

Unbalance Motors
KEEPING BULK MATERIAL
ON THE MOVE



AViTEQ Vibration Technology

WE DRIVE YOUR SUCCESS

For more than 75 years, AViTEQ Vibrationstechnik GmbH has provided oscillating conveyor solutions to almost 350,000 projects. Our extensive experience and vibrating conveyor expertise is evident with our 125 AViTEQ employees worldwide, who are always to support our international client base.

UNSHAKEABLE QUALITY

AViTEQ systems and components feature comprehensive functionalities including: conveying, sorting and dosing, screening, classifying and dewatering, compacting and loosening, cooling and heating of various bulk materials. We provide extremely varied solutions and can apply these functionalities to suit small pills and coffee beans, as well as rocks and metal pieces weighing tons.

Every bulk material has its own special requirements and AViTEQ is most likely experienced with the process, as we have designed systems and components for more than 1,000 bulk materials to date. Endurance tests performed in our technical laboratories and numerous finite element calculations ensure the highest quality of our components and systems. Experience the unshakeable quality of AViTEQ.

AViTEQ Worldwide



AViTEQ Product Portfolio

QUALIFIED PARTNER FOR SYSTEMS AND COMPONENTS

Systems

AViTEQ plans and realises vibration and process engineering solutions. Furthermore, a comprehensive offer including all-round service is made possible through AViTEQ and AEG.



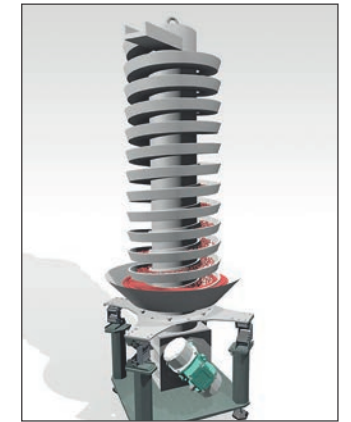
Hopper Discharge Units



Vibrating Screens



Tubular feeders



Spiral Conveyors

Components

AViTEQ develops, builds and distributes drive components and control systems for vibrating conveyor systems. We also offer 24-hour replacement part support from the spare part warehouse, as well as various repair services (in-house or on-site).



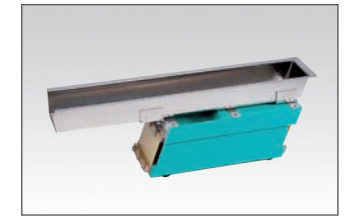
Unbalance Motors



Magnetic Vibrators



Parts Conveyors



Small Conveyors

UNBALANCE MOTORS

Unbalance motors by AViTEQ are specifically designed for discharging and conveying of bulk materials over long distances, as well as screening and dewatering. Renown for high performance, the unbalance motors also offer maximum operational availability and durability. Suitable for 50/60 Hz networks. The following pages offer you additional information about the more than 50 applications types available.

Unbalance Motors by AViTEQ

PERFORMANCE WITH LOYALTY

You can rely on a powerful and reliable performance with unbalance motors by AViTEQ. The performance drive with a robust design also features numerous clever details. Moreover, our superior production quality ensures a longer operation life – one of the many reasons we have been loyally serving many clients for more than 20 years.

Regardless of its surroundings, the unbalance motors by AViTEQ deliver high performance with energy-efficient consumption. What's more, thermistor protection and tropicalization are series standards. Select models also meet requirements for ATEX directives for zones 21 and 22, as well as CSA Classes I and II. AViTEQ unbalance motors are engineered for long lasting performance.

TERMINAL BOARD

6-pin fully mounted (voltage up to 690 V without additional insulation).

- ADVANTAGE: solidly mounted, no risk of vibration fatigue failure

CABLE GLAND

Simple electric connection (IP 66), second separate cable gland for thermistor connection.

- ADVANTAGE: easy-fit and high operational reliability

THERMISTOR

Thermistor protection as standard from model size UVA. Easy operation with speed controller.

- ADVANTAGE: electric motor protection in unforeseeable operating status, universal application, low downtime costs

COVER

Easy handling. Dustproof and waterproof by o-ring flange seal.
 Sizes: B, C, D, F, G, H, K, L made of stainless steel
 Sizes: N, P made of aluminium cast

- ADVANTAGE: minimal downtimes during servicing

WINDING

Embedded in high quality resin; resistant to vibration, moisture and dust; armature shaft made of alloy steel.

- ADVANTAGE: Reliable operation in harsh environments

PERFORMANCE DATA OVERVIEW

Centrifugal force range: 40 – 119,000 N

Working moment: 0.08 – 2.763 kgcm

Working weight: 1 – 11,250 kg

Rated Power: 0.03 – 10,000 W

Temperature range: -20 °C – + 40 °C / + 55 °C

Mains connection: Three-phase current/alternating current (50 or 60 Hz) for conventional voltages up to 690 V

Synchronous speeds:

50 Hz network: 750; 1,000; 1,500; 3,000 min⁻¹

60 Hz network: 900; 1,200; 1,800; 3,600 min⁻¹

OUR STANDARDS FOR SAFETY



UNBALANCE WEIGHTS

Adjustable and permanent legible setting scale.

- ADVANTAGE: quick and precise settings

BALL-/ROLLER BEARINGS

Oversized ball-/roller bearings and continuous lubrication or re-lubrication option.

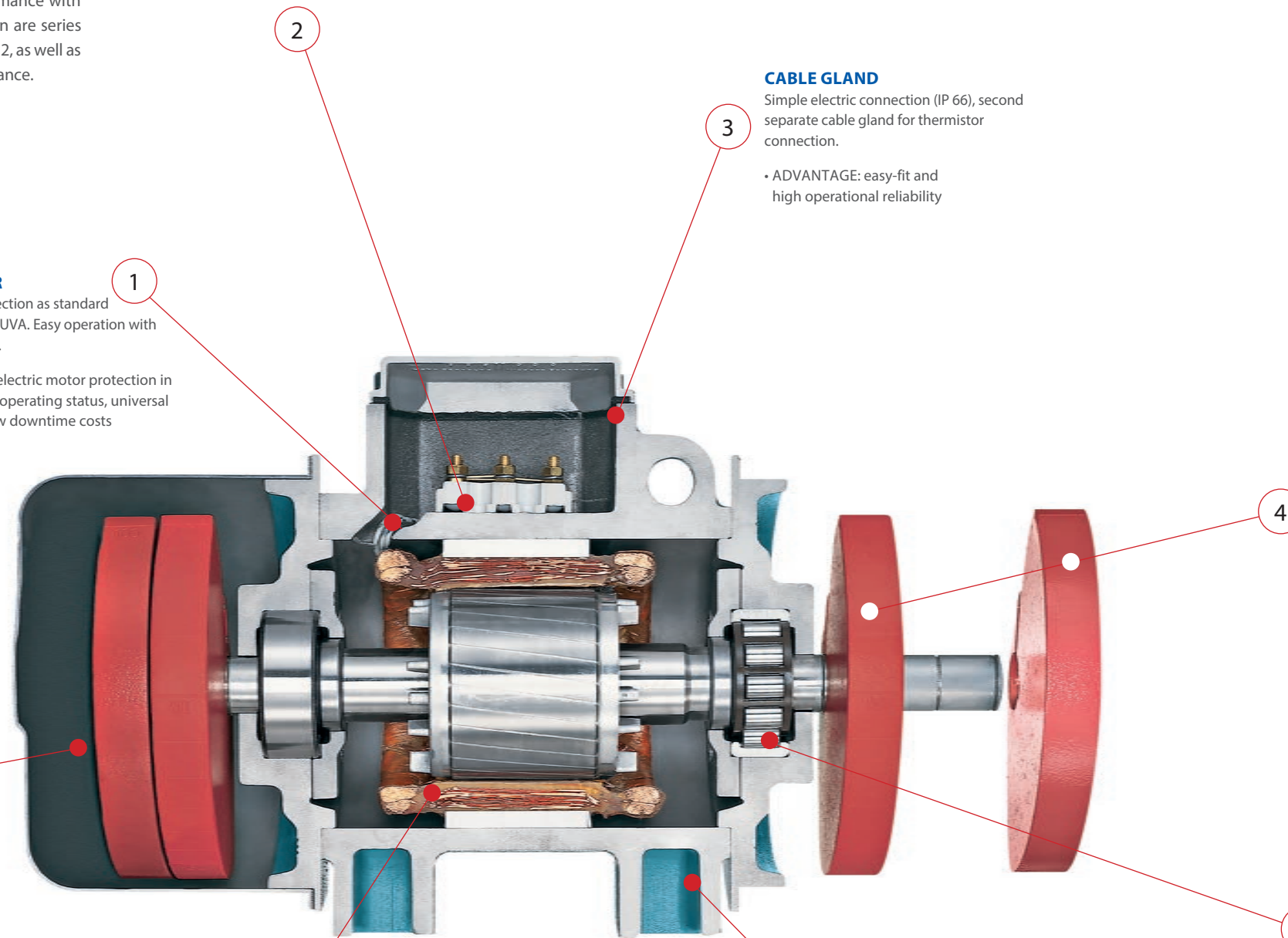
- ADVANTAGE: long service-life, continuous operation at 100% centrifugal force setting, low maintenance costs

COVER

Tall feet for the extension of mounting screws; mounting in any position possible; suitable for high stress and large thermal reserve.

Up to Size L: made of stainless steel
 Size N and larger: made of cast aluminium

- ADVANTAGE: reliable with high levels of stress, long-lasting



Design and Motor Selection

THE RIGHT MOTOR IN AN INSTANT

DESIGN

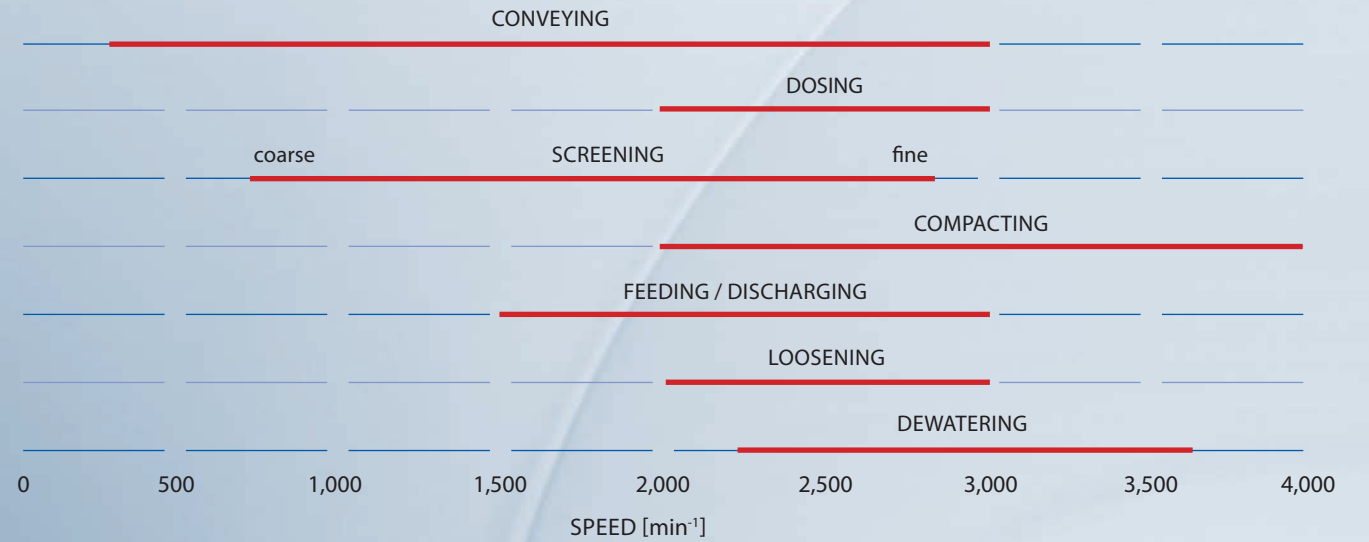
The vibration amplitude is the central benchmark in designing an unbalance motor. Together with acceleration of the respective frequency, the vibration amplitude delivers the power, which flows from the drive to the working unit. The motor characteristics on the next page demonstrate the optimal motor. The diagrams give you a quick and easy overview of the vibration amplitudes for all motor types, in relation to working weights.

DIRECTION OF ROTATION

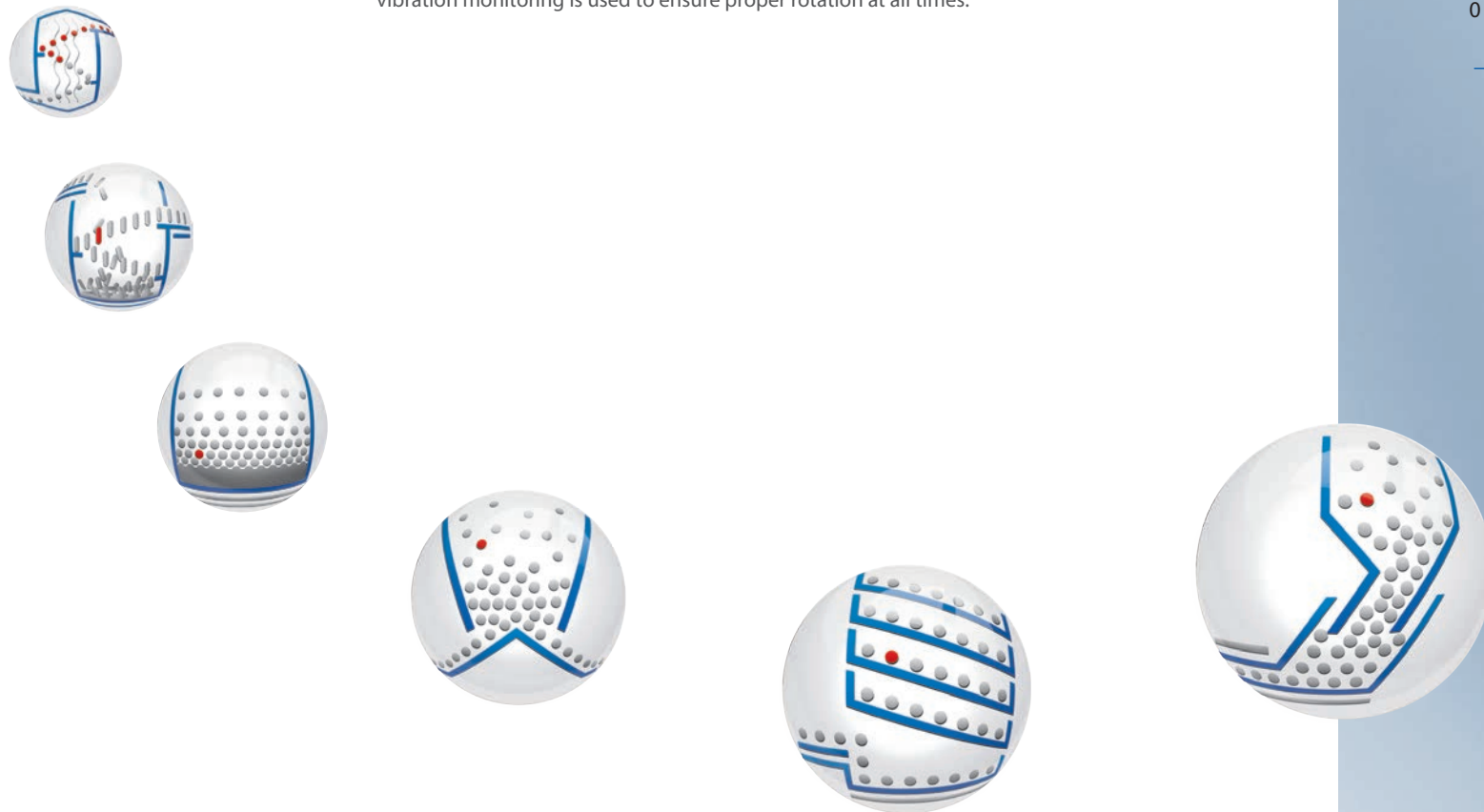
To ensure linear vibrations on longitudinal conveyors, such as trough feeders or vibrating screens, at least two motors with counter-rotating directions are required. Devices with torsional vibration, however, require drives with the same direction of rotation. Such intricate details, even in short-term operations, can cause major damage to working units.

The mounting of the motor must take place on a rigid drive part, to avoid the significant risk of breaking. Furthermore, the motors cannot synchronize automatically and would exceed the energy consumption limitations. With large and long-distance longitudinal conveyors, cross vibration monitoring is used to ensure proper rotation at all times.

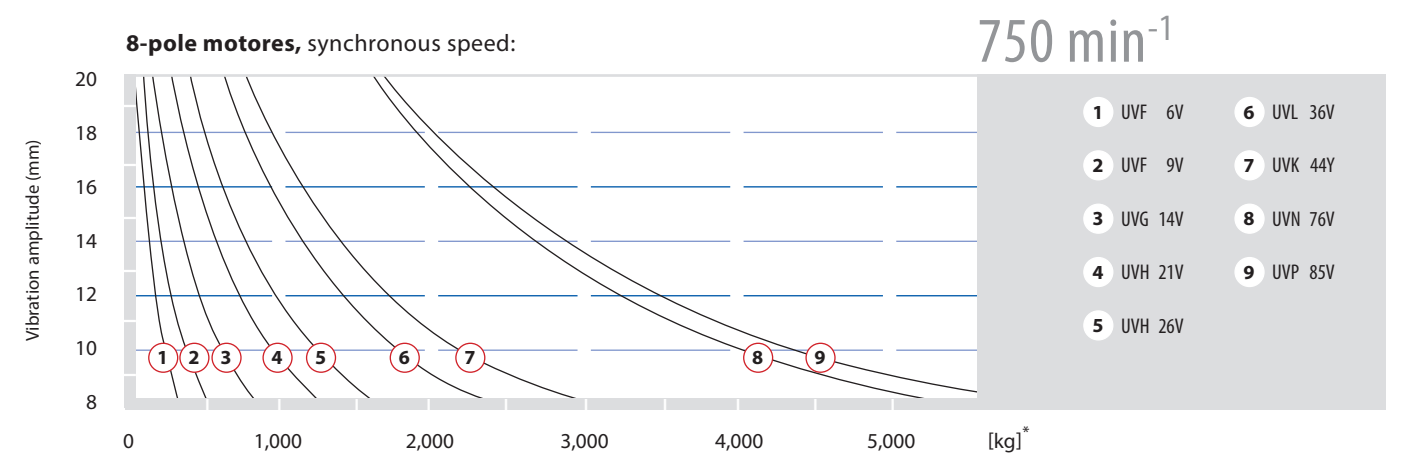
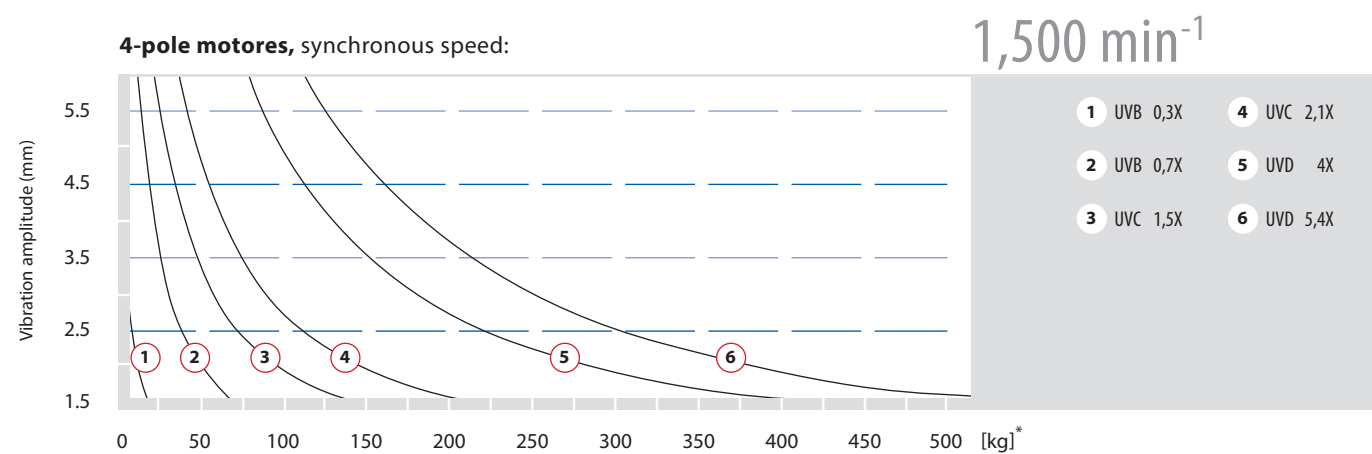
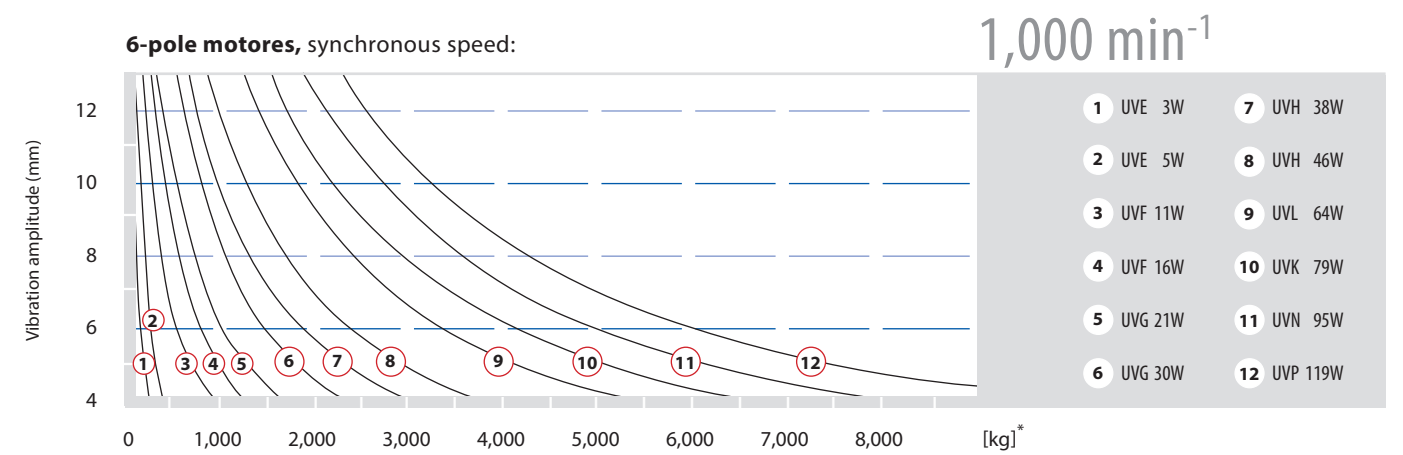
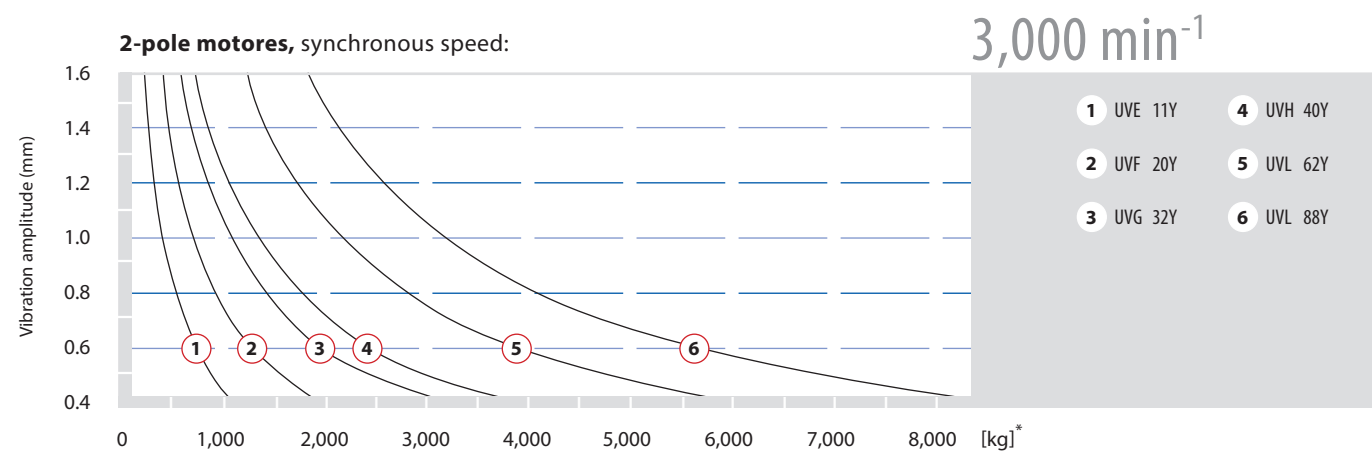
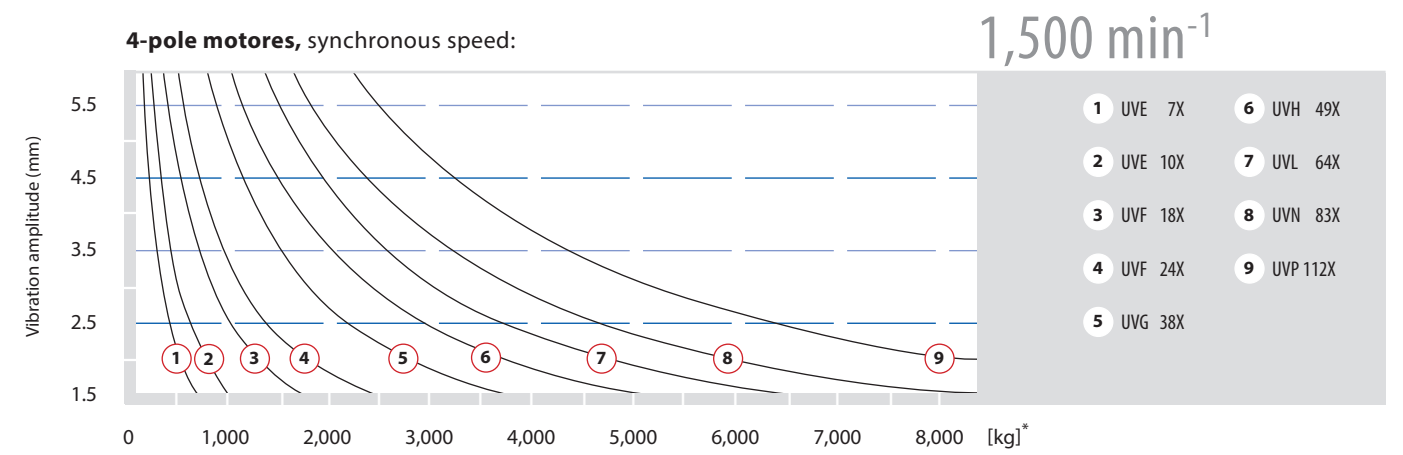
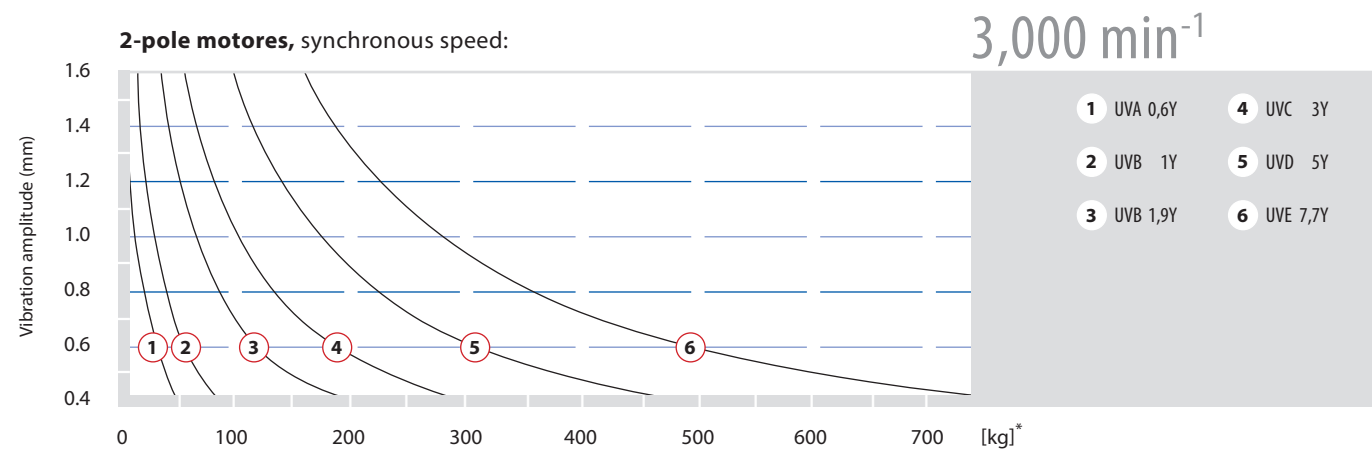
STEP 1 TO THE RIGHT MOTOR: FUNCTIONALITY



Depending on the type of application, vibration amplitudes and acceleration values are calculated based on the nominal speed in the relevant network

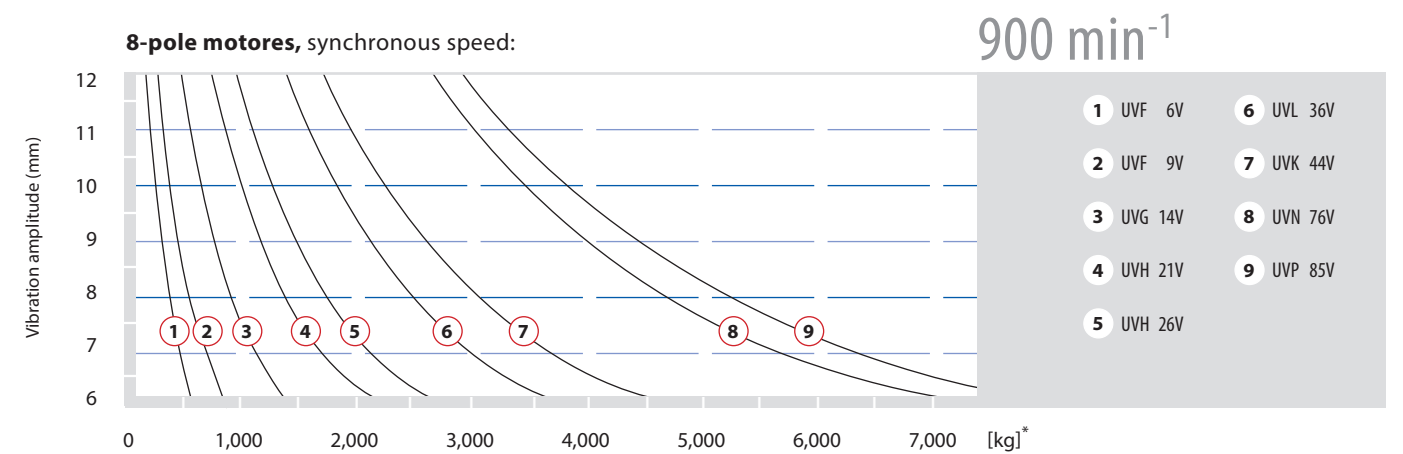
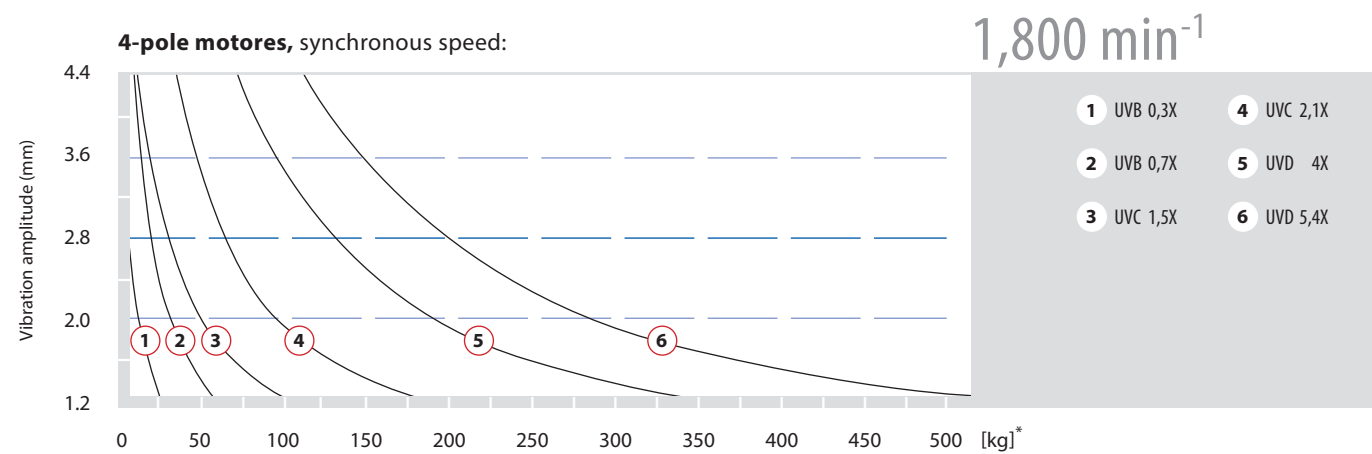
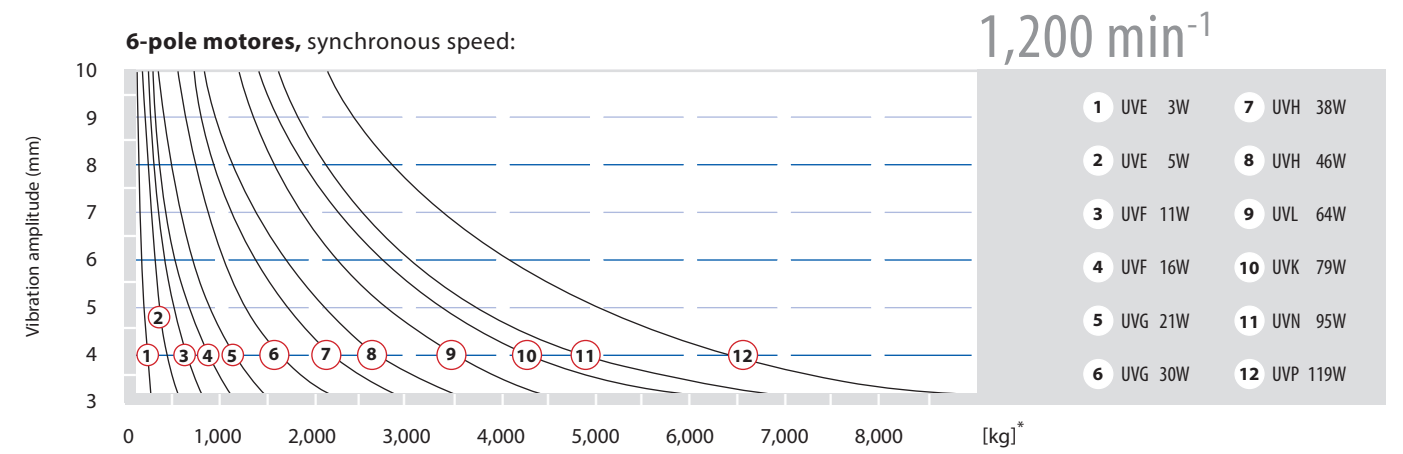
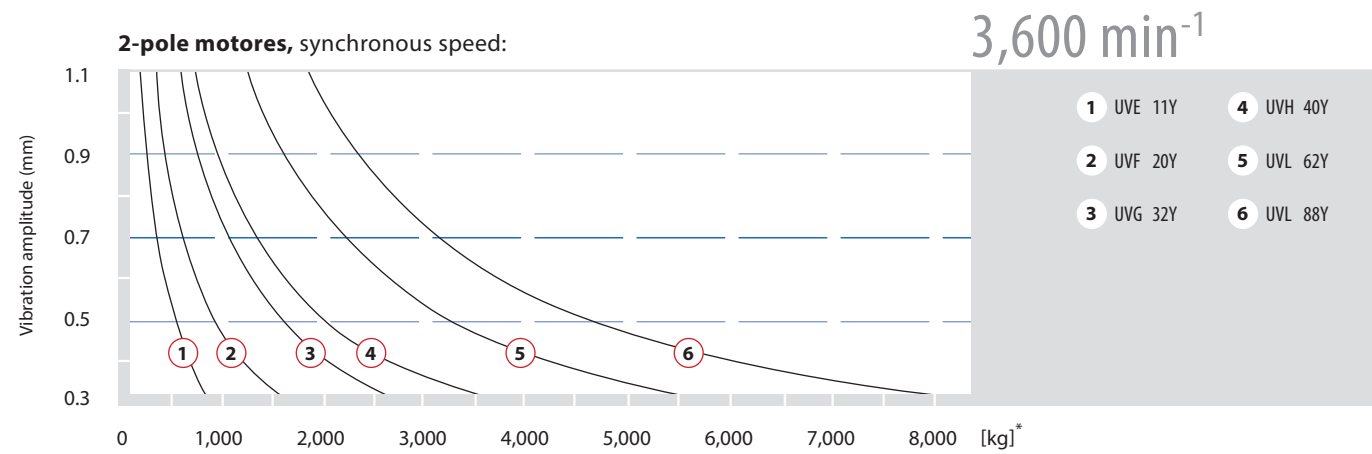
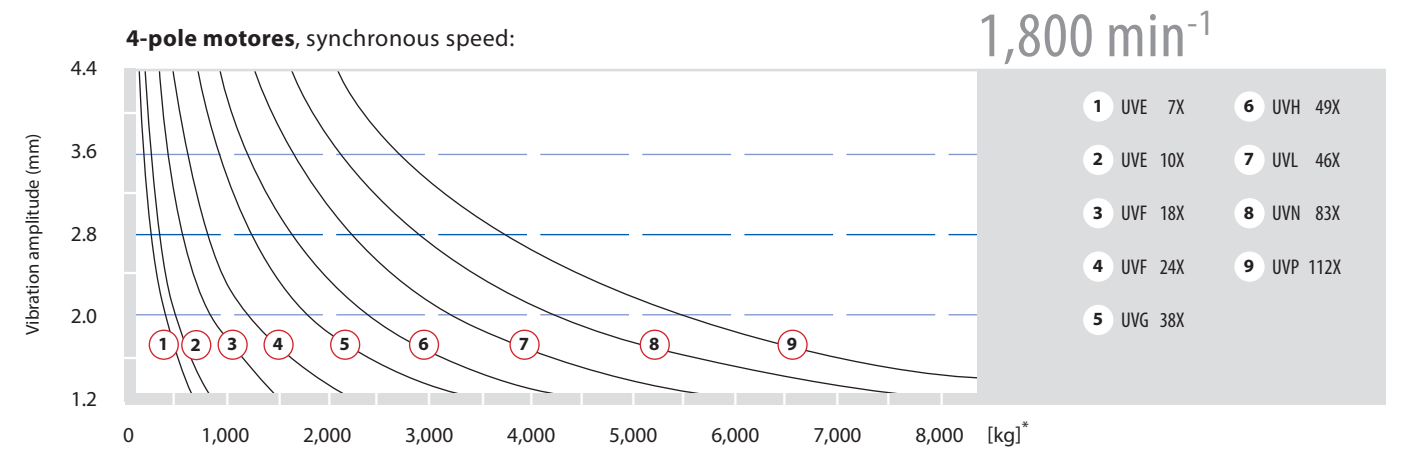
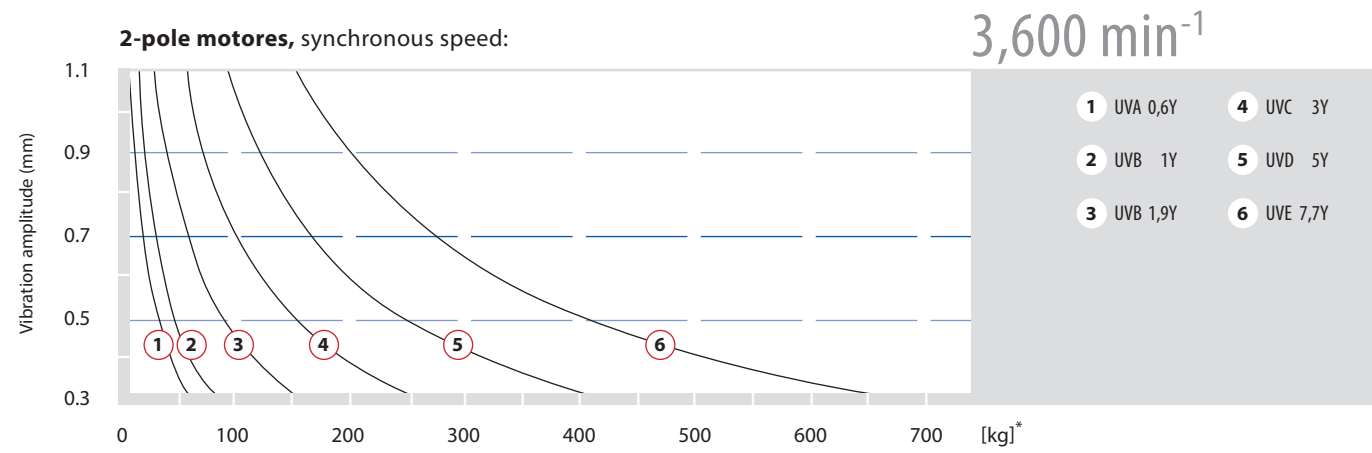


PERFORMANCE CHARACTERISTICS IN A 50 HZ MAINS FREQUENCY



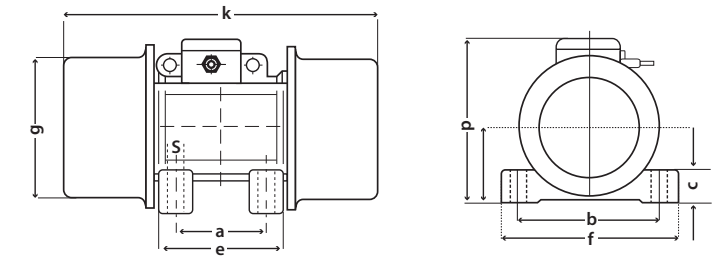
*Working weight [kg] – when driven by two motors

PERFORMANCE CHARACTERISTICS IN A 60 HZ MAINS FREQUENCY



*Working weight [kg] – when driven by two motors

2-POLE AND 4-POLE MOTORS FOR A 50 HZ MAINS FREQUENCY



Dimensions [mm]

Series UV	Series eUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]	
					from	to	230 V	400 V		
2-pole motores (3,000 min ⁻¹)										
UV1A 0,04Y ²⁾	+	-	39	0.08	0.85	impact vibrator	impact vibrator	0.13	N.A.	0.02
UVA 0,6Y	+	-	608	1.22	4.1	13	52	0.47	0.27	0.12
UVB 1Y	+	+	981	1.96	5.6	16	89	0.61	0.35	0.18
UVB 1,9Y	+	+	1,890	3.82	6.4	38	183	0.61	0.35	0.18
UVC 3Y	+	+	2,980	6.02	9.7	59	284	1.04	0.60	0.26
UVD 5Y	+	+	4,930	9.98	14.8	99	473	1.39	0.80	0.45
UVE 7,7Y	+	+	7,700	15.60	16.8	161	746	1.91	1.10	0.65
UVE 11Y	+	+	10,800	22.00	23.0	230	1,060	3.05	1.75	1.00
UVF 20Y	+	-	20,200	41.00	46.0	420	1,940	5.75	3.30	2.00
UVG 32Y	+	-	31,600	64.00	103.0	595	2,995	11.30	6.50	4.00
UVH 40Y	+	-	40,000	81.00	145.0	725	3,760	11.30	6.50	4.00
UVL 62Y	+	-	62,400	126.00	184.0	1,210	5,930	16.00	9.20	5.50
UVL 88Y	+	-	88,400	179.00	215.0	1,810	8,520	31.30	18.00	10.00

a	b	c	e	f	g	h	k	p	s	Screws
25 - 40	75	9	59	90	65	34	113	67	5.5	M5
62.5	95	24	86	127	96	70	197	123	11.5	M10
68.0	106	24	100	125	100	61	209	153	9.0	M8
68.0	106	24	100	125	100	61	225	153	9.0	M8
90.0	125	28	125	152	124	73	255	179	13.0	M12
105.0	140	30	140	167	143	83	284	203	13.0	M12
120.0	170	45	160	205	168	94	308	215	17.0	M16
120.0	170	54	162	205	181	105	354	225	13.0	M12
125.0	210	65	175	260	201	125	490	254	17.0	M16
165.0	260	65	230	330	270	160	594	334	26.0	M24
280.0	290	70	345	355	296	173	682	363	26.0	M24
200.0	320	90	270	390	334	189	666	381	28.0	M27
200.0	320	100	270	392	355	192	633	395	28.0	M27

Series UV	Series eUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]	
					from	to	230 V	400 V		
4-pole motores (1,500 min ⁻¹)										
UVB 0,3X	+	-	265	2.0	5.60	1	19	0.36	0.21	0.09
UVB 0,7X	+	-	746	5.9	6.7	9	68	0.36	0.21	0.09
UVC 1,5X	+	+	1,460	11.8	11.7	19	137	0.71	0.41	0.17
UVC 2,1X	+	+	2,090	16.8	12.5	34	203	0.71	0.41	0.17
UVD 4X	+	+	4,040	32.6	19.0	75	400	1.04	0.60	0.30
UVD 5,4X	+	+	5,420	43.8	20.4	108	546	1.04	0.60	0.30
UVE 7X	+	+	7,060	57.2	25.0	140	715	1.60	0.92	0.53
UVE 10X	+	+	10,300	83.0	35.0	206	1,040	1.65	0.95	0.55
UVF 18X	+	+	17,600	143.0	51.0	375	1,800	3.50	2.00	1.10
UVF 24X	+	+	23,700	192.0	71.0	500	2,400	5.55	3.20	1.60
UVG 38X	+	+	37,700	305.0	122.0	775	3,825	6.75	3.90	2.20
UVH 49X	+	+	49,100	398.0	168.0	990	4,970	10.40	6.00	3.60
UVL 64X	+	-	64,100	520.0	208.0	1,320	6,520	18.20	10.50	6.00
UVN 83X	+	+	82,600	669.0	317.0	1,600	8,290	21.10	12.20	7.50
UVP 112X	+	-	112,000	909.0	433.0	2,165	11,255	30.30	17.50	10.00

a	b	c	e	f	g	h	k	p	s	Screws
68	106	24	100	125	100	61	209	153	9.0	M8
68	106	24	100	125	100	61	225	153	9.0	M8
90	125	28	128	152	124	73	295	179	13.0	M12
90	125	28	128	152	124	73	295	179	13.0	M12
105	140	30	140	167	143	83	340	203	13.0	M12
105	140	30	140	167	143	83	380	203	13.0	M12
120	170	45	160	205	168	94	378	215	17.0	M16
120	170	54	162	205	181	105	436	225	13.0	M12
125	210	65	175	260	201	125	490	255	17.0	M16
125	210	65	175	260	231	140	525	278	17.0	M16
165	260	65	230	330	270	160	594	334	26.0	M24
280	290	70	345	355	296	173	682	363	26.0	M24
200	320	90	270	390	334	189	666	381	28.0	M27
2 x 125	380	35	320	460	387	215	866	436	38.0	6 x M36
2 x 140	440	38	370	530	420	230	994	454	44.0	6 x M42

+ Available
- Not available



All UV series are CE certified



Series UV: within normal range (Germany **and** explosion-proof areas (Zone 21 + 22)) in accordance with:
Ex II 2D tD A21 IP66 T 135°C

Series eUV: hazardous areas for dust (Zone 21 + 22) **and** gas explosion areas in accordance with:
Ex II 2D tD A21 IP66 T 135°C, Ex II G e II T3 and/or T4 - Ex 2 D tD A21 IP66 T 135°C

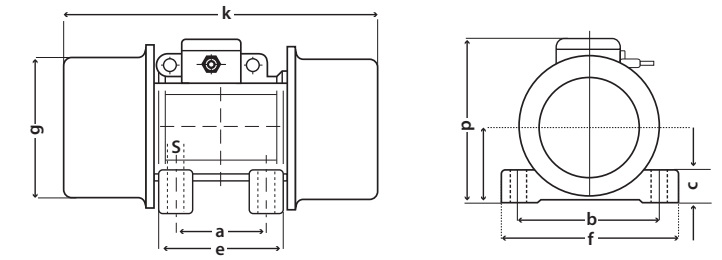
¹⁾ driven by two unbalance motors

²⁾ 1-phase alternating current unbalance motor with permanently installed three-core cable, only available in 230V/50Hz or 115V/60Hz
Motor housing type UV1A 0.04Y and UVA 0.6Y Alu blank. From Type UVB... in standard color RAL 5018 powder-coated (other colors upon request)

³⁾ Series eUV, fUV und cUV have deviating technical data



6-POLE AND 8-POLE MOTORS FOR A 50 HZ MAINS FREQUENCY



Series UV	Series eUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]	
					from	to	230 V	400 V		
6-pole motores (1,000 min⁻¹)										
UVE 3W	+	-	3,150	57	25.0	40	235	1.25	0.72	0.35
UVE 5W	+	-	5,020	91	36.5	67	380	1.30	0.75	0.35
UVF 11W	+	-	11,100	202	58.0	195	895	2.85	1.65	0.75
UVF 16W	+	-	16,100	293	83.0	286	1,300	3.80	2.20	1.10
UVG 21W	+	-	21,100	385	130.0	335	1,665	7.15	4.10	1.96
UVG 30W	+	-	29,500	538	145.0	540	2,400	7.80	4.50	2.20
UVH 38W	+	-	37,500	684	195.0	665	3,030	8.83	5.10	2.50
UVH 46W	+	-	46,100	841	211.0	870	3,785	11.30	6.50	3.20
UVL 64W	+	-	64,000	1,168	263.0	1,270	5,315	14.30	8.20	4.30
UVK 79W	+	-	78,900	1,439	327.0	1,560	6,540	21.90	12.60	7.00
UVN 95W	+	-	95,100	1,735	384.0	1,900	7,910	23.50	13.50	7.60
UVP 119W	+	-	119,000	2,163	500.0	2,330	9,815	28.30	16.30	9.00

Dimensions [mm]

a	b	c	e	f	g	h	k	p	s	Screws
120	170	45	160	205	168	94	378	215	17.0	M16
120	170	54	162	205	181	105	436	225	13.0	M12
125	210	65	175	260	201	125	560	255	17.0	M16
125	210	65	175	255	231	140	600	279	17.0	M16
165	260	65	230	330	270	160	662	334	26.0	M24
165	260	65	230	330	270	160	710	334	26.0	M24
280	290	70	345	355	296	173	774	363	26.0	M24
280	290	70	345	355	296	173	834	363	26.0	M24
200	320	90	270	390	334	189	840	381	28.0	M27
280	400	65	350	465	359	200	878	403	33.0	M30
2 x 125	380	35	320	460	387	215	866	436	38.0	6 x M36
2 x 140	440	38	370	530	420	230	994	454	44.0	6 x M42

Series UV	Series eUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]	
					from	to	230 V	400 V		
8-pole motores (750 min⁻¹)										
UVF 6V	+	-	6,250	202	58	86	388	2.40	1.40	0.40
UVF 9V	+	-	9,045	293	83	128	566	3.80	2.20	0.95
UVG 14V	+	-	14,350	465	130	175	810	7.15	4.10	1.50
UVH 21V	+	-	21,110	684	195	295	1,320	9.40	5.40	2.00
UVH 26V	+	-	25,950	841	211	420	1,680	10.40	6.00	2.50
UVL 36V	+	-	36,020	1,168	263	640	2,395	14.30	8.20	4.00
UVK 44V	+	-	44,400	1,439	327	785	2,945	17.10	9.90	4.90
UVN 76V	+	-	76,440	2,478	438	1,600	5,320	22.90	13.20	6.80
UVP 85V	+	-	85,240	2,763	540	1,685	5,830	24.30	14.00	7.60

a	b	c	e	f	g	h	k	p	s	Screws
125	210	65	175	260	201	125	560	255	17.0	M16
125	210	65	175	255	231	140	600	279	17.0	M16
165	260	65	230	330	270	160	710	334	26.0	M24
280	290	70	345	355	296	173	774	363	26.0	M24
280	290	70	345	355	296	173	834	363	26.0	M24
200	320	90	270	390	334	189	840	381	28.0	M24
280	400	65	350	465	359	200	878	403	33.0	M30
2 x 125	380	35	320	460	387	215	1,002	436	38.0	6 x M36
2 x 140	440	38	370	530	423	230	1,070	454	44.0	6 x M42

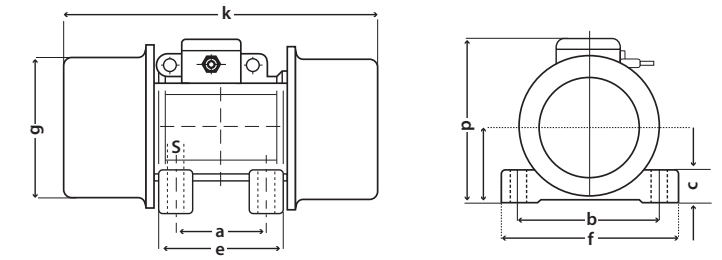
+ Available
- Not available

CE All UV series are CE certified
 Ex Series UV: within normal range (Germany **and** explosion-proof areas (Zone 21 + 22)) in accordance with: Ex II 2D tD A21 IP66 T 135°C
 Series eUV: hazardous areas for dust (Zone 21 + 22) **and** gas explosion areas in accordance with: Ex II 2D tD A21 IP66 T 135°C, Ex II G e II T3 and/or T4 – Ex 2 D tD A21 IP66 T 135°C

¹⁾ driven by two unbalance motors
²⁾ 1-phase alternating current unbalance motor with permanently installed three-core cable, only available in 230V/50Hz or 115V/60Hz
 Motor housing type UV1A 0.04Y and UVA 0.6Y Alu blank. From Type UVB... in standard color RAL 5018 powder-coated (other colors upon request)
³⁾ Series eUV, fUV und cUV have deviating technical data



2-POLE AND 4-POLE MOTORS FOR A 60 HZ MAINS FREQUENCY



	Series UV	Series fUV ³⁾	Series cUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]
							from	to	265 V	460 V	
2-pole motores (3,600 min ⁻¹)											
UV1 A 0,04Y ²⁾	+	-	-	59	0.08	0.85	impact vibrator	impact vibrator	0.30	N.A.	0.02
UVA 0,6 Y	+	-	-	690	0.98	4.1	10	57	0.40	0.23	0.12
UVB 1Y	+	+	+	942	1.31	5.6	16	79	0.52	0.30	0.18
UVB 1,9Y	+	+	+	1,740	2.42	6.2	35	152	0.52	0.30	0.18
UVC 3Y	+	+	+	2,910	4.08	9.2	58	256	0.87	0.50	0.27
UVD 5Y	+	+	+	4,620	6.48	14.8	93	407	1.30	0.75	0.50
UVE 7,7Y	+	+	+	7,400	10.40	15.9	157	661	1.74	1.00	0.69
UVE 11Y	+	+	+	10,400	14.60	22.0	220	940	3.05	1.75	1.20
UVF 20Y	+	+	+	18,200	25.60	44.0	380	1,640	5.05	2.90	2.00
UVG 32Y	+	+	+	31,300	44.10	99.0	605	2,745	9.70	5.60	4.00
UVH 40Y	+	-	-	40,200	56.60	141.0	750	3,490	9.70	5.60	4.00
UVL 62Y	+	+	+	63,000	88.60	178.0	1,255	5,550	13.90	8.00	5.50
UVL 88Y	+	-	-	88,000	124.00	210.0	1,835	7,850	22.50	13.00	9.30

Dimensions [mm]

	a	b	c	e	f	g	h	k	p	s	Screws
UV1 A 0,04Y ²⁾	24-40	75	9	50	90	56	31	104	69	5.5	M5
UVA 0,6 Y	62.5	95	24	86	127	96	70	197	123	12.0	M10
UVB 1Y	68.0	106	24	100	125	100	61	209	153	9.0	M8
UVB 1,9Y	68.0	106	24	100	125	100	61	225	153	9.0	M8
UVC 3Y	90.0	125	28	125	152	124	73	255	179	13.0	M12
UVD 5Y	105.0	140	30	140	167	143	83	284	203	13.0	M12
UVE 7,7Y	120.0	170	45	160	205	168	94	308	215	17.0	M16
UVE 11Y	120.0	170	54	162	205	181	105	354	225	13.0	M12
UVF 20Y	125.0	210	65	175	260	201	125	490	254	17.0	M16
UVG 32Y	165.0	260	65	230	330	270	160	594	334	26.0	M24
UVH 40Y	280.0	290	70	345	355	296	173	682	363	26.0	M24
UVL 62Y	200.0	320	90	270	390	334	189	666	381	28.0	M27
UVL 88Y	200.0	320	100	270	392	355	192	633	395	28.0	M27

	Series UV	Series fUV ³⁾	Series cUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]
							from	to	265 V	460 V	
4-pole motores (1,800 min ⁻¹)											
UVB 0,3X	+	+	+	373	2.10	5.6	1	25	0.35	0.20	0.10
UVB 0,7X	+	+	+	765	4.20	6.4	9	60	0.35	0.20	0.10
UVC 1,5X	+	+	+	1,260	7.10	11.7	12	98	0.69	0.40	0.17
UVC 2,1X	+	+	+	2,100	11.80	11.7	34	176	0.69	0.40	0.17
UVD 4X	+	+	+	4,030	22.60	18.2	71	345	1.04	0.60	0.35
UVD 5,4X	+	+	+	5,810	32.60	19.0	113	508	1.04	0.60	0.35
UVE 7X	+	+	+	7,460	41.80	22.0	145	655	1.70	0.98	0.67
UVE 10X	+	+	+	9,630	54.20	31.0	185	840	1.65	0.95	0.68
UVF 18X	+	+	+	17,200	97.00	48.5	345	1,520	3.30	1.90	1.20
UVF 24X	+	+	+	24,000	135.00	66.0	480	2,120	5.20	3.00	1.70
UVG 38X	+	+	+	36,700	207.00	117.0	685	3,215	6.75	3.90	2.50
UVH 49X	+	+	+	48,500	273.00	160.0	895	4,230	8.70	5.00	3.40
UVL 64X	+	+	+	64,700	364.00	195.0	1,230	5,675	15.60	9.00	6.00
UVN 83X	+	+	+	87,500	492.40	303.0	1,580	7,595	20.80	12.00	8.50
UVP 112X	+	+	+	112,000	633.20	411.0	1,990	9,730	26.80	15.50	10.50

	a	b	c	e	f	g	h	k	p	s	Screws
UVB 0,3X	68	106	24	100	125	100	61	209	153	9.0	M8
UVB 0,7X	68	106	24	100	125	100	61	225	153	9.0	M8
UVC 1,5X	90	125	28	128	152	124	73	295	179	13.0	M12
UVC 2,1X	90	125	28	128	152	124	73	295	179	13.0	M12
UVD 4X	105	140	30	140	167	143	83	340	203	13.0	M12
UVD 5,4X	105	140	30	140	167	143	83	380	203	13.0	M12
UVE 7X	120	170	45	160	205	168	94	378	215	17.0	M16
UVE 10X	120	170	54	162	205	181	105	436	225	13.0	M12
UVF 18X	125	210	65	175	260	201	125	490	255	17.0	M16
UVF 24X	125	210	65	175	260	231	140	525	278	17.0	M16
UVG 38X	165	260	65	230	330	270	160	594	334	26.0	M24
UVH 49X	280	290	70	345	355	296	173	682	363	26.0	M24
UVL 64X	200	320	90	270	390	334	189	666	381	28.0	M27
UVN 83X	2 x 125	380	35	320	460	387	215	866	436	38.0	6 x M36
UVP 112X	2 x 140	440	38	370	530	420	230	994	454	44.0	6 x M42

+ Available
- Not available



All UV series are CE certified



Series UV: in normal range, if special certification is not required
Series eUV: hazardous areas for dust certified in accordance to CSA 2593962 in Class II (dust), Division 1, Groups E, F und G
Series fUV: gas explosion area certified in accordance to CSA 1181557 in Class I (gas), Division 2, Groups A, B, C and D

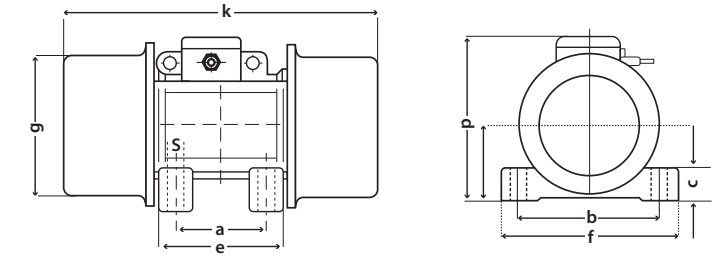
¹⁾ driven by two unbalance motors

²⁾ 1-phase alternating current unbalance motor with permanently installed three-core cable, only available in 230V/50Hz or 115V/60Hz
Motor housing type UV1A 0.04Y and UVA 0.6Y Alu blank. From Type UVB... in standard color RAL 5018 powder-coated (other colors upon request)

³⁾ Series eUV, fUV und cUV have deviating technical data



6-POLE AND 8-POLE MOTORS FOR A 60 HZ MAINS FREQUENCY



	Series UV	Series fUV ³⁾	Series cUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]
							from	to	265 V	460 V	
6-pole motores (1,200 min⁻¹)											
UVE 3W	+	+	+	3,320	42.0	23.0	40	235	1.18	0.68	0.38
UVE 5W	+	+	+	7,230	91.0	36.5	110	530	1.18	0.68	0.38
UVF 11W	+	+	+	11,300	143.0	51.0	185	850	2.60	1.50	0.75
UVF 16W	+	+	+	15,200	192.0	71.0	242	1,140	3.80	2.20	1.30
UVG 21W	+	+	+	21,100	268.0	120.0	295	1,550	6.50	3.75	2.10
UVG 30W	+	+	+	30,400	375.0	130.0	490	2,240	7.45	4.33	2.40
UVH 38W	+	+	+	37,600	476.0	177.0	600	2,820	8.70	5.00	3.00
UVH 46W	+	+	+	46,000	583.0	190.0	785	3,505	10.40	6.00	3.60
UVL 64W	+	+	+	64,000	811.0	234.0	1,155	4,940	14.00	8.10	5.00
UVK 79W	+	+	+	78,400	993.0	293.0	1,400	6,040	19.60	11.30	7.50
UVN 95W	+	+	+	89,400	1,133.0	343.0	1,580	6,870	21.50	12.40	8.00
UVP 119W	+	+	+	119,000	1,509.0	445.0	2,130	9,170	26.00	15.00	9.50

Dimensions [mm]

	a	b	c	e	f	g	h	k	p	s	Screws
UVE 3W	120	170	45	160	205	168	94	378	215	17.0	M16
UVE 5W	120	170	54	162	205	181	105	436	225	13.0	M12
UVF 11W	125	210	65	175	260	201	125	560	255	17.0	M16
UVF 16W	125	210	65	175	255	231	140	600	279	17.0	M16
UVG 21W	165	260	65	230	330	270	160	662	334	26.0	M24
UVG 30W	165	260	65	230	330	270	160	710	334	26.0	M24
UVH 38W	280	290	70	345	355	296	173	774	363	26.0	M24
UVH 46W	280	290	70	345	355	296	173	834	363	26.0	M24
UVL 64W	200	320	90	270	390	334	189	840	381	28.0	M27
UVK 79W	280	400	65	350	465	359	200	878	403	33.0	M30
UVN 95W	2 x 125	380	35	320	460	387	215	866	436	38.0	6 x M36
UVP 119W	2 x 140	440	38	370	530	420	230	994	454	44.0	6 x M42

	Series UV	Series fUV ³⁾	Series cUV ³⁾	Centrifugal force [N]	Working moment [kgcm]	Motor weight [kg]	Working weight range ¹⁾ [kg]		Rated Current max. [A] ³⁾		Rated Power max. [kW]
							from	to	265 V	460 V	
8-pole motores (900 min⁻¹)											
UVF 6V	+	+	+	8,995	202.0	58.0	208	615	2.25	1.30	0.50
UVF 9V	+	+	+	13,020	293.0	83.0	302	900	4.40	2.20	1.10
UVG 14V	+	+	+	20,670	465.0	130.0	485	1,430	7.30	4.20	1.79
UVH 21V	+	+	+	30,400	684.0	195.0	740	2,135	9.00	5.20	2.30
UVH 26V	+	+	+	37,350	841.0	211.0	965	2,680	10.40	6.00	3.00
UVL 36V	+	+	+	51,865	1,168.0	263.0	1,400	3,780	13.60	7.85	4.30
UVK 44V	+	+	+	63,930	1,439.0	327.0	1,715	4,645	16.50	9.50	5.80
UVN 76V	+	+	+	97,480	2,195.0	419.0	2,675	7,145	20.80	12.00	7.45
UVP 85V	+	+	+	110,215	2,481.0	520.0	2,930	7,980	24.30	14.00	7.60

	a	b	c	e	f	g	h	k	p	s	Screws
UVF 6V	125	210	65	175	260	201	125	560	255	17.0	M16
UVF 9V	125	210	65	175	255	231	140	600	279	17.0	M16
UVG 14V	165	260	65	230	330	270	160	710	334	26.0	M24
UVH 21V	280	290	70	345	355	296	173	774	363	26.0	M24
UVH 26V	280	290	70	345	355	296	173	834	363	26.0	M24
UVL 36V	200	320	90	270	390	334	189	840	381	28.0	M24
UVK 44V	280	400	65	350	465	359	200	878	403	33.0	M30
UVN 76V	2 x 125	380	35	320	460	387	215	1,002	436	38.0	6 x M36
UVP 85V	2 x 140	440	38	370	530	423	230	1,070	454	44.0	6 x M42

+ Available
- Not available

CE All UV series are CE certified
 SP Series UV: in normal range, if special certification is not required
 Series eUV: hazardous areas for dust certified in accordance to CSA 2593962 in Class II (dust), Division 1, Groups E, F und G
 Series fUV: gas explosion area certified in accordance to CSA 1181557 in Class I (gas), Division 2, Groups A, B, C and D

¹⁾ driven by two unbalance motors
²⁾ 1-phase alternating current unbalance motor with permanently installed three-core cable, only available in 230V/50Hz or 115V/60Hz
 Motor housing type UV1A 0.04Y and UVA 0.6Y Alu blank. From Type UVB... in standard color RAL 5018 powder-coated (other colors upon request)
³⁾ Series eUV, fUV und cUV have deviating technical data



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