

Bäumr-AG

MAGNETIC DRILL MD1101



User Manual

We appreciate you choose our magnetic drill. Our magnetic drill can use on complex environment for steel drilling operations, especially for the shipbuilding industry, paper industry, bridges industry, machinery equipment installation, steel structure works, subway construction, large equipment maintenance, power plant maintenance and all plumbing maintenance.

Features: small size, high power, high efficient, accurate positioning features. Our magnetic drill motor use Germany technology so that our magnetic drill excellent high-power can withstand higher-intensity operations. You will have no regret to purchase our magnetic drill because our products really enjoy high quality both at home and abroad. It's no problem for after sales service.

Warning: Before you use magnetic drill, please pay attention to read precautionary safety list below in order to avoid fire, electric shock, and injuries and other accidents.

1. Keep workplace clean. Dirty areas invite injuries.
2. Please give emphasis to the workplace environment. Don't expose tool to the rain. Don't use tools in damp or dark places. Do not use tools in flammable liquid place.
3. Prevent idlers go into the workplace. Do not let the idle and children contact or touch the tools.
4. When not use, tools should be stored in a dry, high, or locked-up place. Keep out of the reach of children.
5. Keep proper rated speed and pressure to make the operation more safe and durable.
6. Do not let the tool work overload.
7. Do not wear loose clothing. They can be caught in moving tool. When work outdoors, you should wear rubber gloves and non-slip safety shoes. Frequently operate are required to wear protective cap.
8. Wear safety glasses. You should wear mask if shaving are many and dust is many.
9. Do not trample wire.
10. Work must maintain proper posture.
11. Check the wire regularly. If find damage part which need be replaced immediately. Keep handle dry and clean.
12. When tool not use, you need to remove the fixture, and make sure to unplug the power cord.
13. Prevent accidental start. Insert the plug into the power seat; you must check the tool switch whether turned off. When the tool has power, please do not press the switch frequently.
14. Make sure to use the extension cord for outdoor use.
15. Do not use tool when you are tired.
16. Check all parts of the tool before use.
17. To avoid electric shock. When work, the body can not touch grounded metal, such as steel pipes, radiators, refrigeration machines.

Note Power: Pay attention to the power supply voltage. If the power supply voltage higher than the voltage application of the tool, which will enable users a serious accident and will also damage tools. If the powers supply voltage lower than the tools required, which will be harmful to the motor.

I Future and use

Magnetic drill can be adsorbed on the steel parts of the plane, side, top, surfaces. It widely used in construction, bridge, boiler, shipbuilding and other industries. Some electric drills can not drill inconvenient on large iron and steel part, you can use the magnetic drill, which is convenient, flexible, and also can reduce labor intensity and improve machining accurately and efficient. Because it has a unique role that can drill large hole (45 # steel can be drilled largest hole $\Phi 80\text{mm}$), so it can be instead of some radial drilling machine.

II Preparation before use

1. Insert the handle lever into the handle seat hole and next tighten them.
2. Turn the handle lever, check the guide board whether move freely.
3. Connect power and open magnet drill switch, you can see indicator lighting, which show magnetic drill is in working condition. Use a screwdriver or iron bar in the bottom of magnet to check whether have suction. Open the drill control switch, check the drill whether working.

Note: When moving magnetic drill, do not drag it on the ground in order to prevent magnet damage.

III Several working methods and precaution

1. Level work:
 - a. Move the magnet drill on the work surface (Note: magnet contact surface should be clean and smooth, do not have iron debris)
 - b. Connect power and open magnetic control switch, so magnet firmly attach on the work place.
 - c. Install required drill, loosen the dial and tighten the top screws, turn the rack, so that the drill can align the holes and tighten the top screw. Rotate supporting bar.
 - d. Open the drill control switch, so the drilling process. (Note: The feed is generally 0.55mm/r , so not too much force in order to prevent overload)
 - e. When processing complete, turn off the control switch and magnet control switch and pick up magnetic drill from work surface.
2. Side work: (Note: It needs two or more people operations, and some people care)
 - a. Insert the plug into power outlet.
 - b. Lift the magnet drill and make the magnet attached the work surface, open magnet control switch, so magnet sucked the work surface firmly.
 - c. Fasten safety rope in order to prevent magnetic drill sudden drop .
 - d. Install required drill, loosen the dial and tighten the top screws, turn the rack, so that the drill can align the holes and tighten the top screw. Rotate supporting bar.
 - e. Open the drill control switch, so the drilling process. (Note: The feed is generally 0.55mm/r , so not too much force, to prevent overload; When operation, people do not stand under the magnet drill in order to prevent a sudden drop wounding people.)
 - f. When processing complete, turn off the control switch and magnet control switch and pick up magnetic drill from work surface.

3. Top of the work (It needs two or more people operations, and some people care)
4. Other ways: Operators can flexibility use, but must consider security.

IV Safe use and maintenance

Safety Instructions

1. Users must comply with the instructions
2. Area must be clean, light.
3. Balance body when use tool.
4. Let the idle and the children away from work place.
5. Avoid the wires, water, gasoline.
6. In general workplace, it need security measures, such as power failure protection, leakage protection, safety isolation transformer, or the user must wear insulated gloves and insulated mat insulation.
7. Do not exchange the plug type.
8. After use, remove the plug in time.
9. To prevent a sudden start, insert the plug, the drill and magnet control switch should be in off position
10. Far away from power supply over 20m, you need select our factory cable tray (S333, S4332 with leakage protection)

Help

1. Use voltage, line voltage specified on the nameplate does not exceed $\pm 5\%$ voltage
2. According to models equipped with the appropriate drill chuck or taper sleeve, specifically for the use of three-jaw drill chuck $\Phi 13\text{mm}$, $\Phi 19$, $\Phi 23$ with No.2 Morse taper sleeve, $\Phi 32$, $\Phi 38$, $\Phi 49$, $\Phi 60$, $\Phi 80$ use Morse taper sleeve 4 # number. Insert taper shank into the shaft .
3. The drill must be sharp. When drill brake suddenly, you must immediately close the drill control switch (Note: Do not drill off magnet control switch)
4. Brush can not be used .It needs timely exchange brush
5. When magnet drill can not use, it should immediately be repaired.
6. Magnet drill must be kept clean.
7. Do not impact magnetic drill.
8. 3 hours continuous use, the magnet should rest for moment in order to prevent magnet overheating and burn.

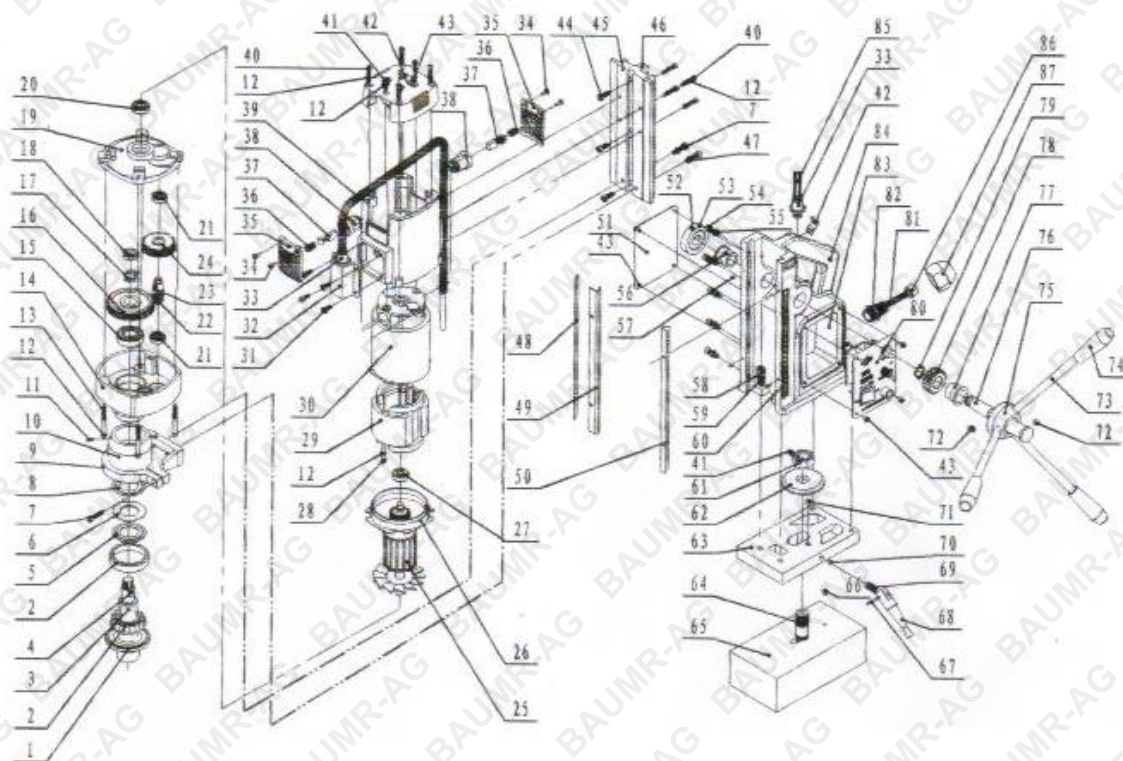
Maintenance

1. Add oil frequently and keep gear box and bearing clean.
2. Maintain magnetic drill frequently, such as: check magnet suction, drill, power plugs, lights, switch, insulation, resistance whether normal, the guide plate movement whether normal.
3. Save each part.
4. Magnet drill should be stored upright in a dry, clean and no corrosive gas environment.

V Malfunction Diagnosis & Solution Method

malfunction diagnosis	analysis failure reason	solution method
magnetic seat without suction	switch bad connection	repair or replace the switch
	power can not use	repair power supply
	fuse burn out	replace the fuse
	electromagnet short circuit or burn out	repair or replace magnetic seat
	circuit board burn out	replace circuit board
turning handle can't run	shaft fracture	replace shaft
	gear wheel and gear rack mismatch	Loosen the screw below the gear rack, remove the guide plate and repair it
small suction on magnetic seat	adsorption part so thin	Change adsorption surface or add adsorption surface thick (thickness $\geq 15\text{mm}$)
	adsorption part on small surface	Change adsorption surface
	The end part of supporting bar not touch the adsorption surface	tight the supporting bar
	diode may not weld	weld the diode again

VI Parts for magnetic drill



No.	NAME	QTY.
1	Slewing bearing cap	1
2	Bearing 30206	1
3	Principal axis	1
4	Square key 6x6x12	1
5	Oil seal cover	1
6	Felted wool	1
7	Socket cap screw M6x25	3
8	Oil seal gasket	1
9	Supporting shoe	1
10	Spindle collar	1
11	Elastic cylindrical pin	2
12	Socket cap screw M5x55	4
13	Pad Ø5	16
14	Gearbox housing	1
15	Bearing 6004	1
16	Gearwheel	1
17	Lockwasher	1
18	Round nut M16x1.5-7	1
19	Cap	1
20	Bearing 6001	1
21	Bearing 609	2
22	Gear shaft	1
23	Semicircular key 4x13	1
24	Pinion	1
25	Rotor	1
26	Ring	1
27	Bearing 629	1
28	Cruciform slot screw M5x65	2
29	Stator	1
30	Inner case	1
31	Socket cap screw Mx14	4
32	Safety cover for wire holder	1
33	Plastic bonding cap	2
34	Cruciform slot screw	4
35	Carbon brush cap	2
36	Carbon brush spring	2
37	Carbon brush	2
38	Carbon hold	2
39	Flexible conduit	1
40	Socket cap screw Mx25	8
41	Socket cap screw M5x15	3
42	Plate for flexible conduit	2
43	Cruciform slot screw M4x8	13
44	Socket cap screw M6x16	3

No.	NAME	QTY
45	Guide board	1
46	Rack	1
47	Pad Ø6	3
48	Tracking pad	1
49	Tracking pad 1	1
50	Tracking pad 2	1
51	Nameplate	1
52	Hollow-head setscrew M8x15	3
53	Adjusting collar for shaft tip	1
54	Socket cap screw M6x20	5
55	Hexagon die nut M6	5
56	Bush 2	1
57	Elastic cylindrical pin 3x8	4
58	Socket cap screw M8x25	4
59	Pad Ø8	4
60	Staff gauge	1
61	Hexagon die nut M20	1
62	Lumplate pressure pad	1
63	Lumplate	1
64	Double screw pipe	1
65	Electromagnet assembly	1
66	Cruciform slot screw M5x8	1
67	Cylindrical pin Ø3x20	1
68	Turning handle	1
69	Locknut M10x50	1
70	Steel ball Ø8	1
71	Ball stud Ø8x8	1
72	Semicircular key 5x13	2
73	Handle lever	3
74	Handle bush	3
75	Handle seat	1
76	Handle bearing	1
77	Bush 1	1
78	Gear	1
79	Collar Ø18	1
80	Breadboard assembled	1
81	Cable line	1
82	Cable bearer	1
83	Junction box	1
84	Frame	1
85	Soft cable line	1
86	Cable shroud	1
87	Locknut M20x1.5	1





Some experts believe the incorrect or prolonged use of almost any product could cause serious injury or death. For information that may reduce your risk of serious injury or death consult the points below and additionally, the information available at www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature online documentation which should be printed and kept with the product.
- Check product for loose / broken / damaged / missing parts, wear or leaks (if applicable) before each use. Never use a product with loose / broken / damaged / missing parts, wear or leaks (if applicable).
- Products must be inspected and serviced (if applicable) by a qualified specialist every 6 months assuming average residential use by a person of average weight and strength, above average technical aptitude, on a property matching average metropolitan specification. Intended use outside these guidelines could indicate the product is not suitable for intended use or may require more regular inspection or servicing.
- Ensure all possible users of the product have completed an industry recognised training course before being given access to the product.

- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or your description of the application. Be sure to attain third party approval for your application from a qualified specialist before use regardless of prior assurances by the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (take an automobile, aircraft, computer or ball point pen for example) there is always a small chance of a technical issue that needs to be repaired or may require replacement of the product or a part. If the possibility of such failure and the associated time it takes to rectify could in any situation inconvenience the user, business or employee or could financially affect the user, business or employee then the product is not suitable for your requirements. This product is not for use where incorrect operation or a failure of any kind, including but not limited to a condition requiring product return, replacement, service by a technician or replacement of parts could cause a financial loss, loss of employee time or an inconvenience requiring compensation.
- If this item has been purchased in error considering the points above simply contact the retailer directly for details of their returns policies if required.

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