steel surfaces with or without a coating and asphalt using CONTEC® planing tools. The use of the machine outside is only possible in dry weather.

2 Technical data

2.1 Planer

Width of cut	250 mm (10 in)	
Width	44 cm (17 in)	
Length	104 cm (41 in)	
Height	99 cm (39 in)	
Weight	135 kg (298 lbs)	
Dust port \varnothing	70 mm (2.86 in)	
Height adjustment	Hand wheel and lever	
Electric motor	USA	460 V, 9 kW (12 hp), 60 Hz
Honda petrol	9 hp	
Other motors	On request	
Average value of acceleration a_{hv} *	8.6 m/s ²	
Noise level L_{wa} *	109 dB(A)	
Noise level Leq *	96 dB(A)	

2.2 Tools

Drum diameter	180 mm (7.3 in)
Cutter shaft diameter	16 mm (0.65 in)
Number of shafts	6
TCT Cutter	57/6
Milling cutter	57/20
Beam flails	57
Cutter diameter	57
Max. No. of cutters	132
Max. No. of milling cutters	36

All specifications are approximate and subject to confirmation. They should only be used as a guide.

3. Applications of the tools

TCT Cutters	Heavy duty, long life cutters for all concrete texturing, scabbling, planing and grooving applications. Also used for removal of road markings, roof chippings and brittle coatings
Milling cutters	Primarily for the removal of thermoplastic road / runway markings. Tipped with tungsten carbide they are cost effective and highly efficient. A range of cutter dimensions are available.
Beam flails	Heat treated cutters for the removal of paint coatings and laitance from new concrete. Also for removing grease, dirt and ice deposits.

4. Safety rules

Attention ! The CT 250 floor planers 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 planers should always be operated with all safety covers and technical precautions.
2. The operator should never leave the machine during operation.
3. Before leaving the machine all rotary parts should be brought to a stand still. The electric models must be disconnected from the mains. Make sure that the machine cannot roll or move by itself.
4. After maintenance and adjustment all safety covers must be reattached.
5. If the noise level exceeds 90 dB(A) ear protectors must be worn.
6. In the event of a large amount of dust during operation connect a dust collector to the planer.

5. Operating

After mounting the appropriate tools the operation of the planer can begin.

The lever of the height adjustment (Appendix diagram No. 97 and 99) has to be in the upper position before the machine is switched on. The hand wheel of the height adjustment must also be turned anti-clockwise as far as possible.

Switch the motor on. Make sure the motor is spinning in the correct direction. If not, two phases of the power supply have to be swapped with each other. The correct direction is indicated by an arrow on the motor fan.

Attention: Operating the machine with the motor spinning in the wrong direction can cause serious injury to the operator. The machine will jump towards the operator.

Lower the planer with the lever to the operating position. Turn the hand wheel of the height adjustment until the tools are lowered to the floor and until you achieve the required finish.

Attention: Lowering the tools too much decreases the performance of the machine. You will also

destroy the shafts in the drum and the bearings of the machine.

Attention: Never switch the motor of the planer on while the tools still touch the floor. Always lift the machine and the tools clear from the floor and then switch the motor on.

Heavy dust can be avoided by connecting a dust collector to the dust port.

The vibration damped handle bar ensures an easier operation.

6. Changing the drum

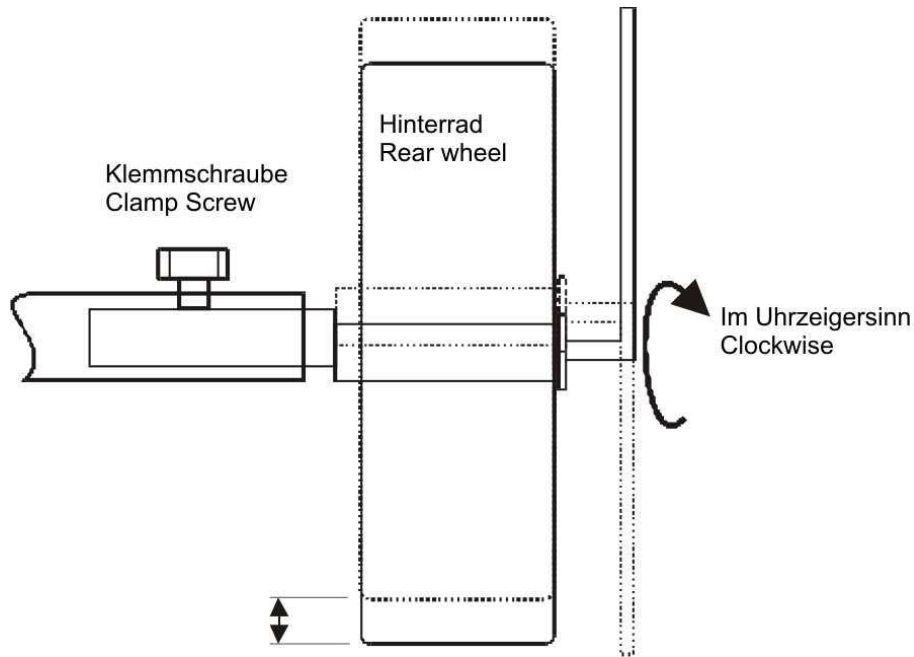
Attention: Before any maintenance, the machine must be brought to a complete stand still. Always disconnect the machine if it is an electric model.

- Lift the machine with the lever so that the tools are well clear of the floor.
- Unscrew the screws on the right side plate (M10, Key width 17 mm)
- Carefully remove the side plate.
- Take out the drum. Remove worn out tools. Check shafts and drums for wear and tear. If necessary replace new tools on the drum.
- Push drum on freshly greased shaft.
- Reconnect side plate.

7. Adjusting the drum

During the operation of the CT 250 floor planer or after a drum has been changed or replaced, the drum shaft and the rear wheel axis can fall out of alignment. This results in an uneven track on the floor. On one side the drum touches the floor before the other and therefore removes more surface material on this side.

The two rear wheels are mounted on an eccentric shaft (see diagram).



If the drum has to be adjusted proceed as follows: Place the planer on an even floor. Lift the machine with the height adjustment hand wheel, until all the tools are well clear of the floor. Loosen the clamping screw of the eccentric shaft. On the other side of the rear wheel is a screw which keeps the wheel on the shaft. Turning the screw will also turn the eccentric shaft. The floor planer moves up and down on one side. Always turn the screw clockwise. Anti clockwise would loosen the screw. Keep turning until all the tools on the drum are the same distance to the floor. Tighten the clamping screw again.

8. Maintenance and cleaning

8.1 Bearings

All bearings are greased for their life time.

8.2 Height adjustment and joints

All joints have to be greased periodically with a standard machine grease.

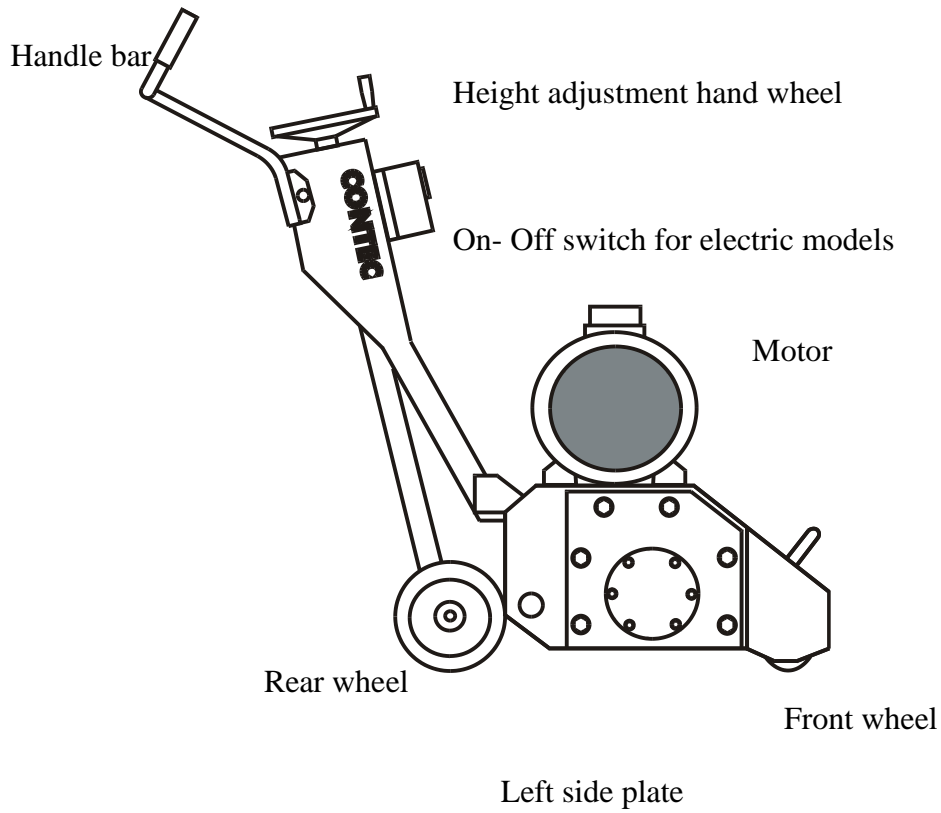
8.3 Belt drive

Check the belt after approximately every 30 hours of operation. For tensioning the belt you need to change the position of the belt tensioner wheel underneath the belt cover.

8.4 Cleaning

Regular cleaning of the machine increases the life of all components and tools of the planer.

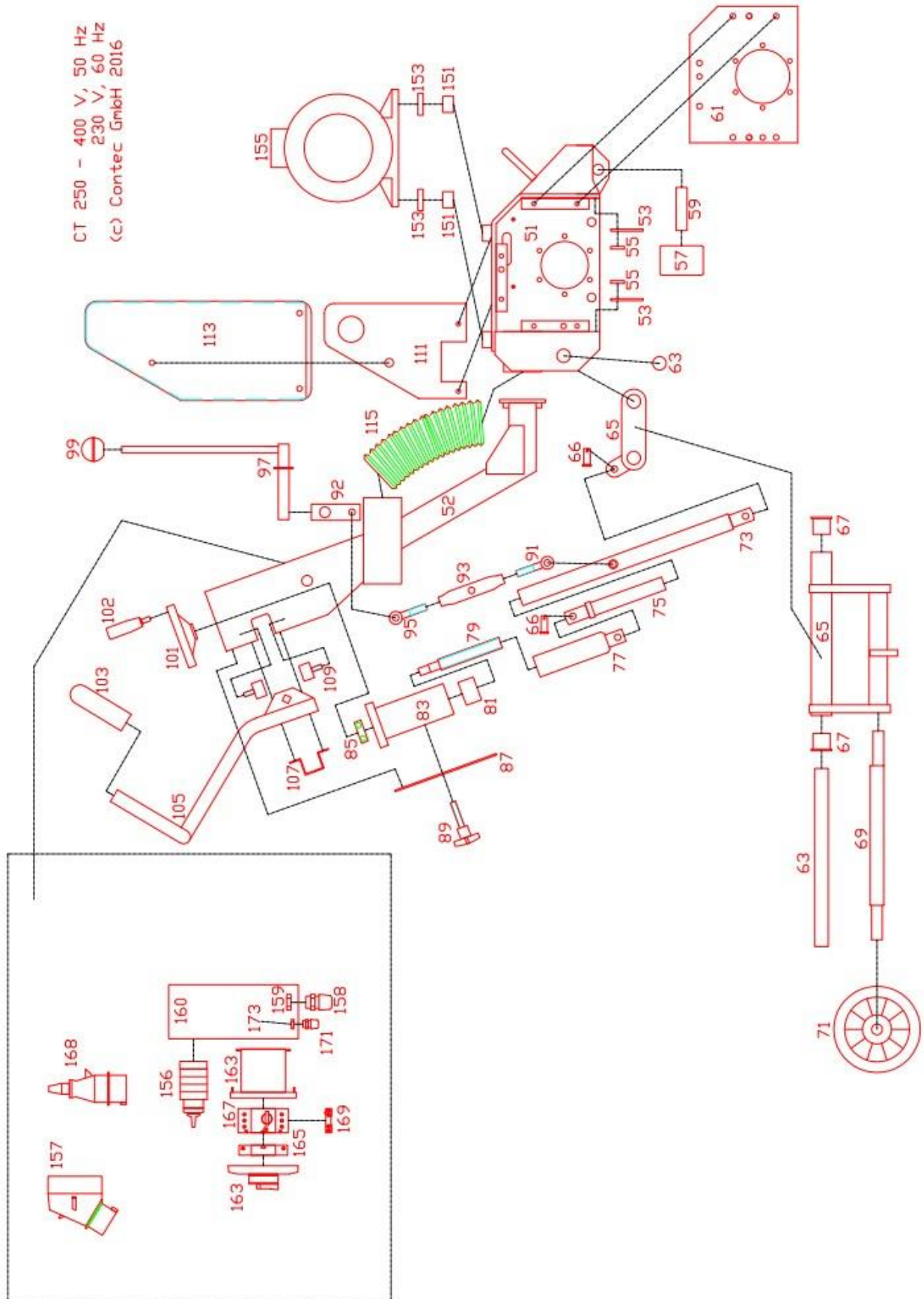
9. Diagram



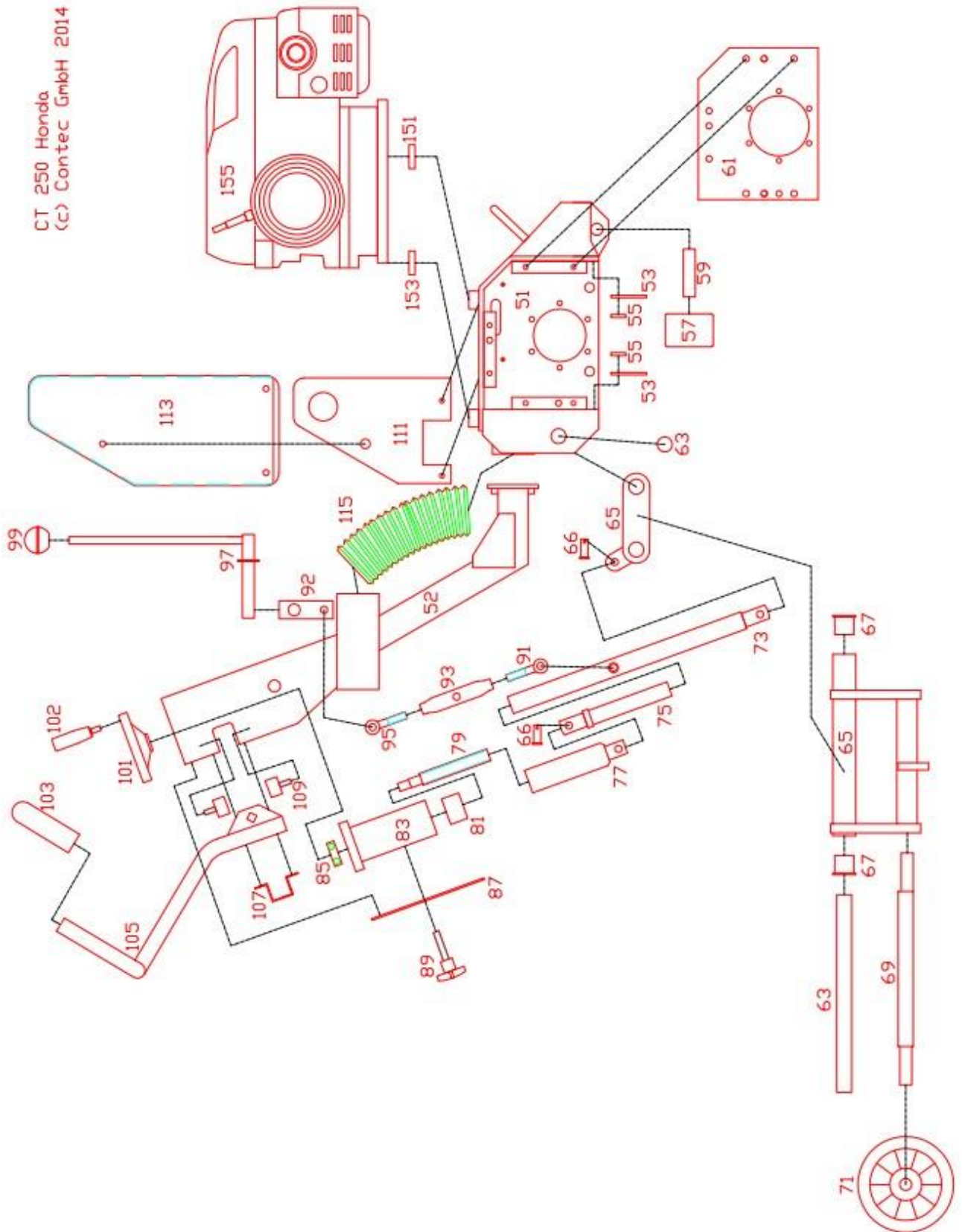
10. Appendix

Diagrams
Wire diagram
Tools
Part list

PARTS LIST 1 - CT250 MAIN ASSEMBLY Electric Version

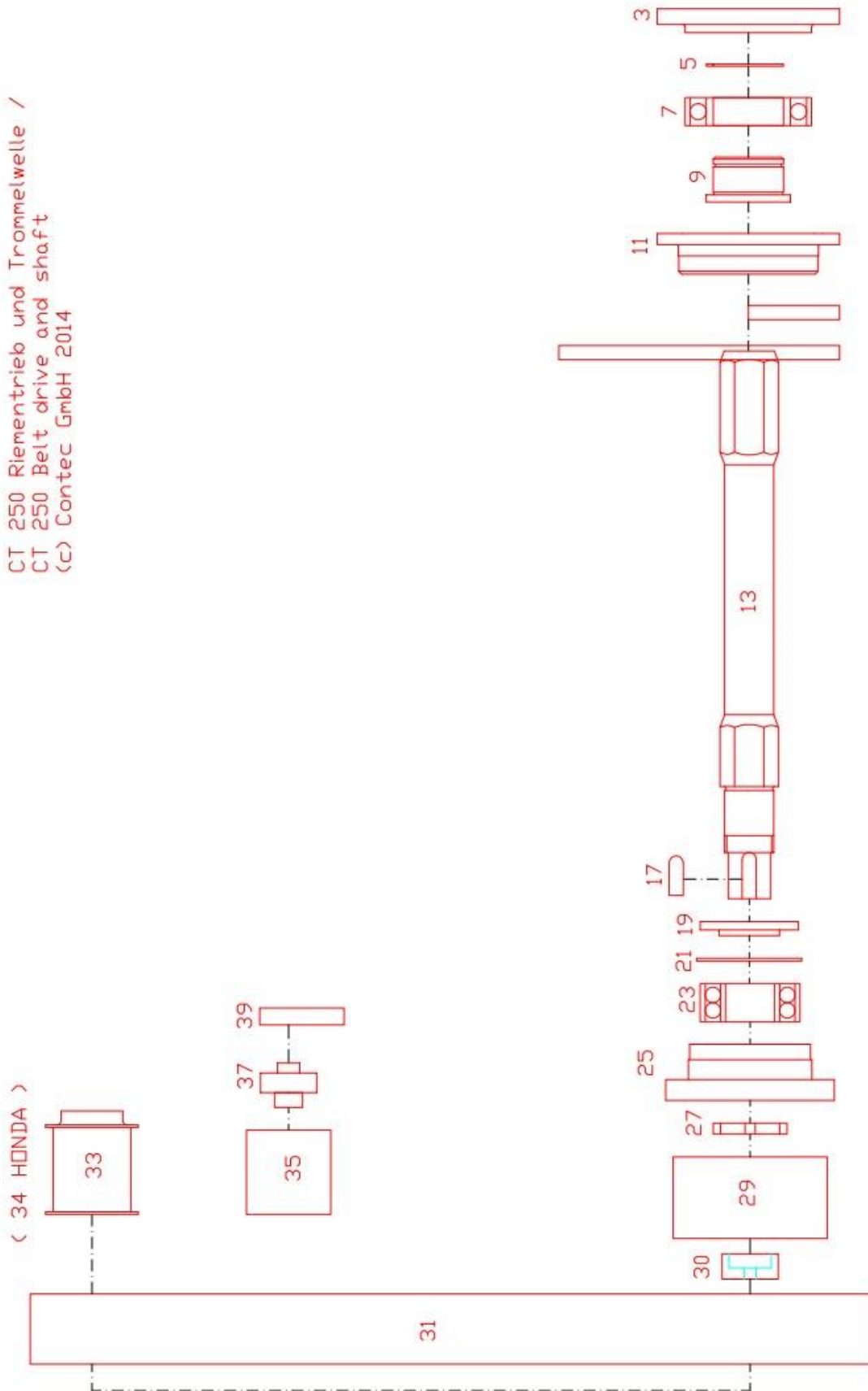


PARTS LIST 2 – CT250 MAIN ASSEMBLY Gas Version

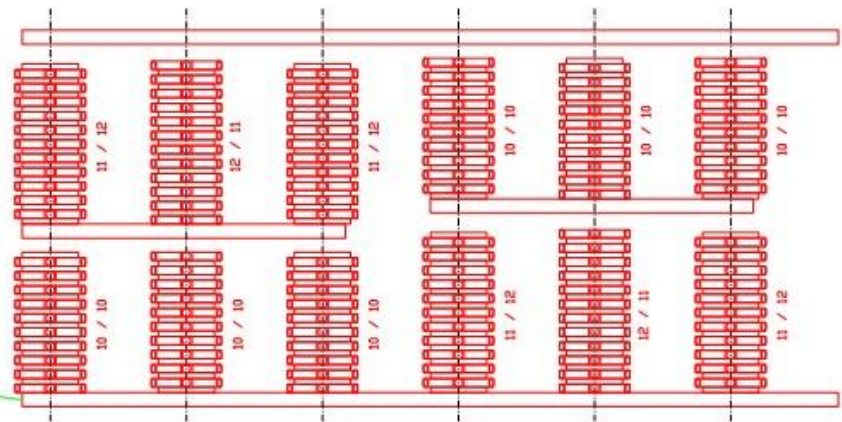
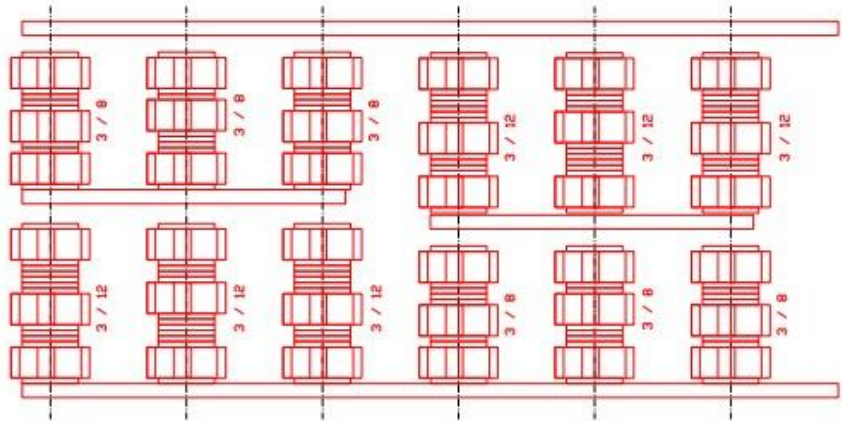
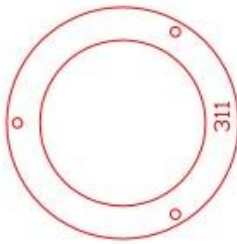
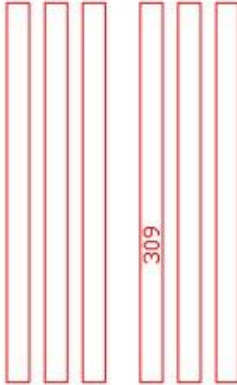
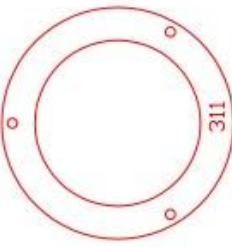


PARTS LIST 3 - CT250 BELT DRIVE AND SHAFT

CT 250 Riementrieb und Trommelwelle /
CT 250 Belt drive and shaft
(c) Contec GmbH 2014



PARTS LIST 4 – CT250 DRUM ASSEMBLY



Werkzeuge für CT 250
Tools for CT 250
(c) Contec GmbH 2014

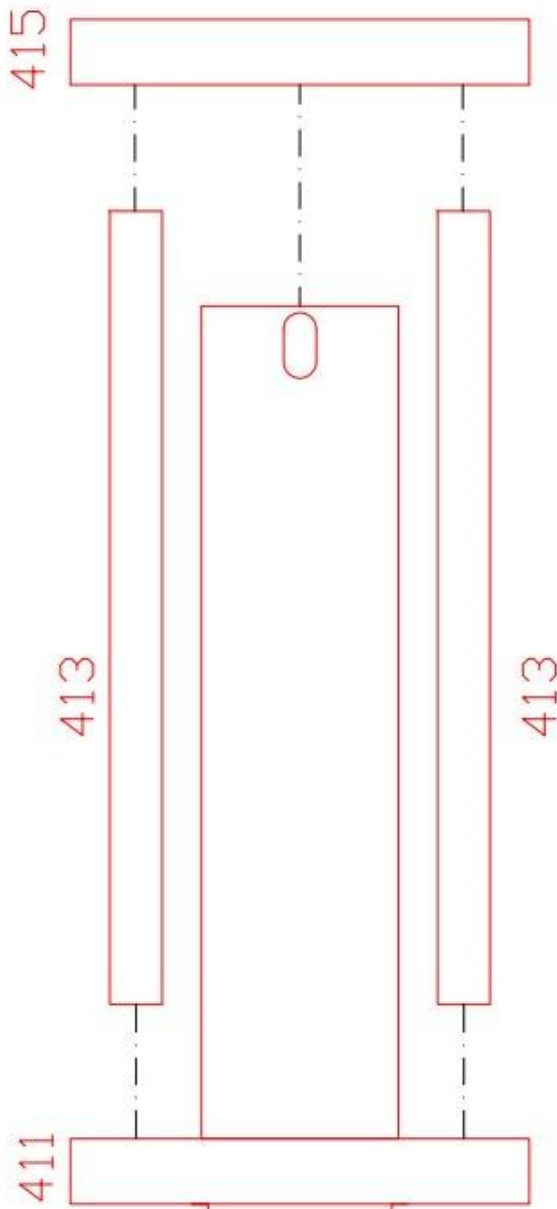
300 Trommel / drum



128 Lamellen
128 cutters
130 Scheiben
130 spacers

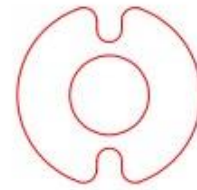
PARTS LIST 5 – CT250 DRUM ASSEMBLY 2

Diamanttrommel CT 250

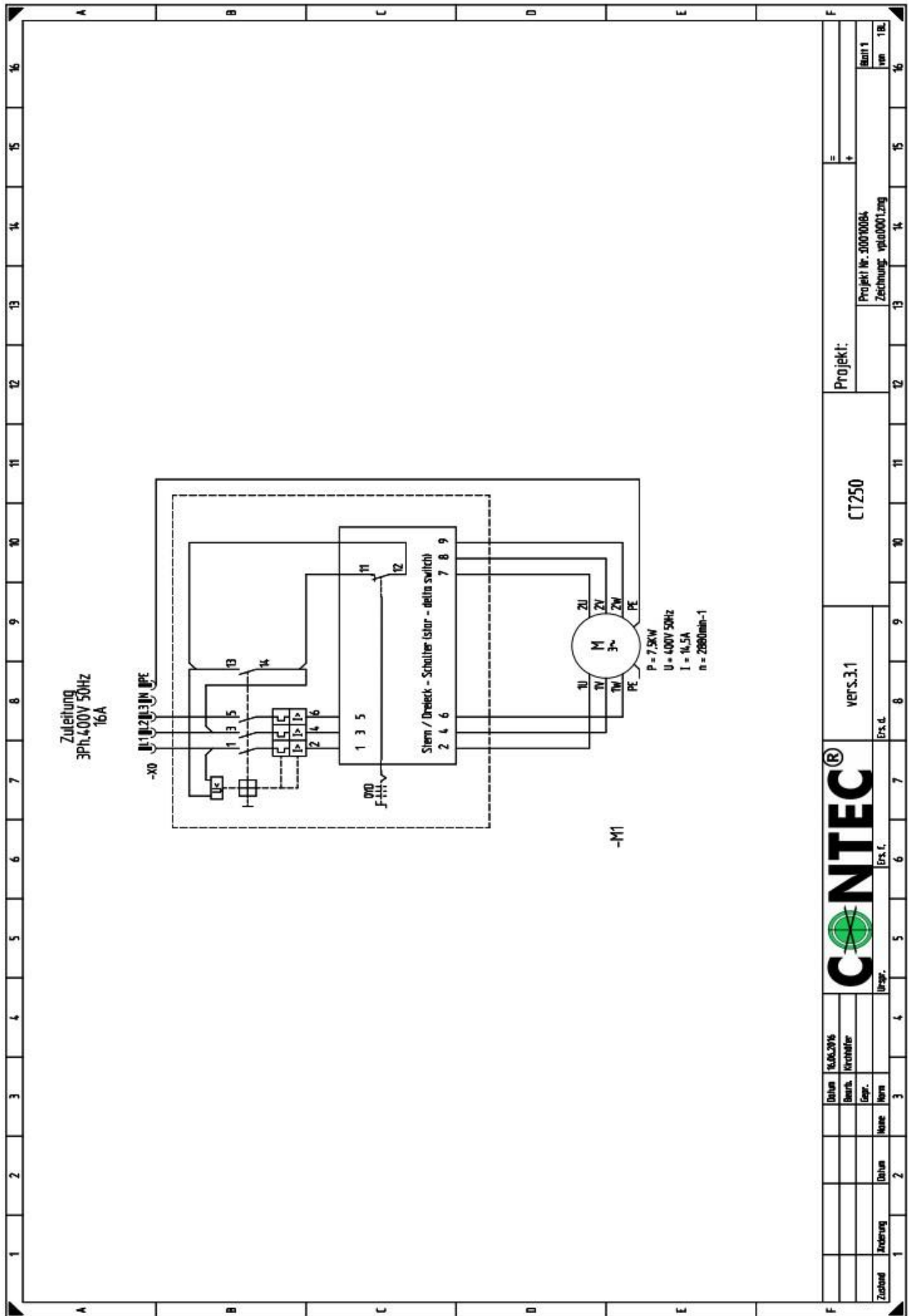


Distanzscheibe / Spacer

- | | |
|-------|-----|
| 1 mm | 419 |
| 2 mm | 421 |
| 3 mm | 423 |
| 5 mm | 425 |
| 8 mm | 427 |
| 10 mm | 429 |



PARTS LIST 6 – CT250 ELECTRIC DIAGRAM



PARTS LIST – CT250 MAIN ASSEMBLY

Item #	Part #	Description	QTY
3	19-10-07-03	Bearing Lid right Side	1
5	61-30-00-47	Circlip	1
7	61-20-62-10	Bearing right Side	1
9	19-21-07-06	Hexagon Ring	1
11	19-10-07-04	Bearing Housing right Side	1
13	19-21-07-05	Drive Shaft	1
17	68-85-30-8-7	Key	1
19	19-10-07-01	Spacer	1
21	61-30-01-70	Circlip	1
23	61-20-32-07	Bearing left Side	1
25	19-10-07-02	Bearing Housing left Side	1
27	19-21-07-07	Nut on Drive Shaft	1
29	70-44-8M-50	Pulley Drum	1
30	19-10-70-15	Lock for Pulley	1
31	70-24-08-80	Belt	1
33	70-24-8M-50	Motor Pulley	1
35	70-26-27-00	Belt Tensioner	1
37	19-10-12-04	Bracket for Tensioner	1
39	19-10-12-03	Bracket for Tensioner	1
51	19-10-01-00	Chassis	1
53	70-24-16-60	Rubber Sealing front/rear	2
55	19-10-13-01	Bracket for Rupper Sealing	2
57	80-20-80-60	Front Wheel	1
59	19-10-01-07	Front Wheel Axis	1
61	19-10-01-01	Side Plate	1
63	19-10-04-05	Axle for Wingarm	1
65	19-10-04-00	Wing Arm for rear Axis	1
66	60-33-12-25	Pin for lifting Rod	2
67	61-24-50-30	Bronze Bearing	1
69	19-10-04-06	Rear Axis with Excenter	1
71	80-20-31-60	Wheel	2
73	19-10-05-05	Lifting Rod lower Part	1
75	19-10-05-06	Lifting Rod upper Part	1
77	19-10-05-03	Height Control Piston	1
79	19-10-05-02-C	Spindle	1
81	61-24-40-46	Bronze Bearing	1
83	19-10-05-01	Housing Height Adjustment	1
85	61-20-63-02	Lager Bearing	1
87	19-10-02-07	Cover	1
89	60-30-10-50	Cross Handle Screw	1
91	61-50-12-60	Eye Screw	2

92	19-10-10-01	Lever	1
93	19-10-05-07	Spanner Nut	2
95	61-50-12-60-L	Eye Screw left Thread	1
97	19-10-05-08	Lever	1
99	90-21-45-12	Ball Head	1
101	90-21-95-50	Level Adjustment Wheel	1
102	90-21-95-51	Knob for Handwheel	1
103	70-21-26-10	Rubber Grip	1
105	19-10-03-01	Handle	1
107	70-26-18-00	Bracket for Rubber Block	2
109	70-26-30-00	Rubber Block	4
111	19-10-06-01	Bracket for Belt Cover	1
113	19-10-06-03	Belt Cover	1
115	70-25-02-70	Dusthose	1
151	19-10-12-08	Motor Spacer	4
153	19-10-12-05	Bracket for Electric Motor	2
155	55-03-46-75	Motor	1
156	50-20-20-04	Star-Delta-Switch	1
157	50-20-16-01	Wall Plug	1
158	50-20-23-M-25	Cable Gland	1
159	50-20-23-GM-M-25	Nut	1
160	50-10-10-41	Switch Box	1
163	51-10-10-01	Motor Protective Switch Box	1
165	51-20-30-03	Low Voltage Protective	1
167	51-20-30-01	Motor Protective	1
169	50-20-10-07	Auxiliary Switch	1
171	50-20-23-M-16	Cable Gland	1
173	50-20-23-GM-M-16	Nut	1
300	95-10-250-T	Drum	1
301	95-16-57-06	TC Cutters 57/6	1
303	95-16-57-20	Milling Flails 57 / 20	1
307	95-16-30-17	Spacer	1
309	95-10-250-A	Axis for Drum	6
311	95-10-250-S	Drum Side Disc	2
411	19-10-55-24	Drum Shaft with Flange	1
413	19-10-55-13	Shaft for Diamond Drum	2
415	19-10-55-03	Flange for Diamond Drum	1
417	19-10-55-11	Drum for Diamond Blades	1
419	19-10-55-17	Spacer 1mm for Diamond Drum	1
421	19-10-55-14	Spacer 2mm for Diamond Drum	1
423	19-10-55-15	Spacer 3mm for Diamond Drum	1
425	19-10-55-16	Spacer 5mm for Diamond Drum	1
427	19-10-55-18	Spacer 8mm for Diamond Drum	1
429	19-10-55-19	Spacer 10mm for Diamond Drum	1

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