INSTRUCTION MANUAL

RANKOR

CUT OFF SAW

RCS250001

MADE IN CHINA

READ AND FOLLOW ALL SAFETY PRECAUTIONS IN THE INSTRUCTION MANUAL.

Content

Safety Notes

General Power Tool Safety Warnings

⚠WARNING

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire, or severe injury. Save all warnings and instructions for future reference. The power tool in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

Work area safety

- **Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.**
- **Do not operate power tools in explosive atmospheres, such as in flammable liquids, gases or dust. Power tools create sparks that may ignite the dust or fumes.**
- **Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.**

Electrical safety

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce the risk of electric shock.**
- **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.**
- **Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.**
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep the cord away from heat, oil, sharp edges and moving parts. Damaged or entangled cords increase the risk of electric shock.**
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use. Using a cord suitable for outdoor use reduces the risk of electric shock.**
- **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. The use of an RCD reduces the risk of electric shock.**

Personal safety

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.**
- **Use personal protective equipment. Always wear eye protection. Protective equipment such as dust masks, non-skid safety shoes, hard hats, and hearing protection for appropriate conditions will reduce personal injuries.**
- **Prevent unintentional starting. Ensure the switch is off position before connecting it to the power source or battery pack or picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools with the switch on invites accidents.**
- **Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.**
- **Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.**
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.**
- **If devices are provided for connecting dust extraction and collection facilities, ensure these are connected and properly used. The use of dust collection can reduce dust-related hazards.**

Power tool use and care

- ▶**Don’ t force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.**
- ▶**Do not use the power tool if the switch does not turn on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.**
- ▶**Disconnect the plug from the power source or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally**
- ▶**Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.**
- ▶**Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool’ s operation. If damaged, have the power tool repaired before use. Poorly maintained power tools cause many accidents**
- ▶**Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp edges are less likely to bind and are easier to control.**
- ▶**Use the power tool, accessories, tool sets, etc., in accordance with these instructions, taking into account the working conditions and the work to be performed. Using the power tool for operations different from those intended could result in a hazardous situation.**

Service

- ▶**Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.**

Additional Safety Rules for Cut-Off Machine

⚠WARNING

Don't use the tool before assembling and mounting it according to the instructions.

- ▶**For those unfamiliar with the operation, please read the instruction manual and follow the instructions. It is recommended to wear safety glasses,mask, head shield, and other body protective equipment to avoid injury.**
- ▶**Before operation, tighten the axle screw and all clamps and make sure that the axis lock is off.**
- ▶**Only use the reinforced wheel with a buffer. To avoid the workpiece moving while working, fix it firmly before cutting.**
- ▶**Always use a shield and operate according to the procedures. Don't touch the cutting disc with your hands, and don’ t stretch your hand across the button or the back of the cutting disc. The cutting disc should stop rotating completely before moving the workpiece away or changing its angle.**
- ▶**When mounting the disc, carefully tighten the spindle screw. Over-tightening may cause damage to the cutting disc and its flange.**
- ▶**Before operation, always check for cracks or other damage on the cutting disc and replace it immediately if damaged. Each disc's cutting times and quality may vary significantly according to the cutting time. Quick cutting may cause disc wear promptly, but it is helpful to remove burrs and fading in colour. Only use cutting discs with a rotation rate of at least 3900/min.**
- ▶**Only use the defined disc flange. Ensure there is nothing on the disc flange's inner surface and the disc's two sides.**
- ▶**Before starting to cut, confirm that the motor has reached full-speed revolution, and ensure the cutting disc doesn't touch the workpiece.**
- ▶**After switching on, slightly lower the cutting disc until it touches the workpiece, then start to cut. The tool can cut any material successfully with minimal touch. Don't let the disc shake and jump, as this will damage the round edge and may damage the disc.**

- ▶Use a disc shield at all times, and don't use the tool in the vicinity of flammable liquids or gases. To avoid an electric shock, don't use the tool in wet places or under rain.
- ▶The tool is designed to cut iron metal. Do not use it to cut wood, brick, aluminium, or magnesium.
- ▶When mounting a new disc, don’t align the disc to start the tool. Run the tool for at least 1 minute before cutting.
- ▶Disconnect the attachment plug from the power receptacle before maintenance or adjustment. If any part or component of the tool is missing or damaged, disconnect the power source and replace the part before operating.

⚠WARNING

1.DON'T USE THE CUT-OFF MACHINE WITHOUT A PROTECTIVE COVER IN A SUITABLE POSITION.
2.THE RECOMMENDED THICKNESS OF THE GRINDING WHEEL IS 3MM, AND THE DIAMETER OF THE WHEEL'S HOLE IS 25.4MM.
3.THE MAXIMUM CUTTING CAPACITY OF THE CUT-OFF MACHINE IS 100MM.

Technical Data

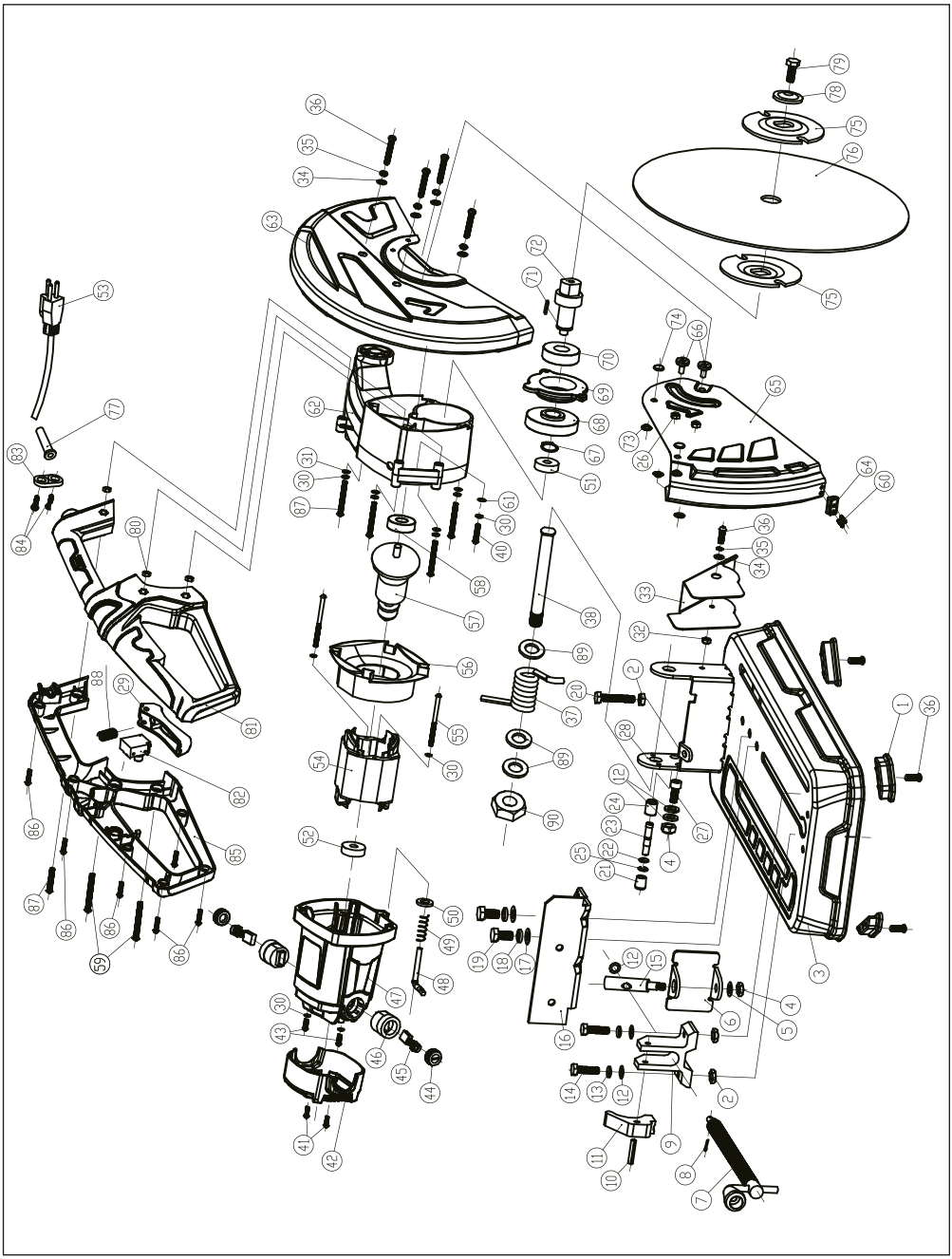
Model No.	RCS250001
No Load Speed	3900/min
Max. Disc Diameter	355mm
Rated Power	2500W
Frequency	50/60Hz
Voltage	220-240V~

CUT-OFF MACHINE SPARE PARTS LIST

Exploded view No.	Part name	Qty	Material	Exploded view No.	Part name	Qty	Material
1	Rubber Foot	3	NBR	28	Support Bracket	1	Q235
2	Hexagon Nut(M8)	3	Q235	29	Trigger Standard	1	PA6-GF30
3	Base	1	Q235	30	Washer M5	9	65Mn
4	Hexagon Nut(M8)	2	Q235	31	Flat Washer ϕ10xϕ5x0.5	4	Q235
5	Big Washer ϕ20xϕ8x2	1	Q235	32	Hexagon Nut M6		Q235
6	Small Clamping Plate	1	Q235	33	Dust Board	1	Q235
7	Screw		Q235	34	Flat Washer ϕ14xϕ6x1	5	235
8	Hatch Pin 2.5*15		Q235	35	Standard Spring Washer M6	5	65Mn
9	Vice Stand		HT200	36	Cross Screw M6X18	8	Q235
10	Column Pin 6.4*30	1	Q235	37	Big Spring	1	65Mn
11	Speed Nut	1	HT200	38	Circumgyrate Pin	1	45
12	Flat Washer ϕ16xϕ8x1	5	Q235	39			
13	Standard Spring Washer M8	2	65Mn	40	Cross Screw M5X10		Q235
14	Hexagon Bolt M8X25	2	Q235	41	Cross Screw ST4X12	3	Q2135
15	Column Pin		Q235	42	Rear Cover		PA6-GF30
16	Scale Plate		Q235	43	Cross Screw ST5X12	2	235
17	Flat Washer ϕ20xϕ10x1	2	Q235	44	Cap of Brush Holder	2	Phenolic Resin 151
18	Standard Spring Washer M10	2	65Mn	45	Carbon Brush	2	
19	Hexagon Bolt M10X20	2	Q235	46	Brush Holder	2	Phenolic Resin 151
20	Hexagon Bolt M8X30	1	Q235	47	Plastic Housing	1	PA6-GF30
21	Cap of Height Limited Pin		NBR	48	Locking Pin	1	Q235
22	O-Ring M5			49	Spring of Lock Pin	1	65Mn
23	Height Limited Pin	1	40Gr	50	Wool Felt ϕ11xϕ5.5x2	1	Wool Felt
24	Limited Bushing	1	45	51	Bearing(CSR)6000	1	
25	Hatch Retainer Ring M6	1	65Mn	52	Bearing(CSR)6200	1	
26	Hexagon Nut M5	2	Q235	53	Cable Wire	1	
27	Hexagon Screw M8X14	1	Q235	54	Stator	1	

Exploded view No.	Part name	Qty	Material	Exploded view No.	Part name	Qty	Material
55	Cross Screw ST5X70	2	Q235	73	Lock Catch	3	PE
56	Anti-wind Ring	1	PA6-GF30	74	Lock Pin	3	PE
57	Rotor	1		75	Clamp	2	Q235
58	Bearing(CSR)6202	1		76	Cutting Wheel	1	
59	Cross Screw M5X45	2	Q235	77	Cord Armor	1	PVC
60	Cross Screw M5X6	2	Q235	78	Small Clamp	1	Q235
61	Gear Pad 5	1		79	Hexagon Bolt Level-8.8 M10X25	1	Q235
62	Aluminum Housing	1	ADC12	80	Hexagon Nut M5	3	Q235
63	Protective Cover	1		81	Right Handle	1	PA6-GF30
64	Protector	1	PE	82	Switch	1	
65	Active Cover	1	Q235	83	Cord Anchorage	1	PA6-GF30
66	Screw	2		84	Cross Screw ST4X14	2	Q235
67	Spring Washer M20	1	65Mn	85	Left Handle	1	PA6-GF30
68	Gear	1	40Cr	86	Cross Screw ST4X16	6	Q235
69	Bearing Holder	1	ADC12	87	Cross Screw M5X28	5	Q235
70	Bearing(CSR)6204			88	Spring of Switch Triggle	1	65Mn
71	Flat Washer 5X5X16		45	89	Flat Washer (A)	3	Q235
72	Spindle	1	45	90	Hexagon Nut M16	11	Q235

***The number in the exploded image corresponding to no item in the BOM means no such accessorv exists in the whole machine**

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