

VIBRA™

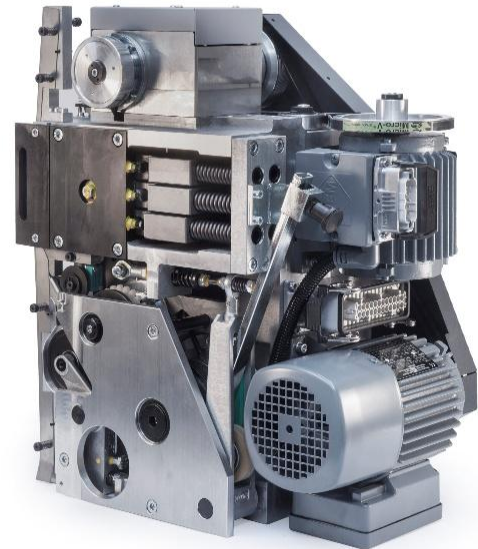
AUTOMATIC STRAPPING HEADS

FOR PLASTIC STRAPPING

Building on more than three decades of experience in strapping systems, SIAT proudly presents the **VIBRA™ Head Series**—the next generation of fully automatic strapping heads, developed to satisfy the most diverse application and strap-width requirements.

Compatible with **PP and PET** straps from **9 mm to 32 mm**, **VIBRA™ heads** incorporate advanced friction-weld technology, ensuring strong, consistent seals while preserving the strap's original characteristics and maximizing sealing efficiency.

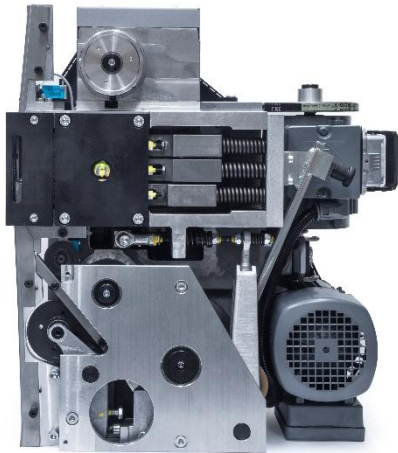
Designed for **seamless integration** into fully automatic strapping machines, **VIBRA™ heads** have proven their exceptional reliability and durability in installations worldwide. Their robust construction and high-performance operation make them the ideal solution for a wide range of industries, including the most demanding and harsh production environments.



KEY BENEFITS

- ✓ **Reliable** – Built for demanding environments
- ✓ **High tension force** – Ideal for shrinkable products
- ✓ **Easy maintenance** – Quick access to wear parts
- ✓ **Vibration sealing** – Efficient welds, no toxic fumes
- ✓ **Adjustable Tension** – Mechanical or electronic control
- ✓ **Easy Integration** – Simple installation in production lines
- ✓ **Robust Design** – Durable die-cast aluminum housing
- ✓ **High Precision** – Optimal strap alignment and weld quality
- ✓ **PLC Ready** – Easy integration into automated systems
- ✓ **Retrofit Friendly** – Compact, modular design





VIBRA™ S

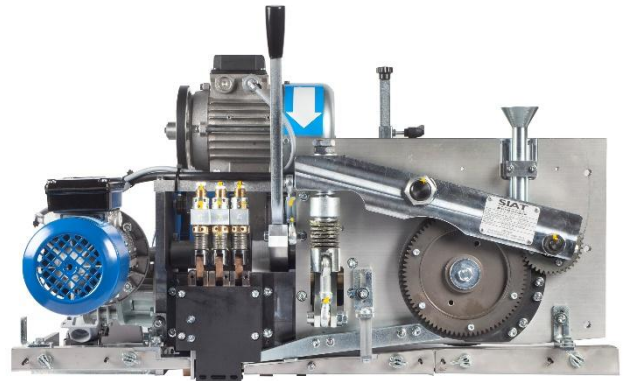
Designed for **high-speed performance and maximum versatility**, VIBRA™ S is the ideal solution for medium- and light-duty applications across industries such as beverage, paper, corrugated packaging, and logistics. Compatible with both PET and PP straps from 10 to 16 mm, it is available with either **powder clutch** or **inverter** technology, delivering exceptional strap feeding and recovery speeds of up to **6 m/s**. The result is increased productivity, reduced cycle times, and reliable operation in fast-paced packaging environments.

VIBRA™ S+

Built for **more demanding industrial applications**, VIBRA™ S+ combines power, precision, and reliability. Ideal for industries such as construction, wood processing, metal fabrication, and other heavy-duty sectors, it handles both PET and PP straps in 16 and 19 mm widths. Engineered to apply higher tension levels with outstanding accuracy, it efficiently manages straps up to 1.27 mm thick and with **high tensile strength**, ensuring secure load **stabilization** even under the toughest operating conditions.

VIBRA™ M

VIBRA™ M offers the perfect balance between **performance, simplicity, and long-term reliability**. Designed for **light- and medium-duty** applications, it is particularly suited to environments where maintenance access is limited or operational continuity is critical. Its fully electromechanical design minimizes maintenance requirements while ensuring dependable operation. Compatible with a wide range of PET and PP straps from 10 to 19 mm, VIBRA™ M delivers flexibility and efficiency for a broad spectrum of packaging needs.



VIBRA™ MAX

When maximum performance is required, VIBRA™ MAX sets a new standard in **heavy-duty strapping applications**. Combining **extremely high tension** capabilities with outstanding sealing efficiency, it enables PET straps in 25 and 32 mm widths to achieve load securing performances **comparable to traditional steel strapping**. Powered by advanced **individual AC motor drive** technology, VIBRA™ MAX **eliminates the need for clutches**, reducing maintenance requirements while enhancing reliability, precision, and operational efficiency. It is the ultimate solution for industries where strength, safety, and productivity are paramount.

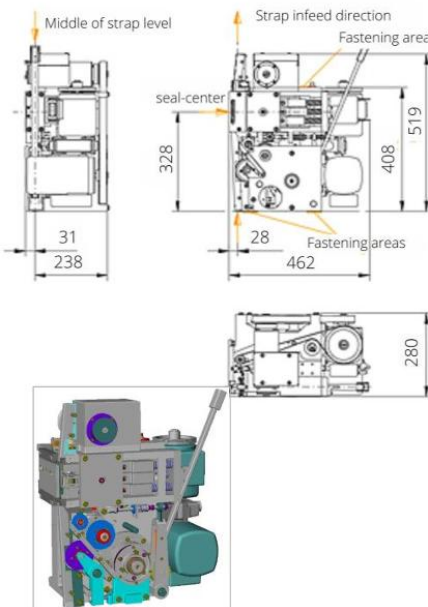


TECHNICAL DATA SHEET

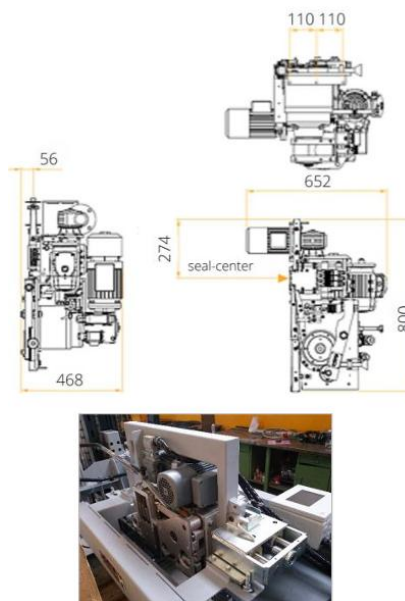


Model	VIBRA™ S	VIBRA™ S ⁺	VIBRA™ M	VIBRA™ MAX
Strap Types	PP / PET Strap (machine grade)			PET
Strap Width	10, 12, 16 mm	16, 19 mm	10, 12, 16, 19 mm	25, 32 mm
Strap Thickness	0,7 – 1,00 mm	0,7 – 1,27 mm	0,7 – 1,00 mm	from 0,9 to 1,27 mm
Max. Tension Reserve	to approx. 4.000 N	to approx. 5.000 N	to approx. 3.500 N	to approx. 7.000N
Strap feed/take up speed	up to 6 m/s	up to 5 m/s	up to 3 m/s	up to 3 m/s
Tensioning speed	approx. 0,11 m/s	approx. 0,04 m/s	approx. 0,03 m/s	approx. 0,03 m/s
Strap tension depending on the strap used	50 – 4.000 N	100 – 5.000 N	50 – 3.500 N	200 – 7.000 N
Type of Welding	Vibration (Friction) Welding			
Welding Time	approx. 0,5 to 1,8 sec		0,5 to 2,2 sec	approx. 4,0 to 6,0 sec
Tensioning Time	approx. 0,5 sec. to max. <i>(unlimited adjustable)</i>		approx. 2,2 sec	approx. 2,2 sec
Strap tensioning control	powder clutch or inverter		mechanical adjustment	inverter
Dimension (LxWxH)	519 x 280 (290) x 462 mm		800 x 540 x 326 mm	814 x 755 x 675 mm
Weight	78 kg		100 kg	370 kg
Electrical Supply	400 V / 3 ph / 50 Hz		400 V / 3 ph / 50 Hz	380/50 + Pe.
Control Voltage	24 V DC		24 V DC	24 V DC
Power Input	1.0 kW		1.0 kW	5 kW.

VIBRA S/S+



VIBRA M



VIBRA MAX

