

Manuel - GZ-20A Overhead constant speed

מק"ט 05921020

Instruction Manuel for normal operation

The control knob is preset at the highest (scale 10) at factory workshop to protect the drive system during transportation and handing. Therefore check the setting of the control knob first. Ensure that the speed setting is suitable for the medium to be stirred. If in doubt turn the knob to the lowest speed (scale1).

After the machine has not been used for some time, a knocking noise will be heard When it is switched on again. This is due to the pre-stress on the friction lining of the friction wheel. It has no detrimental effect on the function of the machine. The knocking noise will disappear after a short running period.

The chuck and off-drive start can clamp and allow stirring elements with a shaft diameter of up to 10mm. The opening at the top of the upper housing allows stirring element shaft to be pushed up above the top edge of the upper housing so that containers can be changed easily.

The machine can be infinitely adjusted via a friction wheel drive system, but the motor runs at a fixed work point. The power output, speed and torque of the motor reach optimal values at this point and are kept almost as constant. The power is transmitted from the motor to the off-drive shaft through the friction wheel and the intermediate shaft equipped with a pair of plastic couplings. The two gear trains are combined on the same two shafts forming two speed ranges that can be manually changed from one to another.

Friction wheel wear is kept low by a pair of helical couplings on the intermediate shaft.. The couplings automatically adjust the down-pressure required at the friction wheel according to the load acting on the stirring shaft. A low load results in a low down-pressure; ahead load resulting in a high down-pressure.

When change the gear speed in an experiment, pay attention to the position of the stirring element and the size of the container, especially a glass one. If the stirring element can possibly damage the container during the process, loosen it from the chuck first. Then make the change.

Switch off the machine before changing the gear speed. Otherwise the gears in the reduction stage will be damaged.

There are two gear speed ranges. Range I for low speed and II for high speed (See the speed label on one side of the housing). The preset positing is Range II. When change from Range II to Range I, turn counter-clockwise the bearing bushing (the black knurled plastic rime over the chuck) until it stops. Pull it down 5.5mm and turn it clockwise until you hear the snap-in of the steel ball inside the bearing bushing .When change from Range I to II, turn counter- clockwise the bearing bushing until it stops. Push it up 5.5mm and turn it clockwise until you hear the similar sound.