



Protezioni
Elaborazioni
Industriali

UNIQUE STEEL COVER EVO: THE SUPER LIGHTWEIGHT BELLOW

P.E.I. Srl presented its new bellow cover with stainless steel blades Unique Steel Cover EVO at EMO 2023 in Hannover.

As the name suggests, this "EVO" is the evolution of the previous Unique system.

The innovation (**patented**) lies in the separation of the pulling function from the protective function against swarf.

Unlike the previous version, in which the laminations also took part in the pulling function when expanding and contracting, the new EVO version uses small bellow segments, making the cover much lighter than a conventional bellow.

The lamination cover therefore has a lower weight, which improves its protective effect at high machine dynamics.

The considerable weight saving brings major advantages. For example, the work steps during assembly and maintenance work are made considerably easier and faster.

The low weight of the cover also enables a significant reduction in the moment of inertia compared to a traditional bellow with fabric and laminations, allowing higher accelerations and travel speeds to be achieved. This also reduces the load on the affected machine axis and lowers energy consumption.

The design with laminations without entire bellows, as with the Unique Steel Cover EVO, is particularly recommended for applications in machining centers and for shield systems.

This solution is particularly appreciated by machine tool manufacturers in Germany.

Unique Steel Cover EVO also has a green soul: the cover is made from materials that are 90% recyclable, without the additional use of adhesives and solvents. Thanks to its low weight, this cover enables considerable energy savings during use.

Video available on YouTube: <https://www.youtube.com/watch?v=C58i4FopjeU&t=8s>

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