



**TREVI VIBRATORI S.R.L.**

STRADA VIGONE 18/7

10068 VILAFRANCA PIEMONTE ( TORINO ITALY )

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FAX +39 011 9808949

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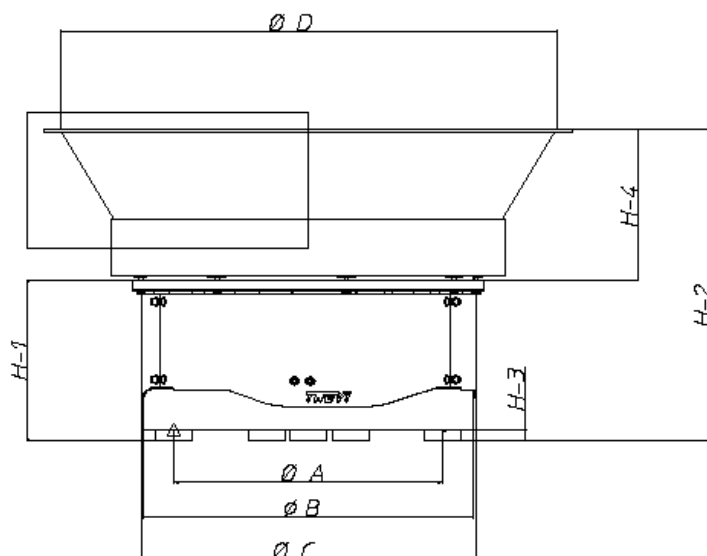
***TRamogge***

***Elevatori***

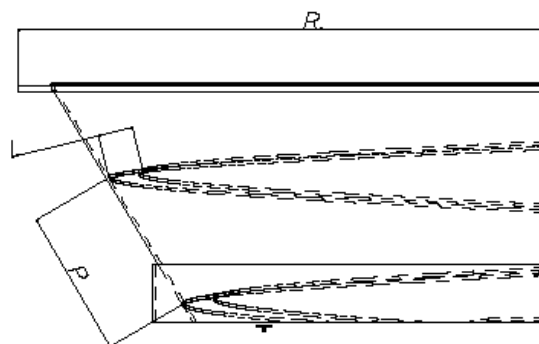
***Vibratori***

***Industriali***

**BOWL FEEDER**



**CONIC CONTAINER**



Model	$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing \text{ MAX}$	RAY	H1	H2	H3	H4	P	L	WEIGHT KGS.	FEET N.	CONSUMPTION 220v. (A)
<b>S3 200</b>	$\varnothing 170$	$\varnothing 200$	$\varnothing 200$	$\varnothing 250$	125	185 mms.	280 mms.	20 mms.	95 mms.	30	10	19,5	$\varnothing 30$ 3a 120° M6	2
<b>S7 280</b>	$\varnothing 230$	$\varnothing 280$	$\varnothing 280$	$\varnothing 430$	215	230 mms.	360 mms.	10 mms.	145 mms.	60	12	51	$\varnothing 30$ 3a 120° M8	2.5
<b>S3 350</b>	$\varnothing 280$	$\varnothing 360$	$\varnothing 371$	$\varnothing 500$	250	242 mms.	410 mms.	10 mms.	160 mms.	65	15	122	$\varnothing 40$ 4 a 90° M8	4
<b>S3 4002</b>	$\varnothing 324$	$\varnothing 400$	$\varnothing 415$	$\varnothing 600$	300	242 mms.	462 mms.	10 mms.	220 mms.	70	20	118	$\varnothing 40$ 4 a 90° M18	4
<b>S7 500</b>	$\varnothing 424$	$\varnothing 500$	$\varnothing 515$	$\varnothing 750$	350	300 mms.	530 mms.	15 mms.	180 mms.	120	20	186	$\varnothing 60$ 4 a 90° M10	4
<b>S7 630</b>	$\varnothing 540$	$\varnothing 630$	$\varnothing 640$	$\varnothing 950$	475	306 mms.	596 mms.	20 mms.	290 mms.	120	20	280	$\varnothing 70$ 4 a 90° M10	6

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S7	Ø700	Ø800	Ø815	Ø1100	550	325	775	20	450	120	30	493	Ø70	8
800						mm.	mm.	mm.	mm.				8 α 45°	
													M10	



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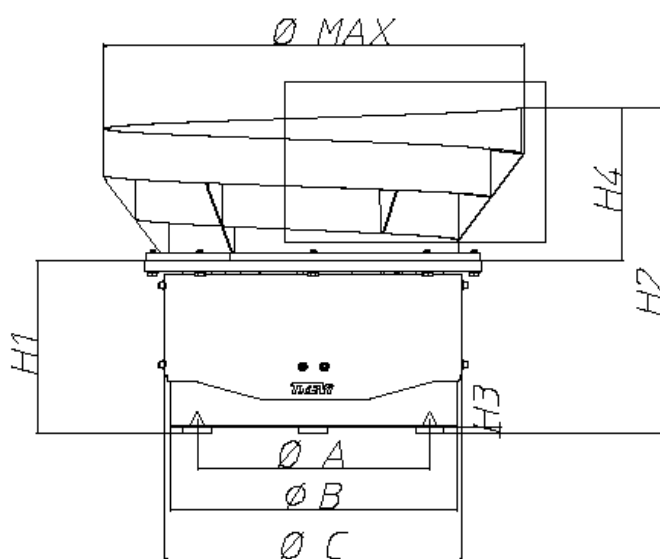
*Trevi vibrating systems, S-3/S-7 series, are studied for parts bulk selection, they are used in various technical fields. Here below there are various type of vibrating feeders linked with its dimensions and its characteristics. Every bowl feeder had clockwise or counter clockwise sense and it has its own controller. If requested, container with special dimensions will be provided. They can be in stainless steel material, soundproof, oil-resistant and anti-wear cover.*

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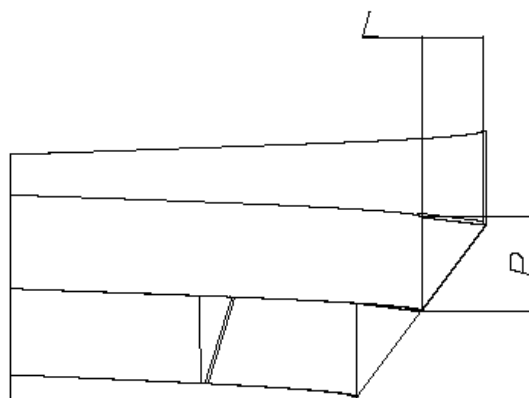
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**BOWL FEEDER**



**STEP CONTAINER**



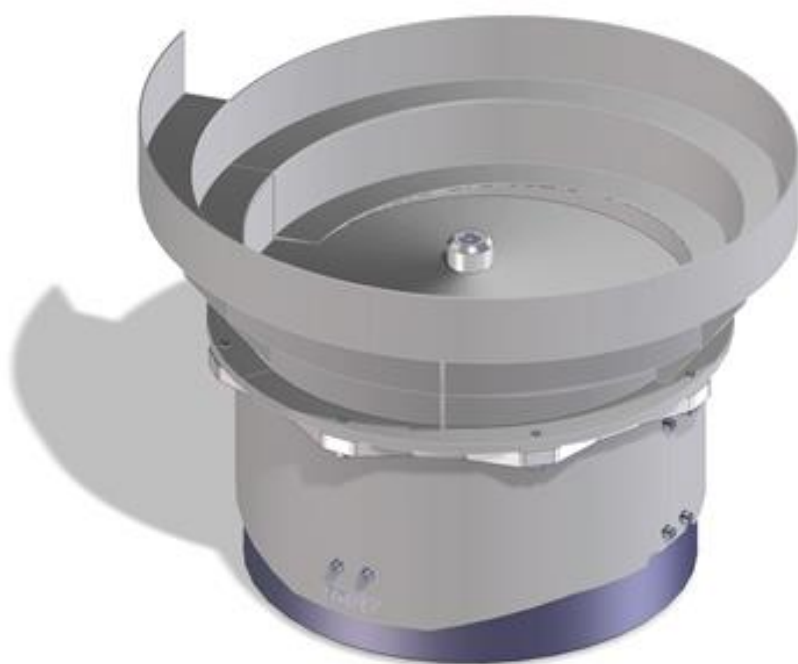
Type	$\varnothing A$	$\varnothing B$	$\varnothing C$	$\varnothing MAX$	RAGGI O	H1	H2	H3	H4	P	L	PESO KG.	PIEDINI N.	CONSUMO 220v. (A)
S3 200	$\varnothing 170$	$\varnothing 200$	$\varnothing 200$	250	125	185 mm.	275	20 mm.	90	35	20	19,5	$\varnothing 30$ 3 a 120° M6	2
S7 280	$\varnothing 230$	$\varnothing 280$	$\varnothing 280$	380	190	230 mm.	350	10 mm.	120	45	30	51	$\varnothing 30$ 3 a 120° M8	2.5
S3 350	$\varnothing 280$	$\varnothing 360$	$\varnothing 371$	470	235	242 mm.	397	10 mm.	155	55	35	122	$\varnothing 40$ 4 a 90° M8	4
S3 4002	$\varnothing 324$	$\varnothing 400$	$\varnothing 415$	580	290	242 mm.	454	10 mm.	212	65	45	118	$\varnothing 40$ 4 a 90° M8	4
S7 500	$\varnothing 424$	$\varnothing 500$	$\varnothing 515$	700	380	300 mm.	510	15 mm.	210	80	50	186	$\varnothing 60$ 4 a 90° M10	4

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S7 630	Ø540	Ø630	Ø640	950	475	306 mm.	626	20 mm.	320	100	90	280	Ø 70 4 α 90° M10	6
S7 800	Ø700	Ø800	Ø815	1200	600	325 mm.	670	20 mm.	345	120	80	493	Ø70 8 α 45° M10	8



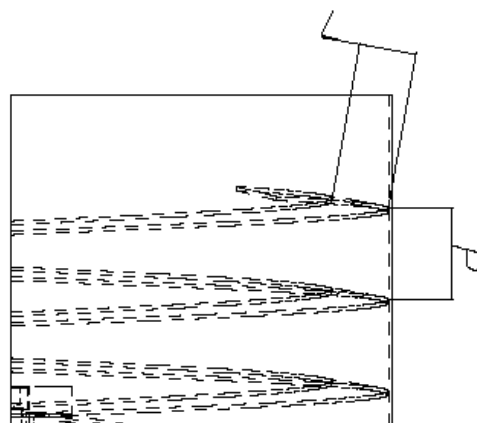
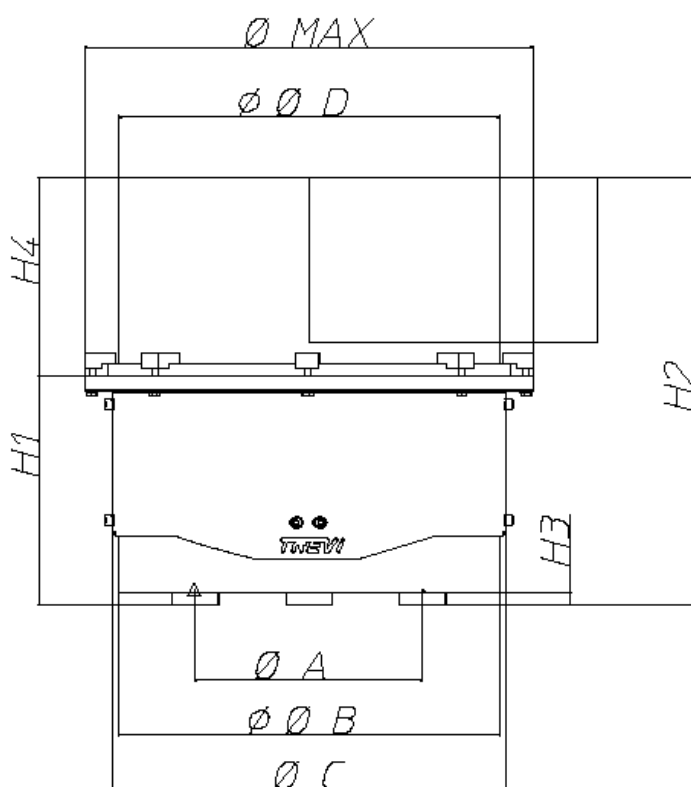
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**VIBRATORE CIRCOLARE**

**CONTENTORE CILINDRICO**



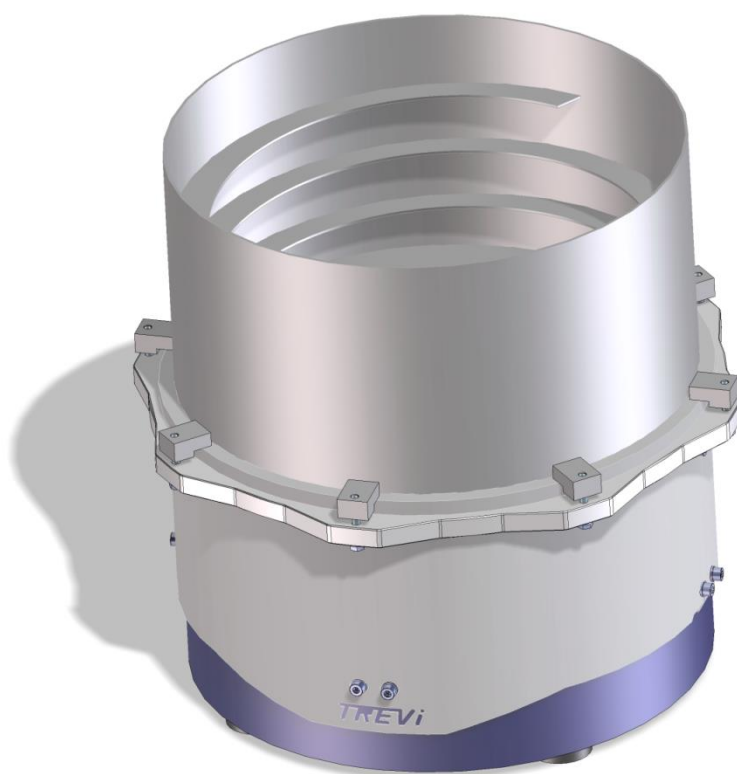
Type	Ø A	Ø B	Ø C	Ø MAX	RAGGIO	H1	H2	H3	H4	P	L	PESO KG.	PIEDINI N.	CONSUMO 220v. (A)
<b>S3</b>	Ø170	Ø200	Ø200	250	125	185 mm.	265	20 mm.	80	30	15	19,5	Ø30 3a 120° M6	2
<b>200</b>														
<b>S7</b>	Ø230	Ø280	Ø280	320	160	230 mm.	350	10 mm.	120	40	20	51	Ø30 3a 120°	2,5

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280													M8	
S3	Ø280	Ø360	Ø371	350	175	242 mm.	482	10 mm.	240	60	25	122	Ø 40 4 α 90° M8	4
350														
S3	Ø324	Ø400	Ø415	400	200	242 mm.	502	10 mm.	260	65	30	118	Ø 40 4 α 90° M8	4
4002														
S7	Ø424	Ø500	Ø515	500	250	300 mm.	600	15 mm.	300	70	35	186	Ø 60 4 α 90° M10	4
500														
S7	Ø540	Ø630	Ø640	630	315	306 mm.	626	20 mm.	320	80	50	280	Ø 70 4 α 90° M10	6
630														
S7	Ø700	Ø800	Ø815	800	400	325 mm.	775	20 mm.	450	90	70	493	Ø70 8 α 45° M10	8
800														

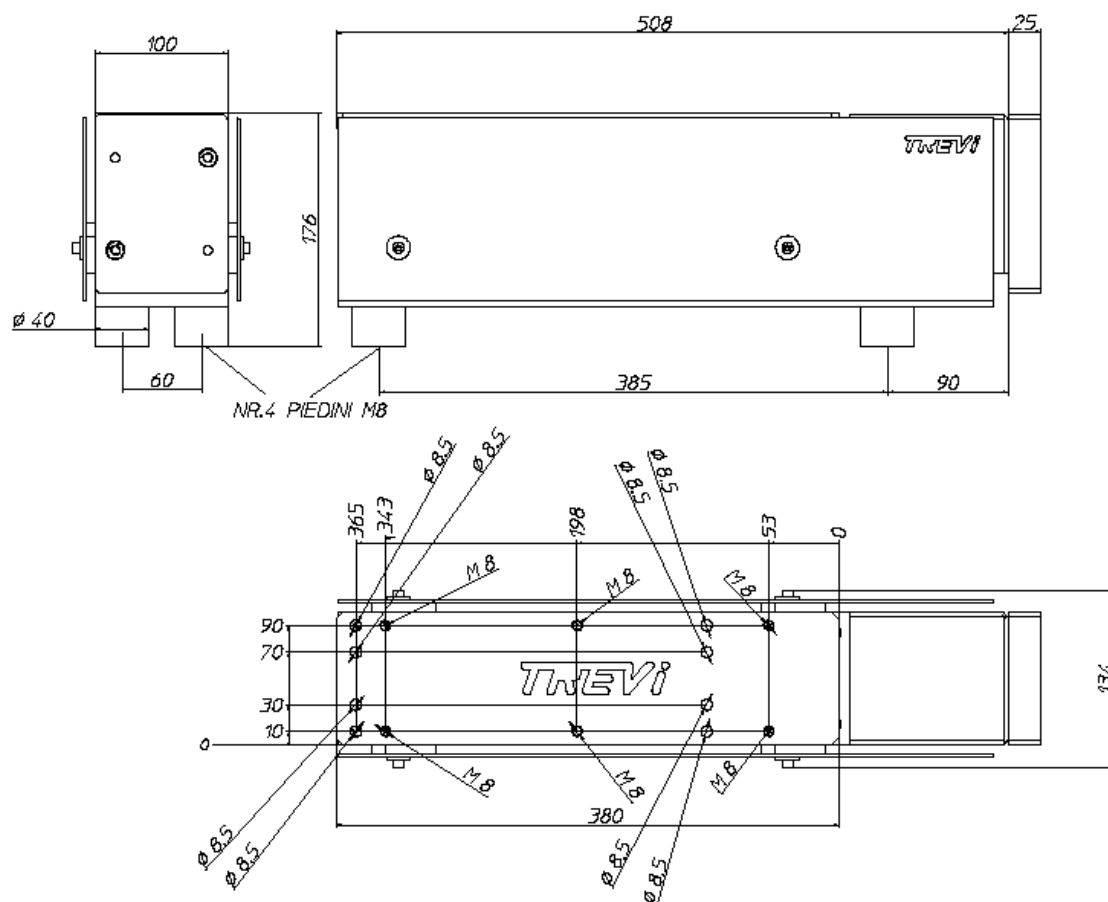


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**VH-401/A LINEAR FEEDER MODEL**



Model	WORKING FREQUENCY	CONSUMPTION 220v. (A)	GENARL WEIGHT KG.	CANAL WEIGHT KG.	CANAL LENGTH
VH 401/A	220 V. 50 Hz.	1,5	30 KG.	15 KG. MAX	1000 1150 MAX

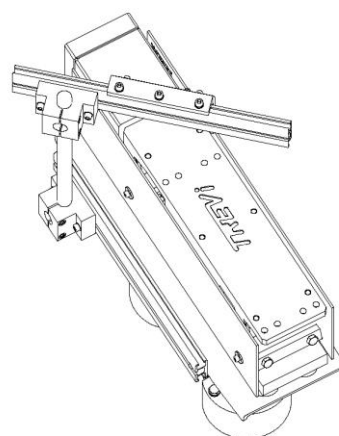
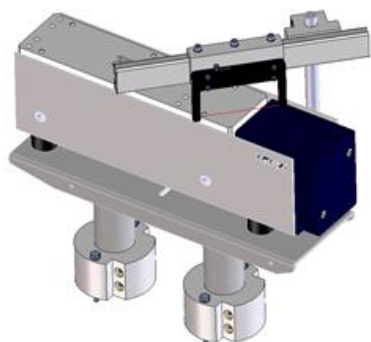
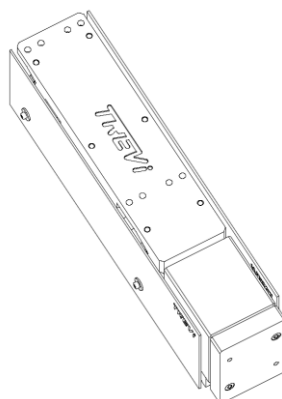
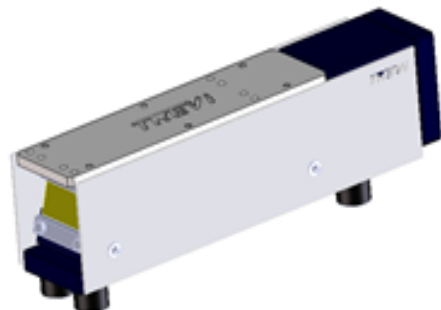
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**VH-401/A LINEAR FEEDER MODEL**

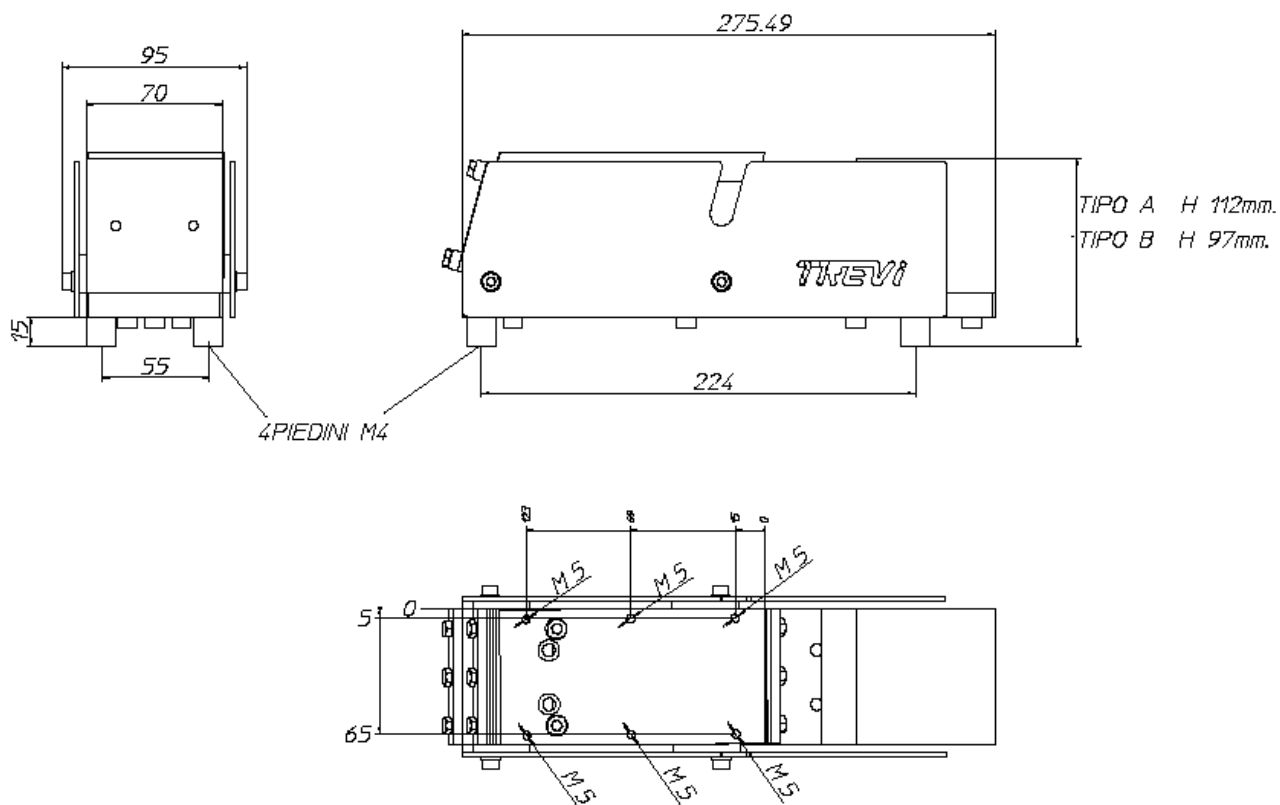


*VH series linear feeders are studied for conveying, handling and accumulation of a wide range of products. They have an electromagnetic vibrating base and their own controller. Accumulation canal is studied case by case to guarantee maximum reliability. If requested, empty and full detector will be provided to synchronize linear feeder with the orientator.*

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**VH-201/A AND VH-201/B LINEAR FEEDER MODEL**



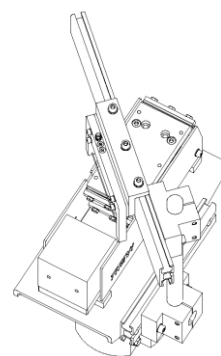
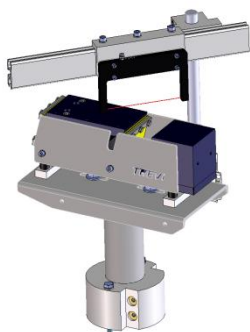
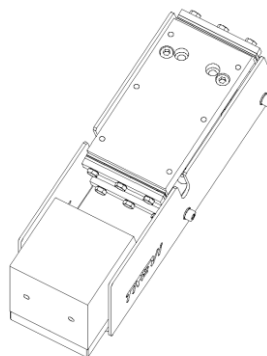
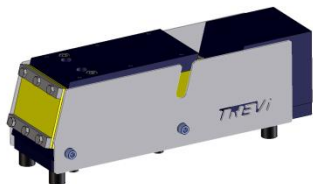
Type	WORKING FREQUENCY	CONSUMPTION 220v. (A)	GENERAL WEIGHT KG.	CANAL WEIGHT KG.	CANAL LENGTH
VH 201/A	220 V. 50 Hz. 100 Hz.	1,2	6 KG.	7 KG. MAX	500

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**VH-401/A LINEAR FEEDER MODEL**

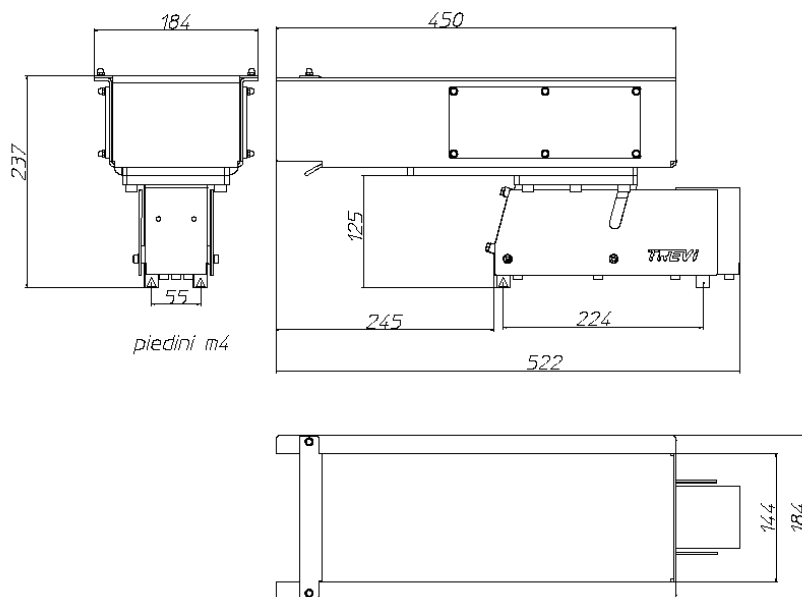


*VH series linear feeders are studied for conveying, handling and accumulation of various kinds of products. They have an electromagnetic vibrating base and their own controller. Accumulation canal is studied case by case to guarantee maximum reliability. If requested, empty and full detector will be provided to synchronize linear feeder with the orientator.*

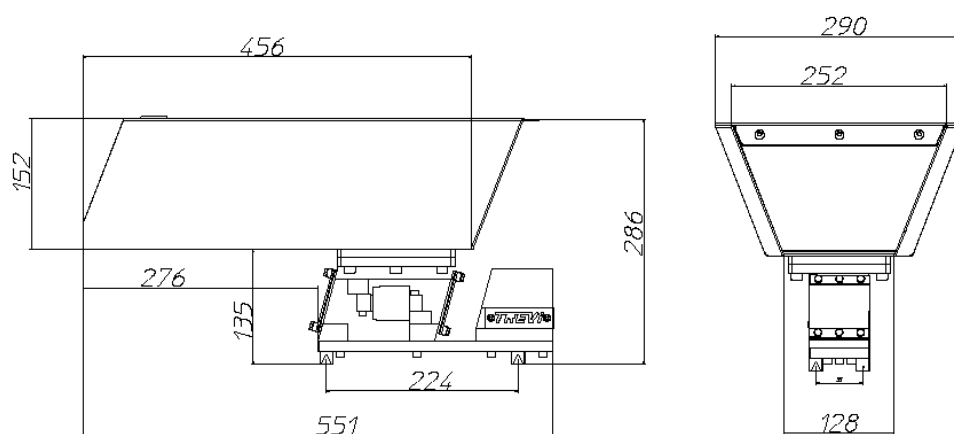
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**VK-205 MODEL OPEN CANAL VIBRATING HOPPER**



**VK-210 MODEL OPEN CANAL VIBRATING HOP**



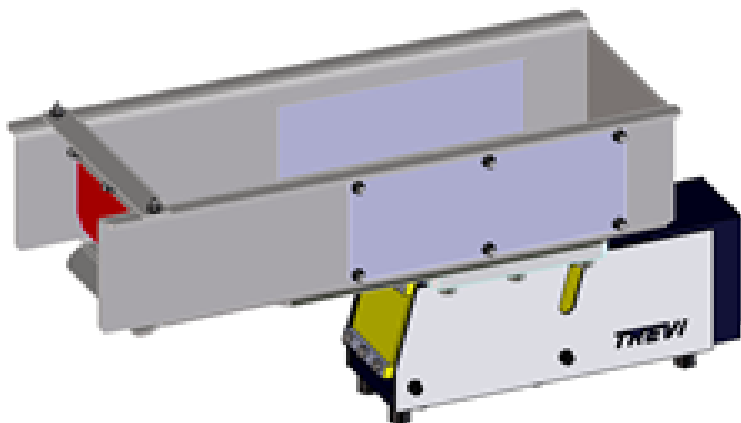
Type	WORKING FREQUENCY	CONSUMPTION 220v. (A)	CAPACITY
VK 205	220 V. 50 Hz.	1,2	5 LTS
VK210	220 V.50 Hz.	1,2	10 LTS

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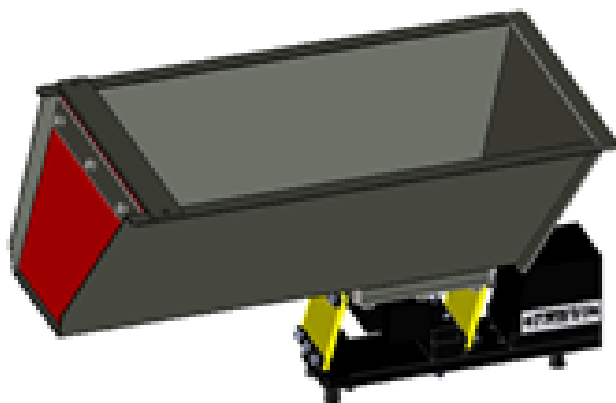
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**VK-205 MODEL OPEN CANAL VIBRATING HOPPER**



**VK-210 MODEL OPEN CANAL VIBRATING HOPPER**

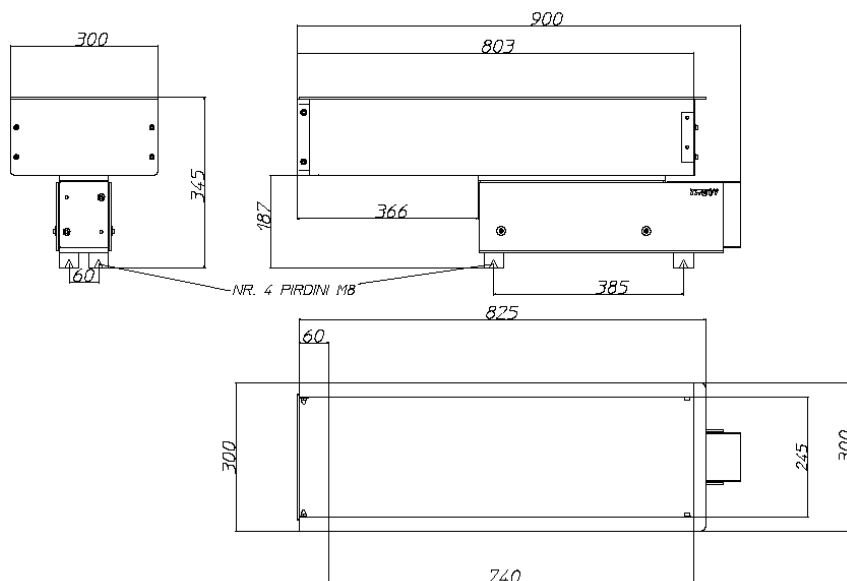


*VK hoppers are suitable for feeding and dosing small dimensions parts. They are driven by vibrating linear base which model can vary on the basis of hopper dimension.*

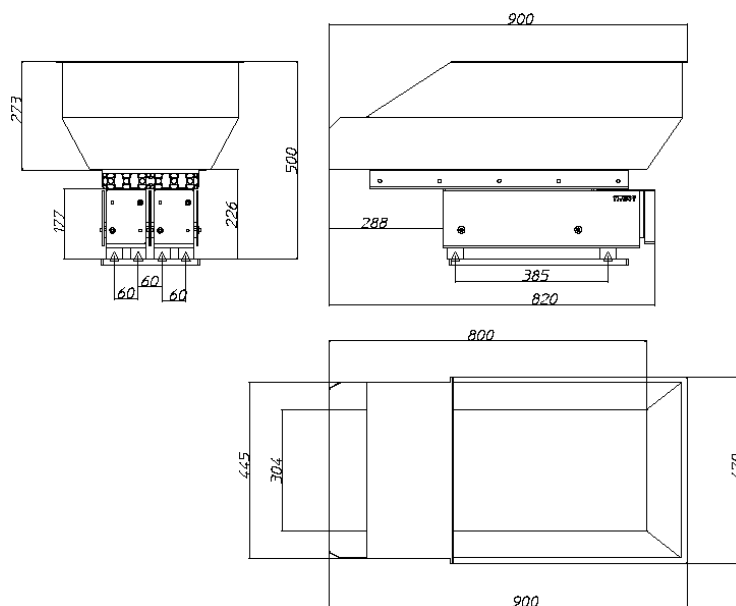
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### VK-420 MODEL OPEN CANAL VIBRATING HOPPER



### VK-430 MODEL OPEN CANAL VIBRATING HOPPER



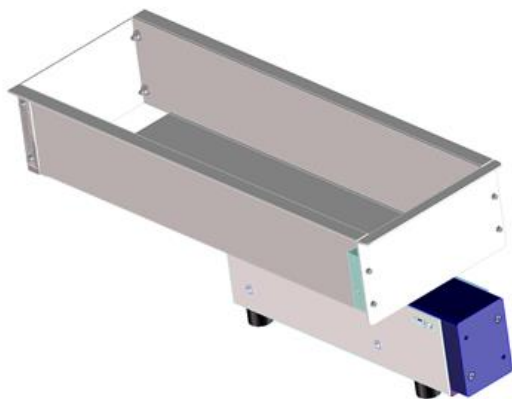
Type	WORKING FREQUENCY	CONSUMPTION 220v. (A)	CAPACITY
VK 420	220 V. 50 Hz.	1,5	20 LTS
VK 430	220 V. 50 Hz.	3	30 LTS

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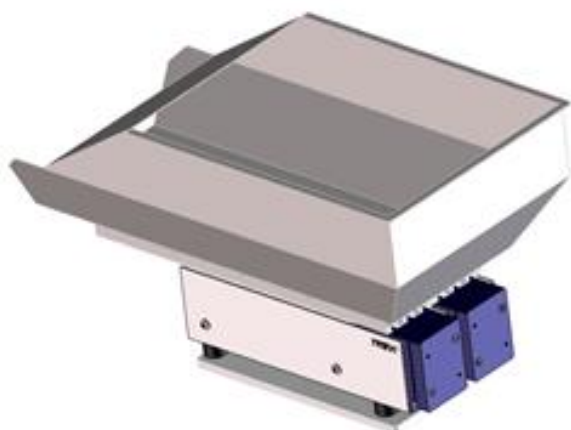
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**VK-420 MODEL OPEN CANAL VIBRATING HOPPER**



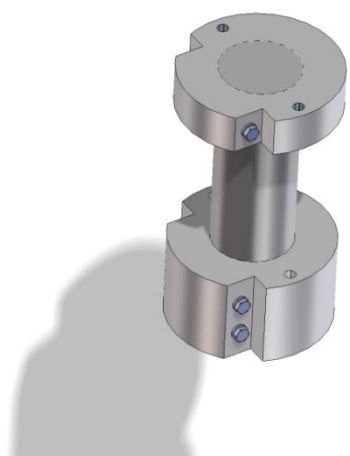
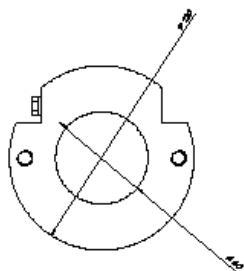
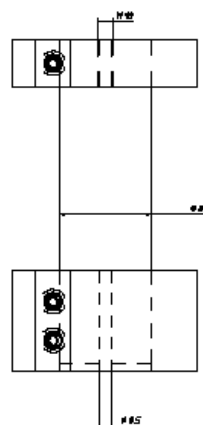
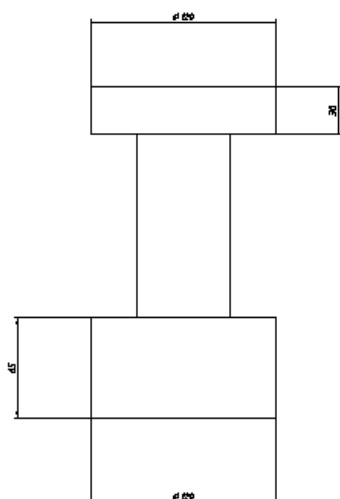
**VK-430 MODEL OPEN CANAL VIBRATING HOPPER**



*VK hoppers are suitable for feeding and dosing small dimensions parts. They are driven by vibrating linear base which model can vary on the basis of hopper dimension.*

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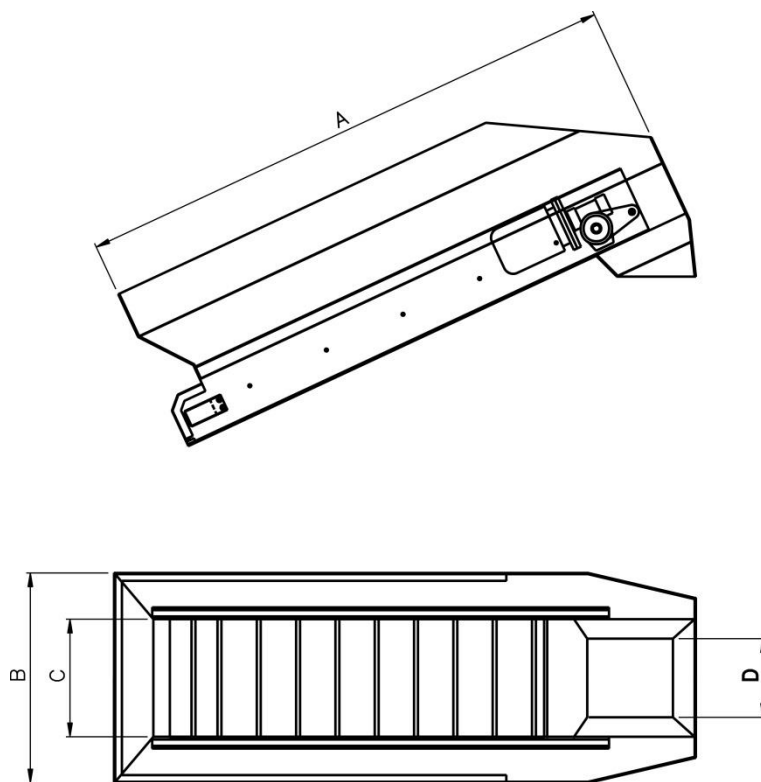
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## MOTORIZED HOPPERS



TYPE	A	B	C	D	Weight	Capacity
TRM 50	1000	500	200	150	50	50 dm <sup>3</sup>
TRM 100	1300	600	300	250	80	100 dm <sup>3</sup>
TRM 150	1700	700	400	350	100	150 dm <sup>3</sup>

For applications which demands very high capacity, conveying motorized hoppers are suitable. These products can feed bulk goods which could become knotted each other.

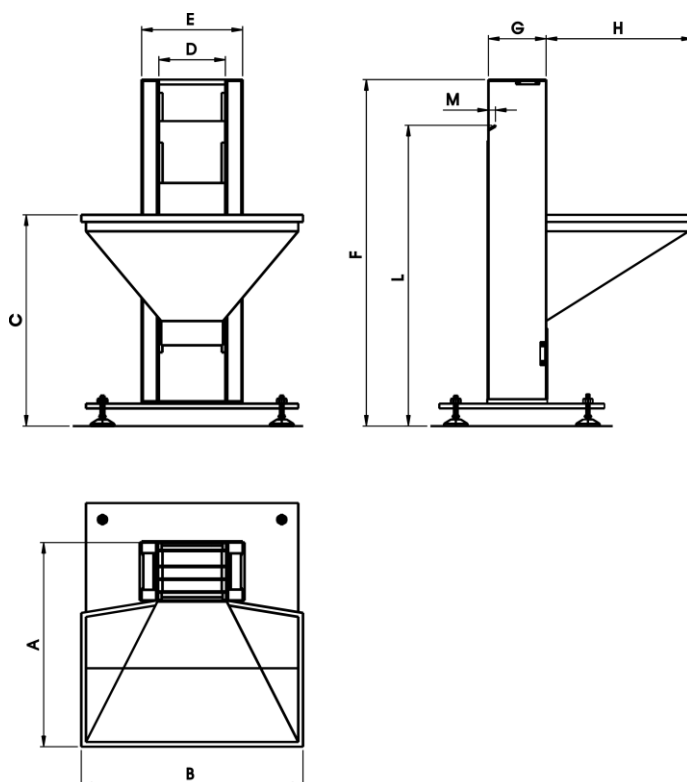
They are provided with support feet on the ground or on a frame, they have an inclination with an angle from 0 to 25 degrees. Carpet type has dimensions on the basis of fed pieces and inclination, to guarantee payload.

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## PLATE STEP FEEDER



MODEL	A	B	C	D	E	F	G	H	L	M	Capacity
EMP 150	420	530	900	150	300	1100	120	300	1050	15	20 dm <sup>3</sup>
EMP 200	865	940	900	280	450	1500	245	600	1280	30	100 dm <sup>3</sup>
EMP 300	1250	1100	930	385	580	1500	360	700	1300	50	140 dm <sup>3</sup>
EMP 400	1500	1300	1050	500	750	1700	485	800	1450	70	200 dm <sup>3</sup>

EMP series mobile plates step feeder has advantages for small applications and dimensions . It could be use with a wide range of pieces. Mechanical reliability and anti-wear treatment guarantee a long-term duration of the product.

Step feeder, matched with one or two linear feeders, let selection of pieces and automatic recirculation of pieces on the hopper. This one is provided with dimensions on the table below, but this could be provided with customized measures, if demanded, to guarantee a larger capacity.

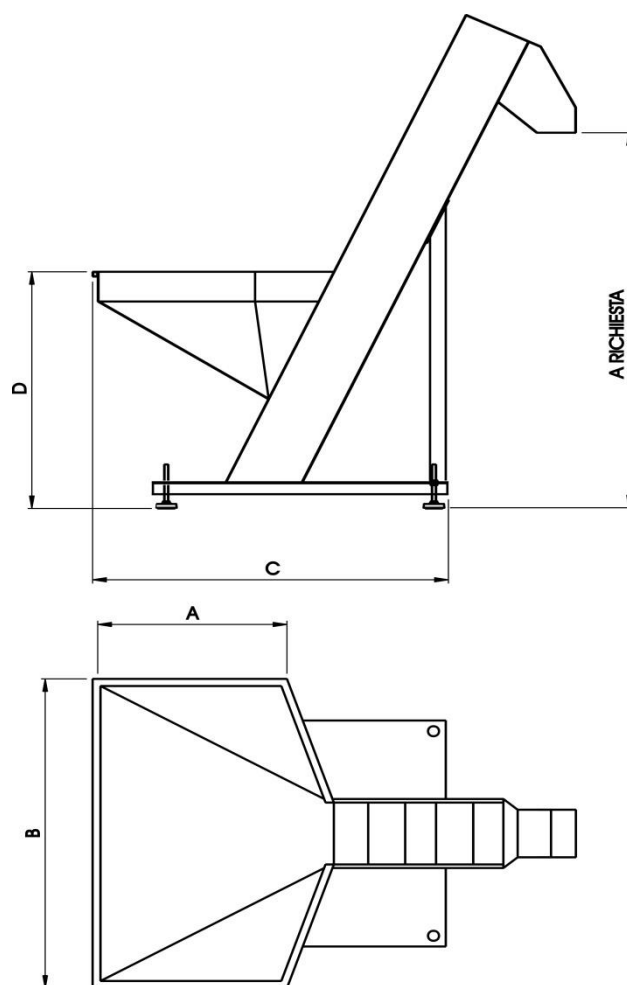
If requested, step feeder will be provided with stainless steel hopper and with empty pieces detector.

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# CONVEYOR MOTORISED STEP FEEDER



MODELLO	A	B	C	D	Capacity
EMT- 80	550	725	850	800	100 dm <sup>3</sup>
EMT-120	650	800	980	900	140 dm <sup>3</sup>
EMT-150	700	900	1500	950	280 dm <sup>3</sup>

Conveyor step feeders are used for applications which demands high-capacity hopper and lifting height higher than 1500 mms. They can feed bulk material which risks tangling each other. They are provided with feet or on a frame, they have an inclination which can have an angle from 0 to 25 degrees.

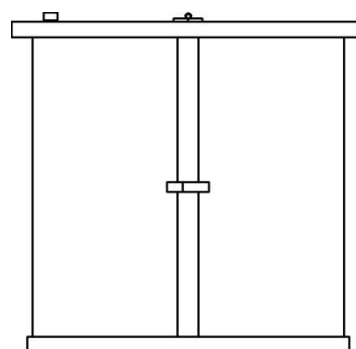
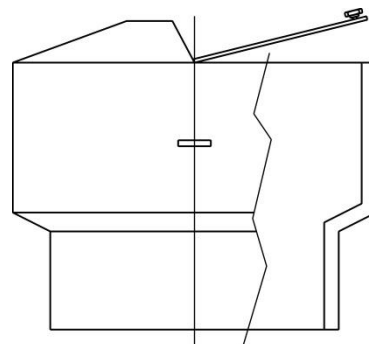
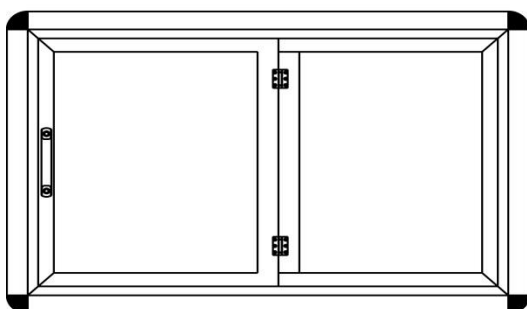
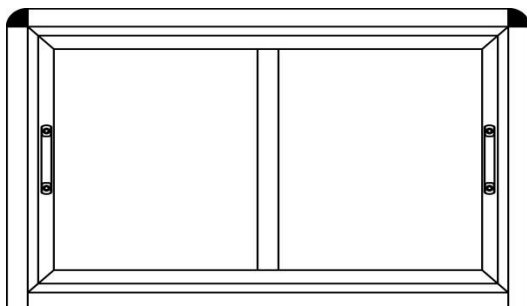
Carpet type is customized on the basis of fed pieces or on the basis of the inclination, to guarantee demanded capacity. If requested, they are provided in stainless steel and they can have hopper empty pieces detector.

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## SOUNDPROOF COVER



Soundproof covers are used to reduce noise and as protection against injuries. They are projected case by case on the basis of equipment inside it.

They have sliding doors, opening panel or removable panel which let inside parts accessible without injury risks. If it's possible to avoid risks, safety closures and detectors will stop the machine when panels are open. Usually, they are made of aluminium structure and transparent lexan panels. In case of high noise, panels will be covered by soundproof material.

Cylindrical soundproof cover, because of lexan panel and soundproof material, can contain calliper. They still have a good accessibility using an upper opening. This one can be easily assembly or disassembly using ratchet closures.

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Reovib MFS series (constant flow with mechanical drivers — MFS 168, MFS 258, MFS 268, MFS 268 DP, MFR 330) Frequency converter with oscillating conveyors generates, regardless of amplitude or supply voltage frequency, a highly stable sorting voltage with amplitude and frequency value set separately. Output current wave is sinusoidal, conveyor functioning is well-balanced. It reduces noise level and increases orientation capacity.

Capacity reference is set with display and keys, voltage or control current (PLC), external potentiometer. Frequency and other settings are set outside, in option with RS232 interface or PROFIBUS-DP.

PROFIBUS-DP (12 M Baud) gets signal cyclical transfer, in the form of data, amid different units. In normal functioning, PLC provides capacity reference value and it receives service ready status or anomaly presence. In a second functioning way, unit is configured with parameters direct settings. For export market, UL certificate products are available.

Frequency value can coincide exactly, with 0,1 Hz intervals in 5 Hz fields...150 Hz, with desired oscillation mechanical frequency value of the conveyor (resonance frequency+/- desired gap). This electrical alignment replaces the expensive mechanical alignment to mains frequency (construction with leaf springs or standard components).

While standard accelerometer works, resonance frequency automatic research will be turned on (viewed value on display). Capacity keeps constant with extremely variable loads and system works efficiently with this particular frequency (power, taken by power grid, is reduced, controller output to the entire system can be adjusted setting adjuster parameters). Tracking resonance frequency function offsets, during the time, slow changes due to mechanical component deterioration.

Accumulation line control, with inverter function. Starting up delay, stop timing, programmable starts up. Two-speed working. Alarm light control. Air valve control. Power-grid fluctuation compensation with internal circuit of adjustment. Automatic voltage adjustment.

#### 4 Storable Format change menus (production change)

During functioning, display views capacity value or it signals stop source. Flashing segments provide, on the basis of system settings, important informations about necessary parameters adjustment to adopt. Eventual anomalies as accelerometer damage, overload, overvoltage and time-out, are signalled.

Program codes save settings about starting up, default settings and it avoids not authorized or not wanted parameter changes.

Units create a controlled harmonic motion when oscillating frequency has been kept at resonance point and oscillating amplitude has been kept constant.

Protection grade IP20 and IP 54.

- Functions are available on the basis of the product -

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Settings Precision, repeatability, protection  
MTS 440, MTS 441, MTS 442, MTS 445

### REOVIB MTS series

One-channel and two-channel units with aluminium profile cover. Led diode, program keys, power-grid interruption, externally removable fuse, power cord, detector socket, magnets and signals.

System core is a microprocessor which has all control functions. Capacity reference is set by keys and display. In the same way, all other parameters are set.

Functioning way selection, parameters complete availability, consistency and functioning programmability, electrical standard interface with outside, IP54 strong protection grade, signals availability to have more complex systems make this equipment a valuable substitute to electrical panel in the applications.

Power-grid fluctuations are offset by an adjustment internal circuit and they don't have any influence on the conveyor capacity.

Voltage is self-adjusting and it must not be selected by the operator.

Accumulation line control, with inverting detector. Starting up delay and stop with adjustable times and starts. Two-speed functioning to respond, for example, to a contact, in weighing system, to avoid excessive fillings.

Intermittent functioning to avoid pieces jam. Pieces absence detector alarm. Air valve detector with advance starting and delaying switching off.

Input and sorting status for external inter-blocking (internal for two-channel unit) and upper level connection.

During normal working, display shows capacity reference value or it shows stop source (keyboard, detector). A flashing light shows the flow of time.

Two-colours ON/OFF keys on the display stop rapidly and activate the device, without disconnecting from the power grid.

Signal status rests the same and a new starting procedure is not necessary.

Program codes can save starting procedure settings, can restore default settings and they can hide program menu to avoid not authorized or unintentional accesses.

Unit are suitable for vibrating conveyor with swinging mechanical frequency equal to 3000 osc/ min (50 Hz) or to 6000 osc/min (100 Hz) or to 3600 osc/min (60 Hz) or to 7200 osc/min (120 Hz) to corresponding mains frequency.



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#### REOVIB Smart IP54

Strong cover in aluminium profile, voltage change, sorting cable. Frequency 3000/6000 osc/min to 50 Hz, 3600/7200 osc./min. to 60 Hz. Potentiometer, control voltage 0-10 V, control current 0-20 mA. Soft starter and enabling input.

Simple e reliable for open-field using  
SMART IP 54

Constant capacity with swinging power grid.



#### REOVIB R6 series

Stabilized against voltage change. Sturdy cover in aluminium profile, cable and sorting socket. Accumulation line amplitude control of integrated oscillation (in corresponding versions). IP 54 protection grade. Small dimensions for electrical panel controlled by Plc

R6/439, R56/439-459, RSL6/439-459, RSLB6/439-459, R6/647



#### REOVIB Smart IP20

Metal case, in the shape of a book, connection clamps, trimmer and switch in frontal position (voltage change inside). Frequency 3000/6000 oscillations par minute 50 Hz, 3600/7200 oscillations par minute 60 Hz. Potentiometer, voltage control 0-10V, control current 0-20 mA. Soft starter and enabling output.

SMART IP 20

To assembly on DIN guide  
513, 514, 509



#### REOVIB System 500

Stabilized against voltage change. Small cover in plastic material with protected clamps form contacts (IP-20). Assembly on DIN guide. External potentiometer, voltage control 0-10V, control current 0-20 mA. Two enabling input. 6A and 15A versions. Timer for Namurr detectors.

Constant capacity with variable loads

R15/469, R25/499



#### REOVIB series R15/ R25

With the help of an accelerometer (5W-10), they compensate fluctuations amplitude variations due to, for example, load variations or mechanical characteristics of oscillating system (thermal drift) . Potentiometer, control voltage 0-10 V, current control 0(4)-20 mA. Soft starter and enabling input. IP00 AND IP54 versions.

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## Measuring apparatus ,monitoring and protection equipment

### Mechanical fluctuation detection

SW 06, SW 07, SW 08, SW 10, SW 11



#### REOVIB, SW series

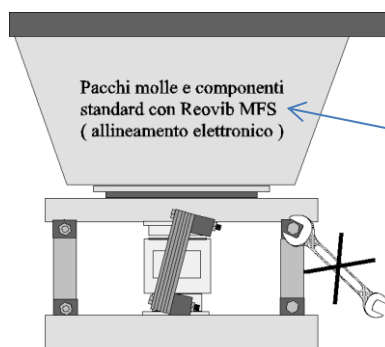
SW-70 accelerometers are acceleration transducer which detect and measure low-frequency mechanical fluctuations. They are used together with REOVIB R15/25, MFS and BK series, to implement functions like conveyor capacity handling, mechanical frequency resonance detection, machinery monitoring and protection.

They have a piezo-electric element and a cascade amplifier incorporated into a resin block inside a strong aluminium die-cast case. Connection with a quadrupole shielded cable. They are  $\pm 12 \div 15V$ , DC powered and with fluctuations 2-200 Hz, they provide 400 mV for g in a measuring range 0-20g. If output signal must be transmitted on very long paths, VUI measure converter will be used. These devices power accelerometer and treat the signal they have generated.

If it must do a signal adjustment, for example in case of low acceleration values, VUI devices will be used as amplifier elements. If it must convert voltage signal to current signal to minimize, for example, bugs, converters will be set to generate a current signal 0(4)...20 mA. If current signal trend must keep unchanged, an artificial zero will be generated around which fluctuation is produced. VUI devices are suitable for open field use. They have an aluminium die-cast case with a protection grade up to IP 64.

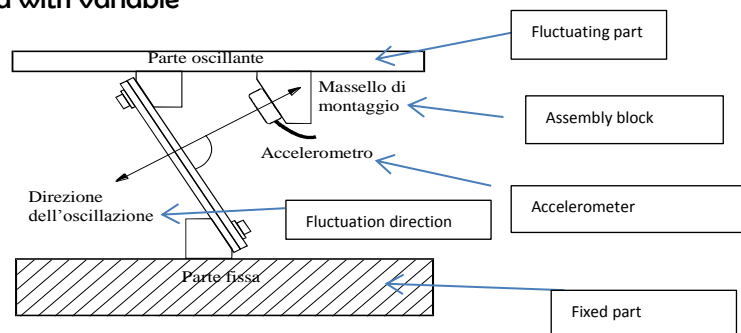


To avoid mechanical alignment, accelerometer is not necessary.



Leaf springs and standard components for Reovib MFS (electronical alignment)

### Constant capacity with mechanical deterioration and with variable

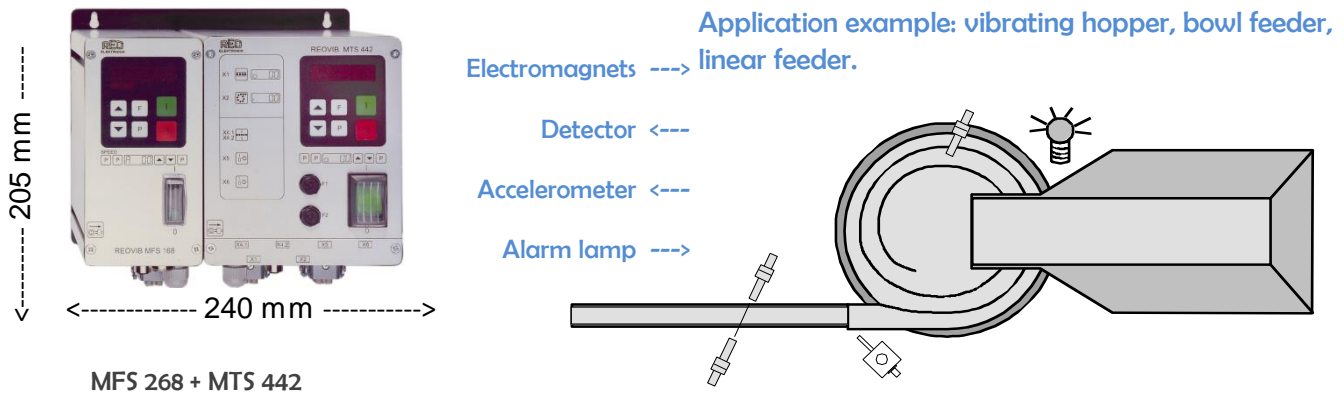


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## Complete and strong electrical panel for feeding groups



### Our products characteristics.

- |                      |                 |                        |                      |
|----------------------|-----------------|------------------------|----------------------|
| • Flexibility of use | • Composability | • Simplicity of use    | • UL Certification   |
| • Versatility        | • Firmness      | • Diagnostics          | • Traceability       |
| • Completeness       | • Integration   | • Protection           | • Personalization    |
| • Functionality      | • Strength      | • Industrial standards | • Documentation      |
| • Modularity         | • Reliability   | • CE Certification     | • Stock and services |

### For machinery and plant manufacturer.

- Reduction plant manufacturing time and costs, stock reduction.
- Reduction of delivery time and plant start up, especially in 60 Hz network countries.

### For end user

- Productivity increase and plant availability.
- Machinery maintenance costs reduction
- Finished product quality increase



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