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VIBRA™ Automatic

SIAT Strapping Technology

Strapping Heads

With more than 30 years of experience in strapping systems SIAT is launching VIBRA™ Heads that represent the new state-of-the-art for different Customer needs in term of strap's width and applications.

VIBRA™ Heads are designed for fully automatic machines for plastic strapping technology and allow the use of 9mm to 32mm PET and PP strap. The strap welding occurs through a friction weld joint technology that maintains the strap characteristics and grants higher welding efficiency. The VIBRA™ fully automatic strapping heads are used worldwide in a large range of applications, showing their durability and strength even in very rough environments.



VIBRA™ S is ideally suited for medium and light duty applications typically found in beverage, paper, corrugated, and logistics. It is available for PET and PP strap and for a strap width from 10 to 16 mm. Available both with powder clutch or inverter, allows to reach a very high speed of launch and recovery of the strap, up to 6 m/s.

VIBRA™ S+, typically used for construction, wood, metal sheet and various other demanding industrial applications, is available for both PET and PP 16- and 19-mm wide straps and it is characterized by accurately delivering higher tension to straps with thickness up to 1.27 mm with an elevated ultimate strength.

VIBRA™ M represents a well-balanced solution for light and medium duty applications even for areas where it is difficult to provide maintenance. Completely electromechanical it is available for a wide range of PET and PP straps with a width from 10 to 19 mm.

VIBRA™ MAX, in the demanding field of very heavy-duty strapping applications, thanks to its high tension and excellent sealing efficiency, it allows reaching performances comparable to those of steel straps by using PET straps with a width of 25 or 32 mm. The individual, AC motors drive technology eliminate the need of clutches and grants ease of maintenance.

Vibra S

✓ **Reliability** – Durable even in rough environments

✓ **High tensioning force** – long elastic extension of the strap suitable for shrinkable products

✓ **Easy maintenance** – easy access to wearing parts

✓ **Vibration sealing** – high welding efficiency, no toxic fumes

✓ **Strap tension adjustment** – mechanical or electrical

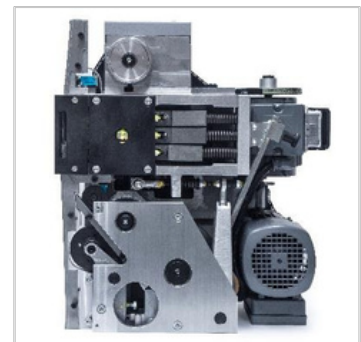
✓ **Easy adaptability** – stable 2-sided mounting and easy control integration in the production line

✓ **Robustness** – strong aluminium cast housing

✓ **Accuracy** – precise tension alignment of the strap for the best welding efficiency

✓ **PLC Control** – easily integrated in automatic lines

✓ **Easy to retrofit** – with a compact modular design



MADE IN ITALY

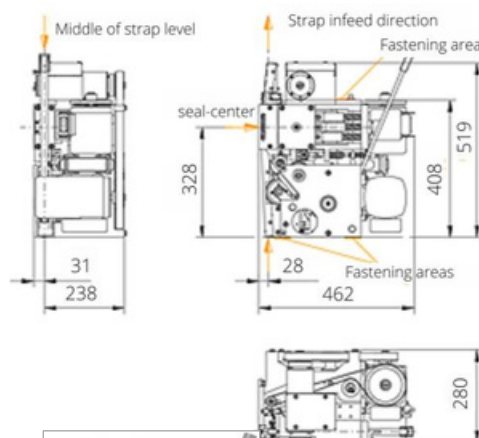
VIBRA™ Automatic Strapping Heads

DATASHEET

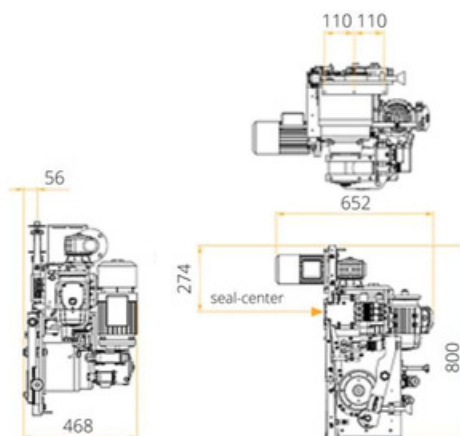


Model	VIBRA™ S	VIBRA™ M	VIBRA™ S+ +	VIBRA™ MAX
Strap Types	PP / PET Strap (machine grade)			PET
Strap Width	10, 12, 16, 19 mm	10, 12, 16, 19 mm	10, 12, 16, 19 mm	25, 32 mm
Strap Thickness	0,7 – 1,00 mm	0,7 – 1,27 mm	0,7 – 1,00 mm	from 0,9 to 1,27 mm
Max. Tension Reserve	to approx. 4.000 N	to approx. 5.000 N	to approx. 3.500 N	to approx. 7.000 N
Strap feed/take up speed	up to 0,15 m/s	up to 5 m/s	up to 3 m/s	up to 3 m/s
Tensioning speed	approx. 0,10 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			approx. 4,0 to 6,0 sec
Tensioning Time	approx. 0,5 sec. to max. approx. 2,2 sec (unlimited adjustable)			approx. 2,2 sec
Strap tensioning control	powder clutch or inverter mechanical adjustment			inverter
Dimension (LxWxH)	519 x 280 (290) x 462 mm			814 x 755 x 675 mm
Weight	78 kg			370 kg
Electrical Supply	400 V / 3 ph / 50 Hz			380/50 + Pe.
Control Voltage	24 V DC			24 V DC
Power Input	1.0 kW			5 kW.

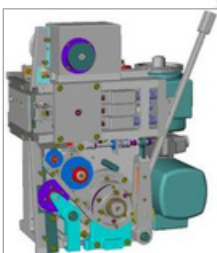
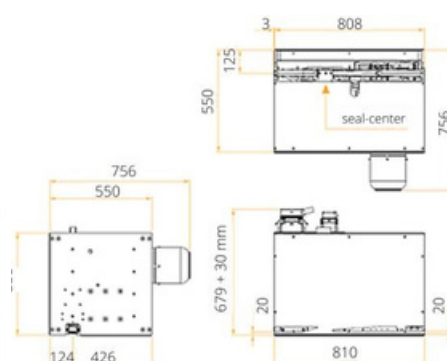
DIMENSIONS VIBRA™ S / S +



DIMENSIONS VIBRA™ M



DIMENSIONS VIBRA™ MAX



MORE DETAILS

Videos and further information can be found on our website or SIAT Youtube channel.



SAFE • SUSTAINABLE • RELIABLE

www.casapacking.com

11.2021 - All information without guarantee.
Subject to technical modifications.