

Vibration Motors





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The right of performing technical changes which serve the progress will be reserved.



WÜRGES Vibrationstechnik GmbH \cdot Daimlerstraße 9 \cdot D-86356 Neusäß / Augsburg Tel. 08 21/46 30 81 \cdot Fax 08 21/46 30 84 \cdot e-Mail: info@wuerges.de \cdot Internet: www.wuerges.de

Vibration Motors listed according to Power, Speed and construction type

6000 76 0.40 HF 6/4 80 1 900 3.4 6.10 HV 6/6 1 10 5 3000 305 1.0 HF 6/4 1 31 2 40 98 1.780 HV 16/618 10 5 3000 305 6.10 HF 6/8 31 1 1 1 100 1000 HV 30/6-75 16 3 3000 4 0.98 HV 0.22 4 1 1 100 1000 HV 65/6-200 <		Synchrone Speed min. ⁻¹	Centrif. force daN (kp)	Working- moment cm kg	Model		Page	Line	Synchrone Speed min. ⁻¹	Centrif. force daN (kp)	Working- moment cm kg	Model		Page	Line	
300 1,50 HF 6/4 2 3 1 98 17,80 HV 6/2-18-1 1 3000 6,15 HF 15/4 2 3 1 1 140 140 140 140 1400 1400 HV 12/6-12 1 1 140 1000 HV 12/6-12 1 1 1 100 0.00 HV 12/2 1 1 1 100 0.00 HV 55/6-120 1 </td <td></td> <td>6000</td> <td>76</td> <td>0,40</td> <td>HF 1/4</td> <td></td> <td>30</td> <td>1</td> <td>1000</td> <td>34</td> <td>6,10</td> <td>HV 6/6</td> <td></td> <td>10</td> <td>5</td> <td></td>		6000	76	0,40	HF 1/4		30	1	1000	34	6,10	HV 6/6		10	5	
1200 6.15 HF 15/4 8 32 1 23 42.00 HV 12/-42 43.0 5 3000 305 6.10 HP 6/8 31 2 40.0 RN0 HV 22/-42 40.0 FN0.0 HV 55/-520 16 3 3000 4 0.08 HV 0/22 * 6 1 100 20.00 HV 65/6-200 17 4 132 2.80 HV 2/2 * 7 1 70 19 6.10 HV 6/8-30 10 8 133 6.00 HV 2/2-4* 7* 1 750 19 0.10 HV 6/8-31 10 2 13 4.00 HV 12/8-42 10 2 101 2 101 2 101 2 101 2 101 10 2 101 1 245 78.00 HV 30*874 15 4 1 10 1 10 1 10 1 10 1 <t< td=""><td></td><td></td><td>305</td><td>1,50</td><td>HF 6/4</td><td>Ηz</td><td>31</td><td>1</td><td></td><td>98</td><td>17,80</td><td>HV 6/6-18</td><td></td><td>10</td><td>6</td><td></td></t<>			305	1,50	HF 6/4	Ηz	31	1		98	17,80	HV 6/6-18		10	6	
3000 305 6.10 HF 6/8 31 2 430 78,00 HV 30/675 15 3 3000 4 0,06 HV 0/12 4 1 640 1100 2000 HV 55/6-120 17 3 4 1 500 1,00 HV 1/2 7 1 1010 2000 HV 55/6-300 17 3 4 1 132 2,80 HV 2/2-4 7 1 750 19 6.10 HV 68/8 10 8 176 3,70 HV 2/2-4 7849 4/32 131 420 HV 6/8-18 10 8 420 8,40 HV 6/2 101 1 1 200 150 HV 58/8-10 16 4 420 8,40 HV 82 1 12 2 132 300.0 HV 12/8-18 16 4 120 2,00 HV 15/2-20 14 2 120 130.0 HV 12/2-0.8			1200	6,15	HF 15/4	200	32	1		233	42,00	HV 12/6-42		13	5	
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100 100 HV 0,4/2 5 1 100 200,0 HV 65/6-200 17 3 model 100 100 HV 1/2 6 1 220 300,0 HV 85/6-200 17 4 model 1100 200 397,0 HV 2/2 * 1 220 397,0 HV 85/6-400 17 4 model 1100 200 397,0 HV 2/2 * 7 1 220 397,0 HV 8/6-10 17 4 10 286 6,00 HV 2/2 * 7 1 700 19 6,10 HV 6/8-18 10 8 420 8,40 HV 8/2 10 2 362 15,00 HV 12/4 15 1 200 17 6 100 100 HV 8/2 1 12 2 300 HV 6/8-800 17 1 1 10 10 10 10 10 10 10		3000	4	0,08	HV 0,1/2		4	1		640	115,00	HV 55/6-120		16	3	
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188 1,85 HV 2/2 7 1 1 2200 397.00 HV 85/6-400 17 5 126 2,80 HV 2/2-4 7+8 1 750 19 6,10 HV 6/8 13 6 286 6,00 HV 2/2-6 7+849 3/2 5 17,50 HV 6/8 13 6 305 6,10 HV 6/2 10+11 1 245 78,00 HV 2/2-6 5 15 17,0 7 5 420 8,40 HV 6/2 10+11 1 245 78,00 HV 12/8-0E 15 4 553 10,70 HV 8/2-11 12 2 930 900 HV 65/8-200 18 6 13 16 18 6 14 10 3000 600 12,00 HV 15/2-25 14 3 15 10 16 18 1 10 10 10 10 10 10 10 10 10			50	1,00	HV 1/2		6	1		1650	300,00	HV 65/6-300		17	4	NEW
 			88	1,85	HV 2/2		7	1		2200	397,00	HV 85/6-400		17	5	
176 3.70 HV 2/2-4 788-9 3/2/1 55 17,80 HV 6/8-18 10 8 286 6.00 HV 2/2-6 131 42,00 HV 12/8-12 136 4,00 HV 12/8-12 136 4,00 HV 12/8-12 16 1 1 1 245 78,00 HV 30/8-75 16 1			132	2,80	HV 2/2-2 *		7+8	1	750	19	6,10	HV 6/8		10	7	
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 			305	6,10	HV 6/2		10+11	1		245	78,00	HV 30/8-75		15	4	
 			420	8,40	HV 6/2-8		10	2		362	115,00	HV 55/8-120		16	4	
535 10,70 HV 8/2-11 12 2 930 300,00 HV 65/8-300 17 6 % 600 12,00 HV 12/2<*			420	8,40	HV 8/2 *		12	1		625	200,00	HV 65/8-200		17	5	NEW
 			535	10,70	HV 8/2-11		12	2		930	300,00	HV 65/8-300		17	6	NEW
$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$			600	12,00	HV 12/2 *		13	1		1250	397,00	HV 85/8-400		18	6	
 1050 21,00 HV 15/2-20* HV 15/2-20* HV 15/2-25 HV 15/2-26 HV 15/2-26 HV 15/2-27 HV 12/4-2 <			750	15,00	HV 15/2		14	1	3000	600	12,00	HV 12/2 o.F.		21	1	
 1260 5,00 HV 15/2-25 1650 32,00 HV 30/2 * 2500 5,00 HV 55/2 * 6 1 <li1< li=""> 1</li1<>			1050	21,00	HV 15/2-20*		14	2	1500	220	18,00	HV 12/4-18 o.F.	Ηz	21	2	
 1650 32,00 HV 30/2 * 32,00 HV 30/2 * 42,00 HV 12/442 o.e. 5 160 32,00 HV 55/2 * 6 16 1 3000 600 12,00 VFL 12/2 17 1 1500 220 18,00 VFL 12/4.18 375 30,00 VFL 12/4.43 1500 123,00 HV 85/2 18 1 21 4 3000 600 12,00 VFL 12/4.18 375 30,00 VFL 12/4.43 1500 12 1,00 HV 1/4 6 2 3000 4300 86,00 Supermat 18 2 3000 888 1,85 HV 2/2 13 3 2,80 HV 2/42 * 14 3,70 HV 2/44 7 5 3000 888 1,85 HV 2/2 16 2 17 7 7 10 3,00 HV 2/46 * 7 9 3 10 9,00 HV 2/49 * 10 9,00 HV 2/49 10 9,00 HV 2/49 10 10 9,00 HV 2/49 10 110 9,00 HV 2/49 10 13 2 10 1500 120 HV 12/430 10 3 2 10 3 3 10 10 9,00 HV 2/49 10 3 2 10 13 2 10 10 9,00 HV 2/49 10 3 2 10 3 3 10 3 2 10 4 10 3.0 4 10 3.0 4 10 3.0 4 10 3 2 10 4 10 9,00 HV 2/49 13 3 1500 222 H8,00 HV 2/49 13 4 10 9,00 HV 2/49 13 3 1500 4200 HV 2/49 13 3 1500 4200 HV 2/49 14 3 11,50 HV 5/4120 15 2 16 2 16 2 16 2 16 2 16 2 17 2 6000 Electromagett Userom 40 HV 6 HV 6 HV 49 			1260	25,00	HV 15/2-25		14	3		375	30,00	HV 12/4-30 o.F.	. 60	21	3	
 			1650	32,00	HV 30/2 *	Ηz	15	1		525	42,00	HV 12/4-42 o.F.) or	21	4	
3200 65,00 HV 65/2 5 17 1 1500 220 18,00 VFL 12/4-18 20 2 4300 86,00 HV 85/2 5 18 1 375 30,00 VFL 12/4-130 20 3 6100 123,00 HV 85/2-120 18 2 3000 4300 86,00 Supernat 19 1-3 1500 12 1,00 HV 1/4 6 2 3000 4300 86,00 Supernat 19 1-3 22 1,85 HV 2/4 7 5 3000 88 1,85 HVE 2/2 26 1 33 2,80 HV 2/4-2 7 6 7 7 7 7 7 7 7 7 8 286 6,00 HVE 2/2-4 26 3 143 1,50 HV 6/4-18 10 3 1500 32.0 HVE 2/4 26 7 375 30,00 <thh< td=""><td></td><td></td><td>2500</td><td>50,00</td><td>HV 55/2 *</td><td>60]</td><td>16</td><td>1</td><td>3000</td><td>600</td><td>12,00</td><td>VFL 12/2</td><td>5</td><td>20</td><td>1</td><td></td></thh<>			2500	50,00	HV 55/2 *	60]	16	1	3000	600	12,00	VFL 12/2	5	20	1	
4300 86,00 HV 85/2 \$\vert\$ 18 1 375 30,00 VFL 12/4-30 20 3 1500 12 1,00 HV 85/2-120 18 2 525 42,00 VFL 12/4-42 20 4 1500 12 1,00 HV 1/4 6 2 3000 4300 86,00 Supermat 19 1-3 22 1,85 HV 2/4-2* 7 5 3000 88 1,85 HVE 2/2 26 2 44 3,70 HV 2/4-2* 7 6 7 8 132 2,80 HVE 2/2-2 26 2 444 3,70 HV 2/4-6* 7 7 7 8 286 6,00 HVE 2/2-4 26 3 110 9,00 HV 2/4-9* 7+9 9/3 6000 12,00 HVE 2/4 26 5 2200 17,80 HV 6/4-18 10+11 4/2 33 2,80 HVE 2/4 26 6 2200 18,00 HV 12/4-42* 13 3 7	NEW		3200	65,00	HV 65/2	or	17	1	1500	220	18,00	VFL 12/4-18		20	2	
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1500 12 1,00 HV 1/4 6 2 3000 4300 86,00 Supernat 19 1-3 22 1,85 HV 2/4 7 5 3000 4300 86,00 Supernat 19 1-3 33 2,80 HV 2/4-2 7 5 7 6 7 7 132 2,80 HVE 2/2-2 26 3 44 3,70 HV 2/4-4 7 7 7 7 8 7 8 7 9/3 286 6,00 HVE 2/2-4 26 3 71 6,00 HV 2/4-6 7 7 8 7 8 7 9/3 286 6,00 HVE 2/2-4 26 3 143 11,50 HV 6/4-18 10 3 1500 22 1,85 HVE 2/4-2 26 6 220 18,00 HV 1/2/4-18 13 2 13 3 71 6,00 HVE 2/4-2 26 9 980 78,00 HV 30/4-75 15 2 13 <			6100	123,00	HV 85/2-120		18	2		525	42,00	VFL 12/4-42		20	4	
1 1 1 5 3000 88 1,85 HVE 2/2 1 26 1 33 2,80 HV 2/4-2 * 7 6 132 2,80 HVE 2/2-2 26 1 44 3,70 HV 2/4-6 * 7 7 8 132 2,80 HVE 2/2-2 26 3 71 6,00 HV 2/4-6 * 7 8 7 8 100 12,00 HVE 2/2-4 26 4 110 9,00 HV 2/4-9 * 7 8 7 8 1500 12,00 HVE 9/2 26 4 110 9,00 HV 2/4-9 * 9/3 1500 22 1,85 HVE 2/4 26 7 143 11,50 HV 6/4-18 10 3 1 1 1 1 26 6 220 18,00 HV 12/4-18 13 2 1 3 1 1 <td></td> <td>1500</td> <td>12</td> <td>1,00</td> <td>HV 1/4</td> <td></td> <td>6</td> <td>2</td> <td>3000</td> <td>4300</td> <td>86,00</td> <td>Supermat</td> <td></td> <td>19</td> <td>1-3</td> <td></td>		1500	12	1,00	HV 1/4		6	2	3000	4300	86,00	Supermat		19	1-3	
133 2,80 HV 2/4-2 7 6 44 3,70 HV 2/4-4 7 7 7 1 6,00 HV 2/2-4 7 7 8 176 3,70 HVE 2/2-4 26 3 110 9,00 HV 2/4-9 * 7 8 749 9/3 286 6,00 HVE 2/2-4 26 3 143 11,50 HV 6/4-11 10 3 1500 22 1,85 HVE 2/4-2 26 5 220 17,80 HV 6/4-18<*			22	1,85	HV 2/4		7	5	3000	88	1,85	HVE 2/2		26	1	
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1220 17,80 HV 6/4-18 10+11 4/2 220 18,00 HV 12/4-18 13 2 375 30,00 HV 12/4-30 13 3 525 42,00 HV 30/4-75 13 4 980 78,00 HV 55/4-120 16 2 1450 115,00 HV 65/4-200 17 2 6000 Electromagnetic Vibrator MR 1 25 12 5000 397,00 HV 85/4-300 18 3 5000 A.C. Vibration MV 6 GL 28 1			143	11,50	HV 6/4-11		10	3	1500	22	1,85	HVE 2/4		26	5	
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NEW 525 42,00 HV 12/4-42* 13 4 110 9,00 HVE 2/4-9 26 9 980 78,00 HV 30/4-75 15 2 220 18,00 HVE 9/4-18 27 2 1450 115,00 HV 55/4-120 16 2 375 30,00 HVE 9/4-30 27 3 2500 200,00 HV 65/4-200 17 2 6000 Electromagnetic Vibrator MR 1 25 1+2 5000 397,00 HV 85/4-300 18 3 5000 A.C. Vibration Motor HV 6 W 28 1 5000 397,00 HV 85/4-400 18 4 3300 D.C. Vibration Motor HV 6 GL = 29 1+2			375	30,00	HV 12/4-30		13	3		71	6,00	HVE 2/4-6		26	8	
MEW 980 78,00 HV 30/4-75 15 2 220 18,00 HVE 9/4-18 27 2 1450 115,00 HV 55/4-120 16 2 375 30,00 HVE 9/4-18 27 3 2500 200,00 HV 65/4-200 17 2 6000 Electromagnetic Vibrator MR 1 25 1+2 5000 397,00 HV 85/4-300 18 3 5000 A.C. Vibration MV 6 W 28 1 5000 397,00 HV 85/4-400 18 4 3300 D.C. Vibration HV 6 GL = 29 1+2			525	42,00	HV 12/4-42*		13	4		110	9,00	HVE 2/4-9		26	9	
NEW 1450 115,00 HV 55/4-120 16 2 375 30,00 HVE 9/4-30 27 3 NEW 2500 200,00 HV 65/4-200 17 2 6000 Electromagnetic Vibrator MR 1 25 1+2 5000 397,00 HV 85/4-300 18 3 5000 A.C. Vibration Motor HV 6 W 28 1 5000 397,00 HV 85/4-400 18 4 3300 D.C. Vibration Motor HV 6 GL = 29 1+2			980	78,00	HV 30/4-75		15	2		220	18,00	HVE 9/4-18		27	2	
NEW 2500 200,00 HV 65/4-200 17 2 6000 Electromagnetic Vibrator MR 1 25 1+2 NEW 5000 397,00 HV 85/4-300 18 3 5000 A.C. Vibration Motor HV 6 W 28 1 5000 397,00 HV 85/4-400 18 4 3300 D.C. Vibration Motor HV 6 GL = 29 1+2			1450	115,00	HV 55/4-120		16	2		375	30,00	HVE 9/4-30		27	3	
NEW 5000 397,00 HV 85/4-300 18 3 5000 A.C. Vibration Motor HV 6 W 28 1 5000 397,00 HV 85/4-400 18 4 3300 D.C. Vibration Motor HV 6 GL = 29 1+2	NEW		2500	200,00	HV 65/4-200		17	2	6000	Electromagne	etic Vibrator	MR 1		25	1+2	
5000 397,00 HV 85/4-400 18 4 3300 D.C. Vibration Motor HV 6 GL = 29 1+2	NEW		5000	397,00	HV 85/4-300		18	3	5000	A.C. Vibrat	ion Motor	HV 6 W		28	1	
			5000	397,00	HV 85/4-400		18	4	3300	D.C. Vibrat	ion Motor	HV 6 GL	=	29	1+2	

* Available with 2 MV balance system: Two vibrations forces with equal speed in one unit without the need of assembly. See Page 22 + 23

HV 0,1

würges



Monophase A.C. Vibration Motor

A very small compact unit, requiring minimum space. No adjustment of the centrifugal force. With the admitted current input this vibrator can be run continously. The sturdy case is manufactured from aluminium chill casting. It is not lacquered.

3 ft. connection cable 3 x 0,75 mm², ø 7mm, ÖLFLEX[®]-540P

Protection class IP 65 · Insulant class E

Admitted voltages: 200 – 240 vs. 50 cps. 200 – 254 vs. 60 cps.

Line	Model	Synchron. Speed	Centrif. force	Working- moment	Changing of the centrifugal force	Standard voltage 50 – 60 Hz	Nominal current	Power input
		min-1	daN	cm kg		V	А	W
1	HV 0,1/2	3000	4	0,08	cannot be changed	1 ~ 230	0,11	25







Model	Bore	s for fast	ening	Base	e measur	ements	outside measurements				Mass
		mm			mm			m	n		кg
	а	b	Ø _S	С	е	f	h	g	р	k	
HV 0,1/2	30	70	6	8	42	82	32,5	63	64	83	0,97

mürges

HV 0,4

Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 629 ZZ C3 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 400 vs. · 50 cps. or 230 vs. · 50 cps. Other voltages are available.

The motor has no commutable poles. For operation with a 230vs.-A.C. power supply source an operating capacitor of 2μ F can be delivered.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standard voltage 50 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V	А	W
1	HV 0,4/2	3000	20	0,4	-	4 📤	3 ~ 400	0,1	50







Model	Bore	s for faste mm	ening ¹	Base measurements mm			Outside measurements mm				Mass kg
	а	b	Ø _S	С	е	f	h	g	р	k	
HV 0,4/2	60 78	85 83	$\left. \begin{array}{c} 6\\ 6 \end{array} \right\}$	12	90	100	54,5	67	88	132	1,9



HV 1

würges



Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6302 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 230/400vs. 50cps. Other voltages are available.

For operation with a 230vs.-A.C. power supply source an operating capacitor of $4\mu F$ can be delivered.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standaı 50	rd voltage cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V		А	W
1	HV 1/2	3000	50	1	-	5 📤	3 ~	230/400	0,30/0,17	95
2	HV 1/4	1500	12,5	1	-	5 📥	3 ~	230/400	0,23/0,13	60



Model	Bore	es for fast mm	ening ¹	Base	e measur mm	rements	Outside measurements mm				Mass kg
	а	b	Ø _S	С	е	f	h	g	р	k	0
HV 1/2	6 0	100	9,5	25	85	120	70	80	110	170	3,6
HV 1/4	65	85	9,5	25	85	120	70	80	110	170	3,6

¹ All mentioned fastening holes are provided in the unit.

mürges

Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6302 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 230/400 vs. 50cps. Other voltages available.

* These bipolar units are also available as extra executions of $1\sim230$ vs., 50 cps. A.C. For this, an operating capacitor of 7μ F can be delivered.

All HV 2 rotary current units can be delivered also in protection class EEx e II T3. (See page 26). Type of protection IP $65 \cdot$ Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 50	urd voltage 0 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise		V	А	W
1	HV 2/2*	3000	88	1,85	_	4 📤	3 ~	230/400	0,49/0,29	160
2	HV 2/2-2*	3000	132	2,8	-	6 📤	3 ~	230/400	0,49/0,29	160
3	HV 2/2-4*	3000	176	3,7	-	8 📥	3 ~	230/400	0,49/0,29	160
4	HV 2/2-6*	3000	286	6	-	13 📤	3 ~	230/400	0,49/0,29	160
5	HV 2/4	1500	22	1,85	-	4 🔺	3 ~	230/400	0,57/0,33	140
6	HV 2/4-2	1500	33	2,8	-	6 📥	3 ~	230/400	0,57/0,33	140
7	HV 2/4-4	1500	44	3,7	-	8 📥	3 ~	230/400	0,57/0,33	140
8	HV 2/4-6	1500	71,5	6	-	13 🔺	3 ~	230/400	0,57/0,33	140
9	HV 2/4-9	1500	110	9	-	20 📥	3 ~	230/400	0,57/0,33	140







Model HV	Bore	es for faste mm b	ening ¹	Base	e measure mm e	ements f	Outs	ide mea m	surement m	rs k	Mass kg
		~	~8	č	U	-		8	Р		
2/•	65	140	13	25	157	162	80	96	128	189	5,2
2/•-2	80	110	11	25	157	162	80	96	128	201	5,5
2/•-4	115	135	11	25	157	162	80	96	128	215	6,0
2/•-6	135	115	11	25	157	162	80	96	128	250	6,7
2/4-9	124	110	11	25	157	162	80	96	128	283	7,7



mürges

 HV 2 BC

 Vario fastening hole BC 90 x 125



Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6302 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 230/400vs. 50cps. Other voltages are available.

The units are also available for extra executions of $1\sim230$ vs. \cdot 50 cps. A.C. For this, an operating capacitor of 7μ F can be delivered.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standar 50	rd voltage cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise		V	А	W
1	HV 2/2-2BC	3000	132	2,8	_	6 📣	3 ~	230/400	0,49/0,29	160
2	HV 2/2-4BC	3000	176	3,7	-	8 📥	3 ~	230/400	0,49/0,29	160
3	HV 2/2-6BC	3000	286	6	-	13 📥	3 ~	230/400	0,49/0,29	160



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Model	Bore	es for faste mm	ening ¹	Base	e measure mm	ements	Outs	ide mea mi	surement n	S	Mass kg
HV	а	b	Ø _S	С	е	f	h	g	р	k	_
2/2-4 BC	65	140	13	25	135	162	80	96	128	215	6,0
	{ 90	125	13								
2/2-6 BC	115	135	11)	25	135	162	80	96	128	250	6,7

Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6302 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 230/400vs. 50cps. Other voltages are available.

*These units are also available for extra executions of $1\sim230$ vs. \cdot 50 cps. A.C. For this, an operating capacitor of 7µF can be delivered.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standar 50	rd voltage) cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	v V		А	W
1	HV 2/2-4B2*	3000	176	3,7	_	8 📤	3 ~	230/400	0,49/0,29	160
2	HV 2/2-6B2*	3000	286	6	-	13 🔺	3 ~	230/400	0,49/0,29	160
3	HV 2/4-9B2	1500	110	9	-	20 🔺	3 ~	230/400	0,57/0,33	140







Model HV	Bore	es for faste mm b	ening Ø-	Base	e measure mm	ements f	Outs	s k	Mass kg		
11 1	u	D	S	C	C	1	11	8	Р	IX.	
2/2-4 B2	78	140	11	25	100	162	80	96	128	215	5,9
2/2-6 B2	78	140	11	25	100	162	80	96	128	250	6,6
2/4-9 B2	78	140	11	25	100	162	80	96	128	283	7,6



würges



Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6303 2Z C4 are lubricated for life. The centrifugal force can be changed by means of mountable eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power input. (*exeption: type HV 6/2-8 with 40 % connection time) Standard voltage 230/400vs. 50cps. Other voltages are available.

Type HV 6/2 (Line 1) is also available as special-made execution for $1 \sim 230$ vs. \cdot 50cps. A.C. with reduced centrifugal force of 70 %. For this, an operating capacitor of 10µF can be delivered.

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifuş	g of the gal force	Standa 5	ard voltage 0 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise		V	А	W
1	HV 6/2	3000	305	6,1	_	8 📤	3 ~	230/400	0,99/0,57	300
2	HV 6/2-8*	3000	420	8,4	_	11 📤	3 ~	230/400	1,2/0,7	350
3	HV 6/4-11	1500	143	11,5	-	15 📥	3 ~	230/400	0,75/0,43	190
4	HV 6/4-18	1500	220	17,8	-	23 📥	3 ~	230/400	0,75/0,43	190
5	HV 6/6	1000	34	6,1	-	8 📥	3 ~	230/400	0,78/0,45	150
6	HV 6/6-18	1000	98	17,8	-	23 📣	3 ~	230/400	0,78/0,45	150
7	HV 6/8	750	19	6,1	-	8 📥	3 ~	230/400	0,54/0,31	120
8	HV 6/8-18	750	55	17,8	-	23 📥	3 ~	230/400	0,54/0,31	120

Type of protection IP 65 · Insulant class F







Model	Bore. a	s for faste mm b	ening ¹ ø _s	Base c	e measure mm e	ements f	Outs h	side mea mi g	surement m P	s k	Mass kg
HV 6/2	65	140	12	25	157	162	86	114	144	230	7,5
HV 6/2-8	05	140	15	25	157	162	86	114	144	270	87
INV 6/4 11	80	110	11	25	157	162	06	114	144	270	0,7
HV 0/4-11	(115	135	11)	25	15/	102	80	114	144	2/0	9,0
HV 6/4-18	135	115	11	25	157	162	86	114	144	320	11,0
HV 6/•	124	110	11	25	157	162	86	114	144	230	8,0
HV 6/•-18			•	25	157	162	86	114	144	320	11,5

Threephase Vibration Motor

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6303 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 230/400vs. 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed min ⁻¹	Centrif. force daN	Working moment cm kg	Changin centrifug inf. vari.	g of the gal force stepwise	Standa 50	ard voltage 0 cps. V	Nominal current A	Power input W
1	HV 6/2 H	3000	305	6,1	_	8 📣	3 ~	230/400	0,99/0,57	300
2	HV 6/4-18 H	1500	220	17,8	-	23 📤	3 ~	230/400	0,75/0,43	190

WÜ 7025







Model	Bore	es for faste mm	ening	Base	e measur mm	ements	Outside measurements mm				Mass kg
HV	а	b	Ø _S	С	е	f	h	g	р	k	U
6/2 H	80	175	13	25	115	205	86	114	144	230	7,5
6/4-18 H	80	175	13	25	115	205	86	114	144	320	11,0



HV 8

würges



Threephase Vibration Motors

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The bearings NJ 2304 C4 which are lubricated with special grease, i.e. UNIREX N3, make sure an impeccable function and long life. The centrifugal force can be changed by means of mountable eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power input.

* An exeption is type HV 8/2-11. This unit is a special execution and should be used only with storage bins for facilitating the delivery. Mounted bearings: 6303 2Z C4 are lubricated for life.

Standard voltage 230/400vs.·50cps. Other voltages are available. Type of protection IP $65\cdot Insulant \ class \ F$

Line	Model	Synchron. speed min ⁻¹	Centrif. force daN	Working moment cm kg	Changin centrifug inf. vari.	g of the gal force stepwise	Standa 5	ard voltage 0 cps. V	Nominal current A	Power input W
1	HV 8/2	3000	420	8,4	_	11 📤	3 ~	230/400	1,65/0,95	540
2	HV 8/2-11*	3000	535	10,7	_	14 📤	3 ~	230/400	1,65/0,95	540







Model	Bore	s for faste mm	ening	Base	e measur mm	ements	Outs	S	Mass kg		
	а	b	Ø _S	С	е	f	h	g	р	k	
HV 8/2	100	180	18	35	130	210	65	165	124	288	12,0
HV 8/2-11	100	180	18	35	130	210	65	165	124	275	11,5

Threephase Vibration Motors

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The amply dimensioned bearings 6305 2Z C4 are lubricated for life. The centrifugal force can be changed by means of mountable eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power input.



Standard voltage 230/400vs. 50cps. Other voltages are available. Type of protection IP $65\cdot Insulant\ class\ F$

- 1) These units are also available as protection type EEx e II T4. See page 27.
- 2) These units are also available in extremely narrow construktion. See page 21. In addition, these units are also available for flange fastening. See page 20.

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifuş	g of the gal force	Standa 50	rd voltage) cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	e V		А	W
1	HV 12/2 ^{1,2}	3000	600	12	_	8 📣	3 ~	230/400	2,16/1,25	650
2	HV 12/4-18 ^{1,2}	1500	220	18	-	12 🔺	3 ~	230/400	1,43/0,83	450
3	HV 12/4-30 ^{1,2}	1500	375	30	-	20 🔺	3 ~	230/400	1,43/0,83	450
4	HV $12/4-42^2$	1500	525	42	-	15 🔺	3 ~	230/400	1,43/0,83	450
5	HV 12/6-42	1000	223	42	-	15 📥	3 ~	230/400	1,12/0,65	300
6	HV 12/8-42	750	131	42	-	15 📤	3 ~	230/400	1,0/0,6	250







Model	Bore	s for faste mm	ening	Base	Base measurements mm		Outs	s	Mass kg		
HV	а	b	Ø _S	С	е	f	h	g	р	k	
12/2	100	180	18	40	140	215	70	175	138	303	15
12/4-18	100	180	18	40	140	215	70	175	138	303	15,5
12/4-30	100	180	18	40	140	215	70	175	138	350	18,8
12/•-42	100	180	18	50	140	215	80	186	159	330	21

würges



Threephase Vibration Motors

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The bearings NJ 2305 E C4 which are lubricated with special grease, make sure impeccable operation for a long time. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously under consideration of the admissible power input..

Standard voltage 230/400vs. 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 5	urd voltage 0 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	e V		А	W
1	HV 15/2	3000	750	15	-	10 📣	3 ~	230/400	2,16/1,25	650
2	HV 15/2-20	3000	1050	21	-	14 📤	3 ~	230/400	2,7/1,55	900
3	HV 15/2-25	3000	1260	25	-	10 📤	3 ~	230/400	2,7/1,55	900







Model	Bore a	s for fast mm b	ening ø _s	Base	e measur mm e	ements f	Outs h	Outside measurements mm h g p k				
			0					0	•			
HV 15/2	100	180	18	40	140	215	70	175	138	303	16,3	
HV 15/2-20	100	180	18	40	140	215	70	175	138	350	18	
HV 15/2-25	100	180	18	50	140	215	80	186	159	330	19	



HV 30

Threephase Vibration Motors

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The bearings NJ 2206 C4 which are lubricated with special grease, make sure impeccable operation for a long time. The centrifugal force of the bipolar vibrator can be regulated stepwise by means of mountable eccentric weights. The other vibrator types are infinitely variable. Under consideration of the admissible power absorption the vibrator can be run continuously.



Standard voltage 230/400vs. 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 5	urd voltage 0 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V		А	W
1	HV 30/2	3000	1650	32	-	14 📣	3 ~	230/400	2,9/1,7	1000
2	HV 30/4-75	1500	980	78	2	-	3 ~	230/400	2,5/1,43	800
3	HV 30/6-75*	1000	430	78	2	_	3 ~	230/400	2,1/1,2	550
4	HV 30/8-75*	750	245	78	2 🔶	-	3 ~	230/400	1,65/0,95	370

* Used bearings: 6305 2Z C4 lubricated for life.







Model	Bore	s for faste mm	ening	Base	e measure mm	ements	Outs	side meas mi	surement n	S	Mass kg
HV	а	b	Ø _S	С	е	f	h	g	р	k	U
30/2	100	200	18	50	140	235	82	195	161	330	22,5
30/•-75	100	200	18	50	140	235	82	195	161	430	31

würges



Threephase Vibration Motors

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The bearings NJ 407 M C4 which are lubricated with special grease, make sure impeccable operation for a long time. The centrifugal force of the bipolar vibrator can be regulated stepwise by means of mountable eccentric weights. The other vibrator types are infinitely variable. Under consideration of the admissible power absorption the vibrator can be run continuously.

Standard voltage 230/400vs. 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 50	rd voltage) cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	e V		А	W
1	HV 55/2	3000	2500	50	_	12 📣	3~	230/400	6.6/3.8	2100
2	HV 55/4-120	1500	1/150	115	2 🔺		3~	230/400	3 1/1 8	950
4	110))/4-120	1)00	14)0	11)	2.	_	5	230/400	3,1/1,0	950
3	HV 55/6-120	3000	640	115	2 🌰	-	3 ~	230/400	2,4/1,4	690
4	HV 55/8-120	750	362	115	2 🔶	-	3 ~	230/400	2,1/1,2	500







Model	Bore	s for faste mm	ening	Bas	e measur mm	ements	Outs	side mea mi	surement m	S	Mass kg
HV	а	b	Ø _S	С	е	f	h	g	р	k	0
55/2	120	250	22	55	170	300	110	205	240	370	43
55/•-120	120	250	22	55	170	300	110	205	240	430	54

Threephase Vibration Motors

The centrifugal force is transmitted to the equipment to be vibrated directly through the extremely sturdy shields covering the bearings and forming the base of the vibrator. The motor housing is manufactured from highly resistant, heat treated aluminium chill casting. The special bearings NJ 407 C4 or TMB 6407 C4 which are lubricated with special grease, make sure impeccable operation for a long time. The centifugal force is infinitely variable. Under consideration of the admissible power absorption the vibrator can be run continuously. The measurements of the fastening holes are indentical to those of the HV 55 vibrators.



Standard voltage 230/400vs. 50cps. Other voltages are available.

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifus	g of the gal force	Standa 5	ard voltage 0 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V		А	W
1	HV 65/2*	3000	3200	65	2	_	3 ~	230/400	6,6/3,8	2100
2	HV 65/4-200	1500	2500	200	2	-	3 ~	230/400	4,7/2,7	1400
3	HV 65/6-200	1000	1100	200	2	-	3 ~	230/400	3,1/1,8	850
4	HV 65/6-300	1000	1650	300	2	-	3 ~	230/400	3,1/1,8	850
5	HV 65/8-200	750	625	200	2	-	3 ~	230/400	2,1/1,2	500
6	HV 65/8-300	750	930	300	2 🔶	-	3 ~	230/400	2,1/1,2	500

Type of protection IP 65 · Insulant class F

 \ast Fitted with bearings of the typeNJ 407 M C4.







Model	Bore	s for faste mm	ening	Base	e measur mm	ements	Outs	side mea mi	surement m	S	Mass kg
HV	а	b	Ø _S	С	е	f	h	g	р	k	0
65/2	120	250	22	55	200	300	145	280	285	368	?
65/•-200	120	250	22	55	200	300	145	280	285	368	?
65/•-300	120	250	22	55	200	300	145	280	285	468	80

würges



Threephase Vibration Motors

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The bearings NJ 407 C4 which are lubricated with special grease, make sure impeccable operation for a long time. The centrifugal force is infinitely variable. Under consideration of the admissible power absorption the vibrator can be run continuously.

*Exeption: type HV 85/2-120 with 40 % connection time.

Standard voltage 230/400vs. 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 50	urd voltage 0 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	e V		А	W
1	HV 85/2	3000	4300	86	2 🔶	_	3 ~	230/400	12,0/6,9	4200
2	HV 85/2-120*	3000	6100	123	2 🔶	-	3 ~	230/400	12,0/6,9	4200
3	HV 85/4-300	1500	3700	300	2 🌧	-	3 ~	230/400	6,4/3,7	2000
4	HV 85/4-400	1500	5000	397	2 🌰	-	3 ~	230/400	6,4/3,7	2000
5	HV 85/6-400	1000	2200	397	2 🌰	-	3 ~	230/400	5,5/3,2	1500
6	HV 85/8-400	750	1250	397	2 🔶	-	3 ~	230/400	3,8/2,2	950







Model	Bore	s for faste mm	ening	Bas	e measur mm	ements	Outs	side mea mi	surement m	s	Mass kg
ΗV	а	b	Ø _S	С	e	1	h	g	р	k	
85/2	100	300	27	70	175	350	150	280	300	385	75
85/2-120	100	300	27	70	175	350	150	280	300	385	80
85/•-300	100	300	27	70	175	350	150	280	300	475	85
85/4-400	100	300	27	70	175	350	150	280	300	485	100
85/•-400	100	300	27	70	175	350	150	280	300	475	95

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Threephase Vibration Motor

This unit is used as mountable vibration motor in the most various machines. It is mounted between two holding flanges. The mounting position may be as desired. Tumbling vibration motors are admitted also.

The flyweights can be adapted as required for the existing application in view of adjustability and torque. They are not included in the delivery. The delivery of such equipment is optional.

The openly exposed flyweights must be enclosed by the client. In case of non-obsevation of this instruction, risk of accidents is impending. Required protective covers for the assembly of the mounting flanges can be delivered.

The individually manufactured bearings NJ 409 are lubricated with special grease and provides for long-time operation. Grease can be refilled into these bearings through outside grease nipples.

When allowing for the power input the motors can work continuously. As a means of protection for exessive heating up, cold conductors are provided also in the standard execution.

Standard voltage 400vs. · 50cps. Other voltages are available.

Protection class IP X4 $\,\cdot\,$ Insulant class F Terminal box IP 65

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standard voltage 50 cps.	Nominal current	Power input	
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V	А	W	
1			4050	82	_	1 🔶				
2	Supermat	3000	4300	86	2 🔶	-	3 ~ 400	8,0	4800	
3			6100	129	2 🔶	-				

The figures show the flyweight according to line 1.

Model	Bores f	or fasteni	ng and fla	nge meas	surements		linear	measure	ments		Mass
	ø _a	ø _{bk6}	S	ø _c	ød	е	f	g	h	k	кд
Supermat	202	166	M10	230	280	155	257	71,5	304	400	50









Supermat



VFL 12 Flange mounting

Threephase Vibration Motor

These units are used as central drive in round screens and slide grinding systems ect.

The centrifugal flywheels can be displaced with respect to each other by 90° resp. 180° . In this manner a rotary and tumbling movement can be generated.

The extremely sturdy housing is manufactured from highly resistant, heat treated aluminium chill casting. The amply dimensioned bearings 629 ZZ C3 are lubricated for life. The centrifugal force can be changed by means of mountable eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power input.

Standard voltage 230/400vs. 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 5(rd voltage) cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V		А	W
1	VFL 12/2	3000	600	12	_	8 📣	3~	230/400	2,3/1,33	650
2	VFL 12/4-18	1500	220	18	-	12 📥	3~	230/400	1,43/0,83	450
3	VFL 12/4-30	1500	375	30	-	20 📣	3~	230/400	1,43/0,83	450
4	VFL 12/4-42	1500	525	42	-	15 📥	3 ~	230/400	1,43/0,83	450

Model	В	efestigung	s- und Fla	anschmaß	e		Län	igenmaße			Mass
VFL	ø _a	ø _{bh6}	Ø _S	С	ød	е	f	g	h	k	кg
12/2	260	290	13	15	225	135	154	76,5	150	303	17,2
12/4-18	260	290	13	15	225	135	154	76,5	150	303	17,7
12/4-30	260	290	13	15	225	135	177,5	100,5	150	350	21,0
12/4-42	260	290	13	15	225	135	167,5	81,5	150	330	23,2

Threephase Vibration Motor

Narrow construction without pedestal

These units had been devised where only little space is available, su as exist for assembly in ests of two in conveying channels. These units are mounted from the lower side through threaded bores.

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6305 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 230/400vs. \cdot 50cps. Other voltages are available.

Type of protection IP 65 · Insulant class F

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	Standa 5	rd voltage) cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise		V	А	W
			1			- 0			(6
1	HV 12/2 o.F.	3000	600	12	-	8 🌰	3~	230/400	2,3/1,33	650
2	HV 12/4-18 o.F.	1500	220	18	-	12 📥	3 ~	230/400	1,43/0,83	450
3	HV 12/4-30 o.F.	1500	375	30	-	20 📥	3~	230/400	1,43/0,83	450
3	HV 12/4-42 o.F.	1500	255	42	-	15 📥	3~	230/400	1,43/0,83	450

Model	Bore	Bores for fastening mm a b M			Base measurements mm			Outside measurements mm				
HV	а	b	М	С	е	f	h	g	р	k		
12/2 o.F.	100	100	M16	30	140	132	80	135	190	303	15,0	
12/4-18 o.F.	100	100	M16	30	140	132	80	135	190	303	15,5	
12/4-30 o.F.	100	100	M16	30	140	132	80	135	190	350	18,8	
12/4-42 o.F.	100	100	M16	30	140	132	80	135	190	330	21	

HV 12 o.F. without pedestal

Without external influence, 2 MV vibration motors can generate two vibration strengths of constant speed, due to the stury mechanism.

This happens quite easily by changing the sense of revolution with a pole reversing switch or little additional application of force with an electric control unit. Here, it is possible to change over directly from right-hand travel to left-hand travel.

With left-hand travel the maximum values are existing. With right-hand travel we have the reduced vibration values.

In addition, directed vibrations can be generated with the 2 MV unbalance system in the known manner with two units, running in adverse direction with respect to each other. Here the mirror image location of the motors in pairs must be observed.

Even the speed control by means of a frequency converter can become possible under reservation. But here, it must be renounced on smooth running of the motors.

Thus, for instance, it is possible to work with 3000 vibrations a minute, with left-hand revolution, whereas with right-hand revolution and small torque, working is possible with 6000 revolutions a minute.

Other interesting remarks concerning the speed control are given on page 24.

The 2 MV unbalance system can be mounted also in already available units by using 2 MV spares. See the

corresponding commission numbers. The application is limeted to units with 3000 and 5000 revolutions.

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- 2MV -Unbalance System

2MV-Vibration Motors

Model 2 MV 2/2-6

Speed min ⁻¹	Туре	Centrif. (da min.	Force ²⁾ aN) max.	Torc (cm min.	lue ²⁾ kg) max.	Other technical Data are given on page / line ¹⁾	2MV-Unbalance spares com. no.	Number of un- balance flywheels on each side ²⁾
3000	2MV 2/2-2	66	132	1,4	2,8	page 7 / line 2	93155	3 + 3 flywheels
	2MV 2/2-6	132	264	2,8	5,6	page 7 / line 4	93170	6 + 6 flywheels
	2MV 8/2	190	380	3,8	7,6	page 12 / line 1	93300	5 + 5 flywheels
	2MV 12/2	300	600	6	12	page 13 / line 1	93350	4 + 4 flywheels
	2MV 15/2-20	525	1050	10,5	21	page 14 / line 2	93410	7 + 7 flywheels
	2MV 30/2	825	1650	16	32	page 15 / line 1	93510	7 + 7 flywheels
	2MV 55/2	1250	2500	25	50	page 16 / line 1	93550	6 + 6 flywheels
1500	2MV 2/4-2	16,5	33	1,4	2,8	page 7 / line 6	93155	3 + 3 flywheels
	2MV 2/4-6	33	66	2,8	5,6	page 7 / line 8	93170	6 + 6 flywheels
	2MV 2/4-9	55	110	4,5	9	page 7 / line 9	95175	10 + 10 flywheels
	2MV 6/4-18	105	210	8,5	17,0	page 10 / line 4	95264	11 + 11 flywheels
	2MV 12/4-42	245	490	19,5	39	page 13 / line 4	95380	7 + 7 flywheels

 2 MV units have unequal measures and power as the corresponding HV units.
 e.g. 2MV 2/2-2 [^] HV 2/2-2 2) Intermediate values are adjustable by using spacer wheels.
Normal voltage 230/400vs · 50cps.
Other voltages are available.

Frequency Converter

Speed Control For Threephase Vibration Motor

Many operation processes with integrated vibration engineering function much better with an exactly adapted vibration frequency than only with standard speeds of 750, 1000, 1500 or 3000 rps. Using frequency converters, this can be actulized nowadays quite easily. But, for this purpose, in most cases also an efficient control unit is necessary, which is exactly adapted to the requirements. In accordance with the reqirements, these can be manufactured as hand-operated solutions as well as radio-controlled automatic systems.

Offer For Delivery

Along with the vibrations motors, WÜRGES can offer in exclusive responsibility for the proper function required, components, individually adapted turnkey circuits for the control from one supplier. You need not look for suppliers for converters and manufacters of control units.

Important Hints

When selecting the required converter, it is necessary to allow for the power input of the vibrator. The power input can be found in the data sheet for the motor. Since vibration motors are equipment with a harder starting torque, WÜRGES recommend to select frequency converters with 1.8 - 2-fold power output in kVA referred to the motor input in kWs.

e.g. vibration motor HV 15/2-20; power input 0,9 kW; required frequency converter ca.1.6 – 1.8 kVA. Rotary current vibration motors can be controled under reservation with conventional frequency converters.

The speed reduction implies no problem. In case of speed increase in exess of the value indicated on the machine plate, danger of breakeage and accidents is impending by excessive centrifugal force. The control force is increased square with respect to the speed increase.

For this reason, we suggest to you that you enquire with us for hte tolerable maximum final speed of the motor concerned

Electromagnetic Vibrators

The use of electromagnetic vibrators as eccentric weight vibrators is to be recommended in many fields of application, e.g. for filling, weighing, and batching equipment, as the circuit breaker avoids that filling product will follow after the disconnection. Our electromagnetic weight vibrators provide for directional vibrators without adopting any further measures.

Advantage: No rotating parts \cdot free from wear \cdot no maintenance \cdot exclusion of twophase operation.

MR

GMR

For 6000 vibrations a minute with 50cps. frequency of the power line. Voltage commutable to 230 or 400vs.

These electromagnetic vibrators for 3000 vibrations a minute must be operated only with connected rectifier.

Type of protection IP 65 · Insulant class B

Line	Model	Vibrations min ⁻¹	Stand	lard voltage 50 vs. V	Nominal current A	Power input VA
1	MR 1	6000	2 ~	230/400	0,64/0,37	140
2	GMR 1	3000	2 ≂	230/400	0,64/0,37	140

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e	

Model	Bores for fastening mm			Base measurements mm			Outside measurements mm				Mass kg
	а	b	Ø _S	С	е	f	h	g	р	k	U U
MR 1	65	85	9,5	13	185	105	-	56	123	176	3,5
GMR 1	65	85	9,5	13	185	105	-	56	123	176	3,5

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Threephase Vibration Motors Explosion-proof

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6305 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption. Including 2 m of power cabel NSSHöU-J 4 x $1,5^2$, ø 13,5mm.

Standard voltage 400vs $\cdot 50 \text{cps.}$ Other voltages available.

These units have no commutable poles.

Type of protection IP $65 \cdot \text{EEx}$ e II T $3 \cdot$ Insulant class B, suitable for two zones 1, 2, 10, 11. According to the VDE 0165 (VDE = assosiation of German electricians)

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifuş	g of the gal force	Standard voltage 50 cps.	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V	А	W
1	HVE 2/2	3000	88	1,85	_	4 📤	3~ 400	0,34	200
2	HVE 2/2-2	3000	132	2,8	_	6 📥	3~ 400	0,34	200
3	HVE 2/2-4	3000	176	3,7	-	8 📥	3~ 400	0,34	200
4	HVE 2/2-6	3000	286	6	-	13 🔺	3~ 400	0,34	200
5	HVE 2/4	1500	22	1,85	-	4 📤	3~ 400	0,29	120
6	HVE 2/4-2	1500	33	2,8	-	6 📥	3~ 400	0,29	120
7	HVE 2/4-4	1500	44	3,7	-	8 📥	3~ 400	0,29	120
8	HVE 2/4-6	1500	71,5	6	-	13 🔺	3~ 400	0,29	120
9	HVE 2/4-9	1500	110	9	_	20 🔺	3~ 400	0,29	120

Model	Bore	Bores for fastening ¹ mm			Base measurements mm			Outside measurements mm			
HVE	а	b	Øs	С	e	f	h	g	р	k	**8
2/•	65	140	13	25	157	162	80	96	128	189	5,6
2/•-2	80	110	11	25	157	162	80	96	128	201	5,9
2/•-4	{ 115	135	11	25	157	162	80	96	128	215	6,4
2/•-6	135	115	11	25	157	162	80	96	128	250	7,1
2/4-9	124	110	11	25	157	162	80	96	128	283	8,1

Threephase Vibration Motors Explosion-proof

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6305 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

Standard voltage 400vs · 50cps. Other voltages available.

These units have no commutable poles.

Type of protection IP 65 \cdot EEx e II T4 \cdot Insulant class F, suitable for two zones 1, 2, 10, 11. According to the VDE 0165 (VDE = assosiation of German electricians)

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifug	g of the gal force	of the Standard voltage force 50 cps.		Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V	А	W
1	HVE 9/2	3000	600	12	_	8 📣	3 ~ 400	0,69	420
2	HVE 9/4-18	1500	220	18	-	12 📤	3~ 400	0,86	450
3	HVE 9/4-30	1500	375	30	-	20 📥	3~ 400	0,86	450

Model	Bore	s for faste mm	ening	Base	Base measurements mm			Outside measurements mm				
HVE	а	b	Ø _S	С	е	f	h	g	р	k		
9/2	100	180	18	40	140	215	70	135	189	303	16,7	
9/4-18	100	180	18	40	140	215	70	135	189	303	17,3	
9/4-30	100	180	18	40	140	215	70	135	189	350	20,5	

Monophase A.C. Vibraton Motor

A.C. vibrators are used in locations, where no threephase current is available. They are most suitable for table vibrators and the like, as they can work with up to 5000 rpm. <u>without</u> frequency converter. The speed can be regulated down to approximately 2000rpm.

The housing of these vibrators is manufactured from aluminium chill casting. The centrifugal force can be changed stepwise by mountable eccentric weights.

Standard voltage 230vs. · 50-60cps.

Type of protection IP 65 · Insulant class B

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifuş	g of the gal force	Voltage 50 – 60 cps. 1 ~	Nominal current	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	V	А	W
1	HV 6 W	5000	240	1,85	-	4	1 x 230	1	230

Model	Bore a	Bores for fastening ¹ mm a b ø _s			e measure mm e	ements f	Outs h	surements n p	s k	Mass kg	
HV 6 W	$ \begin{cases} 65 \\ 80 \\ (115 \\ 135 \\ 124 \end{cases} $	140 110 135 115 110	13 11 11) 11 11	25	157	162	86	114	144	240	6,3

 1 All mentioned fastening holes are provided in the unit.

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HV 6 GL

D.C. Vibration Motor

D.C. vibrators are used for machines and equipment which work with internal combustion engines.

Power supply will be effected with 12 or 24 volts by means of the battery.

The housing of these vibrators is manufactured from aluminium chill casting. The centrifugal force can be changed stepwise by mountable eccentric weights.

Type of protection IP 65 · Insulant class B

Line	Model	Synchron. speed min ⁻¹	Centrif. force daN	Working moment cm kg	Changin centrifug inf. vari.	g of the gal force stepwise	Voltage D.C. V	Nominal current A	Power input W
1	HV 6 GL-12	3300	140	2,35	_	5 📣	= 12	10	120
2	HV 6 GL-24	3300	140	2,35	-	5 📥	= 24	7	168

Model	Borea	s for faste mm b	ening ¹ ø _s	Base c	e measure mm e	ements f	Outs h	Outside measurements mm h g p k							
hv 6 gl	65 80 (115 135 124	140 110 135 115 110	13 11 11) 11 11	25	157	162	86	114	144	240	7,2				

HF 1

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External Vibrators Of High Frequency

External vibrators of high frequency can be run only with high frequency of 200cps.

These vibrators are prevailingly used in the construction industry for concrete compaction with moulds and formwork.

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6305 2Z C4 are lubricated for life. The centrifugal force can be changed in four steps by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power input consumption.

The winding is completely sealed. Due to this, there is a quick dissipation of heat, which almost excludes burning out.

Type of protection IP 65 · Insulant class F

Standard voltages 250vs.,48vs. or 42vs only for 200cps. Other voltages available.

Line	Model	Synchron. speed min ⁻¹	Centrif. force daN	Working moment cm kg	Changin centrifuş inf. vari.	g of the gal force stepwise	Nomina 200 c 42 vs. A	ll current ps. 3~ 250 vs. A	Power input VA
1	HF 1/4	6000	100	0,5	-	3 📤	5,0	0,85	365

Model	Bore	es for faste mm	ening ¹	Base	e measur mm	ements	Outs	S	Mass kg		
	а	b	Ø _S	С	е	f	h	g	р	k	
HF 1/4	60 65	100 85	9,5 9,5	25	85	120	70	80	110	170	3,6

External Vibrators Of High Frequency

External vibrators of high frequency can be run only with high frequency of 200cps.

These vibrators are prevailingly used in the construction industry for concrete compaction with moulds and formwork.

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings 6303 2Z C4 are lubricated for life. The centrifugal force can be changed stepwise by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power input consumption.

Type of protection IP 65 · Insulant class F

Standard voltages 250vs.,48vs. or 42vs only for 200cps. Other voltages available.

Line	Model	Synchron. speed	Centrif. force	Working moment	Changin centrifus	g of the gal force	Nomina 200 cj 42 vs.	l current ps. 3~ 250 vs.	Power input
		min ⁻¹	daN	cm kg	inf. vari.	stepwise	А	А	VA
1	HF 6/4	6000	305	1,5	_	2 📣	6,5	1,1	475
2	HF 6/8	3000	305	6,1	-	8 📥	9,5	1,6	690

Model	Borea	s for faste mm b	ening ¹ ø _s	Base c	e measure mm e	ements f	Outs h	side meas mr g	surement n P	s k	Mass kg
HF 6/4 HF 6/8	65 80 (115 124 135	140 110 135 110 115	13 11 11) 11 11	25 25	157 157	162 162	86 86	114 114	144 144	270 270	7,4 7,6

External Vibrators Of High Frequency

External vibrators of high frequency can be run only with high frequency of 200cps.

These vibrators are prevailingly used in the construction industry for concrete compaction with moulds and formwork.

The sturdy housing is manufactured from aluminium chill casting. The amply dimensioned bearings NJ 2305 E M C4 are lubricated for life. The centrifugal force can be changed in four steps by taking off the eccentric weights. The vibrator can be run continuously with all the eccentric weights mounted, under consideration of the admissible power consumption.

The winding is completely seald. Due to this, there is a quick dissipation of heat, which almost excludes burning out.

Type of protection IP 65 · Insulant class F

Standard voltages 250vs.,48vs. or 42vs only for 200cps. Other voltages available.

Line	Model	Synchron. speed min ⁻¹	Centrif. force daN	Working moment cm kg	Changin centrifuş inf. vari.	g of the gal force stepwise	Nomina 200 c 42 vs. A	ll current ps. 3~ 250 vs. A	Power input VA
1	HF 15/4	6000	1200	6,15	_	5 📤	16,5	2,8	1200

Model	Bore	s for faste mm	ening	Base	e measure mm	ements	Outs	s	Mass kg		
	а	b	Ø _S	С	е	f	h	g	р	k	U
HF 15/4	100	180	18	40	140	215	70	135	180	302	16,1

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Oscillating Converter

Oscillating Converters for Linear Oscillations

The Problem:

Aligned oscillations are necessary for a number of vibratory processes. They are usually generated by two vibration motors mounted in parallel and rotating opposite one another. Under certain circumstances, the synchronisation of the two motors does not always function properly. The oscillating system

has to be able to oscillate on at least two axes freely in the start-up phase. However, in such things as restricted guidance, this is not the case.

The Expensive Solution:

You can easily correct the problem with a oscillating vibrator that unites the power of two motors working in the opposite direction. Since they are special constructions, oscillating vibrators are relatively expensive and only broken down roughly in their power stages. They are not a part of our scope of supply.

Our Cost-effective Solution:

Our alternative is oscillating converters in connection with standard vibration motors. Both devices are simply screwed together with one another. They function in a similar fashion to oscillating vibrators, but with the advantage of a wide variety of detailed power stages to choose from.

Line	Model	Vibration Motors that match the Oscillating Converters	Mass (kg)	
1	SR – 2	HV 2, HVE 2, HV 6 D, HV 6 GL, HV 6 W und HF 6	3,15	The screws for
2	SR – 15	HV 8, HVE 9, HV 12, HV 15, und HF15	6,9	fastening the
3	SR - 30	HV 30	7,25	motor are a part
4	SR – 55	HV 55, HV 65	28,0	of the scope of delivery.

Model	moun the vib a	ting dim ration m b	iensions iotor in ^Ø s	for mm c	faster the osci A	ning dime llating co B	ensions onverter øS	for in mm C	exterior dimensions for the oscillating converter in mm e f g i							
SR – 2	65	140	13	6	65	140	13	10	120	163	8	135	73			
SR – 15	100	180	18	6	100	180	18	15	135	215	38	195	112			
SR – 30	100	200	18	6	100	180	18	15	135	215	38	195	122			
SR – 55	120	250	M20	20	160	160	18	15	280	195	40	360	165			

Oscillating Converter

Operating Instructions for Oscillating Converters

1. Safety Information

These operating instructions have to be read and understood by every person in the operator's company who is entrusted with the task of installing, starting up, servicing and repairing vibration motors with oscillating converters.

The corresponding operating instructions of the vibration motor used together with the oscillating converter has to also be consulted for a better understanding of these operating instructions.

2. Intended Use

Oscillating converters are only designed for use in vibration technology as connecting links between vibration motors and utility devices. All use going beyond this shall be deemed as non-intended use.

3. Structure

- 1. upper part for fitting the motor
- 2. lower part for fastening the utility device
- 3. the torsion sleeve
- 4. bearings
- 5. the shaft with the tension screws or nuts
- 6. the cable screwed connections
- 7. the screws for fastening the vibration motor
- 8. the transportation securing device

The upper part is lodged soft bending in the torsion sleeve opposite the lower part towards the side. It is connected vertically with the lower part free of backlash above the ball bearing and shaft.

4. How It Functions

The circular oscillation of the vibration motor is transmitted almost linearly through the converter to the utility device. Only the oscillations occurring horizontally to the motor fastening surface are passed onto the lower part. The transverse oscillation is run out from the upper part.

5. Instructions for Mounting

First of all, the vibration motor has to be screwed together with the oscillating converter. Please use the screws included for this (item 7) and fasten them with the appropriate torque (refer to the operating instructions for vibration motors, the section on mounting information).

Now the motor and oscillating converter can be built onto the utility device.

The mounting position as in Figure 2 with a vertical motor is preferable because the torsion sleeve is under less load.

The fastening surface for the oscillating converter has to be flat and stiff to bending so that the lower part cannot deformed. Use quality class 8.8 fastening screws and quality class 6 nuts, secure them with split washers and tighten them with the same torsion as earlier when fastening the motor.

6. Information on the Electrical Connection

Connect the cable in accordance with the operating instructions for the motor and always use the heavy rubber hose line NSSHÖU-J as stated. The cable should be put through the cable screwed connections on the lower part again in a tight arch to avoid damaging natural oscillations.

7. Instructions for First Start Up

The upper part of the oscillating converter was rigidly fixed onto the lower part with a transportation securing screw at the factory. Therefore, you should always remove this screw before starting up as stated on the glued on sign. Check the connecting line for impermissible resonating oscillation and chafe marks during operation and change the cable's position if necessary.

8. Storage and Transportation

The transportation securing device may be temporarily remounted during transportation. However, you should also make reference to this hazard point action in your own operating instructions in accordance with Point 7.

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