Magnet Laboratories INC.

In-line standard magnetization & surface magnetic detection equipment for motor rotors

Application

New energy passenger car motor rotor magnetization and surface magnetic detection equipment

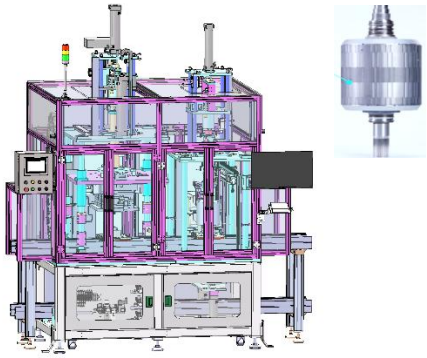
This equipment is suitable for magnetizing and surface magnetic detection (surface magnetic flux density) of motor rotors of new energy passenger vehicles of various sizes .

The overall post-magnetization method is adopted, which is safe and efficient, and the magnetic flux detection coil can be embedded in the magnetization coil.

System composition

Including magnetizing equipment, magnetizing power supply, magnetizing coil, chiller, flux meter (optional), surface magnetic detection software, Gauss meter

Features

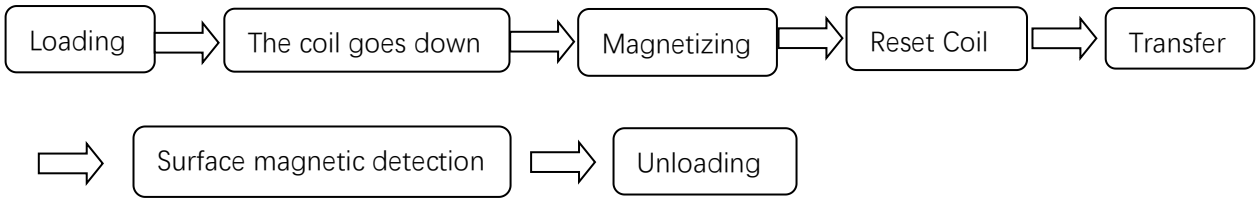


1. Wide range of rotor compatibility
2. Simple operation, high automation length, and anti-misoperation function
3. Surface magnetic detection software processes and analyzes data, and the detection data can be uploaded
4. It can detect whether the magnetization is saturated, whether the magnet is missing, and whether the polarity is correct.
5. Convenient model change + model change trolley (optional)
6. The assembly line passes through the equipment, and the assembly line pallet incoming material method
7. The magnetization detection coil can be raised or lowered to communicate with the magnetization power supply, and the device status can be monitored in real time.
8. Can embed magnetic flux detection, magnetization + magnetic flux integrated into one

Technical Parameters

project	Technical Parameters	Remark
Input Power	AC220V±5% 50/60Hz	
Input Current	＜20A	
Rated Power	＜5KW	
Equipment noise	≤75dB	Except for the moment of magnetization
Device size	Length, width and height: 1800*1300*3000mm	Including electrical cabinet
Equipment weight	≤2000kg	
Changeover time	≤30min	Tooling + coil

Usage Environment

1	Ambient temperature: 0℃～40℃;
2	Ambient humidity < 80% (no condensation);
3	Plant height (column top height): 3.5m;
4	Ground load: >2 tons/㎡;
5	Factory equipment transportation door size: width 1500 × height 2500mm;
6	Gas source: air pressure 0.4～0.6Mpa, flow rate 0.3m ^{3} /min;
7	No dust, no oil smoke, no salt, no dripping water;
8	Avoid direct sunlight;
9	No flammable, corrosive liquids and gases;
10	No shock and high-frequency vibration;
11	Use location: Open workshop environment.

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