

## Operating and use instructions PZ - Tooth Grinding

Dear Customer,

thank you for choosing our PZ tooth grinding.

We are always looking to improve our products and look forward to your review and suggestions.

### Warranty

PZ-tooth grinding are made from high quality stainless steel materials and controlled using the latest 5-axis CNC machine tools. We offer a one year warranty on every tooth grinding except wear parts such as bearings and gears.

Note: Opening the machine and the use of diamond grinding tools do not match the type of factory-supplied leads to the immediate loss of warranty.

### Maintenance and care

The diamond tool should be cleaned more often during treatment with a damp brush to get the grinding action. Tooth enamel clogs the grain of the disc and otherwise only causes frictional heat. (Fig. 1)

The PZ-tooth grinding machine is **not** to put into the water, or **not** to clean in the water!

Lubricate the machine after completion of the dental treatments at the day from using the grease and grease gun at the front grease nipple. Approx. 3-4 shocks are sufficient for this purpose.

**Only use** Lubri-film Grease. (Fig. 2)

Let the handpiece run briefly or turn the grinding attachment round a few times. This distributes the grease in the gear unit.

For wheel change you please turn the ring spring washer that you see about 3 inches below the grinding wheel, until as far as visible to a bore. Plug in the supplied wrench into this, so you can lock the transmission. Now turn with a needle nose pliers remove the abrasive counterclockwise (leftside). For fixing it is enough to turn fix the grinding wheel with your hand. (Fig. 3)



Fig1



Fig2

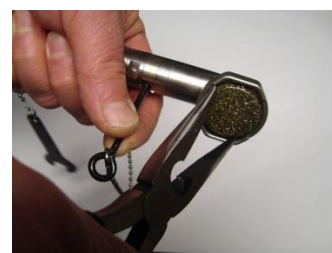


Fig3

PZ – IC300 are oiled with the supplied Ballistol Oil on the recording of the bur, and the drill-cutters. The small handpieces for the incisors should be cleaned regularly with spray oil (e.g. WD40; Ballistol).

### Exchange of the drive shaft or of the protective hose

Flexible drive shafts are exposed to very high centrifugal and frictional forces.

To keep it as low as possible it's best to ensure that the drive shaft hold as straight as possible.

If possible, avoid bends or kinks in the shaft!

Please ensure a large radius of the drive shaft with protective hose while working.

Radii that are too narrow cause friction, heat and damage to the shaft and outer shell.

Also chewing Horses are also often a reason for broken drive shafts, as they block the grinding for a short time and thus cause the shaft to wind up.

Please check the sedation and open the horse mouth speculum wide enough.

Before starting work, check the clip and the ball on the shaft-receiving side of the handpiece.

If necessary, the clip must be readjusted to ensure a secure hold of the drive shaft.

The drive shaft is attached to the motor with a screw on the flattened side of the locating pin. At the same time, it is possible to move the shaft on the mounting journal (Fig. 1).

The plastic adapter serves as protection against the rotating motor mounting spigot, as well as for fastening the protective hose.

The protective hose can be moved in the plastic adapter (Fig. 2) in order to adjust the dimension of the shaft. A special feature of the plastic adapter is its left-hand thread for fastening to the motor.

Furthermore, it has a protective function if the motor falls down: it protects the drive pin of the motor.

To ensure safe operation, the drive shaft must be adjusted correctly (as indicated in Figure 3).

If this measure should not be complied with, a secure connection between tooth grinding handpiece and drive shaft isn't given! This can lead to personal injury caused by the rotating drive shaft, it certainly destroys the inclusion in the machine and also the wave itself.

**It is essential to observe the correct setting of the drive shaft!**

The protective hose can be fixed to the handpiece with a screw (Fig. 4).

When removing, please loosen the screw again first!

When changing the flexible drive shaft, it must be greased at points over its entire length with (Lubri) grease before being threaded into the protective hose.



Fig1



Fig2



Fig3



Fig 4 Lock the protective hose on the handpiece using a screw

Shaft too short: setting on drive motor

Shaft is too long: adjustment of the protective hose on the plastic adapter.

**Always pay attention to your safety:**

- Wear a dust mask, protective goggles and a hair net during treatment!
- Do not use defective cables or plug connections
- Make sure that the customer has correct electrical fuse protection  
(Please refer to the details on electrical installation in stables and livestock facilities in your country).
- To prevent the motor from overheating, it should occasionally run at full speed to allow the fan to reach its cooling capacity.
- PZ handpieces are only approved for use with clockwise rotating motors

**ATTENTION: MOTOR AND FOOT SWITCH ARE SUBJECT TO THE ANNUAL TESTING REGULATION OF THE RESPECTIVE COUNTRY** (Germany IN ACCORDANCE WITH BGV A3)

We wish you much joy in your work with the PZ-grinding machines

Your Team PZ