



**HIGH-SPEED VERTICAL GRINDING MACHINE
(WITH FREQUENCY CONVERTER)
(MS3040-BP)**

Service Instructions



**Please read the instructions carefully
before using.**

南京固華機電科技有限公司

NANJING GUHUA ELECTROMECHANICAL TECHNOLOGY CO., LTD.



Management System Certification

**QUALITY MANAGEMENT SYSTEM
CERTIFICATION CERTIFICATE**

**NANJING GUHUA ELECTROMECHANICAL
TECHNOLOGY CO., LTD.**

No.16, Chenlv Road, Xiongzhou Industrial Park, Luhe District,
Nanjing, P.R.China Zip Code.211500

**The Quality Management System Conforms to the Standard
ISO9001:2015**

Certified Scope:

Manufacture Of Grinding Tools & Equipments

Unified Social Credit Code: 91320116MA1NKDQ18G

Registration No.: UQ172020R001

Issuing Date: 25 Dec 2017

Expiration Date: 24 Dec 2020



Chen
Issued By: _____



0277



The certified organization should accept regular surveillance, if the surveillance are qualified, the certificate will sustain effective

Address: 17/F, Building 3 (Triumph Centre), 170 Beiyuan Road, Chaoyang Dist., Beijing P.R.China Postcode: 100101 Tel: 010-84850008 Web Site: www.uico-web.com

This certification information can be queried on the CNCA official website (www.cnca.gov.cn)



CAUTIONS !

This equipment is limited to the use of the special grinding wheel for Guhua High-Speed Grinding Machine.

Linear Velocity: 80m/s.



Dear Client:

Thank you for purchasing and using Guhua brand high-speed grinding machine. In order to ensure your safety and its proper use and maintenance of this equipment, please carefully read the following instructions before using:

1. Overview

Guhua brand high-speed grinding machine is specially researched and produced grinding equipment which aims at the characteristics of foundry industry and the problems exists in the traditional grinding process. There are five advantages such as better cost performance, higher processing efficiency, longer service life, safety and environmental protection on this equipment.

2. Operational Principle

Please see details in *Electrical Schematic Diagram*.

3. Main Parameters

Model: MS3040-BP

Rated Power: 7.5KW

Rated Voltage: 440V

Rated Current: 12.6A

Frequency: 50HZ

Rated Speed: 3820r/min

Linear Velocity: 80m/s

4. Structure Characteristic

- 1) This equipment adopts motor and pulley to drive the grinding wheel. It is composed of its-drive type structure and turns according to prescribed speed of rotation.
- 2) One-button start function.
- 3) The motor is controlled by a frequency converter and the starting current is stable. The frequency converter automatically protects the motor from overload.
- 4) The parameters of the frequency converter have been set according to the process requirements (The specification of its grinding wheel is GHML-400*40*77; Linear velocity: 80m/s) before the equipment leaves the factory, and there is no need to adjust it again. If there is a need to change the specification of the grinding wheel and the linear velocity, the parameters of the frequency converter need to be readjusted. Please call customer service or contact the sales staff.
- 5) This equipment has set safety shield for grinding wheel and owns anti-shedding protection function.
- 6) This equipment adopts sealed high-speed and high-temperature resistance bearing, it is not necessary to add lubricant.

5. Installation

The anchor bolts delivered with this equipment should be tightly connected to the bottom of tank, and the depth of foundation should be determined by the occupying strength and freezing depth of the local soil.

6. Operation And Precautions

- 1) Before use, the equipment must be carefully checked that each fastening piece is tight or not and whether there is stuck phenomenon or not. After installation, it should be carried out for 30 minutes of no-load operation, then stop to check the situation of all parts. The equipment can be put into use under no adverse conditions.
- 2) The axial rotation direction of motor and grinding machine must be adjusted according to prescribed rotation direction.
- 3) When replacing the grinding wheel, please use the special grinding wheel which is applied to Guhua brand high-speed grinding machine and strictly do the no-load operation test.
- 4) It is forbidden to impact the grinding wheel with workpieces and it must be exerted pressure gradually.
- 5) Operators should wear dust-proof glasses while grinding.
- 6) While the grinding machine is operating, non-operator is strictly prohibited approaching.
- 7) It is strictly forbidden to remove the safety protective cover to use this equipment.
- 8) During operation, if abnormal phenomena and faults are found, immediately stop the machine and check, remove the faults in time. If a non-normal phenomenon occurs, please contact with us or arrange for professionals to repair.
- 9) The tank must be reliably grounded before use.

7. Maintenance

- 1) The special grinding wheel which is applied to Guhua brand high-speed grinding machine must be kept dry and ventilated, and prevent corrosive substances from contamination.
- 2) Abrasive debris and dust in the protective cover of grinding machine should be cleaned regularly and kept clean.
- 3) If abnormal sound, vibration, overheating or other anomalies occur on the bearing parts while working, please stop and check instantly. If the bearing becomes invalid, please replace the bearing with same brand and specification. If there is any problem on installation, please contact with us promptly. After replacing the bearing, this equipment must be carried out with no-load running test.

Appendix: Electrical Schematic Diagram- MS3040-BP High-speed Vertical Grinding Machine.

		Main Circuit	Indication	Stop	Start							
A												
B												
C												
D												
E	7	U1	Converter	ATV310HD11N4A	1	Schneider					<p>NANJING GUHUA ELECTROMECHANICAL TECHNOLOGY CO., LTD.</p> <p>Electrical Schematic Diagram</p> <p>Model: MS3040-BP</p> <p>DWG No.: GHMS-01</p>	
	6	H1	Running Indicator Light	LAY5SZSM3	1	φ22 Green	8					
	5	H2	Power Indicator Light	LAY5SZSM5	1	φ22 Yellow	7					
	4	H3	Stop Indicator Light	LAY5SZSM4	1	φ22 Red	6					
	3	SB1	Start Button	LAY5SBA31	1	φ22 Green	5					
	2	SB2	Stop Button	LAY5SBS45	1	φ22 Emergency Stop	4					
F	1	QF1	Breaker	DE47LE-63 C60	1	Leakage protector	3					
	No. Code	Name	Specification	Qu'ty	Remark							
	1	2	3	4	5	6	7	8	9	10	11	12



C E R T I F I C A T E

ATTESTATION CERTIFICATE OF MACHINERY AND LOW VOLTAGE DIRECTIVES

Technical file of the company mentioned below has been observed and audit has been completed successfully. 2006/42/EC Machinery Directive and 2014/ 35/EU Low Voltage Directive have been taken as references for these processes

Company Name : Nanjing Guhua Electromechanical Technology Co., Ltd.

Company Address : No.16 Chenlv Road,Xiongzhou Industrial Park,Luhe District,
Nanjing,P.R.China

Related Directives and Annex : Low Voltage Directive 2014/35/EU
Machinery Directive 2006/42/EC

Related Standards : EN ISO 12100:2010;EN 60204-1:2006

Product Name : High-Speed Vertical Grinding Machine

Report No and Date : KOSE2018012561;23.01.2018

Product Brand/Model/Type : MS3040

Certificate Number : M.2018.201.N3517

Initial Assessment Date : 29.01.2018

Registration Date : 30.01.2018

Reissue Date/No : -

Expiry Date : 29.01.2023

UDEM International Certification
Auditing Training Centre Industry
and Trade Inc. Co.

The validity of the certificate can be checked through www.udem.com.tr. The CE mark shown on the right can only be used under the responsibility of the manufacturer with the completion of EC Declaration of Conformity for all the relevant Directives. This certificate remains the property of UDEM International Certification Auditing Training Centre Industry and Trade Inc. Co. to whom it must be returned upon request. The above named firm must keep a copy of this certificate for 15 years from the registration of certificate. This certificate only covers the product(s) stated above and UDEM must be noticed in case of any changes on the product(s)

Address: Mutlukent Mahallesi 2073 Sokak (Eski 93 Sokak) No:10 Çankaya - Ankara - TURKEY

Phone: +90 0312 443 03 90 Fax: +90 0312 443 03 76

E-mail: info@udemltd.com.tr www.udem.com.tr





**NANJING GUHUA ELECTROMECHANICAL
TECHNOLOGY CO., LTD.**

ADDRESS: NO.16 CHENLV ROAD, XIONGZHOU
INDUSTRIAL PARK, LUHE DISTRICT, NANJING,
P.R.CHINA

TEL: +86 25 57501609

FAX: +86 25 57505738

EMAIL: charlie.chen@njguhua.com

katrina.cui@njguhua.com

WEBSITE: <http://en.njguhua-et.com/>

