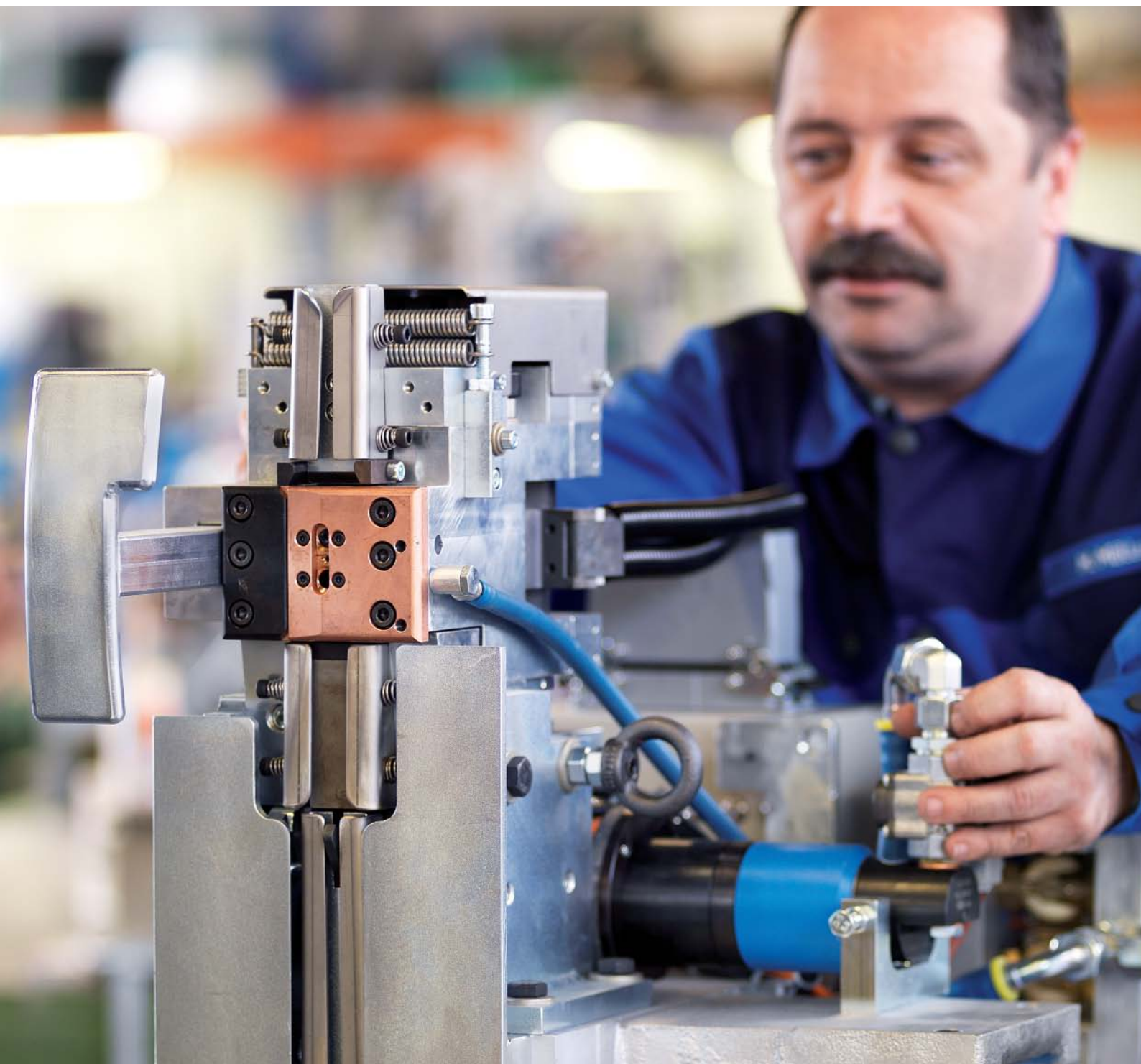


Titan Aggregates

Safety for all industries.



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Safety for all industries.

Technology Made by TITAN

Worldwide TITAN is in a position to serve you with the ideal solution for your needs for every kind of strapping system.

Regardless, which application you are focusing on. Either for the strapping with PET / PP or Steel Strapping TITAN, is in a position to serve you with the ideal solution.

Our high-performance aggregates stand for longevity, lowest wear and highest performance required.

Steel Strapping

TITAN, the guarantor for technical novelties. TITAN, founder of the sealless-joint invents with the new TITANARG® welding technology a trendsetter for the use of Steel Strapping in fully automatic strapping aggregates.

Highest joint efficiencies are guaranteed with the TITANARG® joint technology, worldwide.

The supreme discipline of hot applications is our speciality.

Plastic Strapping

TITAN offers for this field of application its long-lasting proved thermo-weld joint based on the VK 10 aggregate range. This Strapping aggregate is proven for its long-lasting duration.

The T 200 aggregate is the latest development in this field by TITAN. This aggregate operates with the friction-weld technology and is the logical complement to the VK 10 series. Servo drives guarantee for efficient use and perfect control.



Steel Strapping

In the field of Steel Strapping applications TITAN offers for every use the optimum solution. Either for light-duty or heavy-duty strapping applications, for strap dimensions from 12.7 mm (1/2") to 32 mm (1 1/4") TITAN offers the best solution.

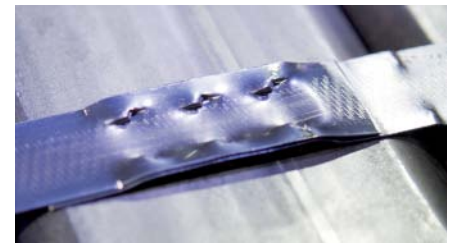
Especially for hot applications our strapping aggregates VS 31-L and VS 32-L are ideal in the supreme discipline of strapping which TITAN dominates.

TITAN, founder of the sealless-joint broke new ground with the TITANARG® sealing technology. Today the technical leadership worldwide is held by us.

The VS 11-L / VS 31-L strapping aggregate series

The safety joint is formed by successive punching. The strap in the joint area is almost tension free. The punched joint of the VS 11-L / VS 31-L aggregate effectively prevents the strapping joint from breaking (=re-opening).

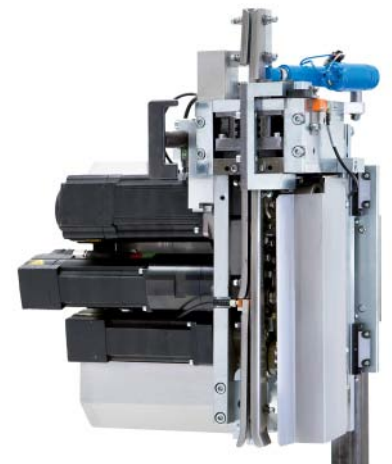
The joint efficiency is approx. 85 % of the breaking load of the strap.



The VS 11-L strapping head series

The VS 11-L strapping aggregates are available in two fundamental different versions:

- The proven electro-pneumatic driven aggregate VS 11-L, highest strap tension for the robust use
- Our latest novelty on this field is the VS 11-LE completely based on electrics. A perfect synergy between the aggregate with its control and the long-lasting servo drives itself.



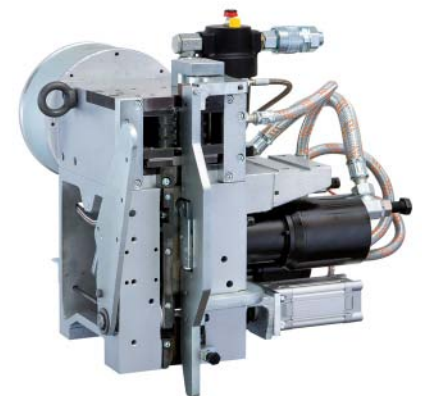
The VS 31-L series

The VS 31-L fully automatic strapping machine is the high performance strapping system, particularly for heavy-duty use in steel and rolling mills.

The VS 31-L is strapping coils, panels, sections, billets or wire, reliable and secure. Even extreme working conditions in hot plants or complicated strapping processes are not a problem for the VS 31-L.

Constant improvements are the guarantor for top technology of the VS 31-L strapping aggregate. For today's applications the VS 31-L strapping head is one of the highest valued steel heads worldwide.

TITAN technology is in operation in all five continents to the satisfaction to our partners and customer.



Titan Aggregates

Steel Strapping.

The welding technology developed by TITAN

Welding technology for the VS 12-L and VS 32-L steel strapping head applications.

The new inverter welder TITANARG® L 250 TI with digital micro processor technology offers multifunctional solutions for the welding application.

The welding method

The VS 12-L and VS 32-L strapping heads operate using the "TIG" ("Tungsten-Inert-Gas") welding technology with a non melting Tungsten electrode and inert gas. This welding process has proved time and time again in the industry, in particular in the car industry.

The welded joint is created without contact by an electric arc between the electrode and the strap under inert gas. This process is melting the metal and the two overlapping straps are joined.



The VS 12-L series

As the VS 11-L series, also the VS 12-L strapping aggregate is either powered electro-pneumatically or 100% electrically.

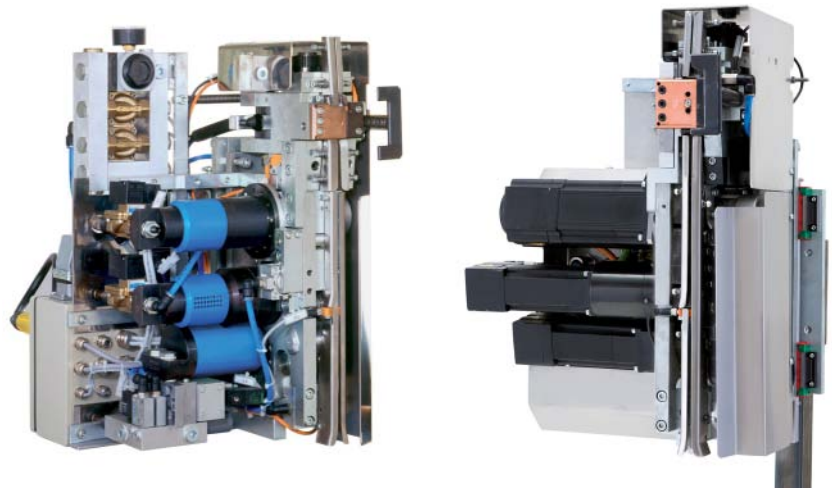
To increase the service availability of our strapping aggregates the drive mechanism of the VS 11-L and VS 12-L series is identical, except the sealing unit itself which is adopted to the joint technology.

Outstanding technology developed by TITAN. With the new VS 12-L strapping aggregate range TITAN offers its customers brilliant technical features for load security with Steel Strapping.

Two versions of VS 12-L Steel Strapping aggregates are available:

The VS 12-L LD for light-duty applications and the VS 12-L HD for heavy-duty applications.

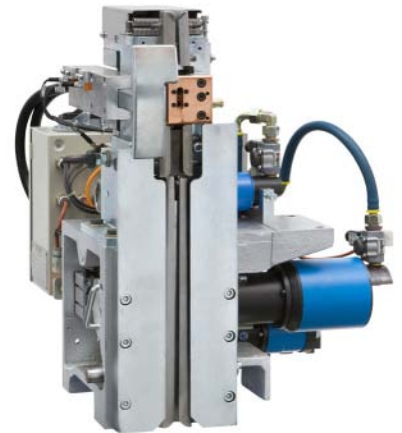
Absolutely unique, strap thickness up to 1.0 mm (0.040") MEGABAND® can be handled with this aggregate.



The VS 32-L series

The VS 32-L strapping aggregate is the ideal head for applications requiring extremely high strap tensions and joint efficiencies. In addition, the small base plate allows the strapping of small packages.

Special applications for the VS 32-L are circumferential strapping of coils, coil strapping through the eye, slit coils, wire and tube bundles, etc.

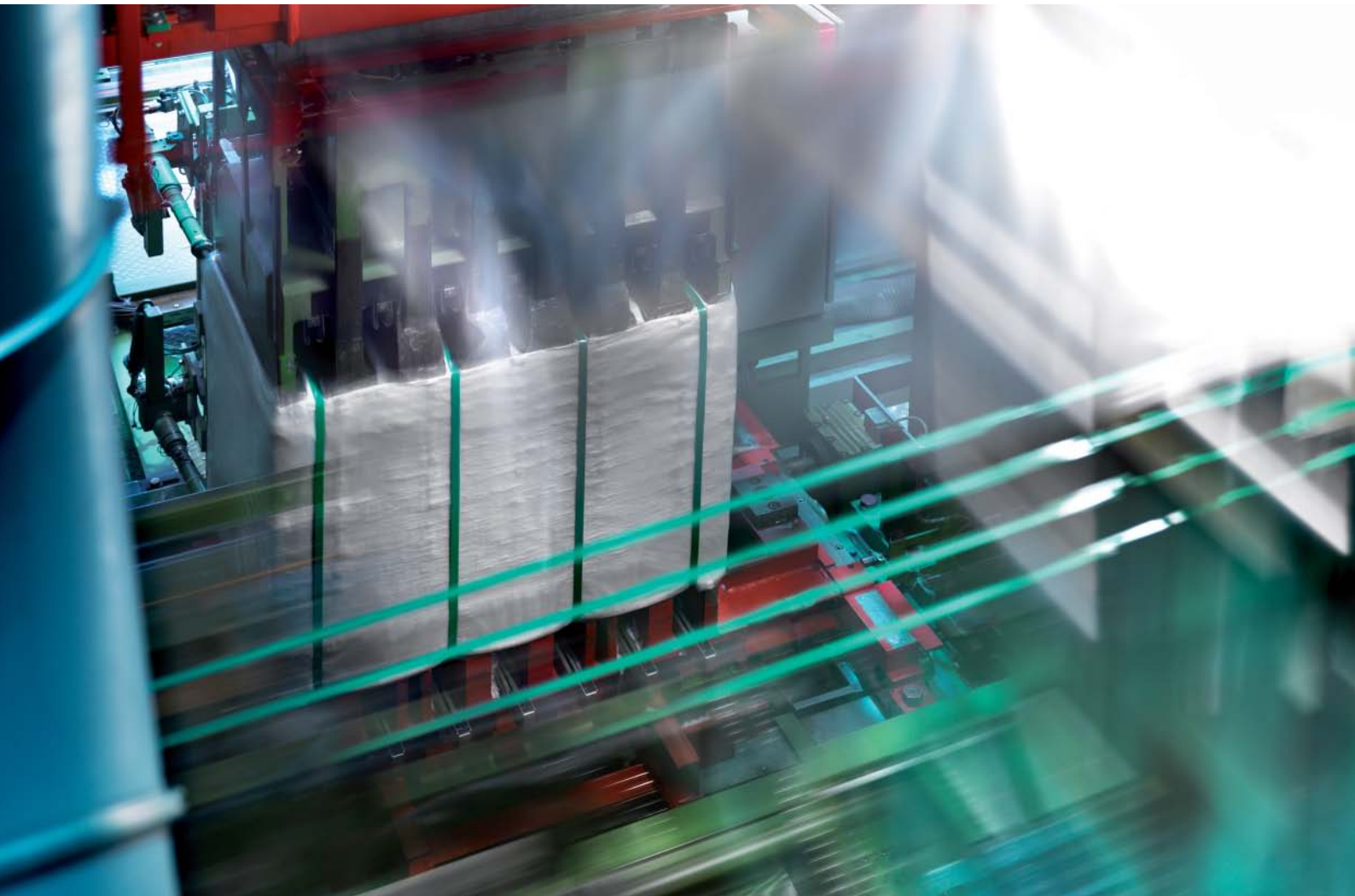


The advantages of the TIG weld joint

- Maximum safety by double welds providing sealing performances of up to 90% of the breaking load of the strap
- Easy handling: the strapping unit and the TITANARG® L 250 TI welder are controlled by the same operator panel
- Highest safety by electronically controlled operation of the electrode and by full penetration welding also in case of corroded and lacquered straps
- No transfer of heat onto the package during the welding process
- Cold and flat joint, not damaging the surface of the package
- Easy stacking of the strapped packs without breaking of the joint
- Perfect performance for stainless steel strap
- In confirmation to all important safety regulations, USA (AAR approval), China, etc.



Titan Aggregates
Plastic Strapping.



High Tech by Innovation

The electrical powered strapping aggregates VK 10 and T 200 combine most modern drive- and control technology with the latest development of the proven TITAN joint technology and its modular concept.

Control

We can use all common SPS controls and provide programmes, which can be adapted to any customer's application.

Efficiency

The TITAN strapping aggregates of the T 200 and VK 10 range have the following special features:

- The standardized modular design system
- A very high rate of availability
- Easy to service and
- Low operation cost

The VK 10 series

The range of VK 10 strapping aggregates provides the right solution for all strapping applications. Due to their rugged design and reliability VK 10 strapping aggregates can now be found in all sectors of industry worldwide.

Strap widths of 9.5 mm to 19 mm can be used, the strap thickness can be used up to 1.35 mm for PP and PETstraps.

The TITAN thermo-weld joint offers highest joint strengths.



The T 200 series

The electrical plastic strapping head T 200 combines modern servo drive control technology with the state of the art proven sealing technique, based on a friction weld joint.

For the drive the strapping aggregate T 200 is equipped with robust DC motors which make the application of control voltage of

24 volt possible, and hence the strapping head T-200 can be operated with 230 volt.

No couplings are necessary anymore due to the DC motors in the strapping head, hence we do not have any mechanical wear in this area.





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