

# **HOFFMANN POWER PRODUCTS**

## **PARTS LIST 2014**

### **CONCRETE CUTTER**

#### **CNQ20 - DIESEL**







**ALL PARTS ARE SUBJECT TO STANDARD HOFFMANN TERMS AND CONDITIONS OF SALE 2010**






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MAINTENANCE - TROUBLESHOOTING		
PROBLEM	CAUSE	REMEDY
<p><b>UNEVEN SEGMENT WEAR</b></p> 	<ul style="list-style-type: none"> <li>• (In wet cutting) Insufficient water (usually on one side of blade).</li> <li>• Equipment defects also can cause the segments to wear unevenly.</li> <li>• Saw head is misaligned .</li> </ul>	<ul style="list-style-type: none"> <li>• Flush water system</li> <li>• Check flow to both sides of blade</li> <li>• Replace bad bearings, worn arbor shaft or misalignment to spindle</li> <li>• Check alignment for squareness, both vertically and horizontally, of the saw blade.</li> </ul>
<p><b>SEGMENT CRACKS</b></p> 	<ul style="list-style-type: none"> <li>• Blade is too hard for material being cut</li> </ul>	<ul style="list-style-type: none"> <li>• Use a blade with a softer bond/matrix.</li> </ul>
<p><b>SEGMENT LOSS</b></p> 	<ul style="list-style-type: none"> <li>• Blade overheats because of lack of coolant (water or air)</li> <li>• Core is worn from undercutting</li> <li>• Defective collars/flanges set blade out of alignment</li> <li>• Blade is too hard for material being cut</li> <li>• Blade is cutting out of round, causing a pounding motion.</li> <li>• Improper blade tension.</li> </ul>	<ul style="list-style-type: none"> <li>• (Wet Cutting) Check water lines.</li> <li>• Make sure flow is adequate on both sides of blade and there are no blockages.</li> <li>• Use sufficient water to flush out the cut.</li> <li>• (Dry Cutting) Run blade free of cut periodically to air cool.</li> <li>• Clean collars/flanges or replace if they are under recommended diameter.</li> <li>• Use proper blade specification for material being cut.</li> <li>• Replace worn bearings; realign blade shaft or replace worn blade mounting arbor.</li> <li>• When ordering blades match shaft speed of saw.</li> <li>• Check spindle speed to ensure blade is running at correct RPM.</li> <li>• Avoid twisting or turning blade in the cut.</li> </ul>
<p><b>CRACKS IN CORE</b></p> 	<ul style="list-style-type: none"> <li>• Blade flutters in cut as a result of losing blade tension.</li> <li>• Blade specification is too hard for the material being cut.</li> </ul>	<ul style="list-style-type: none"> <li>• Tighten the blade shaft nut.</li> <li>• Make sure blade is running at proper speed and that drive pin is functioning properly</li> <li>• Use a softer bond/matrix to eliminate stress.</li> </ul>

MAINTENANCE – TROUBLESHOOTING		
PROBLEM	CAUSE	REMEDY
<p><b>LOSS OF TENSION</b></p> 	<ul style="list-style-type: none"> <li>• Core overheating.</li> <li>• Core overheating as a result of blade spinning on arbor.</li> <li>• Core overheating from rubbing the material being cut.</li> <li>• Unequal pressure at blade clamping collars/flanges.</li> <li>• Blade is too hard for the material being cut.</li> </ul>	<ul style="list-style-type: none"> <li>• Make certain blade RPM is correct.</li> <li>• Check water flow, distribution and lines.</li> <li>• Tighten the blade shaft nut. Make certain the drive pin is functioning.</li> <li>• Properly align the saw to square cut.</li> <li>• Collars/flanges must be identical in diameter and the recommended size.</li> <li>• Use a softer bond/matrix to reduce stress.</li> </ul>
<p><b>BLADE WOBBLER</b></p> 	<ul style="list-style-type: none"> <li>• Blade is on a damaged or worn saw.</li> <li>• Worn collar.</li> <li>• Blade runs at an incorrect speed.</li> <li>• Collar/flange diameters are not identical.</li> <li>• Blade is bent as a result of dropping or twisting.</li> </ul>	<ul style="list-style-type: none"> <li>• Check for bad bearings, bent shaft, or worn mounting arbor.</li> <li>• Check collars/flanges to make sure they are clean, flat and of correct diameter.</li> <li>• Set engine at proper RPM.</li> <li>• Use proper size blade collars/flanges.</li> <li>• DO NOT use bent blade. Contact blade manufacturer.</li> </ul>
<p><b>BLADE WILL NOT CUT</b></p> 	<ul style="list-style-type: none"> <li>• Blade is too hard for material being cut.</li> <li>• Blade has become dull.</li> <li>• Blade does not cut material it was specified for.</li> </ul>	<ul style="list-style-type: none"> <li>• Select proper blade for material being cut.</li> <li>• Sharpen by cutting on softer abrasive material to expose diamonds. If continually sharpening, the blade is too hard for the material being cut.</li> <li>• Break-in on the material to be cut. If it does not dress itself, sharpen as you would a dull blade.</li> </ul>
<p><b>UNDERCUTTING THE CORE</b></p> 	<ul style="list-style-type: none"> <li>• Abrasive wearing of the core faster than the segments.</li> </ul>	<ul style="list-style-type: none"> <li>• Use water to flush out fines generated during cutting.</li> <li>• Use wear-resistant cores.</li> </ul>
<p><b>ARBOR HOLE OUT-OF-ROUND</b></p> 	<ul style="list-style-type: none"> <li>• Collars/flanges are not properly tightened, permitting blade to rotate or vibrate on the shaft.</li> <li>• Collars/flanges are worn or dirty. Blade is not properly mounted.</li> </ul>	<ul style="list-style-type: none"> <li>• Make certain the blade is mounted on the proper shaft diameter. Tighten the shaft nut with a wrench to make certain that the blade is secure.</li> <li>• Clean collars/flanges, make sure they are not worn. Tighten arbor nut.</li> <li>• Make sure the pin hole slides over drive pin.</li> </ul>

**BLADE WORN OUT OF ROUND**



- Shaft bearings are worn.
  - Surges occur because engine is not properly tuned.
  - Blade arbor hole is damaged from incorrectly mounting the blade.
  - Bond/matrix is too hard for material.
  - Blade is slipping, wearing one half of blade more than other
- Install new blade shaft bearings or blade shaft as required.
  - Tune engine according to manufacturer's manual.
  - If core is worn or arbor hole damaged DO NOT USE. Contact blade manufacturer.
  - Replace worn shaft or mounting arbor bushing.
  - Make certain that drive pin is functioning.
  - Tighten spindle nut.

**Lubrication and Service**

- Check oil levels, wiring, hoses (air, fuel, water) and lubricate machine daily.
- Repair or replace all worn or damaged components immediately.
- Check drive belt tension, do not over-tension.
- Make sure machine has full set of matched belts.
- Check bladeshaft, make sure arbour and threads are not worn, damaged, or bent.
- Bladeshaft bearings should be tight, no free play side-to-side or up and down.
- Grease blade shaft bearings daily.
- Blade collars should be clean, free of nicks and burrs. No diameter wear and not out of round.
- Drive pin not excessively worn or bent and free of gouges
- All guards in place and secure.
- All fasteners tight and secure.
- Air filter/oil filter (hydraulic or engine) clean.
- Flush clean water through the pump and spray the assembly every night. This prolongs the pump and blade life.

Lubricants:

Engine Oil SAE 10W/30

General Grease #1 Lithium

- Clean machine before starting lubrication maintenance.
- Ensure machine is on solid, level ground before starting maintenance.
- During lubrication maintenance ensure strict cleanliness is observed at all times.
- To avoid the risk of accidents, use the correct tool for the job and keep tools clean.
- The draining of engine oil is best carried out when the oil is warm NOT hot.
- Any spilled oil must be cleaned up immediately.
- Use only clean containers for oil and only CLEAN, FRESH oils and grease of correct grade.
- Contaminated Water/Fluids/Oils/Filters Must Be Disposed of Safely.

**Specification**

**Motor**

20-1	Diesel, Kama 186	7.6kw output
20-2	Petrol, Honda GX390	9.8kw output

**Operation Mass**

20-1	191 kgs
20-2	191 kgs

**Max. Cutting Depth**..... 170 mm (6.7 in)

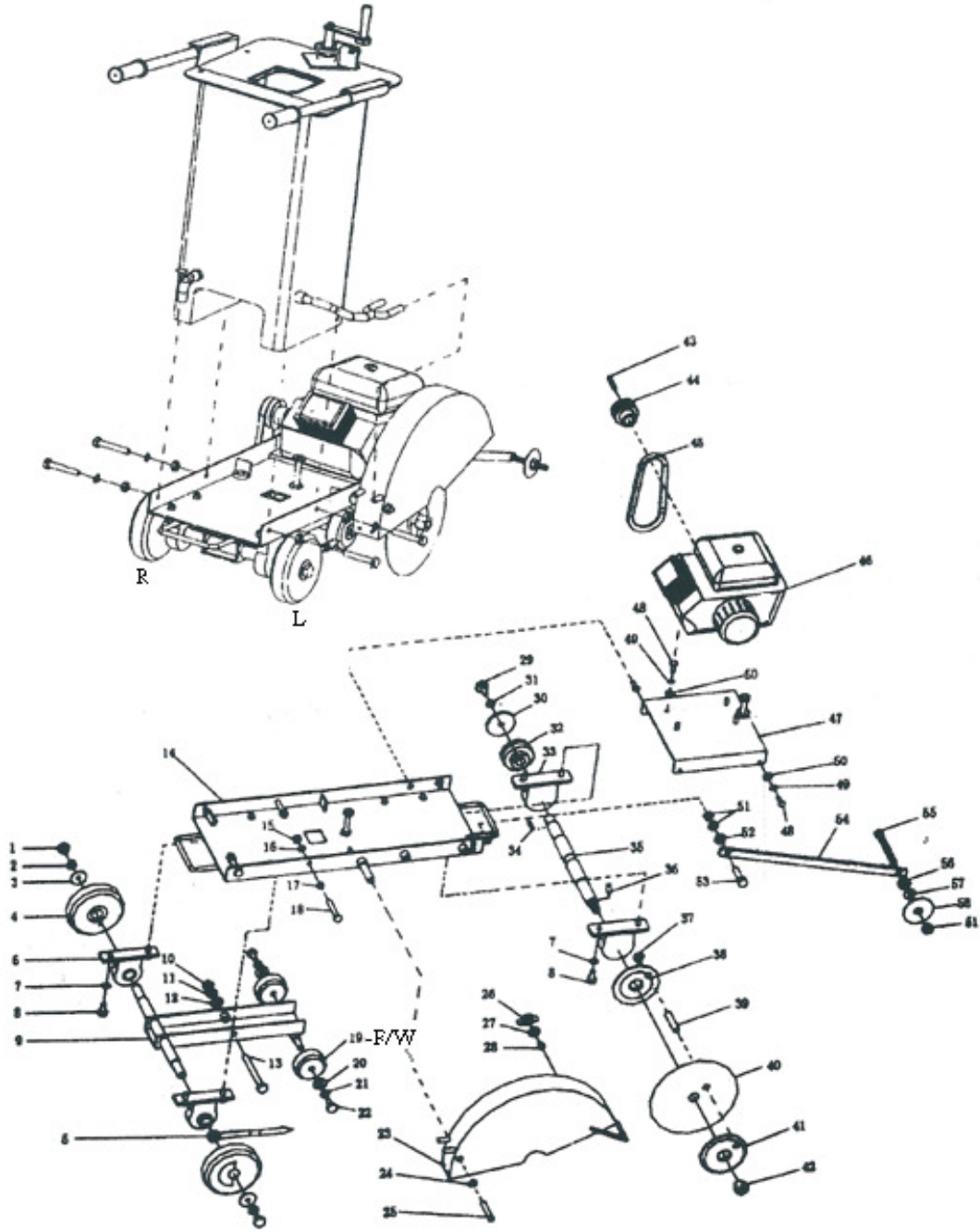
**Blade Size** ..... 350-500 mm (14 – 20 in)

**Depth Adjustment** ..... Handle Rotation

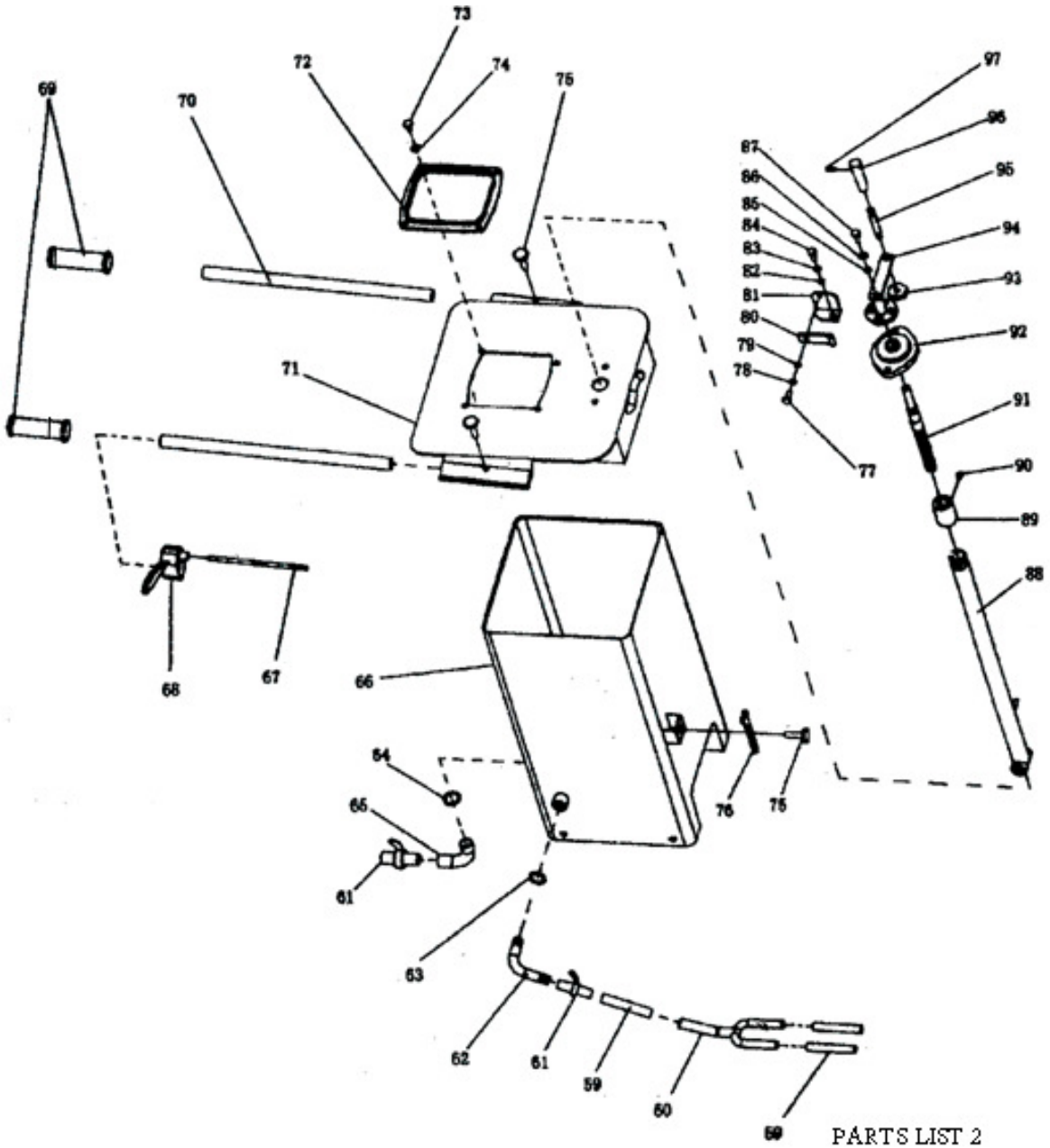
**Driving** ..... Semi-Self Propelled

**Water Tank Capacity** ..... 40 L

**REPLACEMENT PARTS LIST**



**PARTS LIST 1**



PARTS LIST 2

No	Description	QTY.	Part No.
1	Bolt M12X20	2	MF16-05780012
2	Spring Washer 12	2	CN-CNQ2047
3	Deep Washer 8 <sup>mm</sup> x30x3 <sup>mm</sup>	2	CN-CNQ2052
4	Rubber Wheel (Rear)	2	CN-CNQ2029-20290
5	Indicator	1	CN-CNQ2024
6	Bearing and Bracket	2	CN-CNQ2027
7	Spring Washer 12	8	CN-CNQ2047
8	Bolt M12x35 <sup>mm</sup>	8	CN-CNQ2046
9	Wheel Rack Module Axle	1	CN-CNQ2034
10	Nut 12	1	CN-CNQ2045
11	Spring Washer 12	1	CN-CNQ2047
12	Washer 12	1	CN-CNQ2082
13	Bolt M12x120	1	CN-CNQ2009
14	Base Assy	1	
15	Nut M12	4	CN-CNQ2045
16	Spring Washer 12	4	CN-CNQ2047
17	Washer 12	4	CN-CNQ2082
18	Bolt M12	4	
19	Rubber Wheel (Front)	2	CN-CNQ2026
20	Deep Washer M8x30x3 <sup>mm</sup>	2	CN-CNQ2052
21	Spring Washer 8	2	CN-CNQ2051
22	Bolt M8x22	2	CN-CNQ2050
23	Blade Guard	1	CN-CNQ2021
24	Washer 10	1	CN-CNQ2040
25	Bolt M10	1	
26	Nut M10 Nylon	1	CN-72FW-B35
27	Washer 10	1	CN-CNQ2040
28	Screw	1	
29	Bolt M10x25	1	CN-CNQ2038
30	Washer (Small Blade) (25x50x14)	1	CN-CNQ2018
31	Spring Washer 10	1	CN-CNQ2039
32	Pulley (Principal Axis)	1	CN-CNQ2012
33	Bearing and Bracket	2	CN-CNQ2014
34	Key 8x38 (Flat)	1	CN-CNQ2083
35	Principal Axis	1	CN-CNQ2015
36	Pin C6	1	CN-CNQ2049
37	Nut M8	1	CN-CNQ2050
38	Blade Flange (Inner)	1	CN-CNQ2016
39	Pin	1	
40	Blade	1	CN-CNQ2017
41	Blade Flange (Out)	1	CN-CNQ2019
42	Nut M22-Left Hand Thread	1	CN-CNQ2020
43	Key	1	
44	Engine Pulley for Diesel	1	
	Engine Pulley for Honda	1	
	Engine Pulley for Robin	1	
45	V-Belt SPA-GB11544 for Diesel )	1	CN-CNP200005
	V-Belt SPA-GB11544 for Petrol )	1	
46	Diesel Engine	1	
	Honda Engine	1	
	Robin Engine	1	
47	Base Assy for Engine	1	



No	Description	QTY.	Part No.
48	Bolt, M10x30	8	CN-CNQ2041
49	Spring, washer 10	8	CN-CNQ2039
50	Washer 10 Flat	8	CN-CNQ2040
51	Nut M12	3	CN-CNQ2045
52	Washer 12	1	CN-CNQ2082
53	Bolt M12x45	1	CN-CNQ2024
54	Pointer	1	CN-CNQ2010
55	Bolt M12x120	1	CN-CNQ2009
56	Nut M12	1	CN-CNQ2045
57	Washer 12	1	CN-CNQ2082
58	Pointer Wheel	1	CN-CNQ2011
59	Plastic Pipe	3	
60	Tee Pipe	1	
61	Cock (Water)	2	CN-CNQ2072
62	Elbow Bend Hose	1	CN-CNQ2073
63	Hose Clamp	1	CN-CNQ2074
64	Hose Clamp	1	CN-CNQ2074
65	Elbow Hose	1	CN-CNQ2073
66	Water Tank	1	
67	Throttle Cable	1	CN-CNQ2071
68	Throttle Control Lever	1	CN-CNQ2070
69	Handle Bar Grip	2	CN-CNQ2069
70	Handle Lever	2	CN-CNQ2068
71	Tank Cover	1	CN-CNQ2067
72	Injection Mouth	1	
73	Bolt M10x25	4	CN-CNQ2038
74	M10 Washer Flat	4	CN-CNQ2040
75	Knob (Handle) Bolt	3	CN-CNQ2023
76	Wrench	2	CN-CNQ2057/32/34
77	Bolt M8x30	1	CN-72FW-C07
78	Spring Washer 8	1	CN-CNQ2051
79	Washer 8x30x3 <sup>mm</sup>	1	CN-CNQ2052
80	Board Plug	1	
81	Orientation Board	1	
82	Washer 10 Flat	2	CN-CNQ2040
83	Spring Washer 10 <sup>mm</sup>	2	CN-CNQ2039
84	Bolt M10x25	2	CN-CNQ2038
85	Washer 8 Flat	1	CN-CNQ2052
86	Spring Washer 8	1	CN-CNQ2051
87	Bolt M8x20	1	CN-CNQ2050
88	Manual Raise/Lower Assy	1	CN-CNQ2078
89		1	
90	Bolt M6x10	1	GB5787-86/6x10
91	Screw Stem	1	CN-CNQ2060
92	Bearing and Bracket	1	CN-CNQ2059
93	Nut M10 Nylon	1	CN-72FW-B35
94		1	
95	Lifting Handle	1	CN-CNQ2058
96		1	
97	Bolt M6x20	1	CN-CNQ2080