



T A B L E T P R E S S E S

GR GRANULATOR SERIES USER MANUAL

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LFA Machines Oxford LTD

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CAUTION.

Please read these operating instructions carefully before installation, starting up and repair. Inappropriate operation not recommended in the instructions may damage the machine or cause personal injury.

Introduction

The GR Series of oscillating granulators includes the GR60, GR90, GR100 and GR160. All are highly efficient granulator machines that turn powders into granules for tablet making or related activities. They can also be used for breaking down agglomerates into granules.

These granulators use the oscillating action of metal rollers against a metal mesh to produce a homogeneous product of the highest quality. All the granulating machines in the range are engineered to meet GMP standards, and are simple to operate and maintain. Having stainless steel bodies, they are also easy to clean and extremely hygienic, as well as being durable, and will give many years of trouble free use.

The GR Series oscillating granulators are popular choices for companies in the pharmaceutical, chemical, food and ceramics industries. Suitable for both wet and dry granulation, they are however not suitable for large blocks of solid materials, liquids, pastes or pulverizing.

Although these granulators are simple to use and maintain, please read these instructions carefully before using your granulating machine.

Technical Specifications

Model	GR60	GR90	GR100	GR160
Diam. of rotor(mm)	60	90	100	160
Capacity (kg/h)	20-30	50-100	30-200	200-300
Rotation angle	360°	360°	360°	360°
Rotation speed	46	50	55	55
Motor power(kw)	0.25	0.55	1.1	2.2
Weight (kg)	55	150	280	330
Overall size(mm)	460x550x570	750x460x840	700x400x1050	970x560x1240

Installation

The GR series granulators are delivered packed in stout wooden cases, and simply need to be unpacked and placed in a suitable location that is flat and stable. All the granulators in the range are freestanding, gaining stability from their weight and cuboid structure.

Ensure that the granulator is installed in a clean, dry environment that is well lit, and with a suitable electrical supply. The atmosphere must not be subject to acids or corrosive gases, as these will damage the machine.

Operation

To use the granulator simply pour the raw materials into the hopper and press the Start button. Let the granulator run until all the raw materials have passed through the mesh into the lift off tray.

NOTE If using the granulator to crush small lumps of material, avoid adding too much in one go as this may result in damage to the mesh or excessive pressure.

Do not use the granulator to crush large pieces of solid material.

CAUTION If the raw materials become clogged, to avoid injuring your hands do not insert them into a working machine. Stop the machine before freeing any blockage.

NOTE There is a ratchet in the hand wheel to adjust the tightness of the sieve tube.

Lubrication

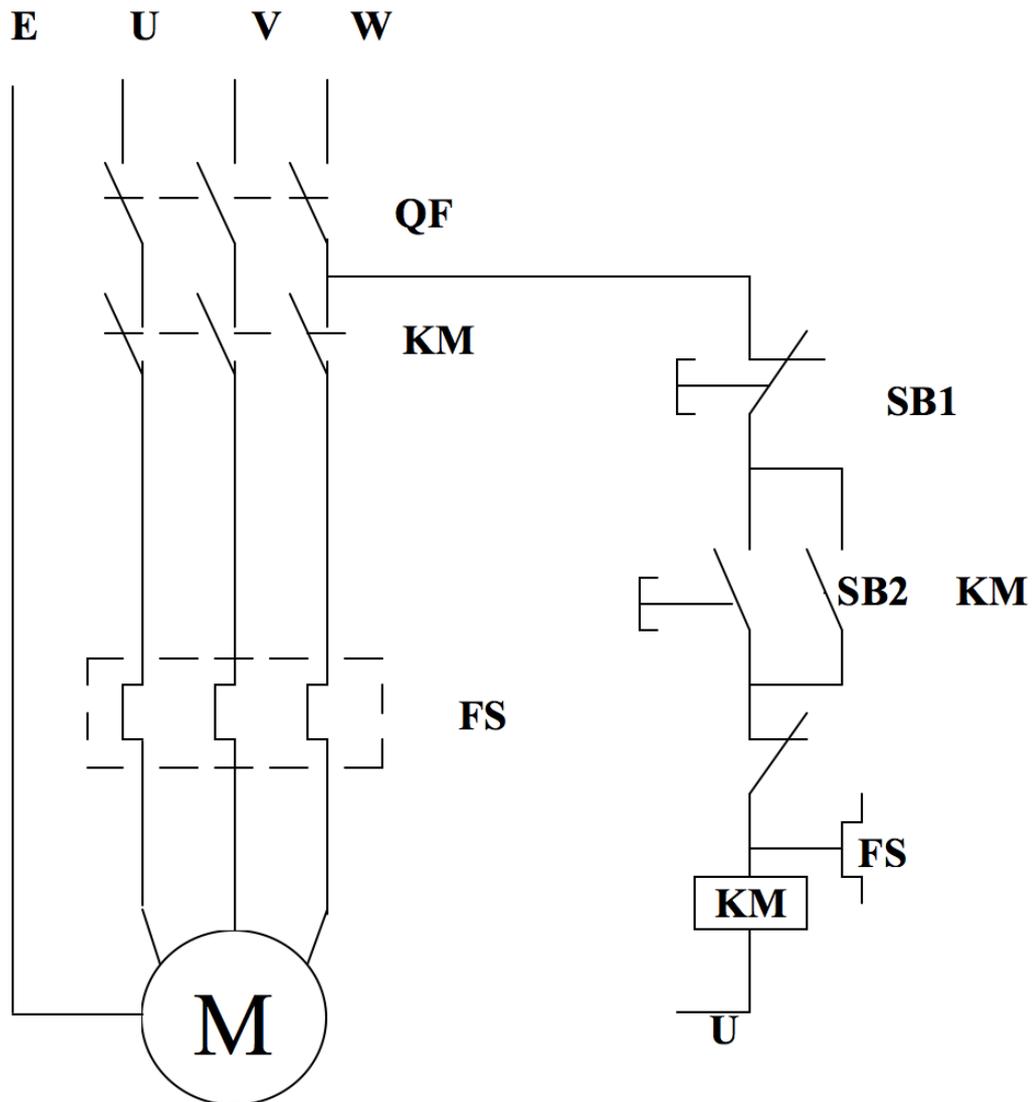
NOTE Regular lubrication is essential to the long term running of the machine.

The reducer box acts as a reservoir for oil that the worm distributes through the transmission. There is a plug in the rear of the box for changing the oil.

After opening the cover, add oil to the middle and back bearing, and apply grease to the seat of the bearing. The following schedule should be followed:

Number	Lubrication parts	How often	Type of lubricants
1	Front bearing	Every shift	HJ-30 Lubricating oil
2	Middle and back bearing	Every three months	ZG-2 Grease
3	Reducer box bearing	Every three months	HJ-30 Lubricating oil

Electrical Scheme



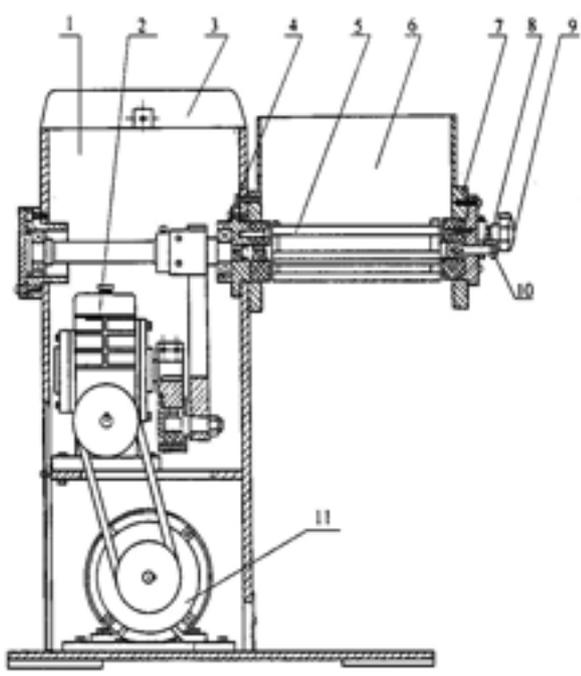
Maintenance

Inspect all parts of the machine once or twice every month. In particular, check the condition and free movement of the worm, bearing, and other moving parts. Any damaged or worn parts must be replaced immediately, before using the machine.

After using the granulator, remove the roller barrel for cleaning. Brush away all remaining powder, then restore the parts ready for the next use.

If the granulator is not going to be used for a long period of time, wipe and clean all surfaces, and coat with anti-rust oil, then cover with cloth.

Parts Diagram



1. Fuselage
2. Reducer Box
3. Cover
4. Middle Bearing Caps
5. Roller
6. Hopper
7. Front Bearing
8. Ratchet Pawl
9. Hand wheel
10. Knurling screw
11. Motor