

ANGLE GRINDER

HANDLING INSTRUCTIONS



I .INSTRUCTION AND USES

This series of angle grinders are hand-held double insulated tools which are driven by an universal electric motor. Their speed is reduced by a pair of spiral bevel gears. The working tool is a reinforced resin bond grinding wheels, the safety peripheral speed of which is 80m/sec.

These angle grinders are widely used for removing burrs or fins from metal parts, for bevelling and finishing weld seams—and for cutting thin wall tubes and small size metal materials in the fields of machine-building, vehicle manufacturing, chemical engineering, civil engineering, metallurgical and oil industries, etc. They are particularly useful for workpieces of bulky size and complical engineering, configuration, not allowing the use of an ordinary bench grinder. When fitted with an appropriate wheels, they can be used for rust removing, sanding and polishing the surface of metal and similar function on other materials.

The wheel fitted for these angle grinders are as follows;

1. Rough grinding disc
2. Fine grinding disc
3. Cutting disc
4. Wire brush
5. Flannel polishing disc, cheesecloth polishing disc
6. Rubber disc

Leaving the factory, the tool are only attached with the rough grinding disc. Other wheels must be specially ordered if needed.

The technical specifications are as appendix list 1

II.SAFETY REGULATIONS

1. The environment suited for the tools is as follows:

- (1) Not high than 1000m. Above sea level.
- (2) The environment temperature is from-15℃ to +40℃.
- (3) The relative humidity at the temperature 25℃ should not be over 90%.

2. Before operation, the tool should be checked. See whether the housing is cracked or broken, whether the wheel guard is tightly fastened and plug cord is in good order. Then turn on the switch and let the motor run idly for several minutes to make sure whether the tool can turn freely and properly.

3. The tool should be thoroughly checked every season. In addition to what have been said above the insulation resistance should be measured and it must not be less than 7 megohms. More attention should be paid during the rain season. If the tool laid aside for a long time without operating, its insulation resistance should be measured again and the motor should be dried if the resistance is less than 7 megohms.

4. Before operation of this tool, inspect the voltage or power supply, see if it conforms to the rated value. The switch should be in "OFF" position before the plug is inlet into the socket. When power supply is cut off temporarily, the plug should be pulled out of the socket so as to avoid the tool turning unexpectedly.

5. In using, the grinding wheel should avoid violent shocking so as to prevent it from cracking. The tool should be tilted 15° ~30° to the working surface in order to obtain better efficiency. When the tool is operated with a cutting disc, it is not allowed to swing the tool.

6. When moving the tool, the user should hold the housing or its handle and never drag the tool by the cord.

7. The cord and the plug or the tool are double insulated. Never replace them with ordinary cord or plug nor enlarge the cord.

It should be protected from stabbing and breaking by sharp fins.

8. The tool should be kept in an environment where the air is dry, clean and free from corrosive gases. The housing of the tool is made of polycarbonate. Do not clean it with organic solvent which is harmful to such material.

9. Non-skilled repairing worker is forbidden to disassemble and repair the machine.

III.MAINTENANCE

1. The brushes should be checked periodically and worn out brushes should be replaced on time. The specification of brushes is as appendix list 2. After replacing, inspect whether the new brushes can move freely into the brush holder. See the armature turn freely and properly, then let the motor run idly for 15 minutes to match the contact of the brushes and commutator.

2. Keep the vent passage clean from dirt, clean off the accumulated dust and oil dirt, clean off the accumulated dust and oil dirt periodically.

3. During normal operation, if anything improper happens as following the power supply should be cut off at once and the machine should be checked and repaired:

(1)The armature gets stuck and the speed drops abnormally or the motor stops running Suddenly.

(2)The tool shakes abnormally, there are some abnormal noise and odour or the motor turns too hot.

(3)Heavy sparks occur(>2 Grade,GB755-8) or ring sparks occur.

IV.ACCESSORIES SUPPLIED WITH THE TOOL

- 1.Special spanner 1 piece