
ISAM

Dal 1994 abbiamo sempre cercato di migliorare la nostra competenza in termini di prodotto, servizio e soluzioni tecniche, per assicurarci una clientela fidelizzata e soddisfatta. Continueremo su questa strada …

Since 1994 we have been growing our product, service and technical competence, in order to gain customers' fidelity and satisfaction. This will continue...

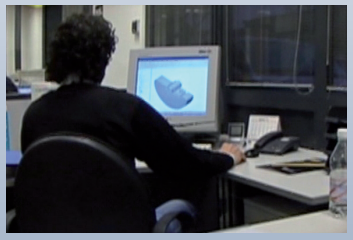
# L'AZIENDA
# THE COMPANY

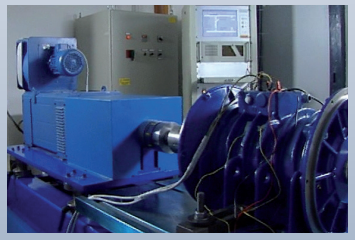
Dal 1994 VISAM si dedica alla progettazione, fabbricazione e commercializzazione di vibratori elettrici per applicazioni industriali. Fin dall'inizio il nostro obiettivo è stato proporre al mercato un prodotto adatto alle applicazioni più impegnative, che richiedono prestazioni elevate ed affidabilità. Per questo l'attenzione si è concentrata sulla qualità dei materiali e componenti utilizzati, su accuratezza e precisione dei processi di lavorazione e di finitura, nonché sui molteplici controlli, dalle materie prime fino al collaudo del prodotto finito. Grazie a tutto ciò VISAM è oggi riconosciuta tra i costruttori leader nel mercato dei vibratori elettrici, potendo vantare una presenza su tutti i maggiori mercati mondiali, grazie all'esportazione di oltre l'80% della sua produzione.

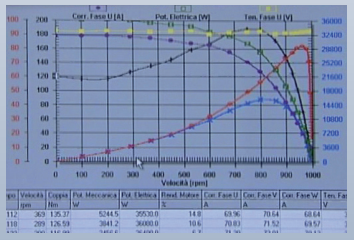
Since 1994, VISAM is dedicated to the design, manufacture and marketing of electric vibrators for industrial applications. Since the beginning our goal has been offering to the market a product suitable for the most demanding applications, that require high performance and reliability. Therefore, our attention focused on the quality of materials and components, on the accuracy and precision of processing and finishing, and on multiple controls, from raw materials to final testing of the product. Thanks to this, VISAM is today recognized among leader manufacturers of electric vibrators, with broad presence on all major world markets, thanks to exports exceeding 80% of its production.

UFFICIO TECNICO E LABORATORIO R&S

TECHNICAL DEPT AND R&D LABORATORY

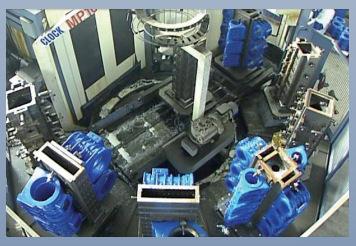


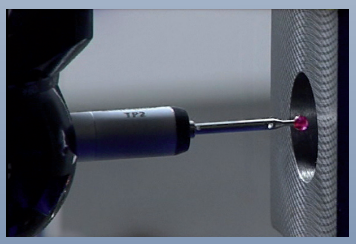




LAVORAZIONI CON CENTRI DI LAVORO A CN E COLLAUDO TRIDIMENSIONALE

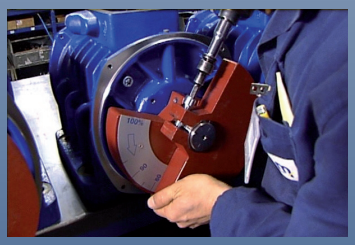
CNC MACHINING AND 3-DIMENSIONAL CONTROL





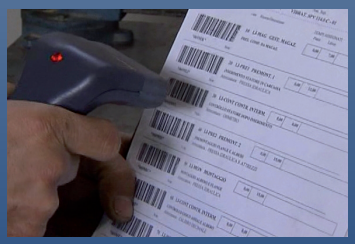
ASSEMBLAGGIO CON PERSONALE SPECIALIZZATO E COLLAUDO DINAMICO FINALE

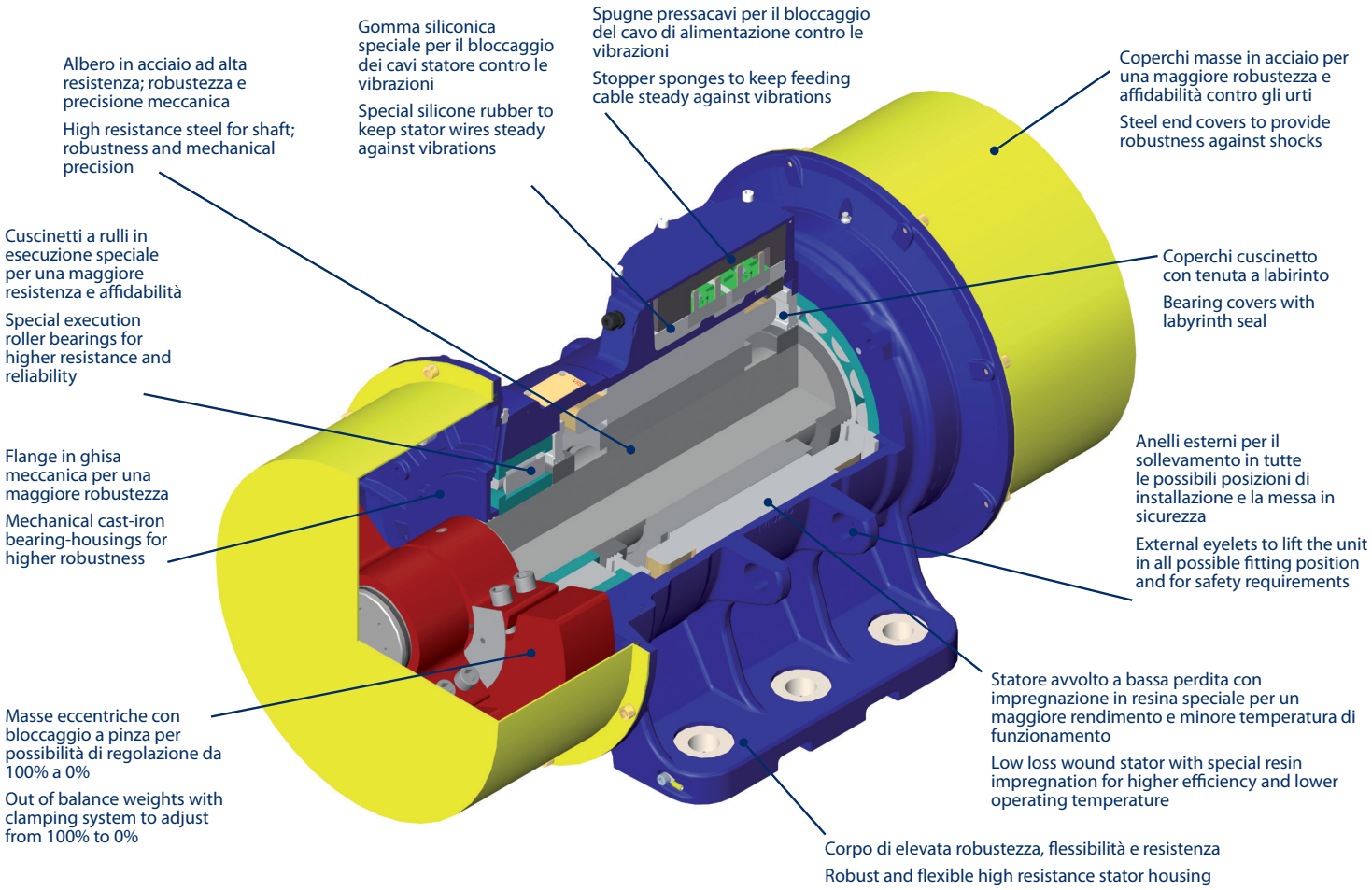
ASSEMBLY BY SKILLED PERSONNEL AND FINAL DYNAMIC TEST




PRODUZIONE, MAGAZZINO E SPEDIZIONI CON GESTIONE A CODICE A BARRE

PRODUCTION, STOCKING AND SHIPPING HANDLED BY BAR-CODE SYSTEM






## CARATTERISTICHE GENERALI

| | |
|---|---|
| Conformità: | Direttive Europee<br>2006/42/CE (Macchine)<br>2006/95/CE (Bassa Tensione)<br>94/9/CE (Atex) |
| Atex: | Gamma conforme a, Ⓔx II 3D (zona 22)<br>• Ex tD A22 IP66 T135°C<br>Possibilità, su richiesta, Ⓔx II 2D (zona 21)<br>• Ex tD A21 IP66 T135°C |
| Alimentazione: | Trifase da 42 a 700 V a 50 e 60 Hz<br>Monofase da 110 a 240 V a 50 e 60 Hz<br>Idonei per un funzionamento mediante "inverter" |
| Esecuzioni: | 2, 4, 6, 8, 10, 12 poli e speciali |
| Forza Centrifuga: | Da 50 a 25.000 Kg<br>Regolazione da 100% a 0% in modo continuo<br>(fornitura standard: regolazione all'80%) |
| Servizio: | Continuativo alla massima Forza Centrifuga (S1) |
| Protezione Meccanica: | IP 66.7 (EN60529) |
| Classe Isolamento: | F standard • H a richiesta |
| Tropicalizzazione: | Standard |
| Lubrificazione: | A Vita fino alla grandezza 4<br>Long Life dalla grandezza 4.1 a crescere |
| Temperatura Ambiente di Lavoro: | Da –20° a +40° C |
| Protezione Termica: | Standard (termistore 130° C) dalla grandezza 10<br>A richiesta sino alla grandezza 9 |
| Posizione di Installazione: | Tutte le posizioni |
| Finitura: | Verniciatura a polvere blu RAL 5010 / giallo RAL 1003 |
| Collaudo: | Tutte le unità sono sottoposte ad un test dinamico di funzionamento (complete di masse) |

## GENERAL FEATURES

| | |
|---|---|
| Conformity: | European Directives<br>2006/42/CE (Machine)<br>2006/95/CE (Low Woltage)<br>94/9/CE (Atex) |
| Atex: | Range suitable for, Ⓔx II 3D (zone 22)<br>• Ex tD A22 IP66 T135°C<br>Availability, on request, Ⓔx II 2D (zone 21)<br>• Ex tD A21 IP66 T135°C |
| Feeding: | Three-phase from 42 up to 700 V at 50 and 60 Hz<br>Single-phase from 110 up to 240 V at 50 and 60 Hz<br>Perfect performance under inverter control (VFD) |
| Executions: | 2, 4, 6, 8, 10, 12 poles & specials |
| Centrifugal Force: | From 50 up to 25.000 Kg<br>Continuous adjusting from 100% a 0%<br>(standard supply: setting at 80%) |
| Duty: | Heavy and continuous at maximum Centrifugal Force (S1) |
| Mechanical Protection: | IP 66.7 (EN60529) |
| Insulation Class: | F standard • H on request |
| Tropicalization: | Standard |
| Lubrication: | For Life up to size 4<br>Long Life from size 4.1 upwards |
| Ambient Temperature Range: | From –20° up to +40° C |
| Thermal Protection: | Standard (thermistor 130° C) from size 10<br>Up to size 9 on request |
| Mounting Configuration: | Any position |
| Finish: | Powder coated blue RAL 5010 / yellow RAL 1003 |
| Testing: | All units undergo a dynamic test-run (with unbalanced weights) before leaving the factory |

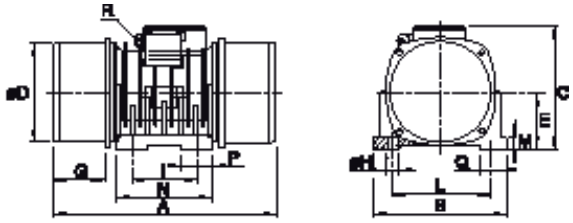
# SPV / SPX serie series 2 poli poles 3000 rpm 50 Hz

## MONOFASE • SINGLE-PHASE

Alimentazione Standard • Standard Supply

220-240 V (...AM)*
110-120 V (...AN)*
Altre a richiesta • Other on request

Fig. 1 • Fig. 1




| DATI GENERALI GENERAL DATA | | | DATI MECCANICI MECHANICAL DATA | | | DATI ELETTRICI ELECTRICAL DATA | | | | DATI DIMENSIONALI OVERALL DIMENSIONS | | | | | | | DATI FISSAGGIO FIXING DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Modello Model | Codice Code | Gr. Sz. | SMv Mom. Statico Static Mom. | CFv Forza Centr. Centrif. Force | Wv Peso Weight | Pot. Assorbita Input Power | Corrente Nom. Nom. Current | | Rapporto Ratio | Fig./Fig. | A | B | C | D | E | G | Nr. | H | I | L | M | N | P | Q | R pressacavo clable gland |
| | | | (kg*mm) | (kg) | (kg) | (kW) | | (A) | Is/In | | (mm) | | | | | | | (mm) | | | | | | | |
| **SPV 0.7 AM** | SPV010M00B01AM | 01.0 | **7,5** | **75** | 4,2 | 0,11 | - | 0,5 | 2,0 | 1 | 195 | 128 | 121 | 79 | 45 | 44 | 4 | 9 | 62 | 95-106 | 9 | 100 | 40 | 32 | M16x1,5 |
| **SPV 1.2 AM** | SPV020M01B02AM | 02.0 | **13** | **130** | 4,8 | 0,17 | - | 0,8 | 2,0 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 1.8 AM** | SPV021M01B02AM | 02.1 | **22** | **220** | 5,2 | 0,18 | - | 0,8 | 2,0 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 2.7 AM** | SPV030M03B03AM | 03.0 | **33** | **330** | 9,0 | 0,30 | - | 1,4 | 3,0 | 1 | 262 | 160 | 175 | 126 | 72 | 56 | 4 | 13 | 90 | 125 | 15 | 145 | 55 | 50 | M16x1,5 |
| **SPV 4.5 AM** | SPV040M01B04AM | 04.0 | **50** | **500** | 15,5 | 0,50 | - | 2,5 | 3,0 | 1 | 292 | 194 | 204 | 148 | 86 | 44 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 7.0 AM** | SPV050M01B05AM | 05.0 | **80** | **800** | 20,5 | 0,65 | - | 3,5 | 4,0 | 1 | 336 | 220 | 213 | 168 | 96 | 54 | 4 | 17 | 115 | 170 | 20 | 200 | 65 | 50 | M20x1,5 |
| **SPV 9.0 AM** | SPV060M05B06AM | 06.0 | **100** | **1.000** | 27,0 | 0,85 | - | 4,0 | 4,0 | 1 | 366 | 225 | 233 | 187 | 105 | 62 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 12.0 AM** | SPV061M04B06AM | 06.1 | **130** | **1.350** | 28,0 | 0,95 | - | 4,6 | 4,0 | 1 | 366 | 225 | 233 | 187 | 105 | 62 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |

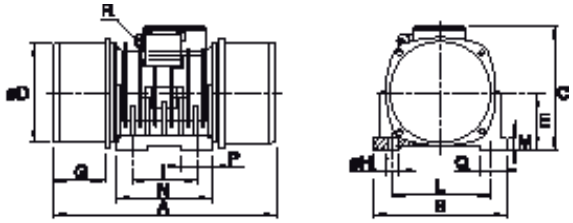
# SPV / SPX serie series 2 poli poles 3600 rpm 60 Hz

## MONOFASE • SINGLE-PHASE

Alimentazione Standard • Standard Supply

110-120 V (...BN)*
220-240 V (...BM)*
Altre a richiesta • Other on request

Fig. 1 • Fig. 1



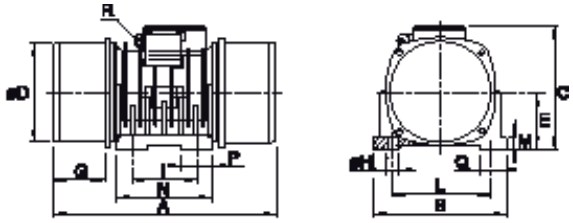

| DATI GENERALI GENERAL DATA | | | DATI MECCANICI MECHANICAL DATA | | | DATI ELETTRICI ELECTRICAL DATA | | | | DATI DIMENSIONALI OVERALL DIMENSIONS | | | | | | | DATI FISSAGGIO FIXING DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Modello Model | Codice Code | Gr. Sz. | SMv Mom. Statico Static Mom. | CFv Forza Centr. Centrif. Force | Wv Peso Weight | Pot. Assorbita Input Power | Corrente Nom. Nom. Current | | Rapporto Ratio | Fig./Fig. | A | B | C | D | E | G | Nr. | H | I | L | M | N | P | Q | R pressacavo clable gland |
| | | | (kg*mm) | (kg) | (kg) | (kW) | | (A) | Is/In | | (mm) | | | | | | | (mm) | | | | | | | |
| **SPV 0.7 AM** | SPV010M00B01BN | 01.0 | **5,5** | **80** | 4,0 | 0,12 | - | 1,0 | 2,5 | 1 | 195 | 128 | 121 | 79 | 45 | 44 | 4 | 9 | 62 | 95-106 | 9 | 100 | 40 | 32 | M16x1,5 |
| **SPV 1.2 AM** | SPV020M01B02BN | 02.0 | **10** | **145** | 4,6 | 0,18 | - | 1,6 | 2,5 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 1.8 AM** | SPV021M01B02BN | 02.1 | **16** | **230** | 5,0 | 0,19 | - | 1,7 | 2,5 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 2.7 AM** | SPV030M03B03BN | 03.0 | **22** | **320** | 8,5 | 0,33 | - | 3,0 | 3,5 | 1 | 262 | 160 | 175 | 126 | 72 | 56 | 4 | 13 | 90 | 125 | 15 | 145 | 55 | 50 | M16x1,5 |
| **SPV 4.5 AM** | SPV040M01B04BN | 04.0 | **40** | **580** | 15,0 | 0,70 | - | 7,0 | 3,5 | 1 | 292 | 194 | 204 | 148 | 86 | 44 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 7.0 AM** | SPV050M01B05BN | 05.0 | **60** | **870** | 20,0 | 0,80 | - | 7,7 | 4,0 | 1 | 336 | 220 | 213 | 168 | 96 | 54 | 4 | 17 | 115 | 170 | 20 | 200 | 65 | 50 | M20x1,5 |
| **SPV 9.0 AM** | SPV060M05B06BN | 06.0 | **65** | **965** | 25,0 | 0,95 | - | 8,5 | 4,0 | 1 | 366 | 225 | 233 | 187 | 105 | 62 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 12.0 AM** | SPV061M04B06BN | 06.1 | **80** | **1.200** | 27,5 | 1,10 | - | 9,8 | 4,0 | 1 | 366 | 225 | 233 | 187 | 105 | 62 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |

* vedi codice in tabella • see code on table

# SPV / SPX serie series 2 poli poles 3000 rpm 50 Hz

## TRIFASE • THREE-PHASE

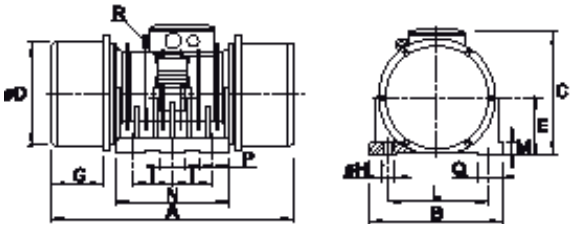
Fig. 1 • Fig. 1




Alimentazione Standard • Standard Supply

Δ 220-240 / Y 380-415 V (...AA)*
Δ 290-305 / Y 500-525 V (...AG)*
Altre a richiesta • Other on request

Fig. 2 • Fig. 2

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Modello Model | Codice Code | Gr. Sz. | SMV Mom. Statico Static Mom. | CFV Forza Centr. Centrif. Force | WV Peso Weight | Pot. Assorbita Input Power | Corrente Nom. Nom. Current | | Rapporto Ratio | Fig./Fig. | A | B | C | D | E | G | Nr. | H | I | L | M | N | P | Q | R pressacavo clable gland ** |
| | | | (kg*mm) | (kg) | (kg) | (kW) | Δ (A) | Y (A) | Is/In | | (mm) | | | | | | (mm) | | | | | | | | |
| **SPV 0.7 A** | SPV010A00B01AA | 01.0 | **7,5** | **75** | 4,2 | 0,14 | 0,5 | 0,3 | 3,0 | 1 | 195 | 128 | 121 | 79 | 45 | 44 | 4 | 9 | 62 | 95-106 | 9 | 100 | 40 | 32 | M16x1,5 |
| **SPV 1.2 A** | SPV020A00B02AA | 02.0 | **13** | **130** | 4,8 | 0,18 | 0,6 | 0,4 | 4,5 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 1.8 A** | SPV021A00B02AA | 02.1 | **22** | **220** | 5,2 | 0,19 | 0,7 | 0,4 | 4,5 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 2.7 A** | SPV030A01B03AA | 03.0 | **33** | **330** | 9,0 | 0,28 | 1,0 | 0,6 | 3,5 | 1 | 262 | 160 | 175 | 126 | 72 | 56 | 4 | 13 | 90 | 125 | 15 | 145 | 55 | 50 | M16x1,5 |
| **SPV 4.5 A** | SPV040A00B04AA | 04.0 | **50** | **500** | 15,5 | 0,51 | 1,7 | 1,0 | 4,0 | 1 | 292 | 194 | 204 | 148 | 86 | 44 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 7.0 A** | SPV050A00B05AA | 05.0 | **80** | **800** | 20,5 | 0,75 | 2,3 | 1,3 | 5,0 | 1 | 336 | 220 | 213 | 168 | 96 | 54 | 4 | 17 | 115 | 170 | 20 | 200 | 65 | 50 | M20x1,5 |
| **SPV 9.0 A** | SPV060A02B06AA | 06.0 | **100** | **1.000** | 27,0 | 1,10 | 3,2 | 1,8 | 5,0 | 1 | 366 | 225 | 233 | 187 | 105 | 62 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 12.0 A** | SPV061A03B06AA | 06.1 | **130** | **1.350** | 28,0 | 1,30 | 3,7 | 2,1 | 5,0 | 1 | 366 | 225 | 233 | 187 | 105 | 62 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 15.0 A** | SPV070A02B07AA | 07.0 | **165** | **1.660** | 33,5 | 1,50 | 4,5 | 2,6 | 6,0 | 1 | 403 | 250 | 246 | 200 | 112 | 75 | 4 | 17 | 150 | 190 | 22 | 220 | 60 | 60 | M20x1,5 |
| **SPX-50 19.0 A** | SPX080A00B08AA | 08.0 | **200** | **2.000** | 46,0 | 1,90 | 5,0 | 2,8 | 6,0 | 1 | 410 | 280 | 258 | 212 | 117 | 74 | 4 | 17 | 160 | 200 | 30 | 260 | 95 | 80 | M20x1,5 |
| **SPX-50 25.0 A** | SPX090A00B09AA | 09.0 | **270** | **2.700** | 61,0 | 2,20 | 6,2 | 3,6 | 6,0 | 1 | 512 | 300 | 280 | 237 | 131 | 105 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPV 32.0 A** | SPV100A01B10AA | 10.0 | **415** | **4.200** | 104,5 | 3,50 | 10,0 | 5,8 | 5,5 | 1 | 568 | 326 | 336 | 270 | 150 | 104 | 4 | 25 | 165 | 270 | 40 | 300 | 100 | 70 | M25x1,5 + M16X1,5(TH)** |
| **SPV 50.0 A** | SPV110A01B11AA | 11.0 | **560** | **5.630** | 143,0 | 5,00 | 14,0 | 8,0 | 6,0 | 1 | 609 | 355 | 362 | 308 | 166 | 110 | 4 | 29 | 210 | 295 | 40 | 330 | 100 | 70 | M25x1,5 + M16X1,5(TH)** |
| **SPV 60.0 A** | SPV120A00B12AA | 12.0 | **660** | **6.640** | 182,5 | 7,00 | 20,0 | 11,5 | 6,0 | 2 | 656 | 390 | 392 | 345 | 193 | 121 | 6 | 29 | 110 | 310 | 41 | 350 | 110 | 90 | M25x1,5 + M16X1,5(TH)** |
| **SPV 70.0 A** | SPV130A01B13AA | 13.0 | **750** | **7.600** | 210,0 | 8,00 | 22,5 | 13,0 | 6,0 | 2 | 686 | 390 | 414 | 345 | 192 | 121 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH)** |
| **SPV 85.0 A** | SPV132A01B13AA | 13.2 | **950** | **9.550** | 216,0 | 9,00 | 25,0 | 14,5 | 6,0 | 2 | 672 | 390 | 414 | 345 | 192 | 121 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH)** |

* vedi codice in tabella • see code on table
** TH = pressa cavo per collegamento termistore • TH = cable gland for thermistor connection

# SPV / SPX serie series 4 poli poles 1500rpm 50Hz

## TRIFASE • THREE-PHASE

Alimentazione Standard • Standard Supply

Δ 220-240 / Y 380-415 V (...AA)*
Δ 290-305 / Y 500-525 V (...AG)*
Altre a richiesta • Other on request

Fig. 1 • Fig. 1

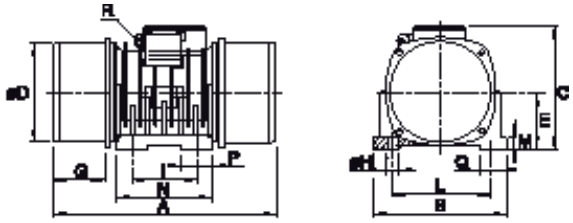
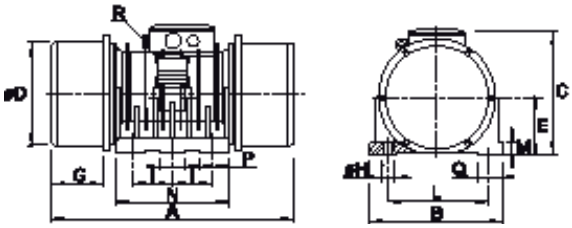



Fig. 2 • Fig. 2

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Modello Model | Codice Code | Gr. Sz. | SMV Mom. Statico Static Mom. | CFV Forza Centr. Centrif. Force | WV Peso Weight | Pot. Assorbita Input Power | Corrente Nom. Nom. Current | | Rapporto Ratio | Fig./Fig. | A | B | C | D | E | G | Nr. | H | I | L | M | N | P | Q | R pressacavo clable gland ** |
| | | | (kg*mm) | (kg) | (kg) | (kW) | Δ (A) | Y (A) | Is/In | | (mm) | | | | | | (mm) | | | | | | | | |
| **SPV 0.5 B** | SPV020B00B02AA | 02.0 | **22** | **55** | 5,5 | 0,09 | 0,5 | 0,3 | 4,5 | 1 | 215 | 152 | 143 | 106 | 62 | 50 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 0.8 B** | SPV021B00B02AA | 02.1 | **35** | **90** | 5,8 | 0,10 | 0,5 | 0,3 | 4,5 | 1 | 235 | 152 | 143 | 106 | 62 | 60 | 4 | 9 | 62-74 | 106 | 12 | 100 | 35 | 40 | M16x1,5 |
| **SPV 2.2 B** | SPV030B01B03AA | 03.0 | **105** | **265** | 12,5 | 0,20 | 0,8 | 0,5 | 3,0 | 1 | 332 | 160 | 175 | 126 | 72 | 91 | 4 | 13 | 90 | 125 | 15 | 145 | 55 | 50 | M16x1,5 |
| **SPV 3.8 B** | SPV040B02B04AA | 04.0 | **180** | **450** | 20,5 | 0,40 | 1,3 | 0,7 | 3,0 | 1 | 370 | 194 | 204 | 148 | 86 | 83 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 5.1 B** | SPV041B02B04AA | 04.1 | **240** | **600** | 23,5 | 0,45 | 1,5 | 0,9 | 3,0 | 1 | 406 | 194 | 204 | 148 | 86 | 101 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 6.7 B** | SPV050B02B05AA | 05.0 | **300** | **750** | 27,0 | 0,55 | 1,7 | 1,0 | 4,0 | 1 | 390 | 220 | 213 | 168 | 96 | 81 | 4 | 17 | 115 | 170 | 20 | 200 | 65 | 50 | M20x1,5 |
| **SPV 10.0 B** | SPV060B03B06AA | 06.0 | **455** | **1.140** | 36,0 | 0,95 | 3,0 | 1,8 | 5,0 | 1 | 428 | 225 | 233 | 187 | 105 | 93 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 15.0 B** | SPV070B03B07AA | 07.0 | **680** | **1.700** | 46,0 | 1,10 | 3,5 | 2,0 | 4,0 | 1 | 461 | 250 | 246 | 200 | 112 | 104 | 4 | 17 | 150 | 190 | 22 | 220 | 60 | 60 | M20x1,5 |
| **SPX-50 20.0 B** | SPX080B00B08AA | 08.0 | **825** | **2.100** | 56,0 | 1,30 | 4,0 | 2,3 | 3,5 | 1 | 486 | 280 | 258 | 212 | 117 | 112 | 4 | 17 | 160 | 200 | 30 | 260 | 95 | 80 | M20x1,5 |
| **SPX-50 25.5 B** | SPX090B00B09AA | 09.0 | **1.100** | **2.770** | 70,0 | 1,75 | 5,0 | 3,0 | 5,0 | 1 | 512 | 300 | 280 | 237 | 131 | 105 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPX-50 30.0 B** | SPX091B00B09AA | 09.1 | **1.250** | **3.150** | 80,0 | 2,00 | 6,0 | 3,8 | 5,0 | 1 | 584 | 300 | 280 | 237 | 131 | 141 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPV 35.0 B** | SPV100B01B10AA | 10.0 | **1.580** | **4.000** | 122,0 | 2,40 | 8,7 | 5,0 | 5,5 | 1 | 568 | 326 | 336 | 270 | 150 | 104 | 4 | 25 | 165 | 270 | 40 | 300 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 47.5 B** | SPV110B01B11AA | 11.0 | **2.100** | **5.300** | 165,5 | 3,50 | 10,5 | 6,0 | 4,0 | 1 | 609 | 355 | 362 | 308 | 166 | 110 | 4 | 29 | 210 | 295 | 40 | 330 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 55.0 B** | SPV120B01B12AA | 12.0 | **2.300** | **5.800** | 201,5 | 4,50 | 13,0 | 7,5 | 4,0 | 2 | 656 | 390 | 392 | 345 | 193 | 121 | 6 | 29 | 110 | 310 | 41 | 350 | 110 | 90 | M25x1,5 + M16X1,5(TH) |
| **SPV 63.0 B** | SPV130B01B13AA | 13.0 | **2.800** | **7.050** | 233,0 | 6,00 | 19,0 | 11,0 | 5,0 | 2 | 686 | 390 | 414 | 345 | 192 | 121 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH) |
| **SPV 77.0 B** | SPV132B03B13AA | 13.2 | **3.380** | **8.500** | 248,0 | 7,10 | 20,5 | 12,0 | 4,5 | 2 | 672 | 390 | 414 | 345 | 192 | 121 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH) |
| **SPV 83.0 B** | SPV140B01B14AA | 14.0 | **3.800** | **9.500** | 314,0 | 7,80 | 21,5 | 12,5 | 4,5 | 2 | 731 | 456 | 456 | 410 | 225 | 118 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |
| **SPV 105.0 B** | SPV141B02B14AA | 14.1 | **4.850** | **12.200** | 345,0 | 10,50 | 30,5 | 17,5 | 5,0 | 2 | 737 | 456 | 456 | 410 | 225 | 118 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |

* vedi codice in tabella • see code on table
** TH = pressa cavo per collegamento termistore • TH = cable gland for thermistor connection

# SPV / SPX serie series 6 poli poles 1000 rpm 50 Hz

## TRIFASE • THREE-PHASE

Alimentazione Standard • Standard Supply

Δ 220-240 / Y 380-415 V (...AA)*
Δ 380-405 / Y 660-700 V (...AZ)*
Δ 290-305 / Y 500-525 V (...AG)*
Altre a richiesta • Other on request

Fig. 1 • Fig. 1

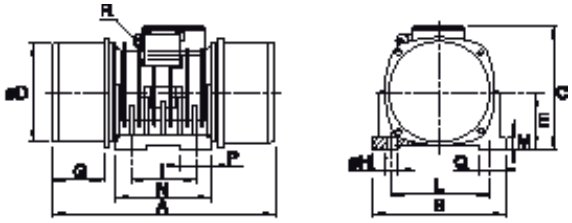


Fig. 2 • Fig. 2

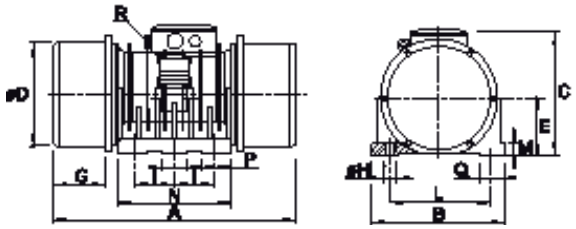
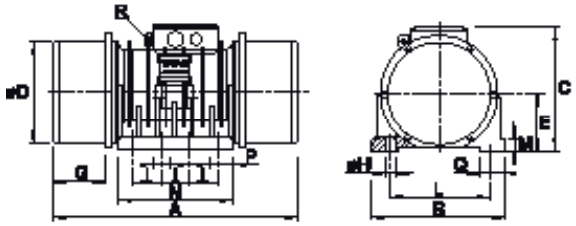


Fig. 3 • Fig. 3



| DATI GENERALI GENERAL DATA | | | DATI MECCANICI MECHANICAL DATA | | | DATI ELETTRICI ELECTRICAL DATA | | | | DATI DIMENSIONALI OVERALL DIMENSIONS | | | | | | | DATI FISSAGGIO FIXING DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Modello Model | Codice Code | Gr. Sz. | SMv Mom. Statico Static Mom. | CFv Forza Centr. Centrif. Force | Wv Peso Weight | Pot. Assorbita Input Power | Corrente Nom. Nom. Current | | Rapporto Ratio | Fig./Fig. | A | B | C | D | E | G | Nr. | H | I | L | M | N | P | Q | R pressacavo clable gland ** |
| | | | (kg*mm) | (kg) | (kg) | (kW) | Δ (A) | Y (A) | Is/In | | (mm) | | | | | | (mm) | | | | | | | | |
| **SPV 1.1 C** | SPV030C02B03AA | 03.0 | **105** | **120** | 12,5 | 0,24 | 1,2 | 0,7 | 3,5 | 1 | 332 | 160 | 175 | 126 | 72 | 91 | 4 | 13 | 90 | 125 | 15 | 145 | 55 | 50 | M16x1,5 |
| **SPV 1.7 C** | SPV040C02B04AA | 04.0 | **180** | **200** | 20,5 | 0,30 | 1,3 | 0,7 | 3,0 | 1 | 370 | 194 | 204 | 148 | 86 | 83 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 2.2 C** | SPV041C02B04AA | 04.1 | **240** | **270** | 23,0 | 0,35 | 1,5 | 0,9 | 3,0 | 1 | 406 | 194 | 204 | 148 | 86 | 101 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 3.8 C** | SPV050C02B05AA | 05.0 | **400** | **450** | 30,0 | 0,45 | 2,3 | 1,3 | 3,5 | 1 | 428 | 220 | 213 | 168 | 96 | 100 | 4 | 17 | 115 | 170 | 20 | 200 | 65 | 50 | M20x1,5 |
| **SPV 5.0 C** | SPV060C04B06AA | 06.0 | **520** | **580** | 37,0 | 0,80 | 3,0 | 1,7 | 4,0 | 1 | 452 | 225 | 233 | 187 | 105 | 105 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 8.0 C** | SPV070C03B07AA | 07.0 | **860** | **960** | 50,0 | 0,90 | 3,2 | 1,9 | 3,5 | 1 | 495 | 250 | 246 | 200 | 112 | 121 | 4 | 17 | 150 | 190 | 22 | 220 | 60 | 60 | M20x1,5 |
| **SPX-50 12.0 C** | SPX080C00B08AA | 08.0 | **1.110** | **1.250** | 62,5 | 1,00 | 3,6 | 2,1 | 3,5 | 1 | 548 | 280 | 258 | 212 | 117 | 143 | 4 | 17 | 160 | 200 | 30 | 260 | 95 | 80 | M20x1,5 |
| **SPX-50 17.0 C** | SPX090C01B09AA | 09.0 | **1.650** | **1.850** | 82,0 | 1,40 | 4,6 | 2,7 | 4,0 | 1 | 584 | 300 | 280 | 237 | 131 | 141 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPX-50 22.0 C** | SPX091C00B09AA | 09.1 | **2.100** | **2.350** | 100,0 | 1,60 | 5,3 | 3,0 | 4,0 | 1 | 624 | 300 | 280 | 237 | 131 | 181 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPV 27.0 C** | SPV100C01B10AA | 10.0 | **2.560** | **2.860** | 144,0 | 2,40 | 9,0 | 5,2 | 5,0 | 1 | 662 | 326 | 336 | 270 | 150 | 151 | 4 | 25 | 165 | 270 | 40 | 300 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 35.5 C** | SPV110C02B11AA | 11.0 | **3.560** | **4.000** | 186,5 | 2,70 | 10,5 | 6,0 | 5,0 | 1 | 693 | 355 | 362 | 308 | 166 | 152 | 4 | 29 | 210 | 295 | 40 | 330 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 41.5 C** | SPV111C01B11AA | 11.1 | **4.300** | **4.800** | 200,0 | 3,30 | 12,0 | 7,0 | 5,0 | 1 | 693 | 355 | 362 | 308 | 166 | 152 | 4 | 29 | 210 | 295 | 40 | 330 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 50.0 C** | SPV120C01B12AA | 12.0 | **5.100** | **5.700** | 241,5 | 4,20 | 13,0 | 7,5 | 5,0 | 2 | 740 | 390 | 392 | 345 | 193 | 163 | 6 | 29 | 110 | 310 | 41 | 350 | 110 | 90 | M25x1,5 + M16X1,5(TH) |
| **SPV 61.0 C** | SPV130C01B13AA | 13.0 | **6.050** | **6.800** | 280,0 | 5,30 | 16,5 | 9,5 | 5,0 | 2 | 770 | 390 | 414 | 345 | 192 | 163 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH) |
| **SPV 80.0 C** | SPV132C04B13AA | 13.2 | **7.900** | **8.800** | 308,0 | 7,00 | 21,0 | 12,0 | 5,5 | 2 | 838 | 390 | 414 | 345 | 192 | 203 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH) |
| **SPV 90.5 C** | SPV140C01B14AA | 14.0 | **9.100** | **10.200** | 380,0 | 8,00 | 26,0 | 15,0 | 5,0 | 2 | 901 | 456 | 456 | 410 | 225 | 203 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |
| **SPV 114.0 C** | SPV141C02B14AA | 14.1 | **11.350** | **12.700** | 420,0 | 9,80 | 28,0 | 16,0 | 5,5 | 2 | 907 | 456 | 456 | 410 | 225 | 203 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |
| **SPV 122.0 C** | SPV142C02B14AA | 14.2 | **12.150** | **13.600** | 435,0 | 10,20 | 30,0 | 17,0 | 5,5 | 2 | 907 | 456 | 456 | 410 | 225 | 203 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |
| **SPV 140.0 C** | SPV150C04B15AZ | 15.0 | **14.000** | **15.650** | 543,0 | 11,50 | 21,0 | 12,0 | 5,5 | 2 | 964 | 520 | 504 | 451 | 255 | 218 | 6 | 38 | 155 | 400 | 40 | 470 | 150 | 145 | M32x1,5 + M16X1,5(TH) |
| **SPV 160.0 C** | SPV151C07B15AZ | 15.1 | **15.700** | **17.550** | 610,0 | 13,80 | 24,0 | 13,8 | 6,0 | 2 | 1.018 | 520 | 504 | 451 | 255 | 218 | 6 | 38 | 155 | 400 | 40 | 470 | 150 | 145 | M32x1,5 + M16X1,5(TH) |
| **SPV 220.0 C** | SPV171C00B17AZ | 17.1 | **20.400** | **22.800** | 890,0 | 19,00 | 31,0 | 18,0 | 6,0 | 3 | 1.130 | 620 | 595 | 550 | 310 | 235 | 8 | 45 | 140 | 520 | 50 | 530 | 100 | 120 | M40x1,5 + M20X1,5(TH) |

* vedi codice in tabella • see code on table
** TH = pressa cavo per collegamento termistore • TH = cable gland for thermistor connection

## TRIFASE • THREE-PHASE

Alimentazione Standard • Standard Supply

Δ 220-240 / Y 380-415 V (...AA)*
Δ 380-405 / Y 660-700 V (...AZ)*
Δ 290-305 / Y 500-525 V (...AG)*
Altre a richiesta • Other on request

Fig. 1 • Fig. 1

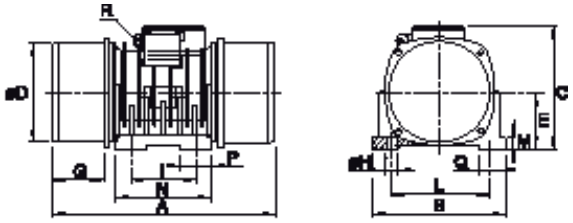



Fig. 2 • Fig. 2

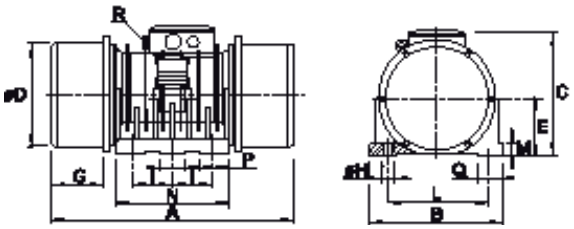
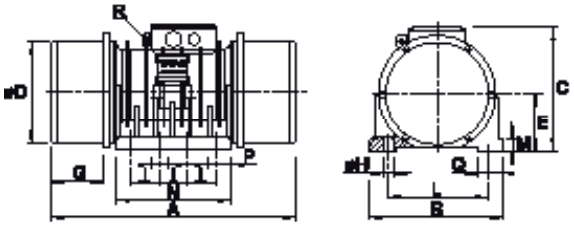



Fig. 3 • Fig. 3



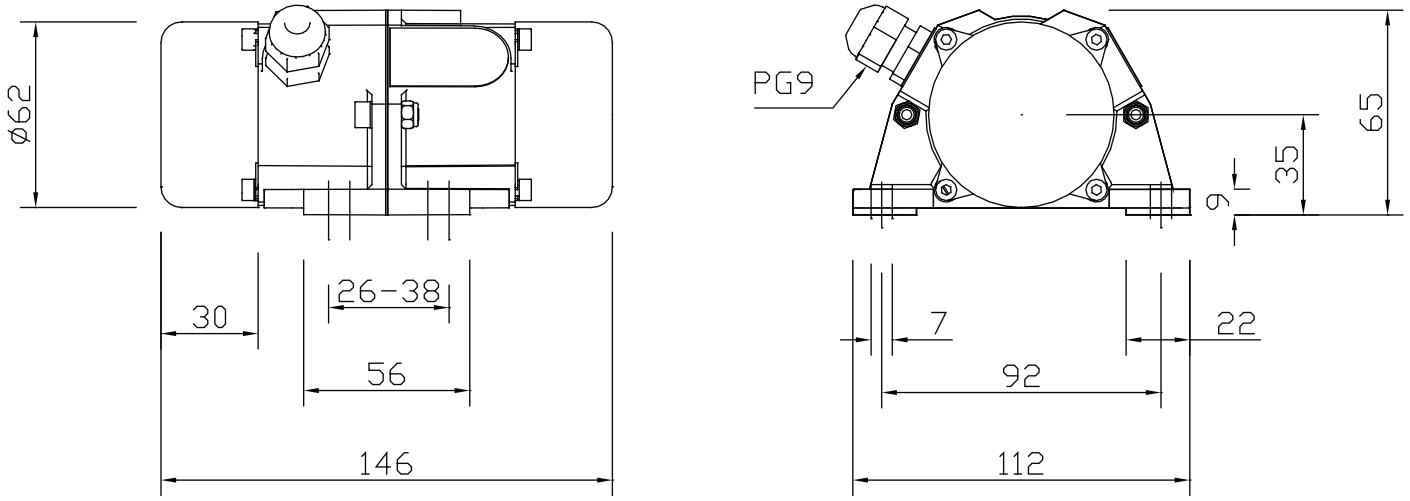

| DATI GENERALI GENERAL DATA | | | DATI MECCANICI MECHANICAL DATA | | | DATI ELETTRICI ELECTRICAL DATA | | | | DATI DIMENSIONALI OVERALL DIMENSIONS | | | | | | | DATI FISSAGGIO FIXING DATA | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Modello Model | Codice Code | Gr. Sz. | SMV Mom. Statico Static Mom. | CFV Forza Centr. Centrif. Force | WV Peso Weight | Pot. Assorbita Input Power | Corrente Nom. Nom. Current | | Rapporto Ratio | Fig./Fig. | A | B | C | D | E | G | Nr. | H | I | L | M | N | P | Q | R pressacavo clable gland ** |
| | | | | | | | Δ (A) | Y (A) | | | (mm) | | | | | | | (mm) | | | | | | | |
| | | | (kg*mm) | (kg) | (kg) | (kW) | | | Is/In | | | | | | | | | | | | | | | | |
| **SPV 1.3 D** | SPV041D02B04AA | 04.1 | **240** | **150** | 23,0 | 0,28 | 1,2 | 0,7 | 3,0 | 1 | 406 | 194 | 204 | 148 | 86 | 101 | 4 | 13 | 100 | 155 | 18 | 180 | 50 | 45 | M20x1,5 |
| **SPV 2.1 D** | SPV050D01B05AA | 05.0 | **400** | **250** | 30,0 | 0,45 | 2,1 | 1,2 | 3,5 | 1 | 428 | 220 | 213 | 168 | 96 | 100 | 4 | 17 | 115 | 170 | 20 | 200 | 65 | 50 | M20x1,5 |
| **SPV 2.8 D** | SPV060D02B06AA | 06.0 | **520** | **330** | 37,0 | 0,55 | 2,5 | 1,5 | 3,5 | 1 | 452 | 225 | 233 | 187 | 105 | 105 | 4 | 17 | 120 | 180 | 20 | 210 | 70 | 50 | M20x1,5 |
| **SPV 4.5 D** | SPV070D02B07AA | 07.0 | **860** | **540** | 50,0 | 0,70 | 2,9 | 1,7 | 3,5 | 1 | 495 | 250 | 246 | 200 | 112 | 121 | 4 | 17 | 150 | 190 | 22 | 220 | 60 | 60 | M20x1,5 |
| **SPX-50 7.0 D** | SPX080D01B08AA | 08.0 | **1.110** | **700** | 62,5 | 0,90 | 3,5 | 2,0 | 3,0 | 1 | 548 | 280 | 258 | 212 | 117 | 143 | 4 | 17 | 160 | 200 | 30 | 260 | 95 | 80 | M20x1,5 |
| **SPX-50 10.0 D** | SPX090D00B09AA | 09.0 | **1.650** | **1.050** | 82,0 | 1,10 | 4,3 | 2,5 | 4,0 | 1 | 584 | 300 | 280 | 237 | 131 | 141 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPX-50 13.0 D** | SPX091D00B09AA | 09.1 | **2.100** | **1.320** | 100,0 | 1,30 | 4,8 | 2,8 | 4,0 | 1 | 624 | 300 | 280 | 237 | 131 | 181 | 4 | 22 | 165 | 230 | 35 | 300 | 115 | 80 | M20x1,5 |
| **SPV 15.5 D** | SPV100D01B10AA | 10.0 | **2.560** | **1.610** | 144,0 | 2,00 | 8,6 | 5,0 | 4,5 | 1 | 662 | 326 | 336 | 270 | 150 | 151 | 4 | 25 | 165 | 270 | 40 | 300 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 20.0 D** | SPV110D02B11AA | 11.0 | **3.560** | **2.250** | 186,5 | 2,50 | 10,0 | 6,0 | 4,5 | 1 | 693 | 355 | 362 | 308 | 166 | 152 | 4 | 29 | 210 | 295 | 40 | 330 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 23.5 D** | SPV111D02B11AA | 11.1 | **4.300** | **2.700** | 200,0 | 3,00 | 11,7 | 6,8 | 4,5 | 1 | 693 | 355 | 362 | 308 | 166 | 152 | 4 | 29 | 210 | 295 | 40 | 330 | 100 | 70 | M25x1,5 + M16X1,5(TH) |
| **SPV 28.0 D** | SPV120D01B12AA | 12.0 | **6.050** | **3.800** | 254,0 | 3,70 | 14,7 | 8,5 | 4,5 | 2 | 740 | 390 | 392 | 345 | 193 | 163 | 6 | 29 | 110 | 310 | 41 | 350 | 110 | 90 | M25x1,5 + M16X1,5(TH) |
| **SPV 42.5 D** | SPV130D01B13AA | 13.0 | **7.550** | **4.750** | 300,0 | 5,20 | 17,5 | 10,0 | 5,5 | 2 | 851 | 390 | 414 | 345 | 192 | 203 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH) |
| **SPV 56.0 D** | SPV132D03B13AA | 13.2 | **9.800** | **6.160** | 331,0 | 6,50 | 21,0 | 12,0 | 5,0 | 2 | 917 | 390 | 414 | 345 | 192 | 243 | 6 | 29 | 115 | 320 | 45 | 370 | 115 | 75 | M25x1,5 + M16X1,5(TH) |
| **SPV 66.5 D** | SPV140D01B14AA | 14.0 | **11.970** | **7.550** | 415,0 | 7,00 | 22,5 | 13,0 | 4,0 | 2 | 1.001 | 456 | 456 | 410 | 225 | 253 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |
| **SPV 78.5 D** | SPV141D02B14AA | 14.1 | **13.670** | **8.600** | 446,0 | 8,00 | 24,5 | 14,0 | 5,0 | 2 | 1.007 | 456 | 456 | 410 | 225 | 253 | 6 | 32 | 130 | 380 | 50 | 400 | 130 | 100 | M25x1,5 + M16X1,5(TH) |
| **SPV 100.0 D** | SPV150D04B15AZ | 15.0 | **18.000** | **11.300** | 584,0 | 10,00 | 18,0 | 10,5 | 5,0 | 2 | 1.084 | 520 | 504 | 451 | 255 | 278 | 6 | 38 | 155 | 400 | 40 | 470 | 150 | 145 | M32x1,5 + M16X1,5(TH) |
| **SPV 124.0 D** | SPV151D04B15AZ | 15.1 | **21.700** | **13.650** | 672,0 | 11,00 | 20,0 | 11,5 | 5,0 | 2 | 1.138 | 520 | 504 | 451 | 255 | 278 | 6 | 38 | 155 | 400 | 40 | 470 | 150 | 145 | M32x1,5 + M16X1,5(TH) |
| **SPV 200.0 D** | SPV171D00B17AZ | 17.1 | **29.600** | **18.600** | 970,0 | 13,50 | 26,0 | 15,0 | 5,5 | 3 | 1.130 | 620 | 595 | 550 | 310 | 235 | 8 | 45 | 140 | 520 | 50 | 530 | 100 | 120 | M40x1,5 + M20X1,5(TH) |

* vedi codice in tabella • see code on table
** TH = pressa cavo per collegamento termistore • TH = cable gland for thermistor connection

Mini - Vibrators (AMV Series)

Mini-vibrators which are just only 1.7 kg in weight are able to obtain centrifugal force up to 21 kg. They are suitable for any general industries, particularly for food industry or pharmaceutical industry, and available both three-phases (380-415V) and single phase (220-240V).

มอเตอร์เขย่าขนาดเล็กที่มีน้ำหนักเพียงแค่ 1.7 กิโลกรัม แต่ให้ค่าแรงเขย่า (Centrifugal force) ถึง 21 กิโลกรัม เหมาะสำหรับเครื่องสั่นที่ใช้ในอุตสาหกรรมทั่วๆไป โดยเฉพาะอย่างยิ่ง อุตสาหกรรมผลิตอาหารและยา มีให้เลือกทั้งแบบใช้ไฟ 3 สาย (380 - 415 V) และไฟ 2 สาย (220 - 240 V)




weigth : 1.7 Kg

| IDENTIFICATION DATA | | | | MECHANICAL FEATURES | | | | | ELECTR. FEATURES | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Code | Type | Ex. | Sz. | Stat. Mom. [Kgmm] | | Centrif. Force [Kg] | | K* | Max. Pow. [W] | | Max. Current [A] | | Is/In |
| | | | | 50 Hz | 60 Hz | 50 Hz | 60 Hz | | 50 Hz | 60 Hz | 400V. 50Hz | 460V. 60Hz | |
| **3 PHASE " AMV" SERIES 2 POLES [3000 RPM 50 Hz - 3600 RPM 60 Hz]** | | | | | | | | | | | | | |
| AMV000A00B00 | AMV 000-0.3 AT | 00 | 0.0 | 2.1 | 2.1 | 21.0 | 30.0 | 0.85 | 30.00 | 42.00 | 0.20 | 0.15 | 2.8 |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | 220V. 50Hz | 115V. 60Hz | |
| **1 PHASE " AMV" SERIES 2 POLES [3000 RPM 50 Hz - 3600 RPM 60 Hz]** | | | | | | | | | | | | | |
| AMV000A00B00 | AMV 000-0.3 AM | 00 | 0.0 | 2.1 | 2.1 | 21.0 | 30.0 | 0.83 | 25.00 | 30.00 | 0.15 | 0.30 | 2.7 |
| | | | | | | | | | | | | | |

## TYPES OF VIBRATION

You can obtain three types of vibration:
CIRCULAR (fig. A): obtained with 1 electric vibrator positioned near the mass center of the equipment
ELLIPTICAL (fig. B): obtained with 1 electric vibrator positioned distant from the mass center of the equipment
LINEAR (fig. C): obtained with 2 electric vibrators (counter-rotating) positioned so that the line of force goes through the mass center of the equipment

fig. A

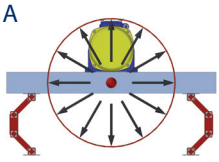


fig. B

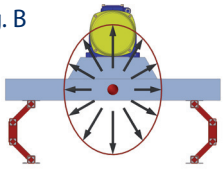
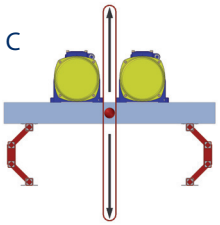


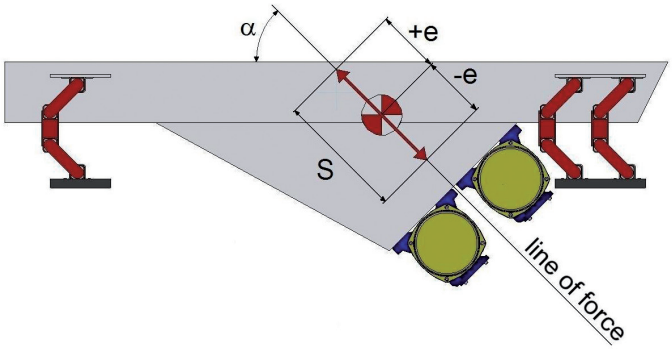
fig. C



The functioning of a vibratory equipment is the result of a specific know-how and experience, it is recommended that only manufacturers of equipments specialized in that field make all necessary evaluations and relevant calculations. Anyway, for a preliminary evaluation of the vibrator model suitable for an application, we report here below some formulas to be considered only as not-binding indications.

## GENERAL FORMULA AND LEGENDA

| | | |
|---|---|---|
| S (stroke) = | e * 2 | [mm] |
| e (eccentricity) = | SMt / Wt | [mm] |
| a (acceleration) = | CFt / Wt | [G] |
| Wt (total weight of equipment) = | We + Wvt | [kg] |
| We (weight of isolated equipment) | | [kg] |
| Wvt (total weight of vibrators) = | Wv * nr. vibrators | [kg] |
| Wv (weight of vibrator) | | [kg] |
| SMt (total static moment) = | SMv * nr. vibrators | [kg*mm] |
| SMv (static moment of vibrator) | | [kg*mm] |
| CFt (total centrifugal force) = | CFv * nr. vibrators | [kg] |
| CFv (centrifugal force of vibrator) | | [kg] |
| α (line of force angle from horizontal) | | [°] |




## EXAMPLE OF VIBRATOR SELECTION

### Given data on equipment and process

Type of process / vibration: ..... .... primary feeder / linear vibration
Weight of equipment (We): ..... ..... 1.500 kg
Feeding Frequency: ..... ..... 50 Hz
Speed / Poles: ..... . 1000 rpm / 6 Poles
Requested stroke of vibration (S): ..... .. 8,0 mm

### Calculations

Eccentricity (e) = S / 2 -> 8,0 / 2 ..... ..... = 4,0 mm
Weight of vibrators estimated (Wvt) = 20-25% of equipment weight -> 25% of 1.500 kg .....= 375 kg
Total equipment weight (Wt) = We + Wvt (estimated) -> 1.500 + 375 .....= 1.875 kg
Total Static Moment (SMt) = Wt * e -> 1.875 * 4,0 .....= 7.500 kg*mm
Static Moment of vibrator (SMv) = SMt / 2 -> 7.500 / 2 .....= 3.750 kg*mm

### Selection and checking

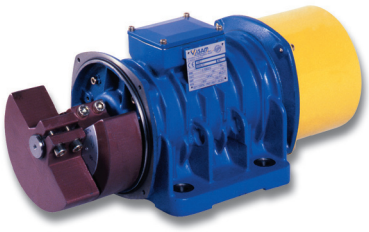
When selecting the vibrator model, it is advisable to use, for all further calculations, the 80% of the value of Static Moment (SMv), therefore the 80% of the relevant Centrifugal Force (CFv), in order to have an operative safety margin of 20%.
In the Catalogue section "6 poles - 50 Hz - 1000 rpm", we must identify a model that, with 80% of setting, will grant a value of Static Moment (SMv) the closest possible to the value required:

| | | | |
|---|---|---|---|
| SPV 41.5 C | Static Moment (SMv) | = 4.300 kg*mm (100%) -> (80%) ..... | ..... = 3.440 kg*mm |
| | Centrifugal Force (CFv) | = 4.800 kg (100%) -> (80%) ..... | = 3.840 kg |
| | Weight (Wv) | ..... | ... = 200 kg |
| | Eccentricity calculation (e) | = SMt (80%) / Wt -> (3.440 * 2) / (1.500 + (200 * 2)) ..... | ... = 3,6 mm |
| | Acceleration calculation (a) | = CFt (80%) / Wt -> (3.840 * 2) / (1.500 + (200 * 2)) .....= 4,0 G (it is advisable not to exceed 5,0 G value) | |

To obtain the requested eccentricity (e= 4,0 mm) we should set the vibrator at 90%. To keep the recommended safety operative margin of 20%, we have to consider the next model:

| | | | |
|---|---|---|---|
| SPV 50.0 C | Static Moment (SMv) | = 5.100 kg*mm (100%) -> (80%)..... | ... = 4.080 kg*mm |
| | Centrifugal Force (CFv) | = 5.700 kg (100%) -> (80%) ..... | ..... = 4.560 kg |
| | Weight (Wv) | ..... | .. = 242 kg |
| | Eccentricity calculation (e) | = SMt (80%) / Wt -> (4.080 * 2) / (1.500 + (242 * 2))..... | ..... = 4,1 mm |
| | Acceleration calculation (a) | = CFt (80%) / Wt -> (4.560 * 2) / (1.500 + (242 * 2))..... | ..... = 4,6 G (it is advisable not to exceed 5,0 G value) |

## SPV



Vibratori a 10 e 12 poli
10 and 12 pole Vibrators

Vibratori a bassa velocità per applicazioni specifiche (es. industria molitoria e fonderia)

Low speed vibrators for specific applications (ex. milling and foundry industry)

## SPEx

Vibratori Atex
Atex Vibrators

Tutta la gamma Visam è disponibile conforme per utilizzo in zona Atex 22.

Su richiesta per zona Atex 21.
All Visam range is suitable for use in zone Atex 22. On request for zone Atex 21.

## DCV


Vibratori Corrente Continua (12 - 24V)
Direct Current Vibrators (12 - 24V)

Vibratori per utilizzo in applicazioni dove non è disponibile allacciamento diretto alla rete elettrica.

Vibrators for applications where it is not available direct connection to the electricity network.

## AMV

Mini Vibratori
Mini Vibrators

Vibratori di ridotte dimensioni per applicazioni ad uso discontinuo e con bassa forza centrifuga richiesta.

Vibrators of small size for applications with discontinuous duty and low centrifugal force required.

## SPF

Vibratori con attacco a Flangia
Flange mounted Vibrators

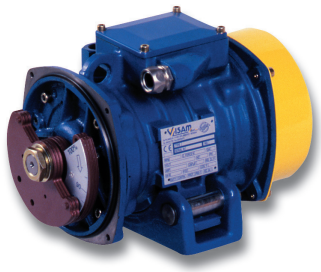
Vibratori con attacco a flangia per applicazione su vagli circolari e buratti.

Flange mounted vibrators for circular screens and deburring machines application

www.visam.it

Maggiori dettagli su queste serie sono disponibili sul sito web VISAM
Further details about these series are available on VISAM web site

## SPC



Vibratori con attacco rapido (culla)
Quick release Vibrators (cradle)

Modelli richiesti in particolare dall'industria del cemento e delle costruzioni per l'esigenza di spostare frequentemente i vibratori su diversi stampi.

Models particularly requested by the concrete and construction industry to meet the requirement of frequent re-positionig of vibrators on different moulds.

## HFV
## HFC

Vibratori ad alta Frequenza
High Frequency Vibrators

Vibratori ad alta velocità (6000 o 9000 rpm) per l'industria dell'edilizia e della prefabbricazione. Modelli disponibili anche nella versione ad attacco rapido (culla) per l'esigenza di spostare frequentemente i vibratori da una cassaforma all'altra.

High speed vibrators (6000 or 9000 rpm) for concrete and pre fab industry.
Quick release (cradle) models are available to meet the requirement of frequent re-positionig of vibrators on different moulds.

## VFV
## VFC

Vibratori a frequenza variabile
Variable frequency Vibrators

Vibratori a velocità variabile (da 4000 a 6000 rpm) per l'industria della prefabbricazione. Modelli disponibili anche nella versione ad attacco rapido (culla) per l'esigenza di spostare frequentemente i vibratori da una cassaforma all'altra.

Variable speed vibrators at high speed (from 4000 to 6000 rpm) for pre fab industry. Quick release (cradle) models are available to meet the requirement of frequent re-positionig of vibrators on different moulds.

## EMC

Convertitori Elettronici Modulari
Electronic Modular Converters

Convertitori elettronici di frequenza e tensione modulari per l'azionamento di vibratori (serie HFV/HFC e VFV/VFC), progettati per le specifiche esigenze dell'industria dell'edilizia e della prefabbricazione.

Electronic modular frequency and voltage converters for vibrators (series HFV/HFC and VFV/VFC), designed to suit the specific needs of concrete and pre fab industry.

www.visam.it

Maggiori dettagli su queste serie sono disponibili sul sito web VISAM
Further details about these series are available on VISAM web site

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# TYPICAL FIELDS OF APPLICATIONS

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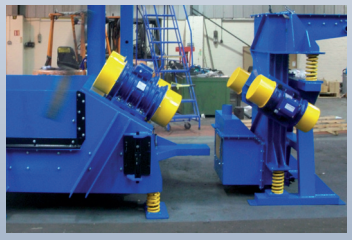
QUARRY AND MINING



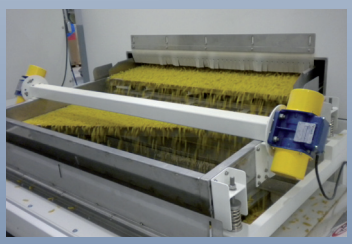
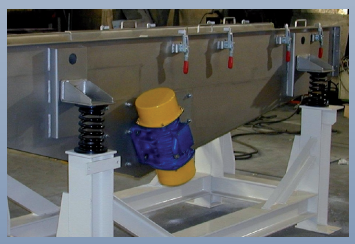
FONDERIA E ACCIAIERIA

FOUNDRY AND STEEL



ALIMENTARE E CHIMICA

FOOD AND CHEMICAL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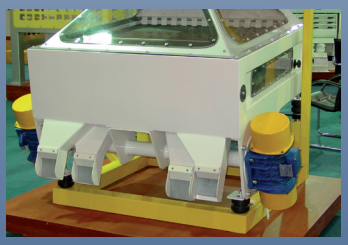
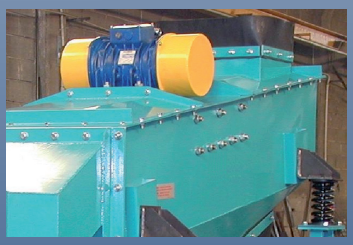
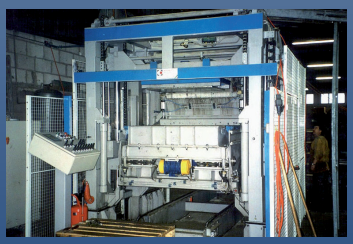




CEMENTO E
PREFABBRICAZIONE

CONCRETE AND PRE FAB





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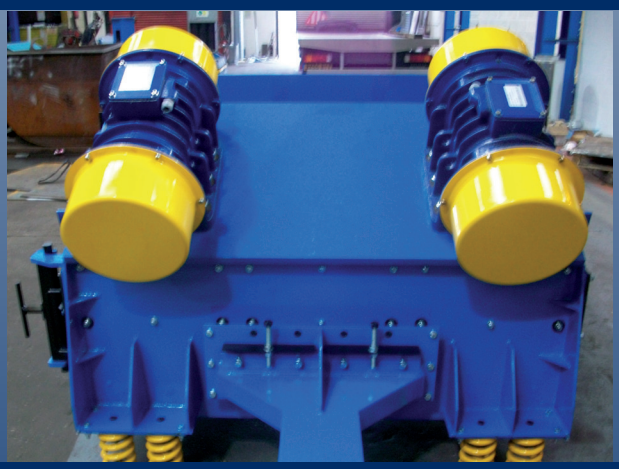


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