

# MVSI-ACC



## Shaft projecting from one side

The MVSI-ACC series, deriving directly from the MVSI series, is characterised by the motor shaft projecting from one side, allowing in-line coupling, using a coupling, between two equal vibrators. The MVSI-ACC series is very useful for manufacturers of large screens and vibrating machines, or for plants that require very high centrifugal force values.

With two vibrators of the MVSI-ACC series coupled in line, it is possible to arrive at a centrifugal force of 50.000 Kgf (490kN). Italtibras technical staff can help the user in the choice of the coupling as well as in the application of the vibrators.



## Technical features

### Power supply

Three-phase voltage from 230V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency, with constant torque load profile.

### Polarity

6 standard poles, other polarities on request.

### Conformity with European Directives

Low voltage 73/23/CE; Electromagnetic Compatibility 89/336/CE, ATEX 94/9/CE

### Reference Regulations

EN 60034-1, EN 50081-1, EN 50081-2, EN 50082-1, EN 50082-2.

### Functioning

Continual service (S1) at maximum declared centrifugal force and electric power.

### Centrifugal force

Range extended up to 50000 Kgf. (490 KN) for the couple of vibrators, with centrifugal force adjustable from 0 to 100%.

### Mechanical protection

IP 66 according to IEC 529, EN 60529.

### Shock-proof protection

IK 08 according to IEC 68, EN 50102.

### Insulation class

Class F (155°C), class H (180°C) on request.

### Tropicalization

Standard on all vibrators, with vacuum impregnation or with "drop by drop" trickle system.

### Environmental temperature

From -30°C to +60°C. Versions for

higher or lower temperatures are available on request.

### Vibrator heat protection

With PTC rated thermistor heat detectors 130°C (DIN 44081-44082). On request, thermistors with different temperatures and anti-condensation heaters.

### Fixing of the vibrator

In all positions and therefore without restriction. Linear coupling using dynamic joint between the two vibrators.

### Lubrication

All vibrators are correctly lubricated in the factory and do not require further lubrication if used in normal operating conditions. In heavy duty operating conditions periodical re-lubrication methods may be applied.

### Terminal box

Large fixed electrical connections. Special shaped terminals allow to fix the power supply cable, protecting it from loosening.

### Electric motor

Three-phase asynchronous type. Designed for maximum starting torques and torque curves specific to vibrating machines. Insulated windings using "drop by drop" trickle system with class H resin. The rotor is die cast aluminium.

### Casing

In ductile cast iron to guarantee sturdiness and elasticity. Patented shape that improves heat dispersion and lowers normal working temperature at full load.

### Bearing flange

Constructed in ductile cast iron. The geometry of the flange transmits the load to the casing uniformly.

### Bearings

Custom made with particular geometry, especially designed for Italtibras, suitable to support both high radial and axial loads.

### Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress. Projecting from one side to allow linear coupling using a joint.

### Eccentric weights

Allow continual adjustment of the centrifugal force. This adjustment is realized by a graduated scale, which expresses the centrifugal force as a percentage of the maximum cen-

trifugal force. A patented system (patent N°MO98A000194), called ARS, prevents adjustment errors.

### Weight covers

In aluminium alloy, from the shaft exit side the weight cover is sectioned: it is made up from two halves, which guarantee opening even after coupling between the two vibrators.

### Painting

Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at 200°C. Tested in salt spray for 500 hours.

## Certifications



Regulation CAN/CSA - C22.2 N. 100-95, file n° LR100948 Class 4211 01 - Motors and generators.



Mechanical protection IP66 (EN 60529), shock-proof protection IK 08 (EN 50102)



Gost-R certificate for all models of vibrators: GOST 16264.1, GOST 16264.0, GOST R 51689.



Comply with the applicable European Union directives

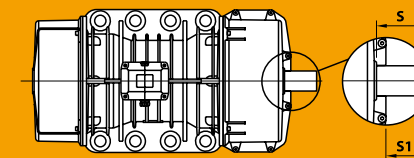
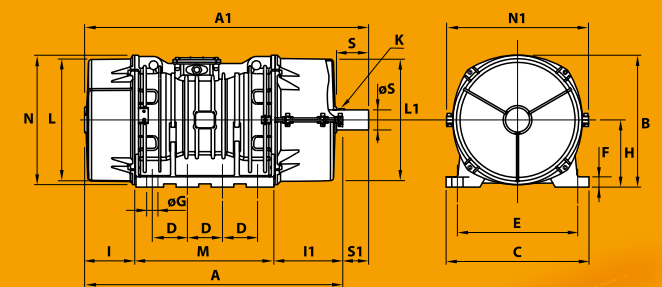


Fig. T



## 6 poles - 1000/1200 rpm

	Description		SIZE	CSA	Mechanical specifications						Electrical specifications						Dimensional specifications (mm)																								
	Code	Type			Static moment* kgmm		Centrifugal force kN				Weight kg		Max input power W		Max. current A		Ia/In		Fig.	A	B	C	D	E	Holes		F	H	I	L	M	N	A1	L1	I1	N1	øS	Shaft extension			Cable entry thread
					50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	380 V 50 Hz	460 V 60 Hz	50 Hz	60 Hz							øG	N°												S	S1	k key	
three-phase	602301	MVSI 10/15000-S90-ACC	105	□	12662	8700	14155	14004	139	137	649	611	10600	11270	19.0	18.0	5.88	5.78	T	1030	526	570	140	480	45	8	41	268	200	486	545	516	1133	490	270	566	80	128	103	22x14x50	M32x1,5
	602300	MVSI 10/17500-S90-ACC	105	□	15500	10439	17327	16804	170	165	711	662	13000	19700	24.5	23.0	5.71	5.96	T	1070	526	570	140	480	45	8	41	268	240	486	545	516	1179	490	270	566	80	134	109	22x14x70	M32x1,5
	602319	MVSI 10/22000-S90-ACC	110	□	20025	12553	22386	20208	220	198	933	903	19000	19000	33.0	25.5	4.67	5.88	T	1175	607	610	140	520	45	8	38	297	297.5	542	510	582	1234	546	322.5	616	105	90.5	59	28x16x70	M32x1,5
	602313	MVSI 10/25000-S90-ACC	110	□	22364	-	25000	-	245	-	970	-	19000	-	33.0	-	4.67	-	T	1175	607	610	140	520	45	8	38	297	297.5	542	510	582	1270	546	322.5	616	105	126.5	95	28x16x70	M32x1,5

\* Working moment = 2 x static moment. □ CSA certification on request, with feeding line included.

Ia/In = ratio between start-up current and maximum current.