



# **FLOOR GRINDER**

## **ALPHA**

### **OWNER'S MANUAL AND PARTS BOOK**



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Doc. # OIPB-C  
Orig. Rel. – 11/2018  
Curr. Rev. - 00

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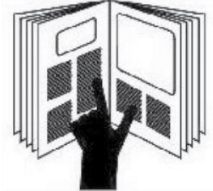
**ORIGINAL LANGUAGE OPERATING MANUAL FOR  
CONTEC FLOOR GRINDER**

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REV.	DATE	DESCRIPTION	APPROVED BY:
00	11/2018	Initial Release	AN

<b>SAFETY PRECAUTIONS</b>	
	<p><b>DANGER</b> <b>EXPLOSION HAZARD</b></p> <p>Never operate the machine in an explosive atmosphere, near combustible materials, or where ventilation does not clear exhaust fumes.</p>
	<p><b>WARNING</b> <b>BURN HAZARD</b></p> <p>Never come into contact with the engine or muffler when engine is operating or shortly after it is turned off. Serious burns may occur.</p>
	<p><b>CAUTION</b> <b>ROTATING HAZARD</b></p> <p>Never place hands or feet inside safety guard rings. Serious injury will result from contact with rotating blades.</p>
	<p><b>CAUTION</b> <b>MOVING PARTS</b></p> <p>Before starting the machine, ensure that all guards and safety devices are in place and functioning properly.</p>
	<p><b>ATTENTION</b> <b>READ OWNER'S MANUAL</b></p> <p>Read and understand owner's manual before using this machine. Failure to follow operating instructions could result in serious injury or death.</p>

## **TABLE OF CONTENTS**

<b><u>QUALITY ASSURANCE/ MACHINE BREAK IN</u></b>	<b><u>4</u></b>
<b><u>WARRANTY INFORMATION</u></b>	<b><u>4</u></b>
<b><u>SPECIFICATIONS</u></b>	<b><u>5</u></b>
<b><u>PREVENTATIVE MAINTENANCE AND ROUTINE SERVICE PLAN</u></b>	<b><u>6</u></b>
○ ROUTINE SERVICE SCHEDULE	7
○ ROUTINE SERVICE INTERVALS	7
<b><u>OPERATING SAFETY PRECAUTIONS</u></b>	<b><u>8</u></b>
<b><u>OPERATION INSTRUCTIONS</u></b>	<b><u>9</u></b>
○ SETTING UP YOUR ALPHA GRINDER	9
○ PRIOR TO OPERATION	9
○ CHANGING OR INSTALLING TOOLING	9
○ OPERATION	10
<b><u>PARTS LIST 1 – ALPHA GRINDER</u></b>	<b><u>11</u></b>
○ ALPHA GRINDER – PARTS LIST 1	12
<b><u>PARTS LIST 2 – ALPHA GRINDER *CANADA ONLY*</u></b>	<b><u>13</u></b>
○ ALPHA GRINDER – PARTS LIST 2 *CANADA ONLY*	13

## **QUALITY ASSURANCE/ MACHINE BREAK IN**

The Contec Floor Grinder is the product of extensive engineering development designed to give long life and unmatched performance. The Floor Grinders are shipped completely assembled.

You can help ensure that your Floor Grinder will perform at top levels by observing a simple routing on first use. Consider that your new Grinder is like a new car. Just as you would break in a new car to the road or any new machine to the job, you should start gradually and build up to full use. Learn what your machine can do and how it will respond. Full throttle and control may be used after this time period, as allowed by material. This will serve to further break in the machine on your specific application, as well as provide you with additional practice using the machine.

We thank you for the confidence you have placed in us by purchasing a Contec Floor Grinder and wish you many years of satisfied use.

## **WARRANTY INFORMATION**

Bartell agrees to furnish without charge, F.O.B. our plant, a replacement for any part or portion thereof, comprising the main unit of the Contec Floor Grinder, consisting of the handle, housing assembly, save and except tooling, and power units, prove upon our examination, to be defective in either material or workmanship within a period of twelve (12) months from date of purchase, provided that notice of such defective part or portion thereof is given to Bartell Ltd. within the twelve month warranty period. No further or other guarantee or warranty expressed or implied in connection with the sale of the Grinder is given and our sole liability consists in replacing defective parts or portions thereof. We shall not be responsible for any special, indirect or consequential damages arising in any manner whatsoever.

This guarantee is for the sole benefit of the original purchaser as end user. Our responsibility under this guarantee ends in the case the original purchaser transfers ownership of the Floor Grinder, makes any changes or adds any parts or devices not of our manufacture to the Floor Grinder machine.

## **SPECIFICATIONS**

<b>ALPHA</b>	
<b>Dimensions</b>	
Grinding Width, mm (in)	230 (9)
Overall Width, mm (in)	30 (12)
Overall Length, mm (in)	60 (24)
Overall Height, mm (in)	51 (20)
<b>Weight</b>	
Weight, kg (lb)	42 (93)
<b>Performance</b>	
Speed of Grinding Head (RPM)	1680
<b>Power Source</b>	
Power kw (HP)	1.1 (1.5)
Volts (V)	110
Frequency (Hz)	60
Amperage (A)	15



## ROUTINE SERVICE SCHEDULE

Routine Service Intervals		Each Use	After 1.5 months or 50 hrs	Each 3 months or 100 hrs	Each 6 months or 200 hrs	Each 9 months or 300 hrs	Each 12 months or 400 hrs
<b>General Inspection</b>							
Guards	Check		O	O	O	O	O
Warning Stickers	Check		O	O	O	O	O
Test Run	Check Operation		O	O	O	O	O
Fasteners	Check Tightness	O					
<b>Electrical</b>							
Cord	Check for Damage	O					
Plug	Check for Damage	O					
Switches/Buttons	Check	O					
<b>Grinding Components</b>							
Tooling	Check Life	O					
Drive Coupling	Check for Damage	O					
Tooling Plate	Check			O	O	O	O
<b>Motor</b>							
Fan	Check - Clean		O	O	O	O	O

## ROUTINE SERVICE INTERVALS

Due to the nature and environment of use, Floor Grinders could be exposed to severe operating conditions. Some general maintenance guidelines will extend the useful life of your machine.

- The initial service for your grinder should be performed after 25 hours of use, at which time your mechanic (or authorized repair shop) should complete all the recommended checks in the schedule above. The maintenance log is handy for keeping a record of the maintenance performed and the parts used for servicing your grinder.
- Regular service according to the schedule above will prolong the life of the floor grinder and prevent expensive repairs.
- Keeping your floor grinder clean and free from debris is the single most important regular maintenance operation, over and above the checks in the service schedule above, that can be performed. After each use your grinder should be cleaned to remove any dust and debris from the undercarriage and surrounding components.
- In the Service Schedule above, items that should be checked, replaced or adjusted are indicated by "o" in the appropriate column. For ease of recording place, a checkmark through the "o" when the item is complete. If an item is not required or not completed place an "x" through the "o" in the box.
- Failure to have your floor grinder regularly serviced and properly maintained in accordance with the manufacturer's instructions will lead to premature failure and void the warranty.



## **OPERATING SAFETY PRECAUTIONS**

The ALPHA 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:

**IMPORTANT:** NEVER attempt to disable or circumvent these safety devices. They are present for the operator's protection and any tampering will result in substantial risk to the operator and all present at the job site. If your compactor's safety devices have been tampered with, do not use the equipment. Immediately contact your sales representative to obtain replacement parts or return the compactor to your dealer for repairs.

The instructions provided in this manual are done so to ensure the operator's safety as well as that of others, the equipment, and the job site. Failure to follow these guidelines can lead to serious personal injury and even death. The operator and any service personnel should read and understand the entire manual before working with or servicing any Contec Floor Grinder.

- The grinders should always be operated with all safety covers and technical precautions.
- During transport, cleaning, repair or maintenance the grinder must be disconnected from the power supply. That also applies to the changing of tools.
- 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.
- The operator should never leave the machine unattended during operation.
- Before leaving the machine, all rotary parts should be brought to a standstill. Electric models must be disconnected from the power supply. Make sure that the machine cannot roll or move by itself.
- After any maintenance and adjustment all safety covers must be reattached.
- Ear protectors must be worn.
- Eye protectors must be worn.
- Safety shoes with steel caps must be worn.
- In the event of a large amount of dust during operation, connect a dust collector to the grinder.
- 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 which keep the breathing air clean. A dust collector must be used and should be equipped with filters suitable for asbestos dust.
- The floor must be brushed before grinding because loose material could get into the tools and fly away. Anchor screws and bolts coming out of the floor can also be seen better if the floor is clean. If the grinding head hits a anchor screw or bolt then serious damage can be caused to the machine or grinding head.

## **OPERATION INSTRUCTIONS**

### **SETTING UP YOUR ALPHA GRINDER**

Your Alpha Floor Grinder comes fully assembled with handle and motor fully installed. The handle is folded to allow for easier transportation. The handle can be moved into operating position by loosening the black knob and unfolding the handle into the up-right position. The black knob can then be reinstalled to secure handle in place. Tooling can now be installed, and your Floor Grinder is ready for use.

### **PRIOR TO OPERATION**

- Make sure that all dust, debris etc., are thoroughly removed from the unit prior to operation. Special effort should be given to the bottom of the machine where the tooling plate is located.
- Check all bolts and screws for tightness and make sure all bolts and screws are securely tightened. Loose bolts and screws may cause damage to the unit. Make sure tooling is properly installed.

### **CHANGING OR INSTALLING TOOLING**

- 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
- Adjust the different heights of the tools by changing the position of the rear wheel swing. The motor axis of the grinder must be 90° level to the floor.

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

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

## OPERATION

### *Operating*

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.

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 must be re-adjusted by changing the position of the rear wheel swing (see above).

Dust emission should be prevented by connecting a dust collector.

**ATTENTION:** When switching on the motor, the machine may jump slightly due to rotating tooling.

**ATTENTION:** Never switch on machine while the grinding head is on the floor.

### *Stopping Procedure*

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



## ALPHA GRINDER – PARTS LIST 1

Item #	Part #	Description	QTY	Remarks
1	8704100100	FRAME	1	
3	8704100401	REAR SWING ARM	1	
5	8780205222	REAR WHEEL	2	
7	8704170601	BRACKET FOR COUPLING	1	
9	8790251001	RUBBER COUPLING	1	
10	8714171005N	TOOL BRACKET	1	
11	8704100302	MAGNETIC BRACKET	1	
12	8704100305	MAGNET	3	
17	8770238100	DUST RING BARTELL	1	
19	8755031111US	MOTOR	1	
21	8704100201N	HANDLE LOWER PART	1	
23	8704100300N	TOP HANDLE	1	
25	8760301050	CROSS HANDLE SCREW	2	
27	875020203742	SWITCH	1	
29	87702112090	RUBBER GRIP	2	
31	8790214513	HANDLE	1	
32	8704100600	FAN COVER PROTECTION	2	
33	8704100800	SPACER	1	
35	8790200024	STRAIN-RELIEF	1	
37	879009SW6	ALLEN KEY 6 MM	1	
50	8761330000	WASHER M10	23	
52	8761320003	NUT, NYLON M10	8	
54	8761330033	WASHER, SERRATED M10	3	
56	8761310002	HHCS, M10X70	4	
58	8761330026	WASHER, WIDE M10X25X3	4	
60	8761310037	FHSCS, M10X30	5	
62	8761310024	BHSCS, M10X50	2	
64	8761310058	BHSCS, M10X55	2	
66	8761310059	SCREW ALLEN M10X20	3	
68	8761310018	FHSCS, M6X16	2	
70	8761310000	FHSCS, M4X12	3	
72	8761310023	SHCS, M6X16	2	
74	8761310010	SHCS, M6X20	2	
76	8761330032	WASHER, SERRATED 6MM	4	
78	8790214515	NUT, GROOVE M6	4	
80	8755031112US	CAPACITOR	1	
82	8755030221US	CLAMP	1	
84	8761320026	NUT, GROOVE M4	1	
86	8761310074	LENS HEAD SCREW M4X16	2	
88	8755030021LF	FAN	1	
90	8750031112	FAN COVER	1	
92	8761320020	NUT M6	2	
94	8761310073	SCREW, HEXAGON M6X10	2	

## **PARTS LIST 2 – ALPHA GRINDER \*CANADA ONLY\***

### **ALPHA GRINDER – PARTS LIST 2 \*CANADA ONLY\***



### **ALPHA GRINDER – PARTS LIST 2**

Item #	Part #	Description	QTY	Remarks
95	8750201008	CSA PROTECTION KIT (CANADA ONLY)	1	Includes Item 96 + 97
96	8751203001	MOTOR PROTECTOR	1	
97		ENCLOSURE	1	
98	12128	M25 NYLON STRAIN RELIEF	2	

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NORTH AMERICA

# CONTEC

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