

VU Mechanical Oscillators



Heavy duty linear motion for robust vibrating machine applications

VU Series Mechanical Oscillators

VU Series linear motion exciters, manufactured by Italvibras, are designed for medium and large size vibrating machines operating in many industrial processes. State of the art design, components, and manufacturing processes combine to offer best performance, low operating noise, and longer lifetime for bearings and gears.

Centrifugal forces up to 102,000 pounds are available, and VU exciters can be mounted in line (connected through cardan shafts) to achieve higher centrifugal forces when needed.

Standard features & benefits

- Can be mounted in any position, with the shafts in horizontal position
- Static moment from 359 to 6386 in-lbs. Adjustable with additional weights
- Treated steel alloy shafts are resistant to stress
- Highest quality spherical roller bearings rated for lifetime exceeding 40,000 hours in conditions of maximum load
- Gears and bearings are oil splash/spray lubricated
- Spheroidal cast iron casing
- Two weight covers keep rotating parts concealed for safety
- Electrostatic surface treatment provides corrosion resistance
- Coupling flange standard on drive shaft
- Oil level dipstick, magnetic plugs, and breather plug with valve are included

Available Options

- Alternate mounting bolt patterns are available
- Complete drive system (joints, shaft extension, and electric motor) can be supplied upon request
- Additional weights are available in steel and/or lead
- Second coupling flange available upon request

A few common applications include:

- Aggregate sizing and separation
- Coke production
- Sizing and separation in Mining operations

Also available from Houston Vibrator:

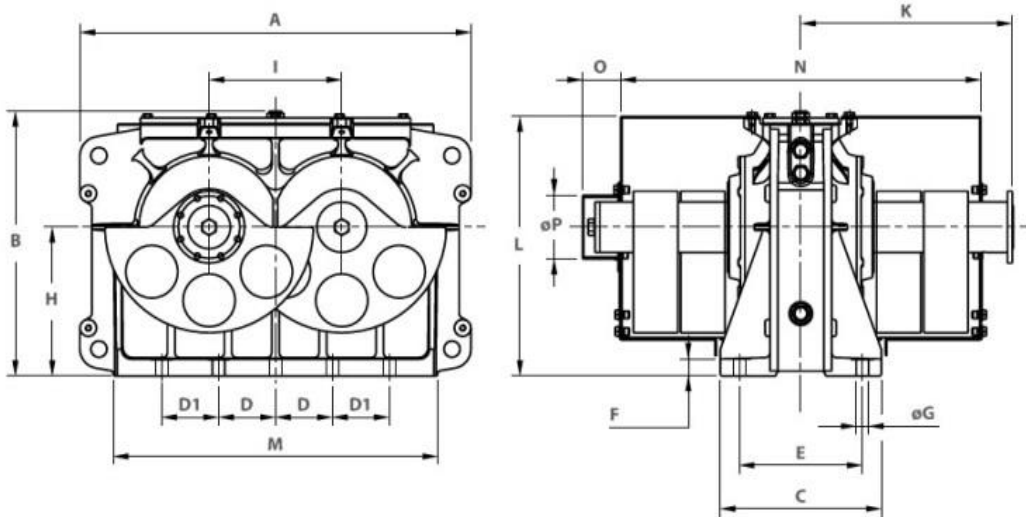
- Rotary Electric Vibrators
- Linear Pneumatic Vibrators
- Rotary Pneumatic Vibrators
- Vibrating Tables and Platforms
- Railcar Vibrators and Unloading Equipment
- Internal and External Concrete Vibrators
- Mounting & Control Components

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VU Mechanical Oscillators



Model	A in	B in	C in	D in	D1 in	E in	ØG in	N°	F in	H in	I in	K in	L in	M in	N in	O in	ØP in
VU 12-8000	27.56	17.85	10.24	1x7.48	2x4.33	6.50	0.87	8x3/4"	1.18	9.45	9.13	12.99	17.42	22.64	21.65	2.74	3.82
VU 12-14000	29.92	20.02	10.63	1x8.66	2x4.33	7.48	1.02	8x7/8"	1.18	11.02	10.08	15.31	19.59	25.20	26.38	2.74	4.21
VU 12-18000	32.48	21.71	13.39	4x4.72	-	10.24	1.02	10x7/8"	1.38	12.20	11.02	16.02	21.28	26.97	26.97	3.17	5.24
VU 12-23000	32.48	21.71	13.39	4x4.72	-	10.24	1.02	10x7/8"	1.38	12.20	11.02	17.56	21.28	26.97	29.92	3.17	5.24
VU 9-27000	32.48	21.71	13.39	4x4.72	-	10.24	1.02	10x7/8"	1.38	12.20	11.02	18.74	21.28	26.97	32.28	3.17	5.24
VU 12-33000	36.42	24.76	14.96	5x4.72	-	11.81	1.26	12x1-1/8"	1.38	13.78	12.60	18.76	24.33	30.31	32.09	3.27	5.63
VU 12-38000	36.42	24.76	14.96	5x4.72	-	11.81	1.26	12x1-1/8"	1.38	13.78	12.60	20.10	24.33	30.31	34.84	3.27	5.63
VU 9-42000	36.42	24.76	14.96	5x4.72	-	11.81	1.26	12x1-1/8"	1.38	13.78	12.60	20.65	24.33	30.31	36.02	3.27	5.63
VU 9-74000	42.13	27.87	18.50	4x4.72	2x5.91	15.35	1.26	12x1-1/8"	1.38	15.35	14.57	23.31	27.50	36.22	41.14	3.35	6.34

Model	Design	Frame Size	Weght Settings	Static Moment		Max Speed	Centrifugal Force	Weight	Drive Motor Rating
				In-lbs	kgmm	RPM	Lbs	Lbs	HP
VU 12-8000	S08	280	Min	359	4130	1470	22050	656	7.5
			Max	701	8065	1100	24075	748	
VU 12-14000	S08	295	Min	666	7660	1385	32625	902	10
			Max	1215	13975	1000	34425	1034	
VU 12-18000	S08	297	Min	715	8225	1435	41850	1239	15
			Max	1563	17980	1000	44325	1428	
VU 12-23000	S08	297	Min	905	10410	1410	51075	1388	20
			Max	1990	22885	1000	56700	1630	
VU 9-27000	S08	297	Min	1049	12065	1115	36900	1384	15
			Max	2316	26635	750	36900	1668	
VU 12-33000	S08	310	Min	1535	17650	1220	64800	1969	25
			Max	2833	32583	935	70200	2211	
VU 12-38000	S08	310	Min	1778	20448	1153	67050	2088	25
			Max	3294	37881	882	72675	2372	
VU 9-42000	S08	310	Min	1744	20060	1087	58500	2088	25
			Max	3657	42060	750	58500	2455	
VU 9-74000	S08	320	Min	3789	43580	940	95175	3344	40
			Max	6356	73440	750	101925	3747	

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