

Replacement powder unit for AGA DTF XP Premium Combo printer

The original units from China (Aiifar, Sublistar and other brands) show several problems:

- 1) Hot melt powder is leaking from the bin even when the machine is not running.
- 2) The bearings used are an open type and mounted in such a way that hot melt glue enters the bearings, causing the bearings to malfunction.
- 3) The stepping motor is underpowered.
- 4) The gears are made of laser cut thin steel plate material and are not sturdy.

Typically, after only a few weeks of use the machine makes strange and disturbing noises and within a short time it stops working altogether.

The replacement unit has been redesigned to overcome the above-mentioned issues.

- 1) A brush system is used for powder dosing.
- 2) Proper ball bearings are used for the rotating shaft.
- 3) A high-quality stepper motor is used.
- 4) Instead of rickety gears, a rubber drive belt is used to transfer the power from the motor to the axle.

Picture 1: original unit on right hand side, redesigned unit on left hand side



Picture 2: original unit on left hand side, redesigned unit on right hand side



Picture 3: original unit on right hand side, redesigned unit on left hand side

