

*“Custom-made WATT shaft mounted geared motors for separators S 655 / S 855”*

In agricultural businesses with high animal concentration, the high quantity of liquid manure constitutes a huge problem. The situation is aggravated by additional statutory requirements. Through separation of this material with separators supplied by Austrian company Röhren-und Pumpenwerk BAUER Gesellschaft m.b.H., A-8570 Voitsberg, valuable fertilisers can be obtained from liquid manure. The engine used is a shaft mounted geared motor of type MAS in combination with a Watt Drive bearing box specifically designed for this purpose.

**Bauer Separator S 655 / S 855:** (see figure 2)

The fully-automated separation of liquid manure, i.e. the separation of liquid manure into a liquid and a solid phase, has decisive advantages.

The remaining thin liquid manure can be homogeneously applied at any time without costly technology (e.g. via pipe and hose systems).

The odourless solid phase can be stored problem-free and recycled as fertilisers or compost (see figure 1).



Fig. 1: Separator S 655 in operation



Fig. 2: Bauer Separator S 655 with WATT shaft mounted geared motor AVS 85A 114ML4 TH

**WATT shaft mounted geared motor AVS 85A 114ML4 TH with add-on bearing box:**

(see figure 3)

Due to separation, high axial thrusts are produced, which in combination with the aggressive medium, make high demands on gaskets and motor bearings.

The axial thrust absorption is taken over by a separate bearing box with reinforced bearing and caught before the gearbox, which allows the use of a standard shaft mounted geared motor from the WATT MAS range.

The geared motor **AVS 85A 114ML4 TH** is designed with a shrink disc hollow shaft and slipped over the shaft of the bearing box.

Occurring torques are supported with elastic ultra-bushings that are installed on the gearbox flange.

Because they are inserted into the bearing box, they can be easily dismantled in case of repair.

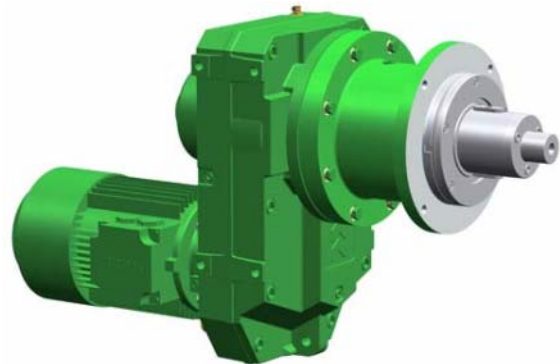


Fig. 3: WATT shaft mounted geared motor AVS 85A 114ML4 TH with add-on bearing box

**Technical data:**

Power:	5,5 kW
Output speed:	31 rpm
Voltage/Frequency/Connection:	400/690V, 50Hz, D/Y
Protection class/Isolation class:	IP55/F
Winding protection:	TH

**Locking off aggressive media:**

The bearing box is protected from aggressive media through a combination of grease-packed groove with cartridge sealing ring. An additionally applied grease blocking layer caters for increased operating safety.

All components coming into contact with the liquid manure are made in **high-alloy** stainless steel, material no. **1.4404** or **1.4571** to further prolong the operating life of the motor unit.

**Areas of application of separators:**

Besides agricultural enterprises, separators can also be used in the food industry, in slaughterhouses, as well as in biogas plants and distilleries.

Long bearing operating life and operating safety are the results of this customer-specific WATT special solution.

Further information related to Watt's production programme is available on our website [www.wattdrive.com](http://www.wattdrive.com).