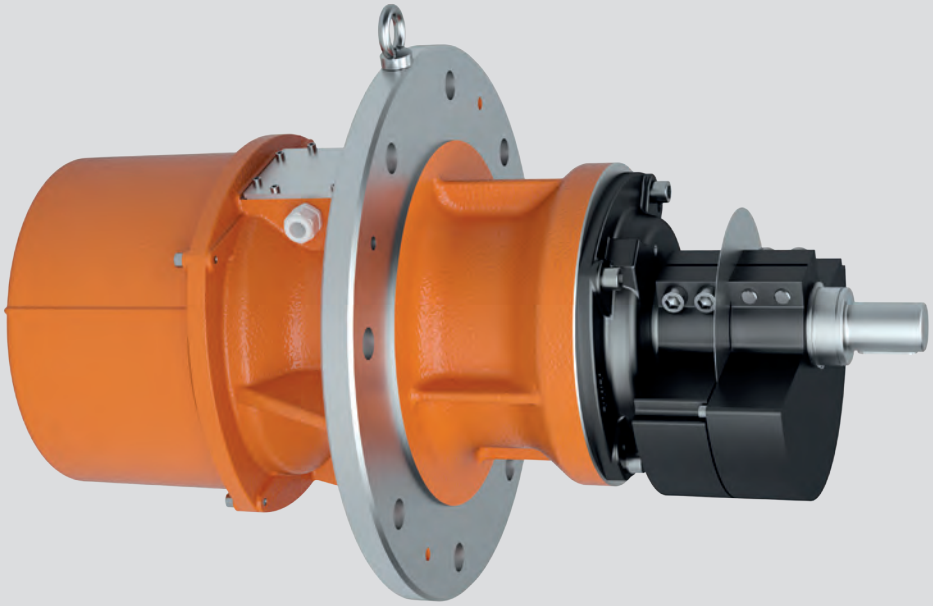
MTF - ACC



Technical features

Power supply
Three phase tension from 220V to 690V at 50Hz or 60Hz; variable frequency from 20Hz to the nameplate frequency, at constant torque, with frequency inverter.

Polarities
6 pole standard, 4 & 8 pole on request, depending on frame size.

Reference Regulations and Directives
Low Voltage Directive 2006/95/CE; EN/IEC 60034-1.

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

Centrifugal force
Range extended to 20000 kgf. (197 kN), adjustable varying the position of eccentric weights.

Mechanical protection
IP66 according to IEC/EN 60529.

Protection against mechanical impacts
IK 08 according to IEC/EN 62262.

Insulation class
Class F (155°C).

Tropicalisation
Standard on all vibrators, with “drop by drop” trickle system.

Ambient temperature
From -20°C to +40°C; higher or lower temperatures are possible on request.

Vibrator thermal protection
With thermal detectors with thermistors PTC 130°C. Upon request different temperatures thermistors are available and anti-condensation heaters.

Fixing of the vibrator
Typical fixing of these vibrators on inclined screens is horizontal, with connecting shaft and joints between the two motor-vibrators in order to keep the weights synchronized. The joints and the connecting shaft are not part of the standard supply but on demand only.

Lubrication
All vibrators are correctly lubricated at the factory and do not require further lubrication at their start-up in normal operating conditions.

Terminal box
Large terminal box to facilitate electrical connection.
Special shaped terminals allow for the power supply cable to be secured, whilst protecting it from loosening.

Electric motor
Three-phase asynchronous type. Designed for obtaining maximum torque values both at starting to respond to the requirements of vibrating machines. Insulated windings by means of the “drop by drop” trickle system with class H resin. The rotor is die cast aluminum (squirrel cage).

Casing
In spheroidal cast iron, with connecting flange for a solid connection to the vibrating machine.

Bearing flange
Carried out in spheroidal graphite cast iron. Relevant design was studied to convey the load to the casing in a uniform way

Bearings
Custom made with special profile especially designed for Italvibras, suitable to withstand both high radial and axial loads

Motor shaft
In treated steel alloy (isothermal hardening) resistant to high stresses. One side extension to allow linear coupling through joint.