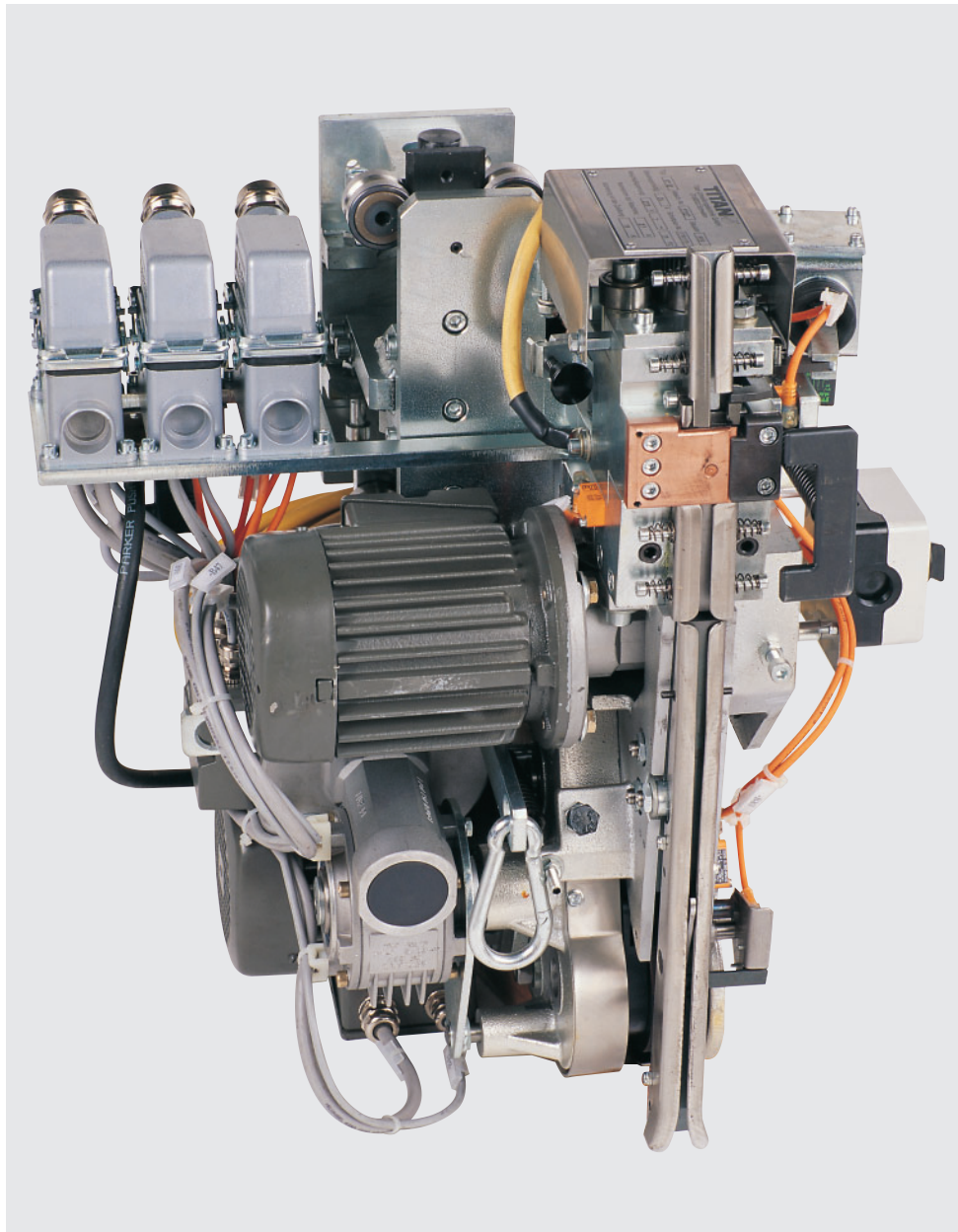


# High Performance Electric Steel Strapping Heads

## Titan VS11/12 Series



The electric VS11 and VS12 strapping heads combine the most advanced drive and control mechanisms with the latest standards of the proven Titan sealless joint technology and functional modular design.

The drives of the VS11 and VS12 strapping heads are equipped with robust electric motors. With the integrated frequency inverters, the heads can be used with voltages of 200 to 240V at 50/60Hz. The inverters also control the operation and the output of the motors through programmable parameters.

Contact your local Samuel sales representative for the strapping head that best suits your specific application needs.

### Features

- Achieve up to 90% joint efficiency
- Fully automated strapping heads
- Available in sealless and spot weld joint
- Advanced drive and control mechanisms
- Proven technology
- Reliable and robust
- Designed for light-duty to high strap tension and joint applications
- Functional modular designs
- Suitable for steel, brick and lumber applications



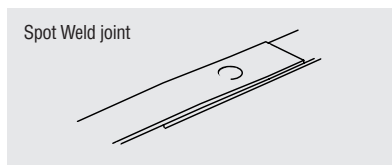
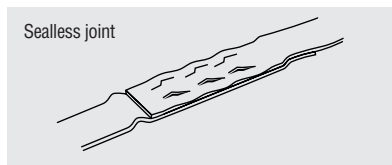
## Titan VS11

### Sealless joint

#### Sealless Punched Joint

The new safety joint is formed by successive punching. Due to the performance characteristics of steel strap, tension is rather low in the sealing area. The VS11 punch joint effectively prevents the strap from reopening. The sealing performance of the joint achieves up to 80% of the breaking load of the strap.

The fully automatic strapping machine VS11 is the efficient strapping system for light-duty applications in 0.5 inch (13mm) to 0.75 inch (19mm) strap widths. Whether in the steel, brick, or lumber industry, the Titan VS11 is most suitable for any application.



## Titan VS12

### TIG Spot Weld joint

#### The welding process

The VS12 strapping head uses the Tungsten inert gas (TIG) welding process already widely used in the automotive industry around the world. The welds are made contactless by an electric arc under inert gas. A Tungsten electrode strikes the arc which melts and joins the two overlapped strap parts.

The VS12 strapping head is ideal for applications requiring extremely high strap tensions and joint efficiencies. In addition, the small base plate allows for the strapping of small packages.

The Titan VS12 strapping head is particularly suitable for:

- Strapping of steel coils around the circumference
- Strapping of steel coils through the eye
- Slit coils with low winding height (i.e. very small flat surfaces)
- Slit steel coils that are stacked without wooden layers
- Tube bundles with small flat surfaces
- Bundles of tube sections
- Wire bundles and coils
- A variety of heavy packages

#### Advantages of the spot weld joint

- Maximum safety through single welds delivering sealing performances of up to 90% of the breaking load of the strap
- Safe, electronically controlled operation of the electrode
- Full penetration welding even in case of corroded and lacquered straps
- Cold and flat joint, limiting possible damage to the package
- No danger of injuries
- No transfer of heat onto the package during the welding process
- Suitable for use with stainless steel strap

## Technical Data

Technical Data VS11 and VS12	Strapping heads VS11 and VS12
Mode of drives	fully electric, 200 – 240V, 50/60Hz; other voltages and frequencies can also be supplied; connecting load 2kVA
Motor output	3 motors, 0.37kW each
Tensioning capacity	335 – 2000 lbs. (1,500 – 9,000 N), electronically adjustable
Strap feed speed	8.2 ft. (2.5m)/sec
Steel strapping – Widths/Thicknesses	1/2" (13mm), 5/8" (16mm) and 3/4" (19mm)/0.017" - 0.031" (0.4 - 0.8mm); high tensile strap up to 0.025" (0.63mm)
Joints	VS11: sealless joint, joint efficiency about 80% of strap breaking load VS12: spot weld joint, 1 weld point, joint efficiency up to 90% of strap breaking load, depending from strap quality
Weight	176 – 220 lbs. (80 – 100kg), depending on version

#### Samuel Strapping Systems An Innovative Company with Innovative Solutions

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