



MISARC magnetic drill machine
Makes drilling faster and easier



MX-35 Magnetic Drill Functional description



- 1 Two-way sliding rails: special process of Hard wear-resisting, makes the wear-resisting performance increased more than 2 times, Is the guarantee of lower supplies.
Rail positioning function, which can make the motor stop at any position to prevent self-rig decline and damage cutter.
- 2 Design of internal self-lubricating function ensure longer life of gear.
- 3 Automatic internal cooling system, external cooling ring design to prevent water overflow into the gear box, the overall design makes the appearance more beautiful.
- 4 Design of overall aerial lifting holes and insurance rope holes guarantee double protection for the safety of the aerial personnel and equipment.
- 5 Design of overall tilt body ensures its overall rigidity, and improve drilling accuracy.
- 6 Magnetic bottom wear design, which delays the wear of magnet bottom and extend service life.

Magnetic base with maximum adhesion up to 10000N ensures the safety and reliability during drilling operations.

MX-35 Magnetic Drill

Model	MX-35
Motor rated power	1100W
Load speed	450rpm
Tool holder	19.05mm (3/4")
Magnetic adhesion	10000N
The max. cutting dia. (annular cutter)	Ø35mm (1-3/8")
The max. cutting depth (annular cutter)	50mm (2")
The max. cutting dia. (twist drill)	Ø13mm (1/2")
The min cutter depth	10mm
Stroke	120mm
Motor can adjust the height to	95mm
The whole machine size	275mm×190mm×400mm
Magnetic base size	167mm×84mm×44mm
Total weight	11kg
Countersunk drilling	10-35mm

MX-60 Magnetic Drill Functional description



- 1 Tilt protection design for motor air Inlet avoids liquid or debris falling into the inside of the motor.
- 2 Over loaded protection: When drilling abnormal or improper operation caused motor overload, the protection function will automatically shut off the motor, prevent damage of the motor.
- 3 Magnetic adhesion protection: Magnetic failure occurs, shut down motor automatically, in order to protect the safety of personnel and equipment.
- 4 Motor soft start: reduce the impact on motor start and prolong the service life of the motor.
- 5 Outlet: humanized design, change the direction of outlet, make motor exhaust air to avoid personnel position, improve drilling comfort.
- 6 Guide lubrication system: guide internal storage design, which can make the guide parts has been in the lubricationstate, prolong the service life of guide rail.

MX-60 Magnetic Drill

Model	MX-60
Motor rated power	1500W
Load speed	250/450rpm
Tool holder	MT3
Magnetic adhesion	15000N
The max. cutting dia. (HSS annular cutter)	Ø50mm (2")
The max. cutting dia. (TCT annular cutter)	Ø60mm (2-3/8")
The max. cutting depth (annular cutter)	75mm (3")
The max. cutting dia. (twist drill)	Ø31.5mm (1-1/4")
The min cutter depth	10mm
Stroke	170mm
Motor can adjust the height to	130mm
The whole machine size	375mm×230mm×450mm
Magnetic base size	210mm×100mm×45mm
Total weight	19kg
Countersunk drilling	10-50mm



MX-120 Magnetic Drill	Functional description
Drill with Tapping	Functional descript

MX-60X Magnetic



- Split type machine body, in order to ensure sealing, there have a sealing groove design between body and cover.
- The control panel is designed with the combination of mechanical ship switch and micro film switch.
- Rigidity Design of DX-120 Magnetic drill machine:
 - 2500W high-power motor to meet high-feed drilling condition.
 - 20000N magnetic base suction, higher than most same model in the market.
 - High tooth ratio gear transmission design, spindle output torque up to 170Nm.
 - Adopt MT4 main shaft, can bear more torque.
- Double dovetail design, economic and practical.
- Elastic adjustment function of guide rail, make the force more uniform on cutting tool when drilling.
- Gear box cooling pipe perforation design, to meet customer requirements for different arbor, different habits of use.
- The enclosed and guided structure of air outlet to reduce lateral air flow at front operating position and handle.

MX-120 Magnetic Drill

Model	MX-120
Motor rated power	2500W
Load speed	80/125/175/300rpm
Tool holder	MT4
Magnetic adhesion	20000N
The max. cutting dia. (annular cutter)	Ø120mm (4-3/4")
The max. cutting depth (annular cutter)	100mm (4")
The max. cutting dia. (twist drill)	Ø42mm (1-11/16")
The min cutter depth	15mm
Stroke	220mm
Motor can adjust the height to	60mm
The whole machine size	440mm×250mm×580mm
Magnetic base size	280mm×115mm×56.5mm
Total weight	36.5kg
Countersunk drilling	10-80mm



- Double dovetail design, Adjustable spindle height can adapt to working conditions and drills.
 - Two speeds gear box with step-less speed control bring wider range of drilling.
 - Reversible with step-less speed function, applicable to the maximum size of M16 tap.
 - Motor soft start: reduce the impact on motor start and prolong the service life of the motor.
 - Rigidity design of Machine:
 - 1500W high power motor can meet high efficiency drilling.
 - 15000N big suction magnetic base, better than most same types in the market.
 - High rigidity spindle structure design makes drilling stable.
 - With motor overcurrent protection function.
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- ⚠

1) The gear box mechanical gear is preferred for speed change when drilling.
 - 2) The stepless speed regulation cannot be too low when drilling, otherwise it will affect the normal output of the motor.
 - 3) Special tapping arbor with torque protection is recommended for tapping ope

MX-60X Magnetic Drill with Tapping

Model	MX-60X
Motor rated power	1500W
Load speed	250/450rpm
Speed range	65%-100%
Tool holder	MT3
Voltage	AC 220~240V
Power frequency	50-60Hz
Magnetic adhesion	15000N
The max. cutting dia. (HSS annular cutter)	Ø50mm (2")
The max. cutting dia. (TCT annular cutter)	Ø60mm (2-3/8")
The max. cutting depth (annular cutter)	75mm (3")
The max. cutting dia. (twist drill)	Ø31.5mm (1-1/4")
The max. tapping size	M22
Stroke	170mm
The whole machine size	375mm×230mm×450mm
Magnetic base size	210mm×100mm×45mm
Total weight	19kg

MX-120X Magnetic Drill with Tapping Functional description



- ① Double dovetail design, Adjustable spindle height can adapt to working conditions and drills.
 - ② Four speeds gear box with step-less speed control bring wider range of drilling.
 - ③ Reversible with step-less speed function, applicable to the maximum size of M33 tap.
 - ④ Motor soft start: reduce the impact on motor start and prolong the service life of the motor.
 - ⑤ Rigidity design of Machine:
 - 1) 2500W high power motor can meet high efficiency drilling.
 - 2) 20000N big suction magnetic base, better than most same types in the market.
 - 3) Large gear ratio design, spindle output torque up to 170Nm.
 - 4) Using MT4 spindle, can withstand more torque.
 - ⑥ With motor overcurrent protection function.
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- ⚠ 1) The gear box mechanical gear is preferred for speed change when drilling.
 - 2) The stepless speed regulation can not be too low when drilling, otherwise it will affect the normal output of the motor.
 - 3) Special tapping arbor with torque protection is recommended for tapping operation.

MX-120X Magnetic Drill with Tapping

Model	MX-120X
Motor rated power	2500W
Load speed	80/125/175/300rpm
Speed range	65%-100%
Tool holder	MT4
Voltage	AC 220~240V
Power frequency	50~60Hz
Magnetic adhesion	20000N
The max. cutting dia. (annular cutter)	Ø120mm (4-3/4")
The max. cutting depth (annular cutter)	100mm (4")
The max. cutting dia. (twist drill)	Ø42mm / 1-11/16"
The max. tapping size	M33
Stroke	220mm
The whole machine size	440mm×250mm×580mm
Magnetic base size	280mm×115mm×56.5mm
Total weight	36.5kg

MB-35 Magnetic Drill Functional description



- ① Automatic internal cooling system and integral design, makes the spindle with good drilling rigidity and more beautiful appearance.
- ② Integral machine body design to ensure the overall rigidity and improve drilling accuracy.
- ③ Two-way sliding rails, which make the motor height can be adjustable, Widened slide width makes drilling rigidity better.
- ④ Design of internal self-lubricating function ensure longer life of gear.
- ⑤ Special process of hard wear-resisting, makes the wear-resisting performance increased.
- ⑥ Tilt protection design for motor air inlet avoids liquid or debris falling.
- ⑦ High quality morgan carbon brush bring long continuous running time.

MB-35 Magnetic Drill

Model	MB-35
Motor rated power	1100W
Load speed	450rpm
Tool holder	19.05mm (3/4")
Voltage	AC 220V-240V
Power frequency	50-60Hz
Magnetic adhesion	10000N
The max. cutting dia. (annular cutter)	Ø35mm (1-3/8")
The max. cutting depth (annular cutter)	50mm (2")
The max. cutting dia. (twist drill)	Ø13mm (1/2")
The min cutter depth	10mm
Stroke	140mm
Magnetic base size	167mm×84mm×44mm
The whole machine size	400mm×340mm×180mm
Total weight	12.5kg

MB-60X Magnetic Drill with Tapping

Functional description



- Two speeds gear box with stepless speed control bring wider range of drilling.
- It can meet fast feed drilling conditions due to ntegral machine body, big suction magnetic seat, high power motor and the rigid design.
- Extended handle to increase torque transfer.
- With motor overcurrent protection function.
- With sliding plate lock function.
- Guide rail elastic adjustment function makes force more uniform during drilling.
- Morse taper shank connection can match more products.
- Tilt protection design for motor air inlet avoids liquid or debris falling.
- Closed and guided structure of air outlet makes the front operating position and the handle side air volume reduced.
- High quality Morgan carbon brush bring long continuous running time.
- The control panel adopts mechanical switch and knob, which is stable and reliable with high safety.

MB-60X Magnetic Drill with Tapping

Model	MB-60X
Motor rated power	1500W
Load speed	250/450rpm
Speed range	50%-100%
Tool holder	MT3
Voltage	AC 220V-240V
Power frequency	50-60Hz
Magnetic adhesion	15000N
The max. cutting dia. (HSS annular cutter)	Ø50mm (2")
The max. cutting dia. (TCT annular cutter)	Ø60mm (2-3/8")
The max. cutting depth (annular cutter)	75mm (3")
The max. cutting dia. (twist drill)	Ø31.5mm (1-1/4")
The max. tapping size	M22
The min cutter depth	10mm
Stroke	140mm
Magnetic base size	198mm×100mm×45mm
The whole machine size	480mm×390mm×195mm
Total weight	19.5kg

MB-120X Magnetic Drill with Tapping

Functional description










- Four speeds gear box with stepless speed control bring wider range of drilling.
- It can meet fast feed drilling conditions due to ntegral machine body, big suction magnetic seat, high power motor and the rigid design.
- Extended handle to increase torque transfer.
- With motor overcurrent protection function.
- With sliding plate lock function.
- Guide rail elastic adjustment function makes force more uniform during drilling.
- Morse taper shank connection can match more products.
- Gear box cooling pipe perforation design,to meet customer requirements for different arbor,different habits of use.
- High quality morgan carbon brush bring long continuous running time.
- The control panel adopts mechanical switch and knob, which is stable and reliable with high safety.

MB-120X Magnetic Drill with Tapping

Model	MB-120X
Motor rated power	2500W
Load speed	80/125/175/300rpm
Speed range	65%-100%
Tool holder	MT4
Voltage	AC 220V-240V
Power frequency	50-60Hz
Magnetic adhesion	20000N
The max. cutting dia. (annular cutter)	Ø120mm (4-3/4")
The max. cutting depth (annular cutter)	100mm (4")
The max. cutting dia. (twist drill)	Ø42mm (1-11/16")
The max. tapping size	M33
The min cutter depth	15mm
Stroke	245mm
Magnetic base size	115mm×260mm×56.5mm
The whole machine size	600mm×500mm×255mm
Total weight	34.5kg

Optional annular cutter and accessories

	TCT annular cutter with Weldon shank Cutting diameter: 12-50mm Cutting depth: 35mm, 50mm, 75mm	Welding TCT annular cutter, supporting cutting tools for drilling
	TCT annular cutter with universal shank Cutting diameter: 12-50mm Cutting depth: 35mm, 50mm, 75mm	
	HSS annular cutter with Weldon shank Cutting diameter: 12-50mm Cutting depth: 25mm, 35mm, 50mm, 75mm	HSS annular cutter, supporting cutting tools for drilling
	HSS annular cutter with universal shank Cutting diameter: 12-50mm Cutting depth: 25mm, 35mm, 50mm, 75mm	
	HSS countersink Size: Ø25, Ø30, Ø35	The cutting tool for the chamfering process
	Twist drill Cutting diameter: ≤42mm (1-1 1/16")	Round hole machining tool
	Arbor Type: DJXY-50D-MT3, DJPY-50X-MT3, DJXY-75X-MT3 Part No.: 198103146, 198103001, 198103007	Fixed on the main shaft, used to install the cutter for drilling operation
	Pilot pin Size: 6.34×77, 6.34×90, 6.34×106 ... Size: 7.98×90, 7.98×108 ...	The accessory of annular cutter, used for drilling the top out of the core
	Adapter Type: DZFX, DZCX, DZLX, DZCL, DZCU, DZXL, DZ XU DZXZ, DZCZ, DZ FZ, DZMZ	Switch to different shank, in order to implement different shank to install on the drill machine
	Extension adapter Type: DZXX, DZXP, DZPP	The accessories for using to extend tool to spindle distance
	Chuck Size: B16 1.5-13mm, B16 1-16mm, B18 1-16mm	The accessory of adapter
	Accessory: Pipe holder Single/double chain pipe holder: 80-300/300-1000 Single/double belt type pipe holder: 80-300/300-1000	Fixed to the round tube, provide the adsorption plane for the drill operation
	Magnetic sticker Part No.: 249611570	The tool for removing detritus through magnetism
	Hook Part No.: 2601029	To remove Scrap iron when drilling
	Tap	Tool for internal threads process
	Morse taper shank tapping clamp	It is fixed on the spindle and used for install tapping holder for tapping operation
	Tap holder	Install the tap and connect to the tapping clamp for tapping operation

DR-35 Electric Rail Drilling Machine Functional description



- ① Lightweight design of guide rail and slide plate, surface hardening treatment.
- ② Adjustable motor head, suitable for different height.
- ③ High power motor, using 36 pieces of commutator, more stable operation.
- ④ Handle: ergonomic handle, comfortable use.
- ⑤ Gear transmission system: Use high precision gear hobbing processing equipment, 7 precision gear with low noise and longer life.
- ⑥ Professional design of the blade, large air volume, to protect the motor from heating.
- ⑦ Waterproof electromagnetic switch, with power failure and under-voltage protection functions.
- ⑧ Gearbox and fuselage adopt high rigidity mechanical design, drilling stability without vibration.
- ⑨ Makes drilling light and flexible.

DR-35 Electric Rail Drilling Machine

Model	DR-35
Type	Electric rail drilling machine
Power	1100W
Dia of Core drill	≤ Ø30mm
Dia of solid rail drill	≤ Ø10mm
Cutting depth	≤ 20mm
Tool Holder	Weldon shank 19.05mm 3/4"
Stroke	118mm
Shaft idle speed	680rpm
Rated load speed	450rpm
Coolant system	Internal cooling
Cooling type	Hand pressure pot
Overall size	305mm×199mm×480mm
Weight	13.5kg

NZG-31 Internal Combustion Drilling Machine Functional description



- 1 This drilling machine is special drilling equipment for railway. Accurate positioning, fast drilling, simple operation, easy to carry, safe to use, it is the necessary tools for railway maintenance and emergency repair operations.
- 2 Scope of application: 43-75kg/m rail and various special-shaped rail.
- 3 Power: imported single cylinder gasoline engine, quick start, stable work.
- 4 Drill bit: Multiple-cutting-edge HSS cobalt core drill, with short drilling time, high precision, and long service life.
- 5 Bit Cooling: Pneumatic coolant tank effectively lubricates and cools the bit, extending the bit life.
- 6 Drilling positioning: a variety of special positioning plates can ensure that the drilling position and hole saw meet the railway standards.

NZG-31 Internal Combustion Drilling Machine

Model	NZG-31
Gasoline engine rated power	1.2kw
Drilling capacity	31±0.5mm
No-load speed	275r/min
Positioning deviation	≤ 1mm
Drilling time	Time for drill through≤ 40s
Service life	New cutter can make 40-50 holes, Under normal wear and tear, Each drill bit can be repaired and grinded more than ten times
Fuel tank capacity	0.8L
Net weight	22kg
Overall size	640mm×380mm×365mm

Magnetic Drill Application





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