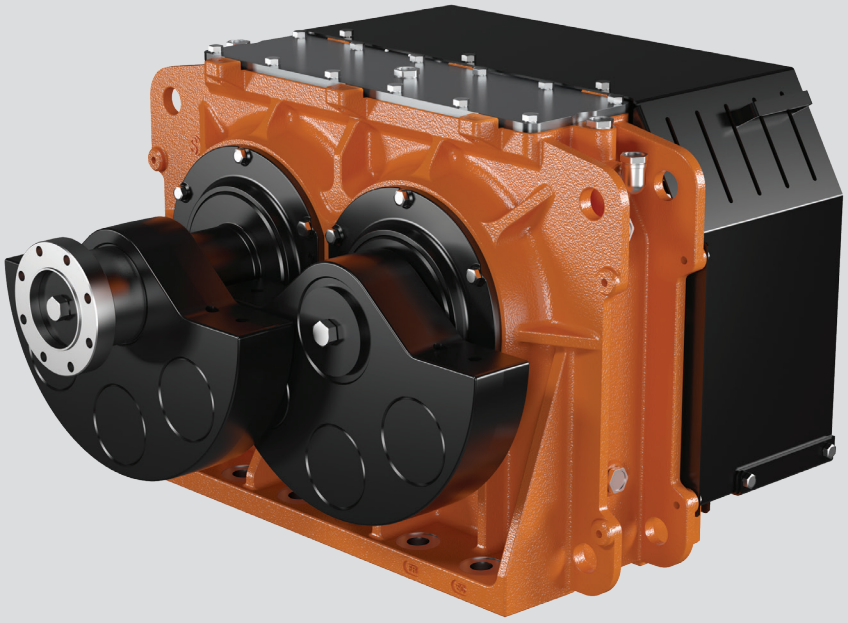
VU



Technical features

Functioning
Vu linear motion exciters are composed by a casing (central body) that, by means of 4 bearings supports two shafts, synchronized by two helicoidal ground gears. The eccentric weights are mounted at the end of both shafts, rotating synchronized in opposite sense, determining a resulting unidirectional centrifugal force perpendicular to the mounting surface of the exciter.

Conformity with Standards and Regulations
In the application field of the Machinery Directive 2006/42/EC, the VU linear motion exciters can be considered as “partly completed machinery”.

Static moment
From 3140 to 119525 kgmm. The static moment of eccentric weights can be adjusted by means of the additional weights.

Centrifugal Force
Up to 453kN.

Ambient temperature
From -40°C to +70°C.

Exciter mounting position
VU exciters can be mounted in all positions, always with the shafts in horizontal position.

Lubrication
Gears and bearings are oil splash / spray lubricated.

Driving system
The movement is transmitted by an external driving system coupled with the driving shaft by means of a joint, generally a Cardan joint (recommended). The external driving system can be an electric motor, a hydraulic motor or other motor type, directly coupled or by belts and pulleys.

Casing
In spheroidal cast iron.

Bearings
Spherical roller bearings, highest quality, long rated lifetime in conditions of maximum load.

Shafts
In treated steel alloy (Isothermic hardening) resistant to stress.

Eccentric weights / additional weights
Eccentric weights in steel, additional weights in steel and/or lead.

Weight covers
All exciters are equipped with two weight covers for protection from rotating parts.

Painting
Electrostatic surface treatment based on polymerised epoxy polyester powder in oven at +200°C. Tested in salt spray for 500 hours.

Other features
The VU Italvibras exciters are supplied with:
- coupling flange according to DIN standard on the driving shaft (on request a second flange on the opposite side);
- additional weights, based on the requested weights setting;
- oil level dipstick, magnetic plugs and breather plug with valve;
- technical handbook for use and maintenance.

The VU series linear motion exciters manufactured by Italvibras have been designed for medium and large size vibrating machines operating in many industrial processes.

The state of the art design and components selected, offer best performance, low operating noise, resulting in a longer lifetime for bearings and gears.

Model VU exciters can be mounted in line (connected through cardan shafts), in order to achieve higher centrifugal forces.

Italvibras competence and experience, in the vibration field by over 50 years, are the best guarantee for reliability and safety of the VU series exciters.

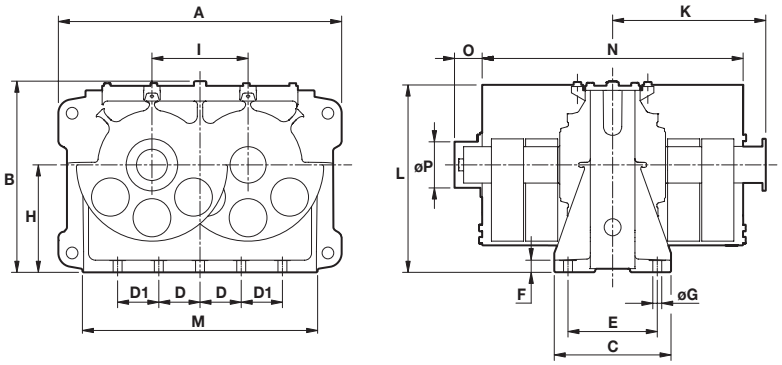
The VU linear motion exciters are completely designed, manufactured and tested in Italy.

On request Italvibras can supply the complete driving system including joints, shaft extension and electric motor.

Other mounting bolt patterns are available. For further details please contact sales offices at Italvibras.
The technical data and models listed in this catalogue are not binding. Italvibras reserves the right to modify them without prior notice.

VU

DESCRIPTION			SPECIFICATIONS						
Code	Type	SIZE	Weights Setting	Static moment kgmm	Max RPM	Centrifugal force kN	Weight kg	Drive Motor Rating 1 VU	Drive Motor Rating 2 VU
0605033	**VU 5000/6-S08**	270	Min	3140	1475	**74,9**	240	3	7,5
			Max	5435	1163	**80,5**	265		
0605021	**VU 8000/6-S08**	280	Min	4130	1534	**107**	298	5,5	11
			Max	8065	1098	**107**	340		
0605020	**VU 10000/6-S08**	280	Min	4294	1500	**106**	301	5,5	11
			Max	9693	1000	**106**	357		
0605022	**VU 14000/6-S08**	295	Min	7642	1460	**179**	430	7,5	15
			Max	13955	1080	**179**	490		
0605032	**VU 16000/6-S08**	295	Min	7963	1430	**179**	433	11	18,5
			Max	15950	1000	**175**	509		
0605023	**VU 18000/6-S08**	297	Min	8225	1600	**231**	563	11	18,5
			Max	17980	1138	**256**	649		
0605025	**VU 23000/6-S08**	297	Min	10410	1500	**257**	631	15	30
			Max	22885	1000	**252**	741		
0605024	**VU 27000/8-S08**	297	Min	12065	1323	**231**	629	11	22
			Max	26635	890	**231**	758		
0605026	**VU 33000/6-S08**	310	Min	17650	1335	**345**	895	18,5	37
			Max	32583	1000	**357**	1005		
0605028	**VU 38000/6-S08**	310	Min	20448	1262	**357**	949	18,5	37
			Max	37881	927	**357**	1078		
0605027	**VU 42000/8-S08**	310	Min	20060	1200	**317**	949	18,5	37
			Max	42060	828	**317**	1116		
0605034	**VU 60000/8-S08**	320	Min	39570	1000	**434**	1451	30	55
			Max	60560	815	**442**	1580		
0605029	**VU 74000/8-S08**	320	Min	43580	1000	**478**	1520	30	75
			Max	73440	770	**478**	1703		
0605041	**VU 103000/8-S08**	360	Min	58862	1000	**646**	2268	45	90
			Max	102955	750	**635**	2486		
0605042	**VU 120000/8-S08**	360	Min	65940	980	**695**	2365	55	110
			Max	119525	740	**718**	2630		



DIMENSIONAL SPECIFICATIONS (mm)

Type	A	B	C	D	D1	E	ØG	N°	F	H	I	K	L	M	N	O	ØP
VU 5000/6-S08	655	410	250	**1x190**	**2x110**	**165**	**22**	**8xM20**	25	225	210	320,5	407,5	545	530	69,5	97
VU 8000/6-S08	700	453,5	260	**1x190**	**2x110**	**165**	**22**	**8xM20**	30	240	232	330,5	442,5	575	555	69,5	97
VU 10000/6-S08	700	453,5	260	**1x190**	**2x110**	**165**	**22**	**8xM20**	30	240	232	331,5	442,5	575	555	69,5	97
VU 14000/6-S08	760	508,5	270	**1x220**	**2x110**	**190**	**26**	**8xM24**	30	280	256	389	497,5	640	670	69,5	107
VU 16000/6-S08	760	508,5	270	**1x220**	**2x110**	**190**	**26**	**8xM24**	30	280	256	389	497,5	640	670	69,5	107
VU 18000/6-S08	825	551,5	340	**4x120**	**-**	**260**	**26**	**10xM24**	35	310	280	407	540,5	685	685	80,5	133
VU 23000/6-S08	825	551,5	340	**4x120**	**-**	**260**	**26**	**10xM24**	35	310	280	446	540,5	685	760	80,5	133
VU 27000/8-S08	825	551,5	340	**4x120**	**-**	**260**	**26**	**10xM24**	35	310	280	476	540,5	685	820	80,5	133
VU 33000/6-S08	925	629	380	**5x120**	**-**	**300**	**32**	**12xM30**	35	350	320	476,5	618	770	815	83	143
VU 38000/6-S08	925	629	380	**5x120**	**-**	**300**	**32**	**12xM30**	35	350	320	510,5	618	770	885	83	143
VU 42000/8-S08	925	629	380	**5x120**	**-**	**300**	**32**	**12xM30**	35	350	320	524,5	618	770	915	83	143
VU 60000/8-S08	1070	708	470	**4x120**	**2x150**	**390**	**32**	**14xM30**	35	390	370	499	698,5	920	970	30	208
VU 74000/8-S08	1070	708	470	**4x120**	**2x150**	**390**	**32**	**14xM30**	35	390	370	592	698,5	920	1045	85	161
VU 103000/8-S08	1280	830	500	**1x280**	**4x160**	**410**	**39**	**12xM36**	45	460	440	629,5	821	1135	1075	115,5	200
VU 120000/8-S08	1280	830	500	**1x280**	**4x160**	**410**	**39**	**12xM36**	45	460	440	661,5	821	1135	1140	115,5	200