

PRESS RELEASE

Soon, at the 'Aluminium 2018' trade show, Tebulo Industrial Robotics will present their:

Innovative De-Strapper

At 'Aluminium 2018', Tebulo Industrial Robotics will be presenting their innovated De-Strapper: A robotised system designed so that users could more easily remove the straps of aluminium rolls weighing up to approximately 10 tons. For the development of the De-Strapper, Tebulo Industrial Robotics has built on experiences they already had with their first model De-Strapper for the steel industry. Especially the head is greatly improved. For the head's development, an optimal balance was sought between blade with the right geometry and for the right angle at which the blade should be placed with the right force along with minimal wear on the other hand. To determine this, 'high speed video recordings' were made, moreover, complex calculation methods and force analyses were applied. Furthermore, the whole construction has been improved and made stiffer, while the renewed De-Strapper has hardly gained in weight. A major challenge was the improvement of the blade geometry. To be able to cut the straps, the blade had to slide under the straps in some way or other without causing too much damage. Thanks to the improved geometry applied, the strap is now lifted and cut in a single motion as soon as the blade slides under the strap. This happens with minimal damage to the metal coil. While this operation is being carried out, the strap is clamped on the other side preventing ejection. For the realization of these three functions the system utilises hydraulics. In short: thanks to a smarter geometric design of the cutting principle, combining a different material with a different hardening principle, the wear parts of the new model have a longer life. It is also worth mentioning that, from a safety point of view, the counter blade of this model is equipped with a two-sided clamping principle, so that PET strip can also be cut. Laser technology is deployed in combination with software for detection of the straps. As soon as a strap is cut, it is automatically pulled away by the De-Strapper and handed over to a 'strapwinder'. The De-Strapper may be equipped with additional scanning functionality for barcode scanning and/or a camera for access control or a product number identification. As standard, each De-Strapper has a clamping and cutting feature, a diameter measurement and a laser system for recognising the number and position of the ties.

* Tebulo Industrial Robotics has grown into a leading player, specialising in the design, construction and supply of innovative, technically advanced robot integrations for a wide range of applications – from design to the commissioning phase.

More information

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Tebulo Industrial Robotics präsentiert auf der Aluminium 2018:

De-Strapper - der innovative Bindebandentferner

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