

Heye dual motor shears: ingeniously simple and simply ingenious!

The serial number 777 of the dual motor shears is currently being assembled at Heye International and will be delivered in 2023. It is well known that SEVEN is a lucky number, but in this context 'three times seven' is not based on pure luck, but is related to good and solid engineering work.

One of the first dual motor shears from 1996 is still in operation today. After two overhauls in 2013 and 2019, the shears with the end number 23 are still doing their job to the full satisfaction of the customer Verallia France, inusine de Lagnieu.

The French glass manufacturer said: "Due to the good experiences in the past, the Heye dual motor shears have completely convinced us. The safe and low-maintenance operation in particular has turned out to be a complete success."

DMS No. 23 in use for 27 years

What made the Heye dual motor shears 2323 a role model in the container glass industry? The success of this development is essentially based on observing the requirements placed on such a mechanism:

- High, repeatable cutting speed with optimal cooling
- Stable control system
- Appropriate principle of operation
- Reliability and durability.

By using high-quality materials and standard parts from well-known manufacturers, Heye International guarantees a high and repetitive cutting. It is particularly important that the shear blades are arranged in such a way that the glass gobs are cut precisely and parallel. And that regardless of whether you drive Double Gob, Triple Gob or Quad Gob. An unwanted influence on the shape of the drop and the fall of the drop is thus avoided. In addition to the high cutting speed, which is essential for a clean cut, there is sufficient downtime of the knives for optimal cooling.

For the control of the dual motor shears, Heye relies the Simotion Servodrive technology from Siemens. The shear blades move on a circular arc. Thus, a nearly wear- and backlash-free suspension of the shear arms is realised. Preselectable movement profiles and a production speed of up to 250 cuts / minute complete the requirement profile.

When designing the double motor shears, the engineers at Heye paid particular attention to function. The function had to be fully fulfilled and the cutting process had to be carried out in a stable and repeatable manner. To do this, you chose the most suitable geometry.

This was designed to ensure low-wear operation of the mechanism and consequently a long service life. And all of this was fitted into the existing space to ensure good accessibility.

Of course, the concept had to include the people in the considerations. The system of the dual motor shear is also perfect because the user can easily understand the functional principle, the operating elements are easy to reach and their function can be understood quickly. As a central point in the production process, the shear mechanisms are of particular importance in terms of reliability and durability.

A breakdown or frequently necessary and lengthy maintenance would affect the entire production line. On the one hand, production interruptions quickly cause very high costs due to the resulting loss of production, and on the other hand, it's associated with a high workload for the glass manufacturer's personnel. First with the repair and then with the restart of the production line.

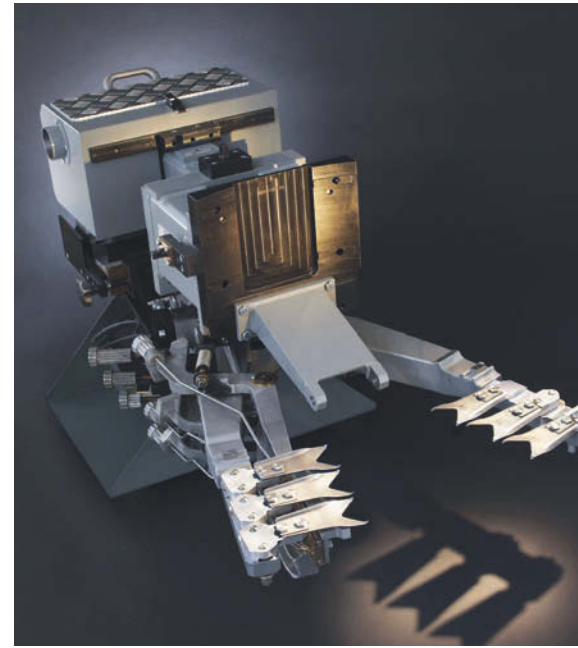
For more than 25 years, the Heye dual motor shears have been setting the benchmark. Depending on the conditions of use, an overhaul / revision is only necessary after six to nine years. Many shears have already had a service life of between 12 and 16 years without having undergone a general overhaul.

The success of this product clearly shows that the aforementioned conditions were taken into account to a very high degree in the construction of the dual motor shears.

The feedback from customers can be rated as consistently positive. The perfection, reliability and ease of use of this product leads to satisfaction and a high level of acceptance among users.

Heye International finds confirmation of its well-founded development work, which has been continuously continued for decades, in the fact that products such as the dual motor shears are still successful on the market thanks to continuous improvements and their functional principles have been adopted by other shear manufacturers.

Precisely such successes encourage us to continue to invest a great deal of commitment in the development of well-founded technology in order to develop products for our customers that will hold their own in the market due to their quality and make everyday work easier for the user. And last but not least, it is the proven sustainability in every respect (environment, yield, handling) that has



confirmed the exceptional quality of this high-class product for many years. ■

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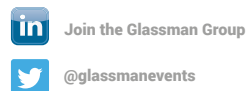
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