

# MVE-SV “screen vibrators”



EX-STOCK DELIVERY

2 YEAR WARRANTY

SIZE 75A0 & 75D0  
100% INTERCHANGEABLE  
TO DERRICK® SCREEN  
VIBRATORS FOOTPRINTS\*



## **NO CROSSBEAM**

*Designed to be installed on vibrating screens and feeders without any support crossbeam*



## **DIRECT VIBRATION**

*Designed to exert its centrifugal force much closer to the screen walls than traditional foot mounted electric vibrators fitted on a support crossbeam*



## **ADJUSTABLE CF**

*Available with both adjustable or fixed masses*

\* Derrick® is a registered trademark of Derrick Corporation, Buffalo, New York. There is no affiliation between Derrick Corporation and OLI.



## VIBRATORS FOR QUARRY & MINING, OIL & GAS





# MVE-SV RANGE OVERVIEW



## 4 POLES EXPLOSION PROOF – 1500/1800 rpm

Ex II 2G: Temp. Class **T4**  
Class I Div.1: Temp. Class **T4**  
Ex II 2D Temp. Class: **135 °C**

\* Terminal Connections: **Y** High Voltage

| Wm<br>(kgcm) |      | Model                |                      | Centrifugal<br>Force<br>(kg) |       | Weight<br>(kg) |      | ELECTRICAL SPECIFICATIONS |      |                                |                |                          |                     |      |                |
|--------------|------|----------------------|----------------------|------------------------------|-------|----------------|------|---------------------------|------|--------------------------------|----------------|--------------------------|---------------------|------|----------------|
|              |      |                      |                      |                              |       |                |      | Input<br>Power<br>(kW)    |      | Standard<br>Nominal<br>Current |                | * Terminal<br>Connection | Ia / In<br>(Ampere) |      | Cable Gland    |
| 50Hz         | 60Hz | 50Hz                 | 60Hz                 | 50Hz                         | 60Hz  | 50Hz           | 60Hz | 50Hz                      | 60Hz | 50Hz<br>(400V)                 | 60Hz<br>(460V) |                          | 50Hz                | 60Hz | Metric         |
| 279          | 193  | MVE 3500/15D-SV-75A0 | MVE 3500/18D-SV-75A0 | 3,500                        | 3,502 | 180            | 170  | 2.2                       | 2.6  | 4.3                            | 4.3            | Y                        | 6.5                 | 6.5  | 3/4" NPT 110°C |
| 279          | 193  | MVE 3500/15D-SV-75D0 | MVE 3500/18D-SV-75D0 | 3,500                        | 3,502 | 180            | 170  | 2.2                       | 2.6  | 4.3                            | 4.3            | Y                        | 6.5                 | 6.5  | 3/4" NPT 110°C |
| 417          | 292  | MVE 5300/15D-SV-80A0 | MVE 5300/18D-SV-80A0 | 5,240                        | 5,283 | 211            | 200  | 2.6                       | 3.0  | 5.5                            | 5.2            | Y                        | 7.1                 | 7.0  | 3/4" NPT 110°C |
| 620          | 434  | MVE 8000/15D-SV-85A0 | MVE 8000/18D-SV-85A0 | 7,790                        | 7,851 | 280            | 260  | 3.2                       | 3.8  | 6.3                            | 6.3            | Y                        | 7.1                 | 7.0  | 3/4" NPT 110°C |

|                      |  |         |      | DIMENSIONAL SPECIFICATIONS (mm) |     |     |       |     |     |       |     |     |    |     |     |     |     |       |       |     |
|----------------------|--|---------|------|---------------------------------|-----|-----|-------|-----|-----|-------|-----|-----|----|-----|-----|-----|-----|-------|-------|-----|
| Model                |  | Drawing | Size | C                               | M   | A   | A1    | B   | Ø G | Holes | D   | E   | F  | H   | I   | L   | L1  | L2    | L3    | N   |
|                      |  |         |      |                                 |     |     |       |     |     | N°    |     |     |    |     |     |     |     |       |       |     |
| MVE 3500/15D-SV-75A0 |  | M       | 75A0 | 1,080                           | 179 | 959 | -     | 229 | 29  | 4     | 285 | 316 | 60 | 137 | 322 | 830 | -   | -     | -     | 279 |
| MVE 3500/15D-SV-75D0 |  | M       | 75D0 | 1,080                           | 179 | 959 | -     | 241 | 20  | 4     | 285 | 316 | 60 | 137 | 322 | 830 | -   | -     | -     | 279 |
| MVE 5300/15D-SV-80A0 |  | N       | 80A0 | 1,116                           | 170 | 959 | -     | 229 | 29  | 4     | 285 | 351 | 48 | 156 | 333 | 844 | -   | -     | -     | 316 |
| MVE 8000/15D-SV-85A0 |  | O       | 85A0 | 1.425                           | /   | 800 | 1.280 | 280 | 22  | 8     | 330 | 407 | 57 | 180 | 360 | 714 | 886 | 1.193 | 1.366 | 345 |

**NOTE:** The Model name in the standard range is different: the letter "D" changes in "N".

## 4 POLES STANDARD RANGE – 1500/1800 rpm



The MVE-SV is available also as "standard" range, with Ex II 3D certification: Ex II 3D Temp. Class: **135 °C**  
Electrical and dimensional specifications are the same as the "explosion proof" range.



- » II3D Ex tc IIIC Tx IP66
- » Equipment and protective system intended for use in potentially explosive atmospheres (Zone 22) - Directive 2014/34/UE
- » Compliance with Essential Health and Safety Requirements
- » EN 60079-0, EN 60079-31



- » Declaration of conformity "type B" according to: 2014/35/UE - 2006/42/EC - EN 60034-1
- » Conform to UL1446 and CSA 22.2 No 0-10



## FEATURES

The SV electric motovibrator works like any other foot mounted electric model, providing vibrations to the vibrating machine on which it is installed. Two parallel SV are needed to provide **linear motion** to the vibrating machine while just one is necessary to provide **circular motion**.

The **SV do not need any crossbeam to be installed** because the body works as a crossbeam itself.

The SV size 75A0 and 75D0 are designed to retrofit existing vibrating machines using motorvibrator made by **Derrick® Screen Vibrators**. Thanks to its versatility, the SV range can also be used in many other applications:

### QUARRY & MINING

- Wet and dry solids separation (eg "Stack Sizer" by Derrick®)
- Screening (eg "High speed screens" by Derrick®)

### OIL & GAS

- Drilling fluids recovery systems (eg "Hyperpool" shale shakers by Derrick®)

### ADVANTAGES OF SV RANGE

- OLI SV size 75A0 and 75D0 match both the Derrick®'s long vibrator footprints
- First class bearings
- Long bearing life
- Easy mass adjustment positions
- Greased for life, 100% maintenance free

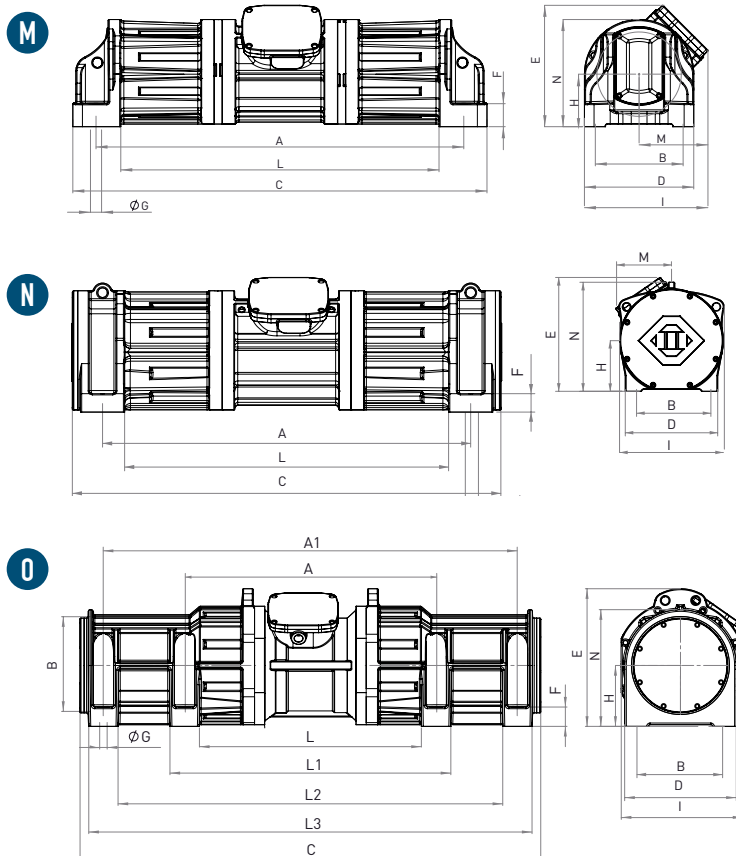
### APPLICATION ADVANTAGES

- The centrifugal force is provided directly on the screen walls, improving screening efficiency and screening mesh life span
- In OLI SV it is possible to adjust the centrifugal force using pre-drilled holes on the adjustable mass
- SV comes with a standard factory preset star connection for high voltage inside the terminal box
- OLI SV can also be operated at low voltage by simply changing the position of the connection plates inside the terminal box, switching from Star to Delta connection.
- SV can be supplied on request with multiple voltages suitable to be used in various countries all over the world

SV Size 75A0



SV Size 85A0



## MVE-SV SCREEN VIBRATOR

**APPLICATION** Vibrating screens, shale shakers, feeders/conveyors and dewatering screens for quarry, mining, recycling and other sectors

**PROBLEM SOLVING** SV acts as a structural part of the machine: it eliminates the crossbeam usually needed to support standard vibrating motors. The centrifugal force is applied directly on the screen walls avoiding energy dissipation

## FEATURES

**INPUT VOLTAGE** 220-240/380-415V, 290-300/500-525V (50Hz); 330/575V, 220-277/380-480V, 230/460V (60Hz)

**AMBIENT TEMPERATURE** -20 °C / +40 °C as standard, -20 °C / +55 °C on request

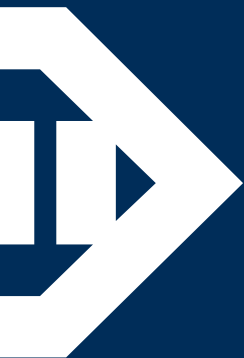
**ENCLOSURE PROTECTION** IP 66

**THERMAL PROTECTION** Thermistor PTC 130 °C included

**INSULATION CLASS** F

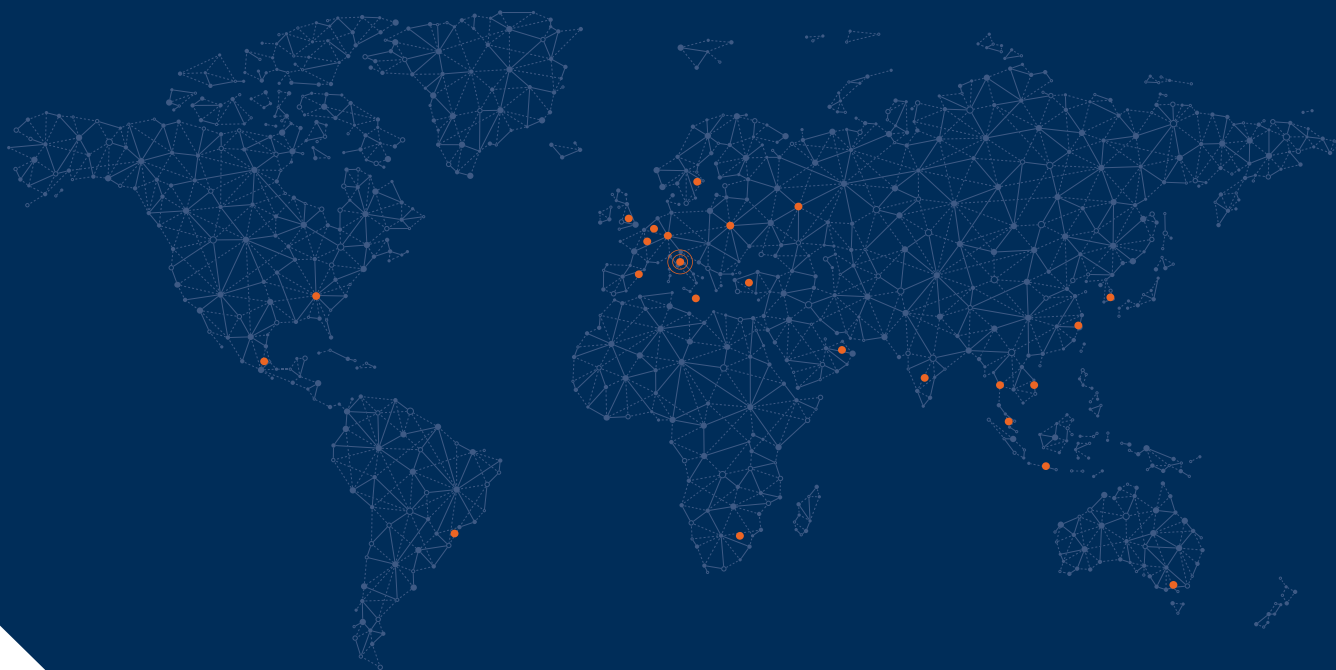
## OPTIONS

2 and 6 poles available on request



# WHEN YOU NEED IT, WHERE YOU NEED IT

## THE WORLDWIDE LEADER IN VIBRATION TECHNOLOGY



### OLI WORLDWIDE

|               |                 |                  |
|---------------|-----------------|------------------|
| OLI Australia | OLI Italy       | OLI Russia       |
| OLI Benelux   | OLI Korea       | OLI South Africa |
| OLI Brazil    | OLI Malaysia    | OLI Spain        |
| OLI China     | OLI Malta       | OLI Thailand     |
| OLI France    | OLI Mexico      | OLI Turkey       |
| OLI Germany   | OLI Middle East | OLI UK           |
| OLI India     | OLI Nordic      | OLI USA          |
| OLI Indonesia | OLI Poland      | OLI Vietnam      |



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