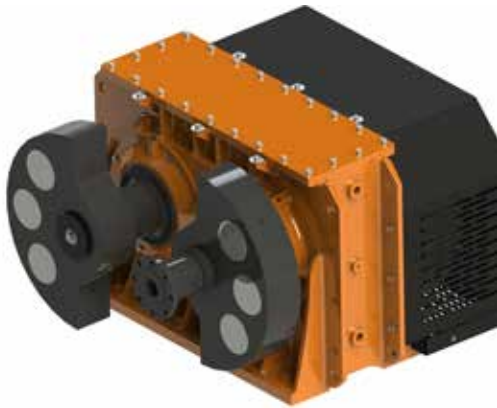


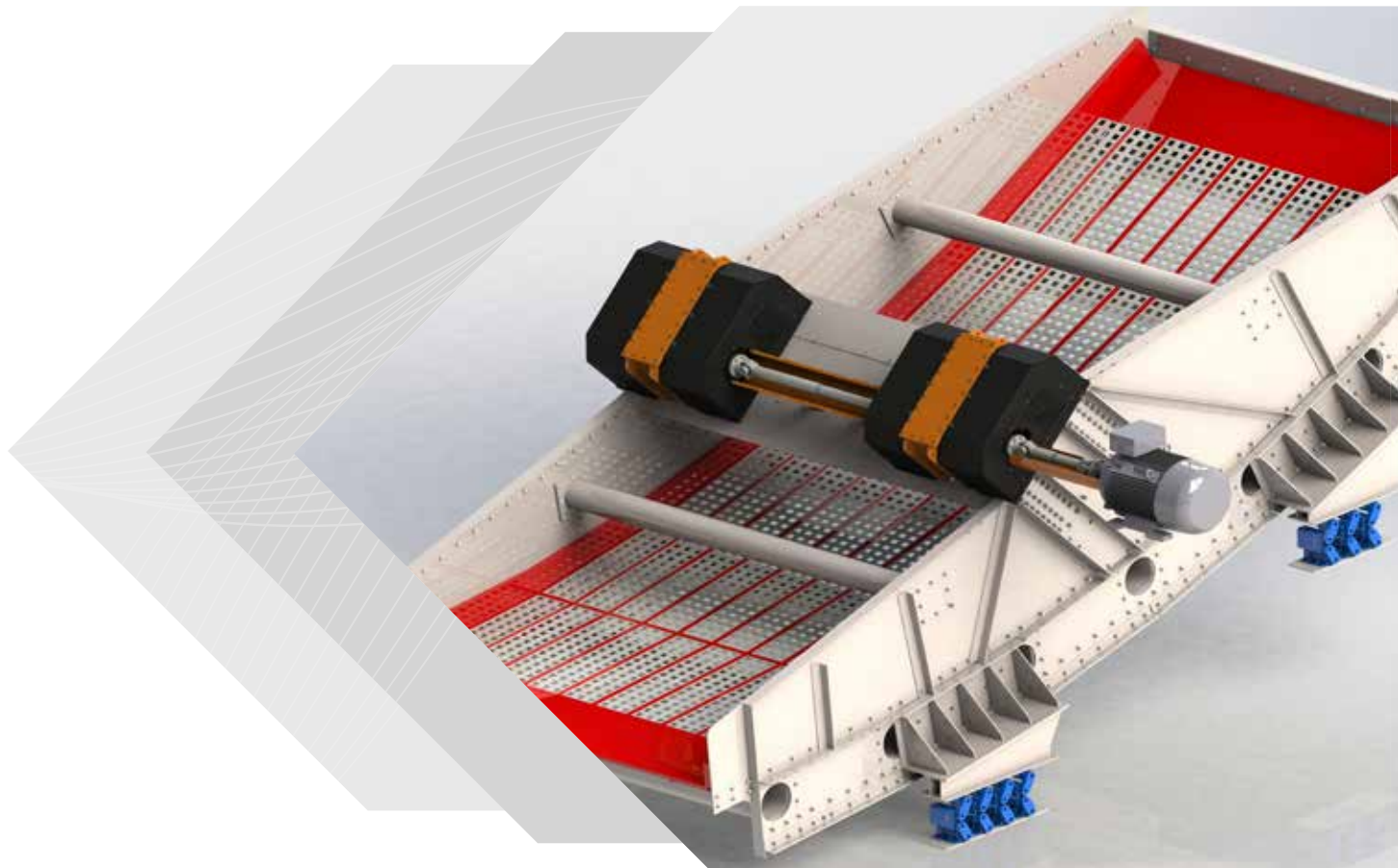
MVM

Mechanical Exciter



- » RELIABLE
- » INTERCHANGEABLE
- » PRIORITY SERVICE
- » WORLDWIDE QUICK DELIVERY

2 YEAR WARRANTY



THE LEADER IN VIBRATION TECHNOLOGY

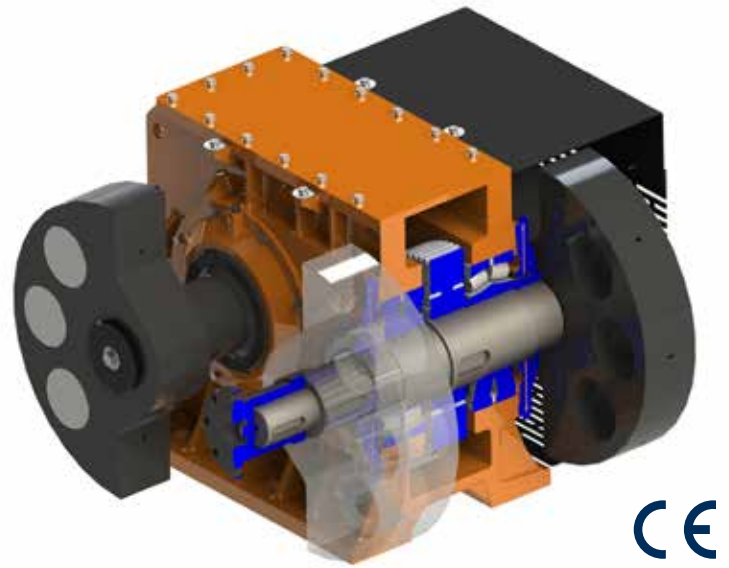
MVM OVERVIEW

The MVM series of **unidirectional mechanical oscillators** has been designed for large-scale vibrating applications. Two shafts equipped with centrifugal masses are driven in opposite directions via a gear mechanism, generating **linear vibration**. Power is typically transmitted from a universal joint shaft, which is in turn connected to either a 3-phase asynchronous motor or a hydraulic motor.

The MVM series, leveraging its capacity to generate **significant centrifugal forces** and the **synchronization of eccentric masses**, allows the vibrating machine to undergo reduced mechanical stress during startup and shutdown phases. Each component has been carefully engineered and sized to ensure **long-term durability** and **high reliability**, even in **critical environments**, capable of withstanding high mechanical loads.

An oil bath lubrication system ensures optimal gear and bearing lifespan, **minimizing maintenance requirements**.

MVM Oscillators can be coupled in series, and their **versatility** is enhanced by the ease of adjusting eccentric masses.



TOP FEATURES

- Powerful exciter for high performance
- Long service life extremely calm operation
- Minimum maintenance requirements
- Optimum application - oriented
- Ideal for use in continuous operation

MVM - MECHANICAL VIBRATOR

APPLICATION	Powerful drive for large vibrating machines.
PROBLEM SOLVING	Designed for high performance under the most severe working conditions. Minimum maintenance requirements. Long service life. Continuous operation. Low noise operation.

FEATURES

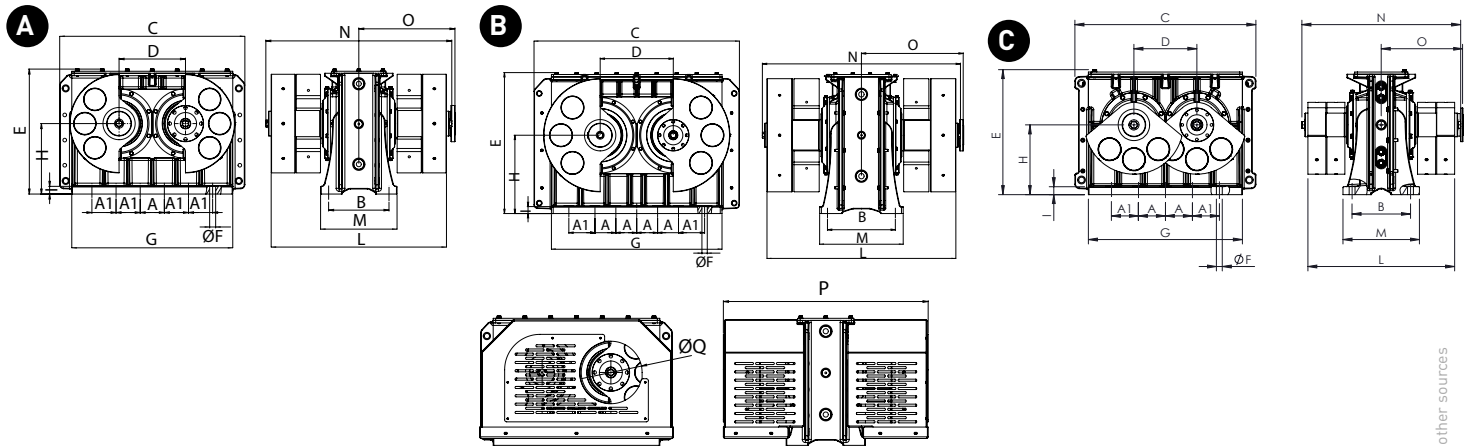
FRAME MATERIAL	Ductile cast iron.
GEAR	Grinded, high performance steel, designed to reduce the noise and the mechanical wear.
BEARING	Spherical roller bearings.
LUBRICATION	Oil.

OPTIONS

Protection cover/shield.
Motor coupling joint.
Intermediate drive shafts.
Towing shafts.
Weights (Steel or Lead)

Model	Frequency	MAX Centrifugal Force (Steel) *	MAX Centrifugal Force (Lead) *	MAX Required Power	Pd2 MAX oscillator	Bearing
	rpm	kg	kg	kW	kgm2	Type
MVM 18300/12C-200S0	1.000	17.203	20.475	11	23	22319-C4
MVM 26800/12C-215S0	900	20.284	24.302	11	30	22320-C4
MVM 38700/1C-260A0	850	26.225	31.231	18,5	47	22324-C4
MVM 65400/075C-300S0	750	35.486	41.094	30	96	22328-C4
MVM 112000/075C-340S0	750	61.824	70.570	45	170	22332-C4

* Max centrifugal force with full weights set (steel or lead).



Model	Fig.	A	A1	B	C	D	E	F	holes	G	H	I	L	M	N	O	P	Ø Q
		in	in	in	in	in	in	in	n.	in	in	in	in	in	in	in	in	in
MVM 18300/12C-200S0	C	2x4,72	2x4,72	10,24	31,69	11,02	21,89	1,02	10	26,97	12,2	1,38	25,71	13,39	27,8	14,29	30,12	8,66
MVM 26800/12C-215S0	C	2x4,72	2x4,72	10,24	31,69	11,02	21,89	1,02	10	26,97	12,2	1,38	32,48	13,39	34,57	17,56	36,69	8,66
MVM 38700/1C-260A0	A	1x4,72	4x4,72	11,81	36,22	12,99	24,41	1,22	12	31,5	13,78	1,5	34,29	14,96	36,42	18,82	39,29	11,81
MVM 65400/075C-300S0	B	4x4,72	2x5,91	15,35	41,34	14,96	27,09	1,22	14	35,43	14,17	1,38	37,44	18,50	39,57	20	41,50	11,81
MVM 112000/075C-340S0	B	4x4,72	2x5,91	15,35	46,46	16,54	31,89	1,22	14	38,58	17,72	1,57	42,72	18,90	44,80	23,03	47,56	11,81

Additional weights adjustments (*Grey = steel; Black = lead)

Model							
Static Moment lb*in							
MVM 18300/12C-200S0	714	972	1.079	1.228	1.337	1.442	1.592
MVM 26800/12C-215S0	1.003	1.393	1.555	1.782	1.947	2.106	2.332
MVM 38700/1C-260A0	1.554	2.079	2.295	2.613	2.821	3.020	3.360
MVM 65400/075C-300S0	3.080	3.839	4.149	4.603	4.903	5.184	5.678
MVM 112000/075C-340S0	5.705	6.880	7.367	8.076	8.542	8.962	9.751
Max Speed (rpm)							
MVM 18300/12C-200S0	1.500	1.200	1.200	1.200	1.000	1.000	1.000
MVM 26800/12C-215S0	1.500	1.200	1.200	1.000	1.000	900	900
MVM 38700/1C-260A0	1.200	1.100	1.000	970	930	900	850
MVM 65400/075C-300S0	1.000	900	850	830	800	780	750
MVM 112000/075C-340S0	850	850	850	800	800	750	750
Weight (lb) *							
MVM 18300/12C-200S0	1.349	1.391	1.435	1.470	1.477	1.495	1.530
MVM 26800/12C-215S0	1.587	1.651	1.715	1.768	1.779	1.806	1.858
MVM 38700/1C-260A0	2.231	2.308	2.385	2.449	2.465	2.496	2.560
MVM 65400/075C-300S0	3.316	3.408	3.501	3.576	3.594	3.631	3.706
MVM 112000/075C-340S0	4.819	4.952	5.082	5.190	5.214	5.269	5.377

* Each individual weight value includes the weight of both mass covers.



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