

## Press Release PR-18

About a new flat brushless DC gear motor

Title Proposals:

**Flat gear motor disappears in the profile frame.**

**You don't see this drive for rollers and belt conveyors.**

**Why do you need a flat geared motor in conveyor systems?**

*The Swiss Avancon SA builds its own drive. Now that Avancon's production numbers are in the tens of thousands per year, it made sense to develop a better and more versatile motor. It is a very sophisticated motor with many advantages.*

*This flat, brushless DC geared motor can also be used in other units and auxiliary equipment, even though it was developed for installation in the profile frame of the Avancon conveyors.*

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Avancon's E500 brushless, flat DC gear motor is designed for fitting into the Avancon ZPC roller conveyor concept and the Avancon ZPC belt conveyor concept.

It can also be bought separately to release various other movements, for example for a stopper, a lift or into a strapping device or a label sticker and others.

It is so flat that it fits into the Avancon aluminum frame construction of the Avancon ZPC roller and ZPC belt conveyors and is not visible from the outside.

Its housing is made of aluminum, which ensures possible heat dissipation to the outside via the aluminum frame construction of the Avancon ZPC conveyor concept.



Image 01  
Motor aussen

The gearbox and gears inside, as well as the gearbox housing, are made of high-tech, reinforced and heat-resistant polymer materials, making the motor quiet.

The Avancon flat, brushless DC gearmotor motor E500 is a completely new development for which a worldwide patent has been filed. Avancon's CTO Dr. Daniele Gambetta, a specialist in electric motors, developed it. Avancon SA in Switzerland manufactures it itself.

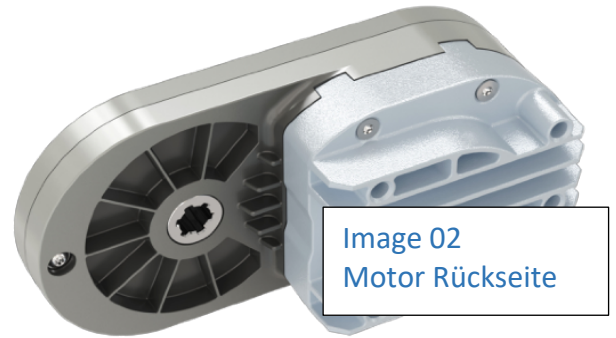


Image 02  
Motor Rückseite

This drive always uses a separate control unit that both controls the brushless operation and is connected to the ASi fieldbus at the same time.

Normally, the new motor does not get very warm. However, should the motor ever become warm beyond 60°C, this is immediately reported to the MCC, the Main Control Centre, and to a higher-level control unit.

It must then be checked quickly by a service employee. The gearbox and gears inside, as well as the gearbox housing, are made of high-tech, reinforced and heat-resistant polymer materials, making the motor quiet.

Often the reason for a temperature rise is not in the motor itself, but can be a problem with the bearings of the axle, or a toothed belt or a conveyor belt. A blockage of a goods being transported on the conveyor can also heat up the motor.

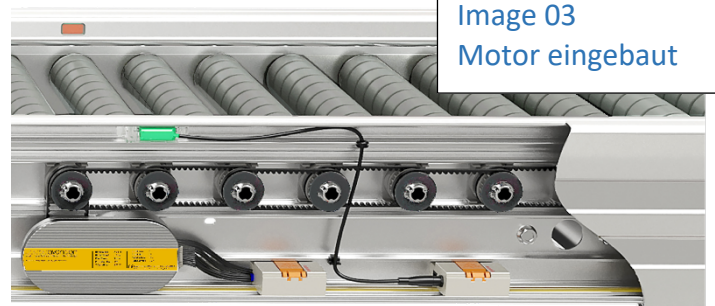


Image 03  
Motor eingebaut

Control boxes, cables, sensors, etc. can be installed in the Avancon ZPC conveyor system very easily - and without tools - by simply pressing them onto the ASi cables at any point. This is because they lie parallel in the pre-formed ribs of the aluminum profiles. Eventual maintenance is very easy and fast.

The new flat motor works reliably and fully automatically and autonomously in small as well as very large material handling systems.

Of course, the Asi controller can be connected to most higher-level bus or IT infrastructures via the Avancon MCC E400 (Main Control Center) for end-to-end communication. Often the reason for a temperature rise is not in the motor itself, but can be a problem with the bearings of the axle, or a toothed belt or a conveyor belt.

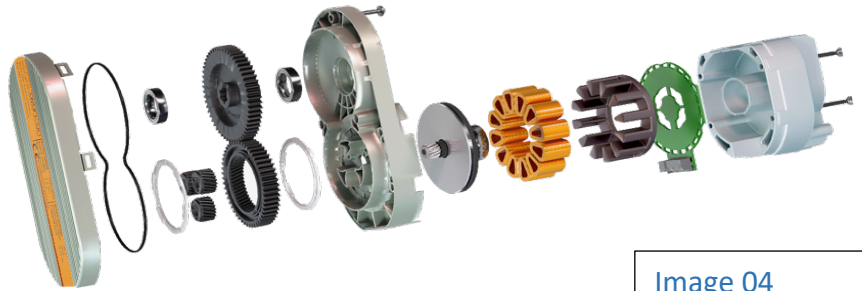


Image 04  
Motor Explosion

A blockage of a goods being transported on the conveyor can also heat up the motor.

Control boxes, cables, sensors, etc. can be installed in the Avancon ZPC conveyor system very easily - and without tools - by simply pressing them onto the ASI cables at any point. This is because they lie parallel in the pre-formed ribs of the aluminum profiles. Eventual maintenance is very easy and fast.

The new flat motor works reliably and fully automatically and autonomously in small as well as very large material handling systems.

Of course, the Asi controller can be connected to most higher-level bus or IT infrastructures via the Avancon MCC E400 (Main Control Center) for end-to-end communication.

From the outside, all Avancon conveyors are smooth and closed. All you ever see is the exceptionally streamlined design of the anodized aluminum frame of the fantastically engineered Avancon ZPC concept.

You can buy this Avancon E500 motor separately if you see other applications for it.

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## For the editors:

- You can download this report in PDF format as well as photos in 300 dpi for printing or for the internet as \*.jpg format in 72 dpi from our website at <http://www.avancon.ch/presse.html/> -> PR-18.
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- As you know, photos play an increasingly important role in social networks.
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- Further information and details as well as photos and videos can also be found on our website: <http://www.avancon.com>
- Without title, footnote and abstract, this report has 627 words and 3792 letters (including spaces).