

whitepaper

TITAN DESTRAPPER SYSTEM



THE BEST DESTRAPPER SYSTEM – FROM TITAN

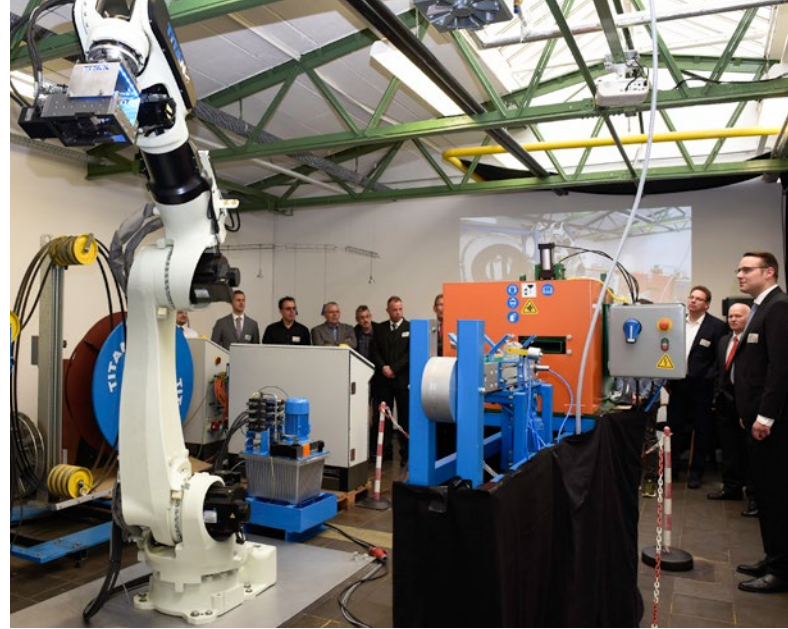
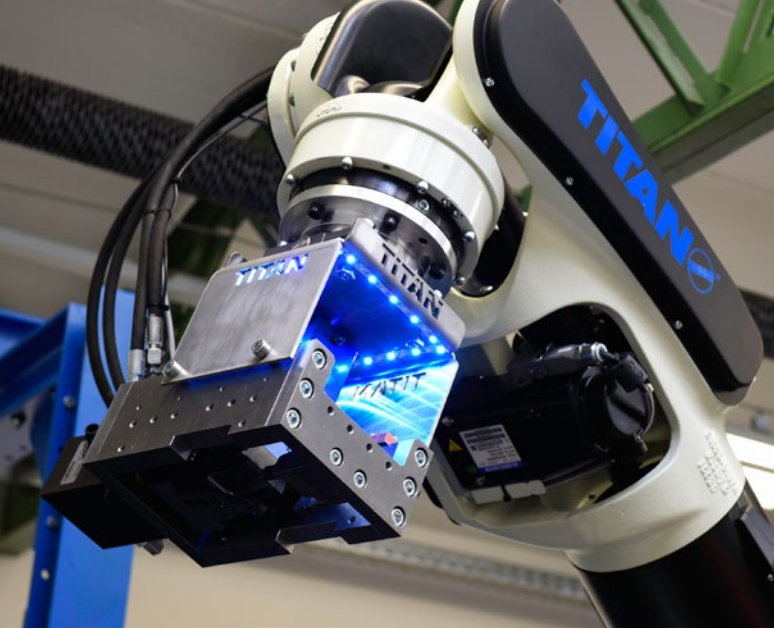
The TITAN Destrapper sets new standards: The removal of strappings from coils has never been easier, safer and more reliable! With this, the system solution provider from Schwelm rounds off its comprehensive range with its best solution for opening steel strappings of coils.

“Out of control” – steel strappings removed manually

The tension forces of steel straps, which hold coils tight, can go up to 40,000 N. When cutting the straps, it is necessary to keep these released forces under control. One does not need to have tried it personally to know: by hand, with a strap cutter or other do-it-yourself solutions, it is neither possible nor permanently accident-free. It is particularly alarming: the injuries incurred here are severe.

Everything under control – with robot and TITAN Destrapper

The destrap solution from TITAN is not the first of its kind, but it is mature. The TITAN Destrapper mainly consists of a robotic arm and the new Destrapper unit from TITAN. From the feeding of the coil to the Destrapper, to cutting the straps and all the way to further transport of the coils and chopping of the strap: with the TITAN solution the whole process runs in a controlled, safe and reliable manner.



TITAN Destrapping: Fully automatic, trouble- and accident-free

The procedure begins with positioning the coil on the coil deposits which have cradle rollers. Then the robot control receives the signal "Start strap removal". By turning the coil on the cradle rollers, the laser scanner of the strap cutting unit determines the strap tails. When the coil lies secure on the strap tail, the laser sensors mounted on the cutting unit automatically locate the position of the straps and transmit this information to the superordinate system control. This system compares the strapping positions with the recesses on the cradle roller station to allow the strapping to be pulled away. Finally, the strap cutting unit cuts the strap.

The cut off straps are held by the Destrapping unit and are fed to the strap chopper via a conveyor belt. Castors press the strap onto the conveyor belt and secure it. Then the robot moves either to the next strap on the coil or back into the parking position.

With the Destrapping from TITAN both circumferential and radial strappings can be removed.

Better cutting performance – with TITAN

The new Destrapping system was tested very extensively and under very realistic conditions by the TITAN Research and Development Department. The system has proven to be extremely reliable and rugged: more than 100,000 cuts on SUPERMEGA® straps are not a problem for the cutting unit! And the feeding system to the chopper which is unique on the market, runs trouble-free and is also extremely space-saving. The minimal maintenance effort, the world-wide service and the large range of applications underline the unique high quality of the Destrapping system from TITAN.

TITAN Destrapping at a glance

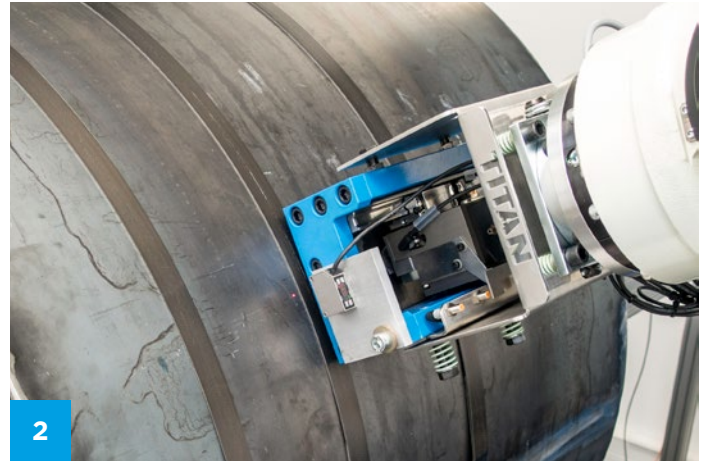
The automatic Destrapping system is based on a standard industrial robot with mounted strap cutting unit and necessary sensors.

8 + 1 advantages for you

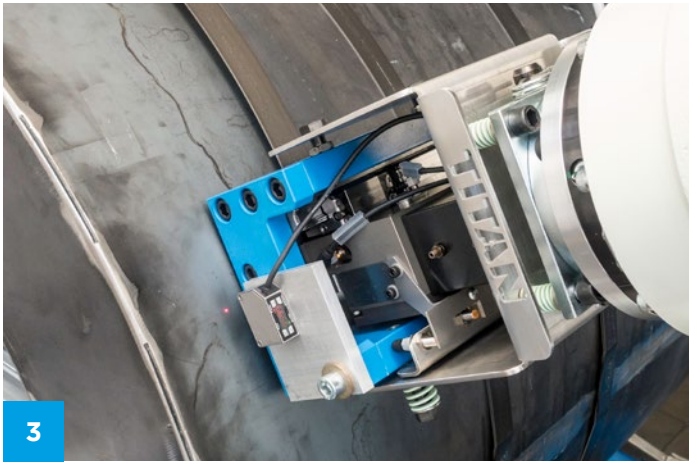
- **Fully automatic process sequence as complete solution**
 - Detect strap
 - Grip strap
 - Remove strap
 - Dispose of strap volume-optimized (strap-chopper)
- **Extra-long operational performance**
 - Maintenance and wear-optimised assemblies (> 100,000 cuts with SUPERMEGA® strap)
- **Highest flexibility**
 - Universal application possible through rugged design (strap widths of 19 mm, 25 mm and 32 mm with thickness of 0.5 mm to 1.45 mm – change of application without modification)
- **Performance-optimized**
 - Controlled speed (average 120 seconds/strapping)
- **Minimum maintenance effort**
 - Through the use of few components
- **Quick change system**
 - For simple change of the cutting unit
- **Reliable feed of strap to the chopper**
 - By means of positive-locking strap gripping systems
 - Space-saving strap feed to the chopper
- **Worldwide service by "TITAN CARE"**
 - Guarantees high availability
- **Last but not least: Safety**
 - Protection of persons and life!



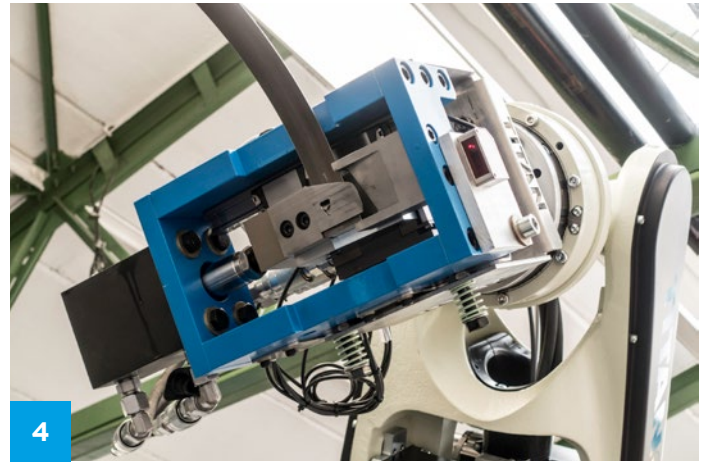
The robot is in the parking position and waits for the signal that a coil is ready.



The robot drives to the coil with the Destrappier, measures it and detects the strappings.



The robot moves the Destrappier to the detected strapping and cuts it off.



The removed strap is taken off the coil and fed to the chopper.



The strap is deposited on the conveyor belt.



The strap runs into the chopper and is cut into pieces.

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