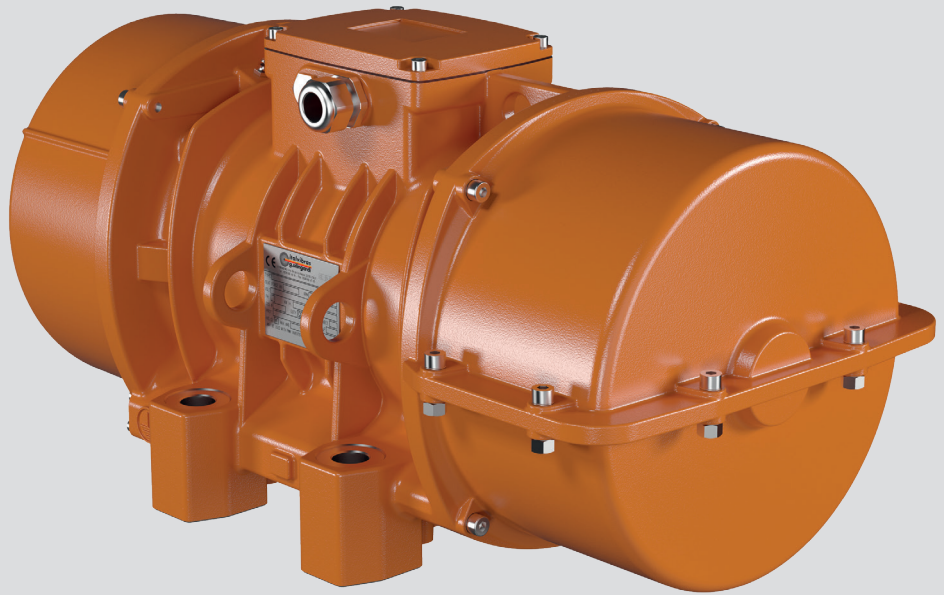


# ■ MVSII-TS



## Technical features

### Power supply

Three-phase voltage from 48V to 690V, 50Hz or 60Hz; suitable for use with an inverter from 20Hz to the base frequency, with constant torque load profile.

### Polarity

4, 6 and 8 poles.

### Conformity with Standards and Regulations

Low Voltage Directive 2006/95/EC;  
EN/IEC 60034-1;  
UL 1004-1, CSA C22.2 No.100, NEMA MG-1.

### Functioning

Continual service (S1) at maximum declared centrifugal force and electric power. Intermittent services are also possible depending on the type of vibrator and the operating conditions. For detailed information contact our technical assistance office.

### Centrifugal force

Range extended up to 30500 kgf. (300kN), with centrifugal force adjustable by varying eccentric weights position..

### Mechanical protection

IP 66 according to IEC/EN 60529.

### Protection against mechanical impacts

IK 08 according to IEC/EN 62262.

### Insulation class

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

### Tropicalization

Standard on all vibrators with "drop by drop" trickle system.

### Ambient temperature

From -20°C to +40°C. Versions for higher or lower temperatures are available on request.

### Vibrator thermal protection

Standard PTC rated thermistor heat detectors 130°C from size 70, on request for smaller sizes. On request, thermistors with different temperatures and anti-condensation heaters.

### Fixing of the vibrator

In all positions and therefore without restriction.

### Lubrication

All vibrators are correctly lubricated in the factory and do not require further lubrication at start-up.

### 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 the "drop by drop" trickle system with class H resin. The rotor is die cast aluminium.

### Casing

In high-tensile aluminium alloy up to size 60, in spheroidal cast iron for larger sizes.

### Bearing flange

Constructed in cast iron (spheroidal or grey). The geometry of the flange transmits the load to the casing uniformly.

### Bearings

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

### Motor shaft

In treated steel alloy (Isothermic hardening) resistant to stress.

The MVSI-TS series, obtained directly from the MVSI series, is characterized by the split weight covers. The weight cover is divided into two halves that can be removed in a radial direction, instead of axial direction as it happens for standard weight cover. According to requirements it is possible to mount one or two split weight covers.

The MVSI-TS series is indispensable in those applications where the position of the vibrator in the vibrating machine makes it difficult to axially remove the weight cover, while it has space to carry this out in a radial direction.

MVSI-TS has range extended up to 30500kgf (300kN).

#### 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 centrifugal force.

A patented system, called ARS, prevents adjustment errors.

#### Weight covers

In aluminium alloy, dismountable to allow disassembly in a radial direction. On request vibrators can be supplied with 1 or 2 split covers.

#### Painting / Surface coating

Electrostatic surface treatment based on epoxy polyester powder polymerized in oven at 200°C. Tested in salt spray for 500 hours. On request on MVSI-TS series other surface coatings may be available, see page 14.

**Other mounting bolt patterns are available. For further details please contact sales offices at Italtibras.**

**The technical data and models listed in this catalogue are not binding. Italtibras reserves the right to modify them without prior notice.**

#### Certifications



Compliance with the applicable European Union directives.



Standard CAN/CSA – C22.2, N°.100-95,  
Certificate n° LR 100948  
Class 4211 01 – Motors e generators  
UL 1004-1 – Rotating Electrical Machines –  
General Requirements



Version MVSI-TS-C available on request  
Class I Div.2, Groups ABCD  
Standard CAN/CSA – C22.2



Certification for Eurasian Customs Union  
N° TC N RU Д-IT.АЛ33.В.02527