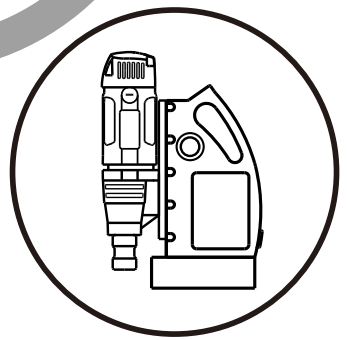
EGGENBERG
INDUSTRIAL TOOLS

MANUAL EMD-35



OPERATING INSTRUCTION -16

CONTENTS

Operation Manual

WARNING

To prevent electric shock or fire, please strictly abide by the procedures in the operation manual.
The machine only for the authorized persons, please do not let other people to operate. If any violation of the instructions operation and cause personal injury or machine damage, our company disclaim all responsibility.
The machine can be only maintained by the people who has the certification.

THANKS TO THE BUYER

Thanks for buying the series of magnetic drill machine of . Please read the operation manual and pay attention to the safety precaution.
The right operation, will make you fully feel our products superior performance.
Please put this manual in a safe place for future reference.

ABOUT THIS MANUAL

The machine model of the description in this manual:

EMD-35

Confirm the machine model according to the nameplate.

DESCRIPTIONS OF PRODUCTS

Magnetic drill is a kind of electric tool for adhering and drilling on the horizontal level,side face and top face,and widely used in the building,bridge building,and ship building industries and so on.You can use the magnetic drill when you can not use drill press and electric hand drill to drill huge steel workpieces or in field operation. It´s very convenient to use, flexible, can reduce labor intensity, improve the machining precision and work efficiency.

CAUTIONS

1.Please read the manual carefully before use, to understand the magnetic base drill structure; electromagnetic sucker, electric drill and transmission functions.
2.Before installing or remove the drill must confirm the motor switch is closed and unplug.
3.Using a drill bit after clamping, key wrench must be removed, while the drill must be sharp, for Morse taper shank drill should pay attention to the flat iron tail at the cone sleeve waist groove insert cone sleeve. Remove the drill, the inclined flat iron is inserted on the oblique iron just bit dropping hammer sleeve waist groove.
4.And its operation must be put in the fuselage behind the cable, away from the drill bit
5.In the switching power supply, electric and magnetic switch must be in the off position
6.Drilling machine must be used when using engine coolant. The use of cooling liquid (soap) according to the ratio of watered, absolutely can not direct use water cooling. Otherwise very easy to damage, and the main internal rust on the drill bit can't get it out. No internal machine water, otherwise it will burn the circuit board.
7.Such as the use of the stepless speed regulation, models of constant power overload prote ction, the machine during use motor suddenly stop functioning, then in the function of over load protection device, the steps are as follows: A. turn off the power switch, paused for a few minutes; B. weight of the plug, then open the motor.
8.The use of magnetic base drill, must wear a seat belt buckle.
9.No rough operation personnel, feed can not handle in order to work fast and pressed down the machine feed, so lossy bit and machine
10.Non-magnetic materials can not drill with magnetic base, if the non-magnetic material punching need to choose the magnetic base drill with sucker.
11.Cannot use at the same time, electric welding machine and magnetic base drill on the same piece of steel plate, so that the operating from electric shock danger.

ELECTRICAL SAFETY

Tool before connecting power, using the socket must be able to fit the plug machine. The 380V model to determine the fire and. Line the correct docking, power supply socket with the need of professionals to complete. Do not arbitrarily change the plug, adapter plugs can't pick. The electric tool wire used together.

SAFETY INSTRUCTIONS

Warning labels and/or other labels on the machine must be replaced when they were removed.

	Do not operate the machine at insufficient lighting conditions. Do not operate the machine outdoors. Do not operate the machine when you are tired, when your concentration is impaired, and/ or under the influence of drugs, medication or alcohol.
	Climbing onto the machine is forbidden! Heavy injuries by falling down or by tilting of the machine are possible.
	The machine shall be used only by trained persons. Non authorized persons, especially children, shall be kept away from the work area.
  	Do not wear loose clothing, long hair openly or loose jewellery like neck-laces etc. when operating the machine They might be catched by rotating parts and cause serious injuries.

	Use proper safety clothing and devices when operating the machine (, safety goggles, ear protectors, safety shoes ...)! Do not wear safety gloves for oper-ating because they decrease the working accuracy and they might be pulled into the saw blade.
	Before any maintenance you have to disconnect the panel saw from the power source. Never use the plugged cable for transporting or manipulating the machine.

INSTRUCTIONS

1 .Plug the power plug, the drill bit aim at processing position, make the magnetic switch is opened, so that the magnetic is adsorbed on the surface of steel plate magnetic materials. No impurities on the surface, and check whether the attractive force is normal or not. (general plate thickness should be more than 10mm)

2 .Please placed the magnetic base drill required from the drilling near site and select the appropriate adsorption material.And will handle hole safety rope penetrates into the frame, the other one is in fastening frame after the penetration of the buckle, and then close the safety rope buckle. Hand and pull off, should not loose and mobile.

3 .For a support screw, regulating the support screw that the bottom touches the workpiece surface.

4. For the magnetic base is provided with the angle of the drill, the use of angle wrench movement angle disk in the annex to the belt rack makes bit central alignment processing position, tighten the angle wrench.

5 .Open the electric drill switch, check whether the drill bit beat, sound is normal, if everything is normal can turn the handle to feed.

6. Start feeding should be slow, gives the quantity of about 0.05mm/r in general, not too much force, to prevent overload.

7. If the drill suddenly stopped, you must turn off the power switch immediately, (Mustclose the magnetic control switch)

8.Please shut down for a period of time machine in continuous use for 2-3 hours, in case magnetic base is overheated and leakage or burned.

9.Should be filled with cooling water or cooling liquid using hollow drill, turn on the tap,and let it flow out slowly.

10.The company factory hollow drill are equipped with cooling kettle, please put the kettle arranged on the corresponding position before operating the machine, and tighten the two round head screw. The kettle is connected after please figure two (035), fittings is screwed on the hydrosphere, tighten the end can be on the frame by.

GROUNDING DEVICE

This tool should be properly grounded, in order to avoid the shock. Grounding device should have the lead standard, and a grounding plug with earthing special line. Do not be ground false joint in the line of fire or three-phase line. Grounded power receptacle should be connected withthe earthing device is connected to the eternal, so that it can work with yellow green wire connected to the plug hole and connection piece at the same time and ground connection.

QUALITY ASSURANCE

Consumers buy our machines produced within twelve months, enjoy free maintenance and warranty service. During normal use of the whole or parts of any manufacturing process or product failures caused by components, please present the original invoice, the dealer stamped and filled properly warranty certificate to the Company or the Company's designated repair station to receive free services. machine consumable normal wear and tear, overload, do not operate according to operating specifications, disassemble, damage caused as a result of use of parts other than the Company and damage, are not covered by warranty. warranty expires,provided by the designated repair station maintenance service. maintenance records must be sealed or signed by the repair station to take effect.

FAULT HANDING

FAULTS	CAUSES	ELIMINATION METHODS
Magnetic base without suction	Switch contact undesirable	Repair the switch
	Power supply is broken	Repair the power supply
	The fuse burn out	Replace the Fuses
	Electromagnet short circuit or burn out	Repair or replace the magnetic bridge
	Adsorption not on the steel frame	Change the adsorption surface
	Circuit board burned.	Replacement of circuit boards
Machine did not run after the jump	Switch contact undesirable	Repair and change switch
	Joint loose	Check the electric drill part connector
	Brush and commutator poor contact	Repair or replace the electric brush
	Drill the armature or stator coil burn out	Changing the armature or stator
Magnetic little suction	Adsorption artifacts thin	Replace the adsorption surface or thickening adsorption surface (>10mm steel sheet)
	Adsorption on the surface is small	Replace the adsorption surface or temporary welding thick surface adsorption
	Support bar between the adsorption surface	Support bar top tight
	Diode may be virtual welding	Re Welding
Turn the handle guide does not work	Shaft key cut	Replace the shaft key
	Wheel and rack misplace	Unscrew the rack bottom screw, remove guide to repair
Drill out the elliptical hole	For a drill and a fastener is loose	Correction of verticality tighten the fasteners
	Bit unilateral cutting	Grind anew
	Adsorption surface have sundry	Eliminate clutter
Spindle shake	Frame adjusting screw loose	Tighten adjusting screws
Electric ignition	The spark turns orange.	Slow down.
	Sparks flying out.	Change the brush, please.
	Sparks into a ring of fire	Please check if the motor is burned.

Warning: magnetic drill equipped with a safety rope, when operating, make sure the magnetic drill and the object is fastened by the rope.In case of power failure suddenly, causing the machine fall off or thrown objects and cause accidents.

Attention: Our company does not assume any responsibility because the machine is not solid or fixed safety facilities are not in appropriate place cause accident.

MAGNETIC CORE DRILL

1 > MAGNETIC CORE DRILL SPECIFICATIONS SHEET 1

Specifications MOD.	Core Cutter mm	Voltage V	Input W	Max attraction N	No-load speed r/min	Net /Grossweight kg
★ EMD-35	35	110/220V	1550W	14800	100-830	12/15

Built in cooling system with★ .Split type with ※.

Notice: In order to constantly improve products, our company reserves the right to change technical data without prior inform.

2 > MAGNETIC CORE DRILL ADVANTAGE

Magnetic base drill has the advantages of small volume, light weight, high efficiency, easy to carry, host frame material for magnesium alloy die casting machine,The host is fixed to the gear box, the advantages of the built-in cooling system. Motor with constant power, soft start, electronic stepless speed regulation, overload protection and other functions.

Magnetic base drill hole hollow drill is very economic. Control models can not change the bit torque state change .Variable speed, with Morse conversion set of models can be clamped Hemp flowers drill, can be used for many purposes in order to achieve one machine multipurpose high.Greatly improve the working efficiency.

3 > MAGNETIC CORE DRILL APPLICATION

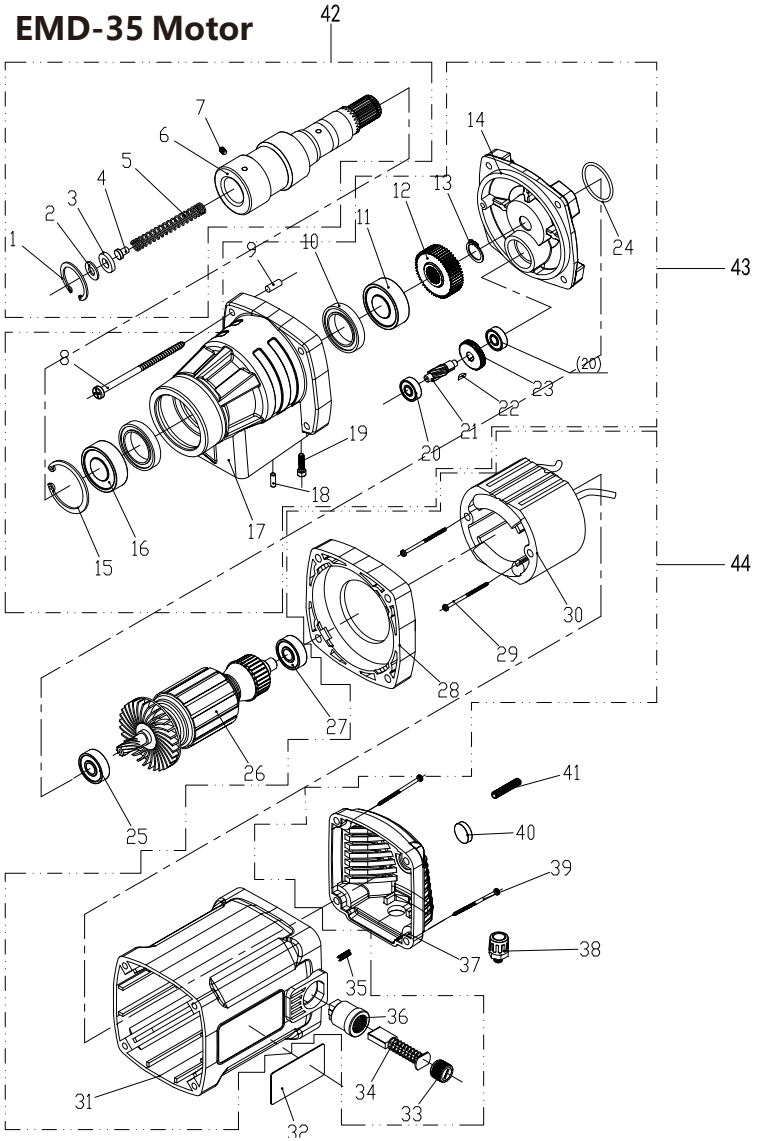
While drilling on horizontal level, move the machine to the workpiece, then plug in. Turn on the magnetic control switch, fit on the bit after the magnetic base fixed firmly, and then rotate the handle to move the bit to the workpiece. Turn on the motor switch to drill. Keep the load around 0.05mm/r. Do not overexert in case of overload.

While drilling on the side face, we need two operators, and one guardian as well. Move the machine to the workpiece, then plug in. Turn on the magnetic control switch until the magnetic base fixed firmly(the operator need to hold the machine during this period), and then fasten the safe belt in case of sudden dropping. Fit on the bit, rotate the handle to move the bit to the workpiece and then turn on the motor switch to drill. Keep the load around 0.05mm/r. Do not overexert in case of overload.

While drilling on top surface, we also need two operators, and one guardian as well. Try not to drill on this way. While choosing this way, take some corresponding protection consider the fastness and the scrap iron. As to other ways, operators can use flexibly according to the situation. But do consider the safety.

NO.	Parts name	QTY
1	Neka 19	1
2	Stainless steel gasket 2 #	1
3	PU gasket B	1
4	Bullet top 32 HD	1
5	Spring 32HD	1
6	Spindle 1300	1
7	Hegonal top wire M10 * 12 in flat head	2
8	Round head cross self-propelled screw M5 * 55(half tooth)	4
9	Cylinder pin 4 * 12	1
10	Oil seal 22 * 32 * 7	2
11	Bearing 6904	1
12	Spindle gear 13-3	1
13	Card 17	1
14	Middle cover 13	1
15	Inner card 42	1
16	Bearing 6905	1
17	Tooth box 13	1
18	Cylinder pin 5 * 15	2
19	Hegonal screw M5 * 20	4
20	Bearing 608	2
21	Class I tooth axis 13-2	1
22	Moontooth pin 9 * 3 * 4	1
23	Class I gear 13-1(8)	1
24	O-ring φ 25.8 * 1.8	1
25	Bearing 6000	1
26	Rotor EMD35	1
27	Bearing 608	1
28	Bend 80	1
29	Round head cross self-propelled screw M4 * 65	2
30	Stator SCY-32HD	1
31	Stator shell 80	1
32	Brand 40-80	2
33	Brush 80	2
34	Carbon Brush 80	2
35	Hegonal top wire M5 * 15 in flat head	2
36	Brush 80	2
37	Top cover 80-Z	1
38	Hose connector M12 * 1.5	1
39	Round head cross self-propelled screw M5 * 25	4
40	Horizontal 15 * 6	1
41	PE tube AD10 * 410	1

EMD-35 Motor



NO.	Parts name	QTY
1	Hegonal screw M6 * 16	2
2	Guide board 11-13YW	1
3	Teeth 10 * 16 * 180(M1)	1
4	Nut M5	5
5	Cross level screw M3 * 8	3
6	Volume 3 * 8	2
7	Folding slider 13	1
8	Frame 13YW	1
9	Adjusting sliders 13	1
10	Inner hexagonal top wire M5 * 20	5
11	Smooth strips -13	1
12	E-card 15	1
13	Roller pads 17 * 30 * 0.5	1
14	Bearing 6903	1
15	Card 18	1
16	Lift gear 11-13	1
17	Composite bearings 25 * 30	1
18	Lift shaft 11-13	1
19	Marketing 5 * 14	1
20	Knife handle 11-19	3
21	Outer hexagonal screw M10 * 110	3
22	Button head SKT-20	3
23	Hose connector M12 * 1.5	1
24	Bottle screw M5 * 12	2
25	Pad M4	2
26	Waveform gasket M4	1
27	Copper nose OT 1.25 -4	1
28	Round Cross Screw M4 * 8	1
29	Power cord 3 * 0.75 * 2.5 M	1
30	Fold proof connector M12 * 1.5	1
31	Panel Box 13	1
32	Governor CX-16435	1
33	Button Panel 13TS	1
34	Stainless steel large flat head screw M3 * 6	8
35	Waterproof switch KJD17	1
36	Speed control knob KN-8E	1
37	Switch KCD5	1
38	Fuse MF-527	1
39	Circuit board SCYXLB-166-80	1
40	Circuit board support CX13-130TT	1
41	Flat head self-propelled screw M4 * 12	2
42	Round Cross Screw M4 * 15	2
43	Nut M4	2
44	Hegonal screw M4 * 10	4
45	Hegonal screw M6 * 55	2
46	Disk CX-166 * 80 * 50	1
47	Hegonal screw M6 * 20	2
48	Parameter Panel SCY-13	1

EMD35 Stand