

MVT

The MVT series is a type of vertical vibrator motor equipped with dual conical flanges. It is perfectly compatible with circular vibrating screen products from global leading screening brands such as **Sweco**, **Rotex**, **Kason**, and others.

Upon request, we can supply our force wheel, a set of special eccentric weights that allow for tool-free adjustment of the amplitude and screening pattern of circular vibrating screen.



**100% Compatible
with SWECO®
Round Separators!**

Technical features

Power supply

Three-phase voltage from 220V to 690V, 50Hz or 60Hz.

Polarity

4 poles.

Centrifugal force

The maximum centrifugal force of this series is 41 kN, with the force adjustable from 0 to 100% by repositioning the eccentric weights without requiring any tools.

Functioning

Continuous operation (S1) is supported at maximum centrifugal force and electric power.

Mechanical protection

IP65.

Insulation class

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

Ambient temperature

From -20°C to +40°C.

Casing and bearing flange

In spheroidal cast iron for all sizes.

Bearings

Custom-designed single-row cylindrical roller bearings with large clearance effectively balance motor heat dissipation and vibration resistance. These bearings provide a theoretical lifespan of up to 20,000 hours. SKF and NSK bearings are also available upon request.

Lubrication

All vibrators are pre-lubricated at the factory and require no additional lubrication at start-up.

Windings

Special windings are designed for low energy consumption and exceptionally high tightening torque, enabling the motors to accelerate rapidly to nominal speed and achieve quick synchronization.

Eccentric weights

It is typically not included, but we can provide our force wheel upon request. This set of specialized eccentric weights enables tool-free adjustment of the amplitude and screening pattern for circular vibrating screens.

Testing

Each unit undergoes a rigorous dynamic test with eccentric weights before leaving the factory.



Compliance with the applicable European Union directives.

SWECO® is a registered trademark of SWECO, a Division of M-I L.L.C., Florence, Kentucky.
There is no affiliation between SWECO and GMX.

MVT

4 poles - 1,500rpm / 50Hz / 380V

Type	MECHANICAL SPECIFICATIONS			ELECTRICAL SPECIFICATIONS	
	Centrifugal Force		Weight	Input Power	Nominal Current
	[kN]	[kg]	[kg]	[kW]	[A]
MVT 3100/15	31	3160	16	1.50	3.81
MVT 4100/15	41	4179	16	2.20	5.10

To convert kg into Newton: $N = 9.81 \cdot kg$

Working moment = 2 x static moment

Type	DIMENSIONAL SPECIFICATIONS (mm)										
	A	ØB	C	D	F°	E	G	H	K	ØM	ØN
MVT 3100/15	536	283	152	25	14	370	51	55	97	51	30
MVT 4100/15	536	283	152	25	14	370	51	55	97	51	30

