

HOLEMAKER HMPRO36AD

Holemaker Portable Magnetic Drilling Machine

OPERATOR'S MANUAL

⚠ WARNING!

BEFORE USE, ENSURE EVERYONE USING THIS MACHINE READS AND UNDERSTANDS ALL SAFETY AND OPERATING INSTRUCTIONS IN THIS MANUAL .



EYE PROTECTION REQUIRED



HEARING PROTECTION REQUIRED



NEVER PLACE FINGERS NEAR CUTTING AREA OR MACHINE ARBOR



LINE VOLTAGE PRESENT



BEWARE OF ROTATING MACHINE PARTS



Serial # Date of Purchase

Ver: 1.06 12/12/2023



LIMITED WARRANTY

Industrial Tool & Machinery Sales (hereinafter referred to as ITMS) will, within twelve (12) months from the original date of purchase, repair or replace any goods found to be defective in materials or workmanship. This warranty is void if the item has been damaged by accident, neglect, improper service or other causes not arising out of defects in materials or workmanship. This warranty does not apply to machines and/or components which have been altered, changed, or modified in any way, or subjected to overloading or use beyond recommended capacities and specifications. Worn componentry due to normal wear and tear is not a warranty claim. Goods returned defective shall be returned prepaid freight to ITMS or agreed repair agent, which shall be the buyer's sole and exclusive remedy for defective goods. ITMS accepts no additional liability pursuant to this guarantee for the costs of travelling or transportation of the product or parts to and from ITMS or the service agent or dealer, such costs are not included in this warranty.

Our goods come with guarantees which cannot be excluded under the Australian Consumer Law. You are entitled to replacement or refund for a major failure and to compensation for other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

THE MANUFACTURER RESERVES THE RIGHT TO MAKE IMPROVEMENTS AND MODIFICATIONS TO DESIGN WITHOUT PRIOR NOTICE.

PRODUCTS IMPORTED AND DISTRIBUTED NATIONALLY BY:



Contents

1.	GENERAL INFORMATION	3
	1.1. Application	3
	1.2. Technical data	3
	1.3. Equipment included	4
	1.4. Dimensions	5
	1.5. Design	5
2.	SAFETY PRECAUTIONS	6
3.	SYMBOLS	8
4.	STARTUP AND OPERATION	9
	4.1. Installing the handles	9
	4.2. Installing and removing the annular cutter	.10
	4.3. Preparing	.11
	4.4. Drilling	.13
	4.5. Replacing the brushes	.14
5.	ACCESSORIES	.15
	5.1. Coolant bottle with nozzle	.15
	5.2. HSS quill assembly	.15



1. GENERAL INFORMATION

1.1. Application

The PRO-36 AD is a drilling machine designed to drill holes with diameters of up to 36 mm (1 7/16"). The machine can drill to a depth of up to 30 mm (1 3/16") by using TCT annular cutters.

The electromagnetic base clamps the machine to ferromagnetic surfaces. This makes sure that the operator is safe and the machine works correctly. A safety strap protects the machine from falling in case of a clamping loss.

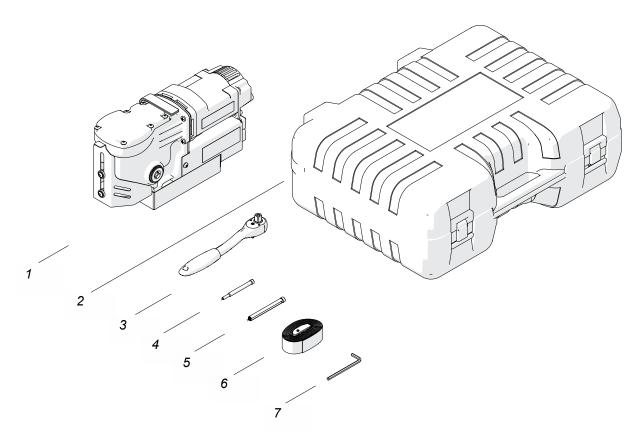
The machine is designed for professional use only.

1.2. Technical data

Voltage	1~ 220–240 V, 50–60 Hz
Power	1020 W
Tool holder	19 mm (3/4") Weldon
Maximum drilling diameter with an annular cutter	36 mm (1 7/16")
Maximum drilling diameter with a twist drill bit	12 mm (1/2")
Maximum drilling depth with TCT cutter	30 mm (1 3/16")
Clamping force (surface with the thickness of 25 mm and roughness R_a = 1.25)	8900 N
Electromagnetic base dimensions	80×160×36.5 mm 3.1" × 6.3" × 1.4"
Stroke	39 mm (1 17/32")
Rotational speed with no load	580 rpm
Rotational speed with load	370 rpm
Minimum workpiece thickness	6 mm (0.24")
Protection class	I
Protection level	IP 20
Noise level	More than 85 dB
Required ambient temperature	0-40°C (32-104°F)
Weight	9 kg (19.8 lbs)



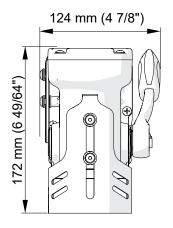
1.3. Equipment included

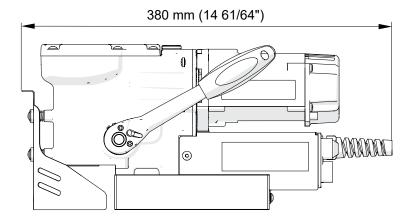


1	Drilling machine	
2	2 Plastic box	
3	Handle	1 unit
4	 4 Pilot pin 6.34x74 for HSS cutters 5 Pilot pin 7.98x85 for TCT cutters 	
5		
6	Safety strap	1 unit
7	Hex wrench 4 mm	1 unit
-	Operator's Manual	1 unit

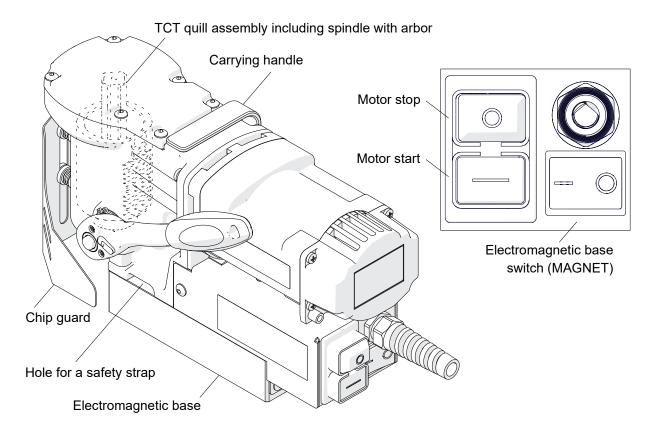


1.4. Dimensions





1.5. Design





2. SAFETY PRECAUTIONS

- 1. Before use, read this operator's manual and complete a training in occupational safety and health.
- 2. Use only in applications specified in this Operator's Manual.
- 3. Make sure that the machine has all parts and they are genuine and not damaged.
- 4. Make sure that the specifications of the power source are the same as those specified on the rating plate.
- 5. Connect the machine to a correctly grounded power source. Protect the power source with a 16 A fuse for 230 V. If you are going to work on building sites, supply the machine through an isolation transformer with class II protection only.
- 6. Set the MAGNET switch to 'O' before you move the machine. Use carrying handle to move the machine.
- 7. Do not carry the machine by the power cord and do not pull the cord. This can cause damage and electric shock.
- 8. Keep untrained persons away from the machine.
- 9. Before each use, ensure the correct condition of the machine, power source, power cord, plug, control panel, and tools.
- 10. Before each use, make sure that no part is cracked or loose. Make sure to maintain correct conditions that can have an effect on the operation of the machine.
- 11. Keep the machine dry. Do not expose the machine to rain, snow, or frost.
- 12. Do not stay below the machine that is put at heights.
- 13. Keep the work area well-lit, clean, and free of obstacles.
- 14. Make sure that the tool is correctly attached. Remove wrenches from the work area before you connect the machine to the power source.
- 15. Do not use tools that are dull or damaged.
- 16. Do not make holes whose diameter or depth differ from those specified in the technical data.
- 17. Unplug the power cord before you install and remove tools. Install and remove tools by using protective gloves.
- 18. Use annular cutters without the pilot pin only when you drill incomplete through holes.
- 19. Do not use near flammable materials or in explosive environments.



- 20. Do not use on surfaces that are rough, not flat, not rigid, or have rust, paint, chips, or dirt.
- 21. Use the safety strap to attach the machine to a stable structure. Put the strap through the hole in the machine body. Do not put the strap into the buckle from the front.
- 22. Use eye and ear protection and protective clothing. The clothing must not be loose.
- 23. Each time before you put the machine on the workpiece, rub the workpiece with coarse-grained sandpaper. Make sure that the full bottom of the base touches the surface.
- 24. Do not touch chips or moving parts. Do not let anything to be caught in moving parts.
- 25. After each use, clean the machine and the tool. Do not remove chips with bare hands.
- 26. Unplug the power cord before you do maintenance or install/remove parts.
- 27. Repair only in a service center appointed by the seller.
- 28. If the machine falls, is wet, or has any damage, stop the work and immediately send the machine to the service center for check and repair.
- 29. Do not leave the machine when it operates.
- 30. If you are not going to use the machine, remove the tool from the holder. Then, remove the machine from the work area and keep it in a safe and dry place.
- 31. If you are not going to use the machine for an extended period, put anti-corrosion material on the steel parts.





PRO-36 AD TCT

3. SYMBOLS

Before using the machine, familiarize yourself with the following symbols:



Use eyes protection



Use hearing protection



Read the Operator's Manual

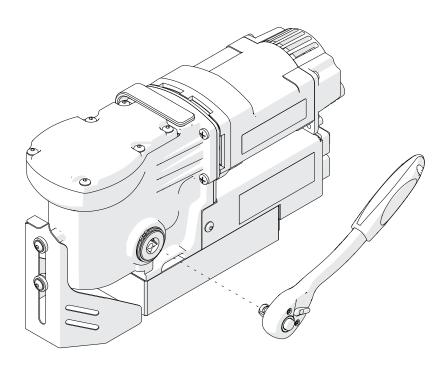


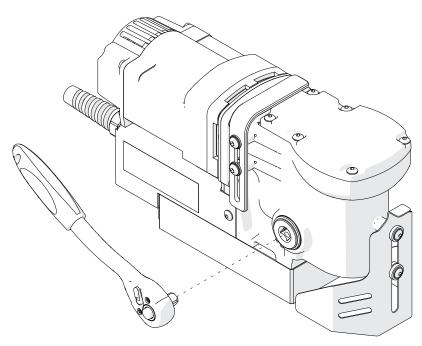
Warning against electric voltage



4. STARTUP AND OPERATION

4.1. Installing the handles



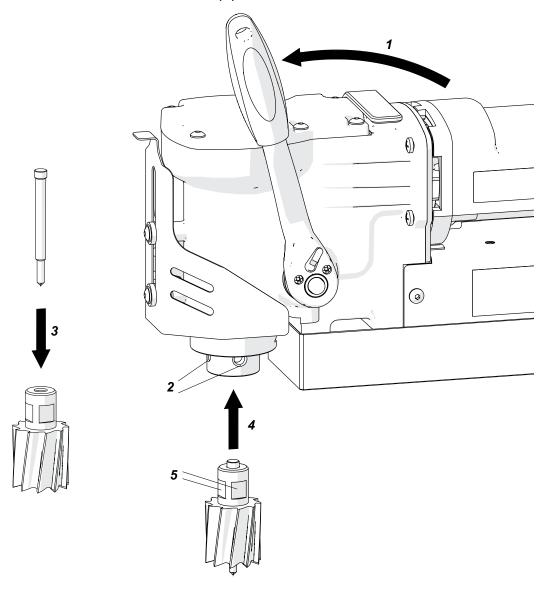




4.2. Installing and removing the annular cutter

Unplug the power cord and lift the chip guard. Turn the handle to the left (1) to get access to the screws (2). Use gloves to put the correct pilot pin into the annular cutter (3). Use a dry cloth to clean the arbor and cutter. Put the cutter into the arbor (4) to align the flat surfaces (5) with the screws (2). Use the 4 mm hex wrench to tighten the screws.

To remove the cutter, loosen the screws (2) with the 4 mm hex wrench.





4.3. Preparing

Before use, clean steel parts, including the spindle, from anti-corrosion material used to preserve the machine for storage and transport.

Install the handle as described before.

Select the annular cutter or drill bit that matches the required hole diameter. Use a dry cloth to clean the spindle and the cutter (drill bit). Then, install the cutter (drill bit) as described before.

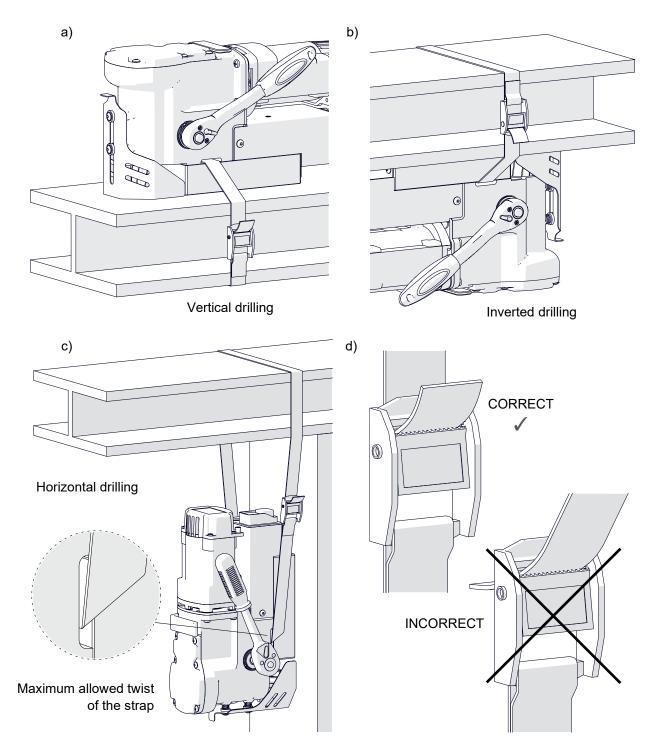
Put the machine on a flat ferromagnetic workpiece with the thickness of at least 6 mm (1/4"). Make sure that there is no rust, paint, chips, or dirt. They decrease the clamping force. The force will be lower also if the surface is thin, rough, not flat, not rigid, the voltage is lower than required, or the bottom of the base is worn.

Connect the machine to the power source. Set the MAGNET switch to 'l' to turn on the clamping.

Some types of steel (non-ferromagnetic) do not conduct magnetic flux so the machine cannot clamp onto them.

Use the safety strap to prevent fall and injury if the machine loses the clamping. Attach the machine to a stable structure by putting the strap through the hole in the machine body. Make sure that the strap is tight and not twisted (except horizontal drilling; the maximum allowed twist is shown in the figure "c"). If the machine comes loose from the workpiece and hangs on the strap, replace the strap. Do not put the strap into the buckle from the front (d).





Turn the handle to the left to put the cutter (drill bit) above the workpiece.

Fill the coolant bottle (not included) with coolant. Do not use only water as the coolant. But you can mix water and drilling oil. Then, make sure that the cooling system works correctly.

In the vertical position (a), apply the coolant manually into the drilling area. In the inverted or horizontal position (b, c), use coolants under pressure or in the form of spray or paste.



4.4. Drilling

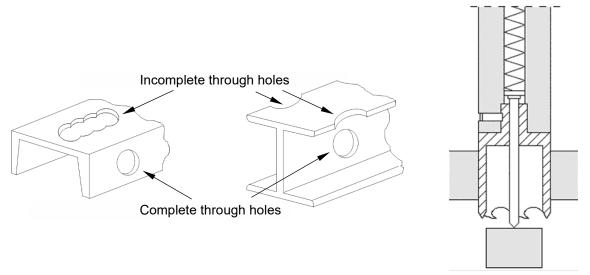
Press the green MOTOR button to start the motor. Turn the handle to the left to put the tool into the workpiece.

Keep the machine in the same position until the hole is made.



When the annular cutter goes through the workpiece, the slug core is pushed out with a large force.

When you use an annular cutter, drill only through holes. For incomplete through holes do not use the pilot pin.



When you use a drill bit, drill holes with diameters of 8-12 mm (5/16'' - 1/2'') in two steps. First, use the drill bit with the 70% diameter of the desired diameter to drill a hole. Then, keep the machine in the same position, and drill again with the drill bit that matches the desired diameter.

After the hole is made, remove the tool from the workpiece and press the red MOTOR button to turn off the motor. Before you move the machine, set the MAGNET switch to 'O' to turn off the base.

After the work is finished, turn off the motor and the base and unplug the power cord. Clean the machine and the tool, and then remove the machine from the work area.

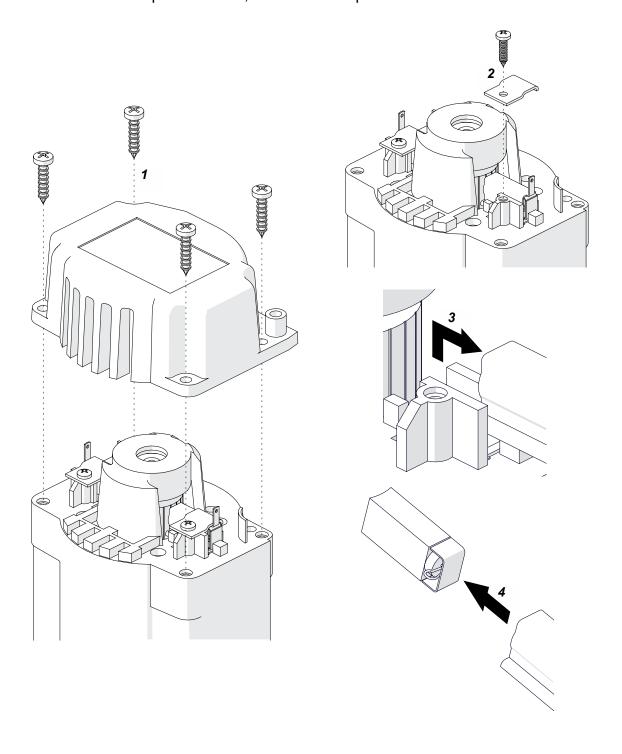
Before you put the machine into the box, remove the handle, and use gloves to remove the tool from the holder.



4.5. Replacing the brushes

Every 100 work hours, check the condition of the brushes. To do this, unplug the power cord and remove the cover (1). Remove the pressing plate (2), and then remove the brush holder (3) and the brush (4). If the brush is shorter than 5 mm (3/16"), replace both brushes with new ones.

Install in reverse sequence. Then, let the motor operate with no load for 20 minutes.

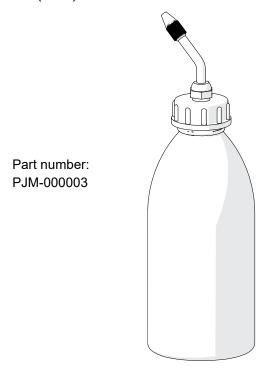




5. ACCESSORIES

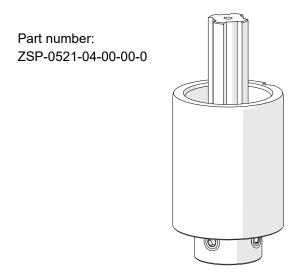
5.1. Coolant bottle with nozzle

Capacity of 250 ml (8 oz).



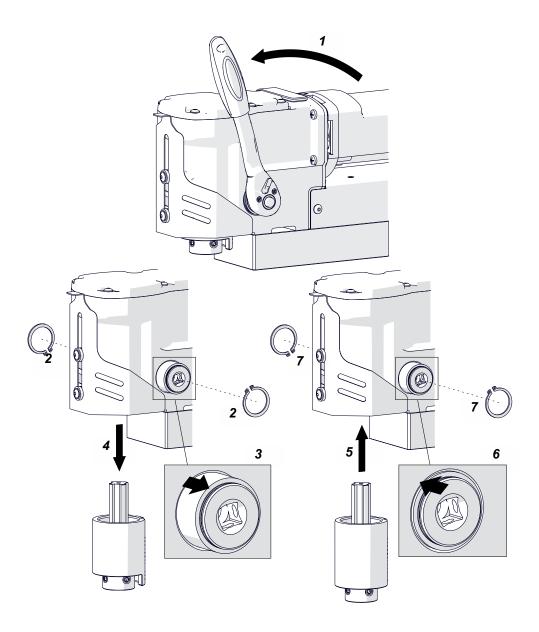
5.2. HSS quill assembly

Allows you to drill holes to a depth of up to 25 mm (1") by using HSS annular cutters or twist drill bits with a 19 mm (3/4") Weldon shank.



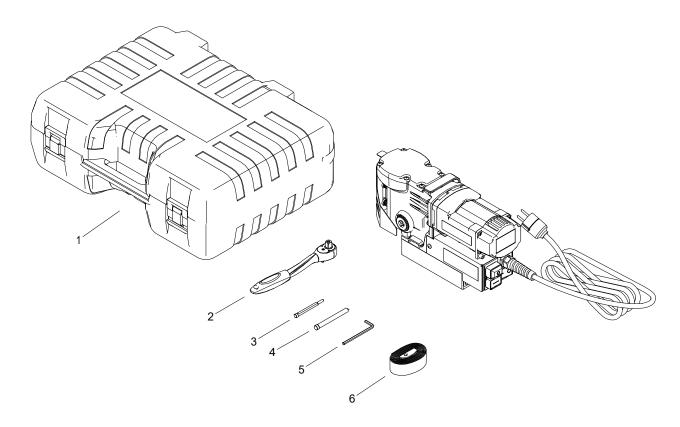


To install the assembly, unplug the power cord. Lift the chip guard and turn the handle to the left (1) to lower the standard TCT quill assembly as much as possible. Next, remove the handle and use pliers to remove the retaining rings (2). Push out the shaft (3) by 16 mm (10/16"). This will remove the TCT quill assembly (4). Install the HSS quill assembly (5) and push in the shaft (6). Then, put the retaining rings back in place (7).



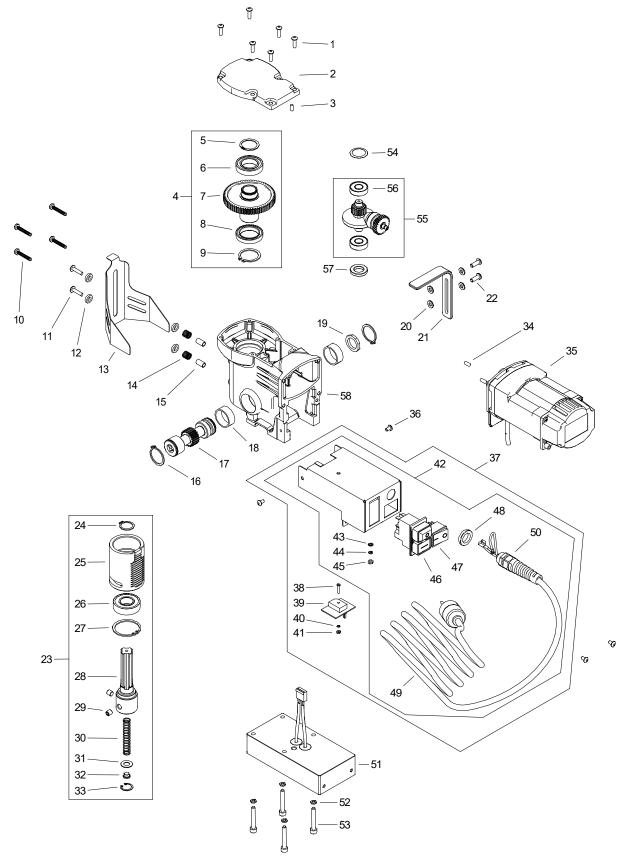


PARTS LIST



ITEM	PART NUMBER	DESCRIPTION	Q-TY
1	SKR-000012	PLASTIC BOX	1
2	PLT-0521-11-00-00-0	PILOT PIN fi7.98x85	1
3	KLC-000007	4 MM HEX WRENCH	1
4	PAS-000007	SAFETY STRAP	1
5	KLC-000088	RATCHET WRENCH 3-8	1
6	PLT-0378-15-00-00-0	PILOT PIN	1



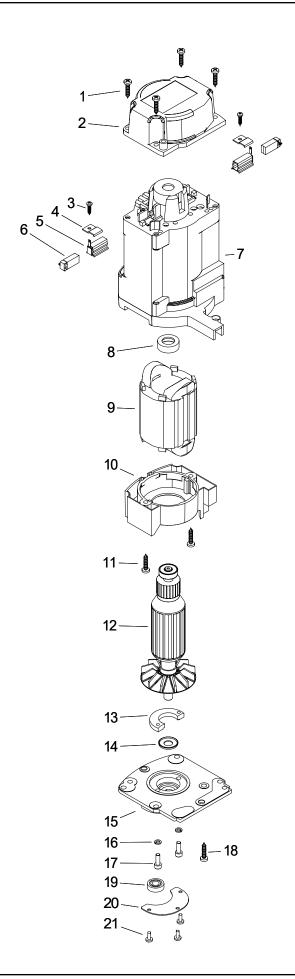


ITEM	PART NUMBER	DESCRIPTION	Q-TY
1	WKR-000098	HEX SOCKET BUTTON HEAD SCREW M5x16	6
2	PKR-0748-02-00-00-0	GEARBOX COVER	1
3	KLK-000044	DOWEL PIN 5n6x10	1



ITEM	PART NUMBER	DESCRIPTION	Q-TY
4	KOL-0521-08-00-00-0	GEAR z63 ASSY	1
5	PRS-000223	EXTERNAL RETAINING RING 25z TYPE A	1
6	LOZ-000169	BALL BEARING 25x42x9	1
7	KOL-0521-08-01-00-0	GEAR z63	1
8	LOZ-000100	BALL BEARING 30x42x7	1
9	PRS-000021	EXTERNAL RETAINING RING 30z	1
10	WKR-000302	SELF-TAPPING SCREW 5x30	4
11	WKR-000395	HEX SOCKET ROUND HEAD SCREW WITH FLANGE M5x20	2
12	PDK-000151	NYLON WASHER 8.1x14x3	4
13	OSL-0521-09-01-00-0	CHIP GUARD	1
14		SPRING 1x10x17.5	2
	SPR-000030		_
15	TLJ-0399-06-00-00-0	BOTTOM SLEEVE	2
16	PRS-000019	EXTERNAL RETAINING RING 28z	2
17	WLK-0521-10-00-00-0	PINION SHAFT	1
18	TLJ-000034	SLIDE BUSHING 28x32x12	2
19	PRS-0440-11-02-00-0	BRAKE RING 20x28x3.9	1
20	PDK-000021	ROUND WASHER 6.4	4
21	UCW-0748-04-00-00-0	HANDLE	1
22	WKR-000101	HEX SOCKET BUTTON HEAD SCREW M6x16	2
23	ZSP-0748-05-00-00-0	QUILL ASSY - TCT	1
24	PRS-000011	EXTERNAL RETAINING RING 20z	1
25	TLJ-0748-05-01-00-0	QUILL CARRIER - TCT	1
26	LOZ-000045	BALL BEARING 20x42x12	1
27	PRS-000026	INTERNAL RETAINING RING 42w	1
28	WRZ-0521-30-02-00-0	SPINDLE - TCT	1
29		HEX SOCKET SET SCREW WITH FLAT POINT M8x8	2
	WKR-000063		_
30	SPR-0378-03-04-00-0	SPRING	1
31	PDK-0139-00-04-00-0	WASHER 18.8x10x1	1
32	WYP-0378-03-05-00-0	PLUNGER	1
33	PRS-000009	INTERNAL RETAINING RING 19w	1
34	KLK-000044	DOWEL PIN 5n6x10	2
35	SLN-0748-03-00-00-1	MOTOR - 230V	1
36	WKR-000289	HEX SOCKET BUTTON HEAD SCREW M5x8	4
37	STR-0521-05-00-10-1	CONTROLLER SET ASSY - 230V (AU)	1
38	WKR-000420	COUNTERSUNK HEAD SCREW M3x16	1
39	MDL-0378-14-04-00-4	ELECTRONIC MODULE SW-35A 230V	1
40	PDK-000041	SPRING WASHER 3.1	1
41	NKR-000010	HEX NUT M3	1
42	OBD-0521-05-07-00-0	ELECTRONIC CONTROLLER HOUSING - 115V	1
43	PDK-000060	EXTERNAL TOOTH LOCK WASHER 4.3	1
44	PDK-000043	SPRING WASHER 4.1	1
45	NKR-000013	HEX NUT M4	1
46	WLC-000008	START-STOP SWITCH - 230V	1
47	PNK-000013	SWITCH	1
48	NKR-000040	STRAIN RELIEF NUT PG11	1
49	SZN-0212-10-02-00-1	POWER CORD 230V 3x1 WITH STRAIN RELIEF ASSY (AU)	1
50	DLW-000007	CABLE GLAND WITH STRAIN RELIEF PG11	1
51	PDS-0521-14-00-00-1	ELECTROMAGNETIC BASE	1
52	PDK-000046	SPRING WASHER 6.1	4
53	SRB-000124	HEX SOCKET HEAD CAP SCREW M6x40	4
54	SPR-000063	DISC SPRING fi27.99xfi21.74x0.3	1
55	PKL-0521-99-00-00-0	BEVEL GEARBOX ASSY	1
56	LOZ-000038	BALL BEARING 12x28x8	2
57	PDK-0521-13-00-00-0	SETTING WASHER	1
			1
58	KRP-0748-01-01-00-0	MAIN BODY	
59*	SMR-000009 hown in the drawing	GREASE	0,15k







ITEM	PART NUMBER	DESCRIPTION	Q-TY
1	WKR-000241	SELF-TAPPING SCREW 4x20	4
2	PKR-0440-03-02-00-0	MOTOR COVER	1
3	WKR-000359	SCREW 3x13	2
4	PLY-0271-03-07-00-0	BRUSH HOLDER PRESSURE PLATE	2
5	SCT-0271-03-06-00-0	BRUSH HOLDER	2
6	SCZ-000008	MOTOR BRUSH 6x9x17	2
7	OBD-0272-03-01-01-3	STATOR HOUSING	1
8	WKL-000001	BEARING INSERT 19x7.5	1
9	STN-000004	STATOR – 220V	1
10	OSL-0271-03-01-02-1	FAN COVER	1
11	WKR-000241	SELF-TAPPING SCREW 4x20	2
12	WRN-0440-99-02-00-1	ROTOR – 230V	1
13	PRS-0271-03-02-02-1	GEARBOX COVER RING	1
14	USZ-000055	SEAL	1
15	PKR-0748-03-01-00-0	MOTOR COVER	1
16	PDK-000042	SPRING WASHER 4.1	2
17	SRB-000062	HEX SOCKET HEAD CAP SCREW M4x12	2
18	WKR-000236	SELF-TAPPING SCREW 5x16	1
19	LOZ-000061	BALL BEARING 7x17x5	1
20	OSL-0521-03-02-00-0	GEAR COVER	1
21	WKR-000182	CROSS RECESSED PAN HEAD SCREW M3x8	3



ELECTRICAL DIAGRAM × Power cord YELLOW-GREEN (230VAC) / GREEN (115VAC) BLUE (230VAC) / WHITE (115VAC) -FLTR1 KSPPpz-024 m(III) Power switch BLACK BLUE BLACK Switch START-STOP Ø 55 -PCB1 Electronic module SW-35_P1101 ø -CON2 J3 Ø ģ BROWN Electromagnetic base assy MOTOR برووف برهه