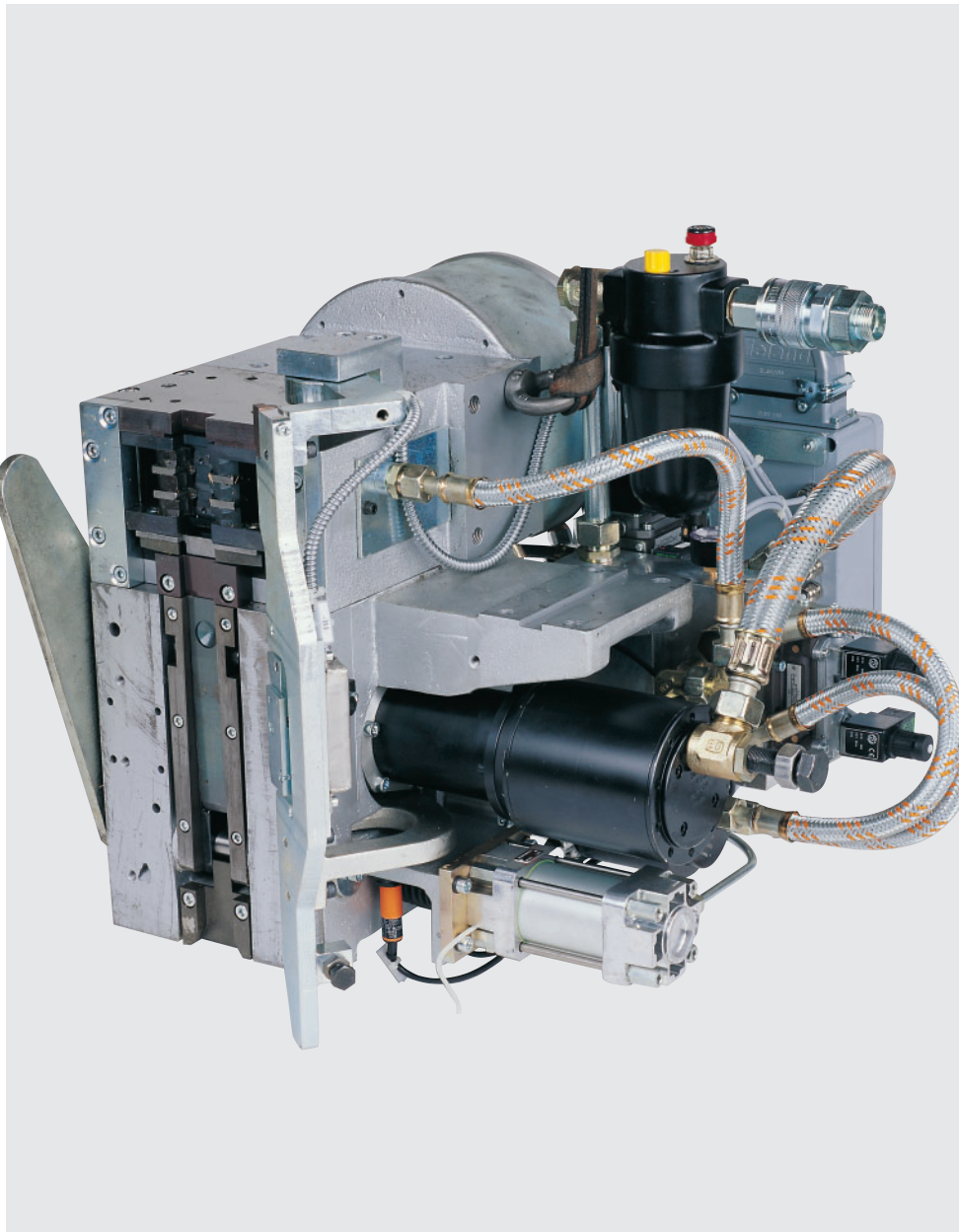


High Performance Pneumatic Steel Strapping Heads

Titan VS31/32 Series



The fully automatic pneumatic VS31 and VS32 strapping heads combine the most advanced drive and control mechanisms with the latest standards of the proven Titan sealless joint or spot weld joint technology plus functional modular design.

The drives of the VS31 and VS32 strapping heads are equipped with robust pneumatic motors. 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 heavy-duty, extremely high strap tension and joint efficiencies
- Functional modular designs
- Especially suitable for applications in the metals industry



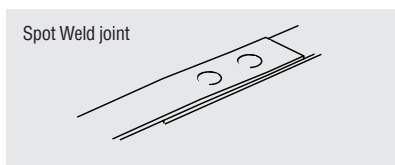
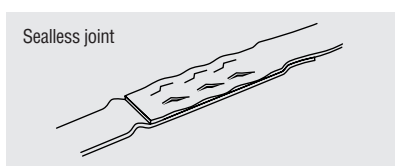
Titan VS31

Sealless joint

Sealless Punched Joint

The new safety joint is formed by successive punching. The VS31 3-notch punch joint effectively prevents the strap from reopening. The sealing performance of the joint achieves up to 85% of the breaking load of the strap.

The fully automatic VS31 strapping machine is the efficient strapping system for heavy-duty applications in 0.75 inch (19mm), 1 inch (25mm) and 1.25 inch (32mm) strap widths. The Titan VS31 is especially suitable for heavy duty use in the Metals Industry.



Titan VS32

TIG Spot Weld joint

The welding process

The VS32 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 joints the two overlapped strap parts.

The VS32 strapping head is ideal for heavy-duty applications requiring extremely high strap tensions and joint efficiencies. In addition, the small base plate allows for the strapping of small packages.

The Titan VS32 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 double 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
- Cold and flat joint, limiting possible damage to the package
- No transfer of heat onto the package during the welding process
- Suitable for use with stainless steel strap

Technical Data

Technical Data VS31 and VS32	
Mode of drives	Pneumatic – VS31: 2 motors – 3 cylinders; VS32: 3 motors – 2 cylinders
Strap feed speed	5.6 ft (1.7 m)/sec
Tensioning capacities	VS31: 1,125 – 3,825 lbs. (5,000 – 17,000 N), adjustable; VS32: 900 – 3,825 lbs. (4,000 – 17,000 N) adjustable
Air pressure	5 bar (max. 6.5 bar), 70 P.S.I. (90 P.S.I. max)
Connecting load welding aggregate	VS 32: 6.9kVA
Steel strapping -Widths/Thicknesses	3/4 inch (19 mm), 1 inch (25 mm) and 1 1/4 inch (32mm)/.031 inch (0.8 mm) to .039 inch (1 mm) – high tensile strapping up to .031 inch (0.8mm)
Joints	VS31: sealless joint, joint efficiency up to 60% of strap breaking load with 2 notches and up to 85% with 3 notches. VS32: spot weld joint, 2 weld points, joint efficiency up to 90% of strap breaking load
Required minimum package surfaces	VS31: straight package: 7 inches (180 mm) with 2 notches and 8 inches (200 mm) with 3 notches. VS32: straight package: 6 inches (150 mm). VS31&32: round package: 28 inches (700 mm) diameter
Weights	VS31: 463 lbs. (210 kg); VS 32: 441 lbs. (200 kg)
Measurements	VS31: L 23.6 inches (600 mm) x W 23.6 inches (600 mm) x H 23.6 inches (600 mm) VS32: L 27.6 inches (700 mm) x W 23.6 inches (600 mm) x H 23.6 inches (600 mm)

Samuel Strapping Systems

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