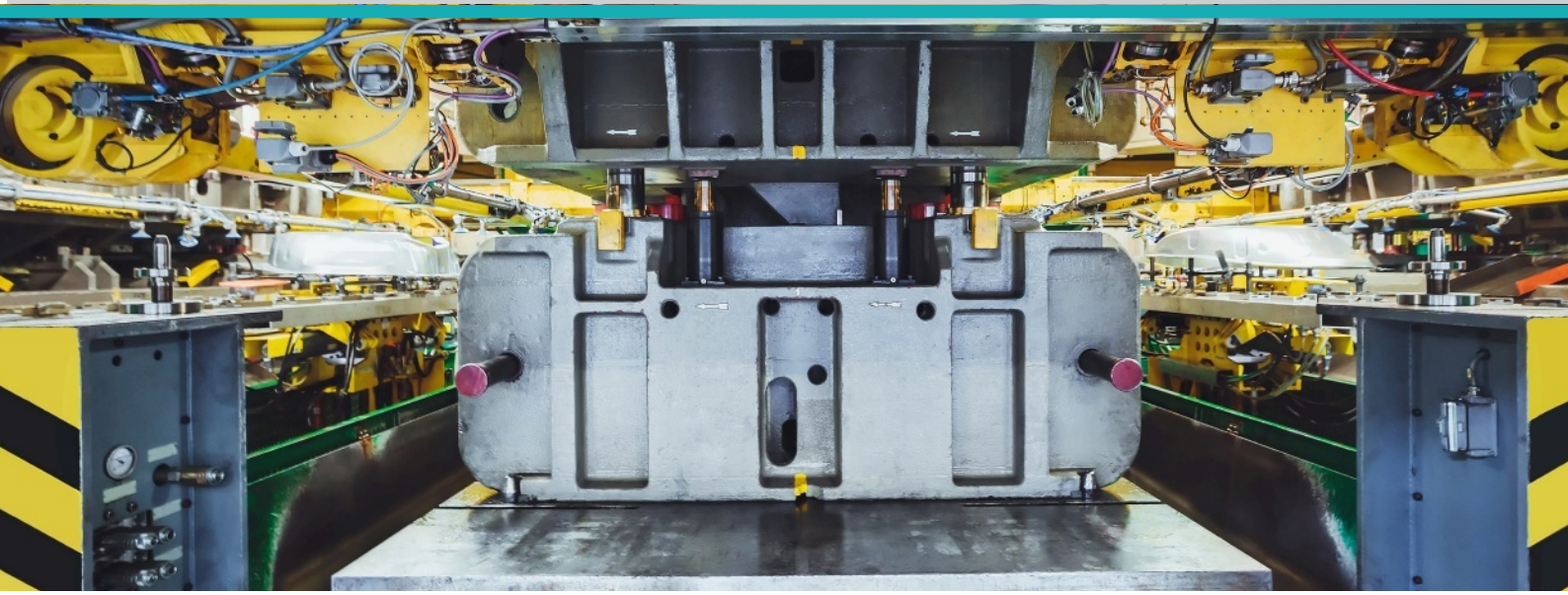
CEF POLYMERES

ANTIVIBRATION
leveling

Industrial process

NIVELASTIC®



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PRESENTATION

CEF POLYMERES is a major supplier of a diverse range of engineered rubber and bonded metal/ rubber products for the vehicule, mining, rail, construction and industrial markets.
Our products are exported worldwide.technologies and skills, breadth and depth of expertise, advanced rubber development expertise, and a variety of manufacturing processes.

Elements of an Isolation System

In discussing vibration protection, there are three basic elements to be considered:

1.An element which creates or transmits vibrational energy.

2.An element which must be protected, or "isolated" from that energy.

3.A third element, interposed between the first two, which provides the necessary vibration isolation between them.

Vibration is usually transmitted between equipment (machinery, components, etc.) and support structures (floors, brackets, baseplates, foundations, etc.).
Vibrational energy can be transmitted from equipment to support structures or vice-versa. In some instances, a clear cut distinction cannot be made between the element creating or transmitting vibrational energy and the element which must be isolated from that energy. This is the case with connections or linkages between moving parts where the need for isolation is necessary to prevent fatigue in the linkage rather than to protect either of the moving parts it connects.

Many situations involve several interrelated elements. In the case of a large punch press located near a precision grinder, for instance, the punch press creates the energy, which is transmitted to the floor and then to the grinder. The floor must be isolated from the press in order to sustain the impact force .without special foundations, and the grinder must be isolated from the floor to maintain the necessary high machining tolerances.

In either case, an isolator serves basically the same function to reduce the magnitude of the vibrational forces transmitted from one element to another.

PRESENTATION

DECREASED MAINTENANCE COSTS

When vibrating equipment is rigidly bolted to the floor, internal stresses may be amplified. We reduce these stresses and help prevent misalignment of machine frames and undue wear on bearings or related parts. Continued maintenance labor costs are reduced and replacement of worn parts is reduced.

IMPROVED PRODUCTION EFFICIENCY

Production machinery operates more efficiently when isolated from vibration. Higher machine output and quality are possible at higher operating speeds without disruption from neighboring equipment.

CHOICE & AVAILABILITY OF SOLUTION

With CEF mounts, you do not have to "settle" for a solution. Our complete range of types and sizes insures that you can find a CEF mounts suited specifically to your needs. Stocking distributors in principal cities throughout the country assure no lost time or effort.

REDUCED COSTS OF SUPPORTING STRUCTURES

The vibration isolation provided by CEF eliminates the need for special foundations in a large number of instances, enabling the modest price of NIVELASTIC to be substituted for the costly and often prohibitive expense of concrete.

REDUCED INSTALLATION COSTS

CEF mounts need not be bolted to the support structure or floor beneath a machine. These isolators require no holes to drill and fill, no grouting, no glue to smear, no shimming and no cleanup. Compared to bolted foundations, these mounting Systems have provided up to 90% savings.

MAXIMUM UTILISATION OF EQUIPMENT

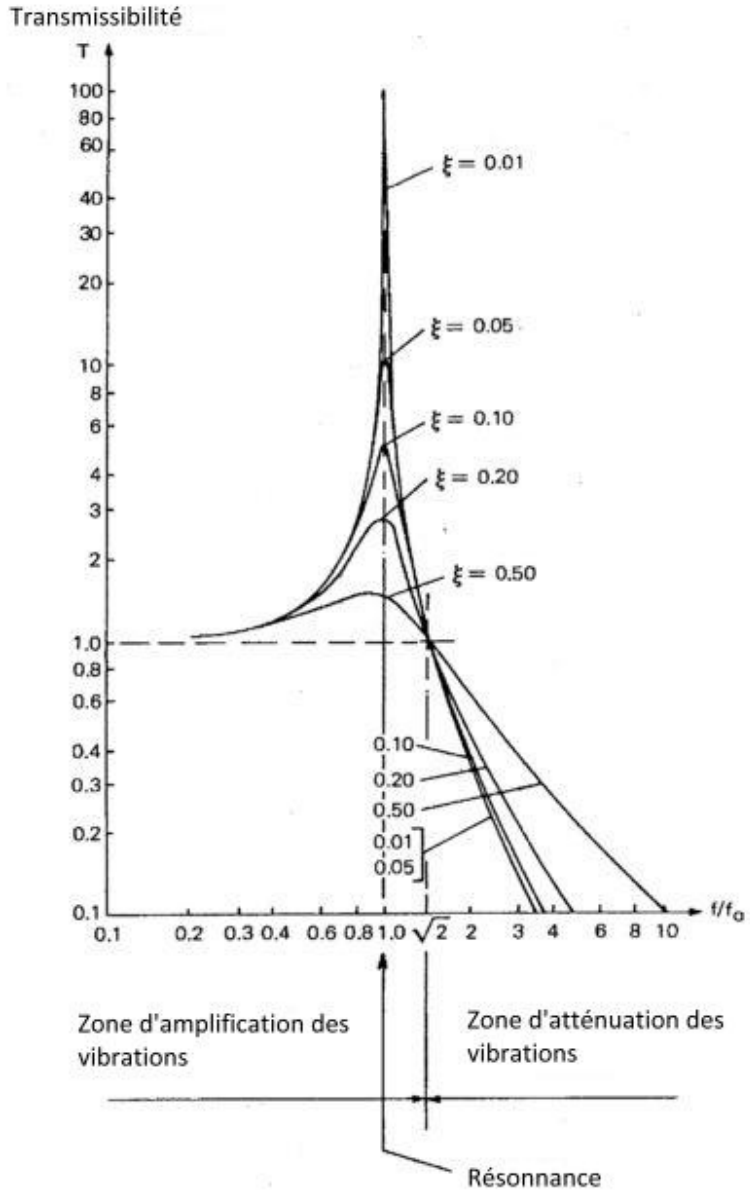
The relative mobility of equipment mounted on CEF mounts offers flexibility in terms of being able to use machines where they are most needed at any particular time. When production priorities are shifted from one area to another, machines can quickly and inexpensively be relocated as necessary. Since no special foundations or lagging are required, a machine on CEF mounts is simply picked up, moved, put down, releveled and can be operated once the power is reconnected. The "portability" of many machines on ours product also saves the expense of renting or purchasing machinery for short term needs.

Frequency and Damping

A spring suspended from a ceiling, if stretched downward and released, would continuously vibrate up and down at a fixed number of oscillations per unit time if the spring could vibrate freely and were a perfectly resilient material. This number of oscillations per unit time is known as natural frequency. In a practical sense, however, no real material is perfectly resilient. All isolators exhibit some degree of non -resilience known as damping. If the spring suspended from the ceiling were critically damped, it would not oscillate after being stretched and released, but would rather return to the original unstretched position without overshoot. Such a spring would obviously provide much less isolation than one which was lightly damped and could oscillate more freely.

In addition to the natural frequency and damping characteristics of the isolator, the forcing frequency of the vibrational energy input is the third factor affecting isolation efficiency.

By definition, vibrational energy is oscillatory in nature and is usually input at a characteristic rate per unit time. This rate is known as forcing frequency. In the case of steadily rotating or reciprocating devices such as a ventilating fan, the forcing frequency will be the rpm. [usually expressed in cycles per second (called Hertz or Hz) as rpm divided by 60] . In the case of impacting devices such as punch presses, however, the disturbing frequency is influenced not only by the speed of the press, but also by complex relationships involving the reaction of the material being formed by the impact forces of the press. In such cases, either the forcing frequency must be measured, or the isolators for the press selected by experts on the basis of previous experience. The interrelationships between natural frequency (denoted f_n), forcing frequency (denoted f_d), damping (denoted C), critical damping (denoted C_c), and isolation efficiency ar shown on Figures 1 and 2. Figure 1 shows a typical plot of isolation efficiency as a function of f_d/f_n. Note that when this ratio of frequencies is greater than 1.414, isolation efficiency is positive and isolation occurs. When f_d/f_n is less than 1.414 on the other hand, the isolation efficiency is less than zero and the isolator actually magnifies, rather than reduces, the input force. This amplification is maximized when $f_d = f_n$, a condition known as resonance.



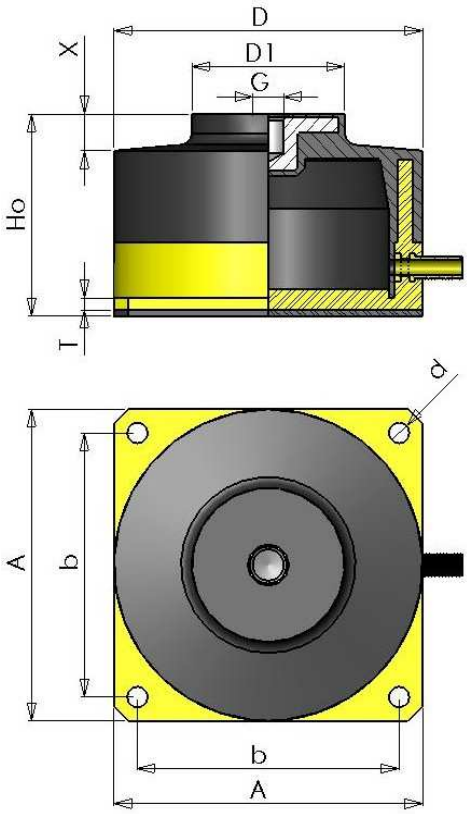
Low damping elastomer	NR 145/155
Medium damping elastomer	CR NBR
High damping elastomer	VMQ HDS

SLMU

AIR MOUNT

Materials	Composit and polyurethane With aluminium fixing on top overmolded
Natural frequency	03 - 05 Hz
Hardness	65 Sh A +-5 et 73 Sh D
Stiffness ratio Radial / axial	1:1
Tolerance	DIN 7715 M3
Bolt	no

Precision leveling	■■□□□
Vibration isolation	■■■■■
Shock damping	■■■□□
Oil Grease Ozone resistance...	■■■■■
Construction-borne noise isolation	■■■■■
lateral stability	■■■□□



Features

- Vibration isolation up to 99%.
- Elastomer with high damping U-DAMP ®
- Compact design, easy integration
- Molding technology to avoid any risk of leakage
- Low porosity elastomer to maintain constant air pressure over time
- No maintenance without corrosion
- New construction more economical than rubber-metal airspring
- Excellent lateral stability
- Low Weight

Reference	D	Ho	G	Precision leveling Ni	X	A	D1	b	d	T	Weight kg	Load Max Kg
SLMU 1	73	65	M10	±5	12	75	28	60	7	3	0,20	50
SLMU 3	10	65	M12	±5	12	105	52	89	7	3	0,55	160
SLMU 6	127	90	M12	±6	15	130	60	108	7	3	0,80	250
SLMU 12	172	90	M12	±6	15	175	96	153	7	3	1,45	550

SLMU

AIR MOUNT

Autonomous operation without being connected to the pneumatic network

Inflation pressure
SLMU 1 & SLMU 3 5 bars
SLMU 6 & SLMU 12 6 bars

Maximum deflection 12 mm
No lateral stop required
No visible metal part
Central washer to take up forces
Fixing plate

Options

TAV cabinet control pressure box
Connectic TAV CONNECTION fixing pipe
Automatic levelling correction ALVN

No inflate without Load

Application
Pump, Vacuum pump HVAC Test equipment, Instrumentation Measuring machine, Laser, Interferometer, Microscope Vibrator, Vibration shaker Optical equipment Fan Ultrasound equipment Test bench

Reference		Pression en bar					
		1	2	3	4	5	6
SLMU 1	Load daN	5	19	25	43	50	/
	Natural frequency Hz	***5,4***	***3.9***	***3.4***	***3***	***2.8***	***/***
SLMU 3	Load daN	30	64	95	123	160	/
	Natural frequency Hz	***5***	***4.1***	***3.5***	***3.1***	***2,9***	***/***
SLMU 6	Load daN	55	100	145	174	210	250
	Natural frequency Hz	***5.1***	***4.6***	***3,6***	***3,3***	***3***	***2,9***
SLMU 12	Load daN	110	210	280	400	480	550
	Natural frequency Hz	***5,3***	***4,2***	***3,8***	***3,4***	***3,1***	***3***

SLM

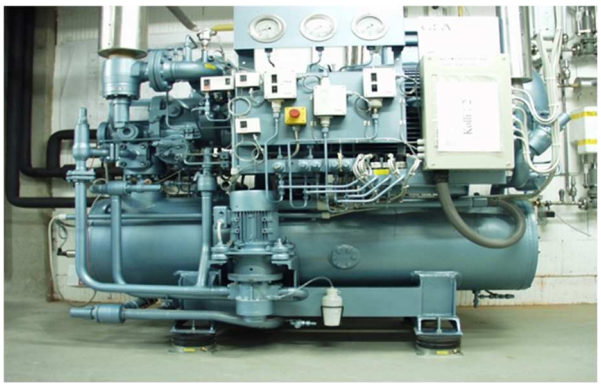
AIR MOUNT

Materials	CR rubber renforced by steel ring Aluminium and steel fixing plate
Natural frequency	03 - 05 Hz
Stiffness ratio Radial / axial	1:1
Tolerance	DIN 7715 M3
Bolt	Include

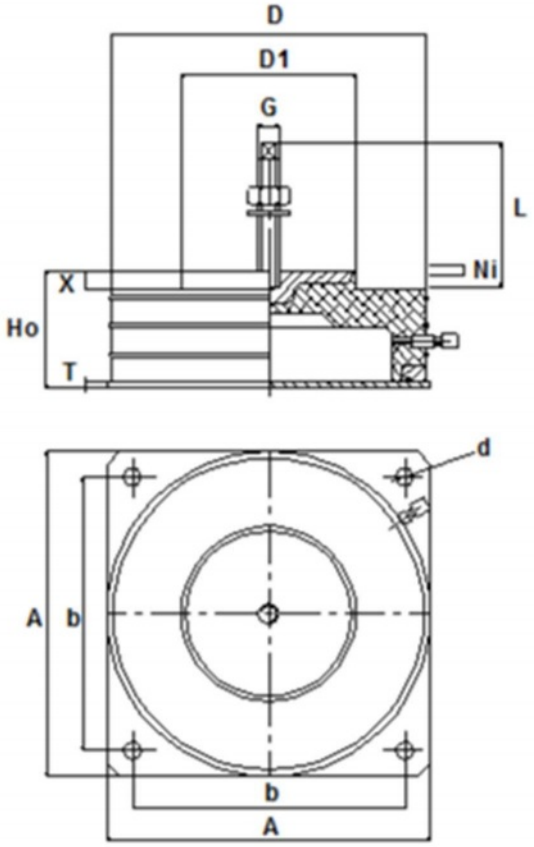
Precision leveling	■■□□□
Vibration isolation	■■■■■
Shock damping	■■■■■
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■■■
lateral stability	■■■■□

Features

- Can be combined with an automatic servovalve
- Multidirectional efficiency Horizontal stiffness = vertical stiffness for perfect stability
- Shock absorber, accepts large shocks with low deformation from 0 to 30 mm
- Acoustic performance > steel spring
- Easy integration at low height 90 mm
- Low natural frequency < 5 Hz
- leveling ± 6 mm
- Resistant to oil, solvent, acid, ozone etc...
- The construction of the SLM allows them to support the load without air for perfect safety.
- Without air the SLM continue to isolate with a natural frequency of 10 Hz



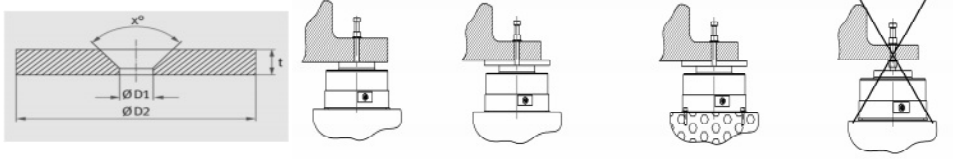
AIR MOUNTS



Reference	D	Ho	G	L	Mise à niveau Ni	X	A	D1	b	d	T	Weight kg	Load Max Kg
SLM 1 A	73	65	M10	80	±5	12	75	28	60	7	3	0,3	65
SLM 3 A	105	65	M12	100	±5	12	105	52	89	7	3	0,5	180
SLM 6 A	127	90	M12	100	±6	15	130	60	108	7	3	1	280
SLM 12 A	172	90	M12	100	±6	15	175	96	153	7	3	2,2	600
SLM 24 A	245	90	M16	120	±6	15	255	138	215	14	5	7,2	1300
SLM 48 A	338	90	M16	120	±6	15	343	205	305	14	5	14,7	2600
SLM 72 A	389	91	M24x1.5	130	±6	17	385	255	310	20	6	22,5	3800
SLM 96 A	468	90	M24	130	±6	15	470	300	406	20	6	29,3	5500
SLM 144 A	550	360	M24x1.5	130	±6	17	550	360	480	20 -	6	46,5	7600
SLM 192 A	610	90	M24	130	±6	15	610	430	508	20	6	52,5	10000

Mounting Plate

To be used in case the machine frame does not cover the entire side surface D

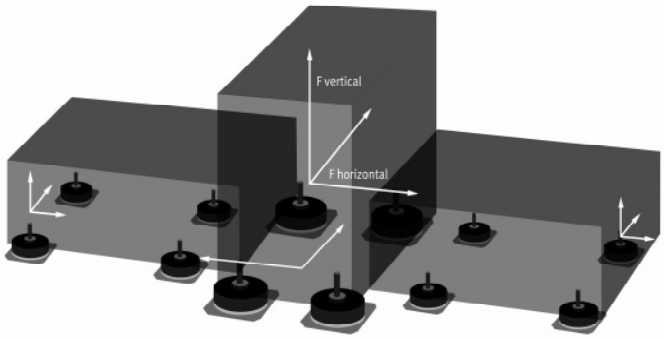


SLM

AIR MOUNT

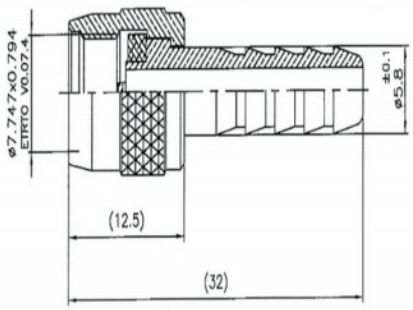
Application

Measuring and testing machines
Compressor, Pumps
Vibrator, Shaker
Optical equipment
Test bench
Press, Punching machine
Textile machine
Polishing machine
Foundation



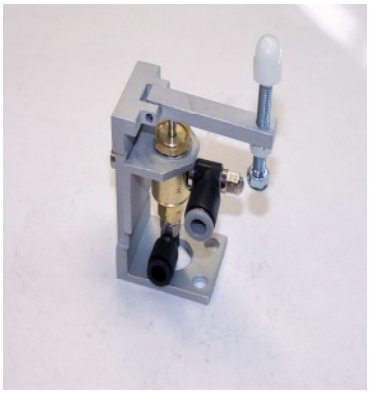
Reference		Pression bars					
		1	2	3	4	5	6
SLM 1	Load daN	5	21	30	52	65	
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	
SLM 3	Load daN	35	70	100	140	180	
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	
SLM 6	Load daN	55	100	160	180	220	280
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**
SLM 12	Load daN	110	200	300	400	500	600
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**
SLM 24 A	Load daN	220	430	650	850	1050	1300
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**
SLM 48 A	Load daN	400	750	1200	1600	2100	2600
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**
SLM 72 A	Load daN	750	1090	1800	2400	3100	3800
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**
SLM 96 A	Load daN	1100	2000	2800	3700	4700	5500
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2;9**	**2,7**
SLM 144 A	Load daN	1400	2700	4000	4800	6200	7600
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**
SLM 192 A	Load daN	1800	3300	4800	6500	8300	10000
	Natural frequency Hz	**5,6**	**4,2**	**3,6**	**3,2**	**2,9**	**2,7**

option



TAV CONNECTION

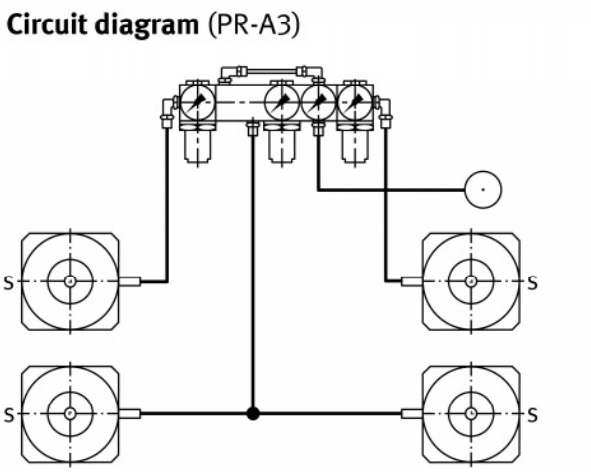
For SLM SLMU connection to pipe

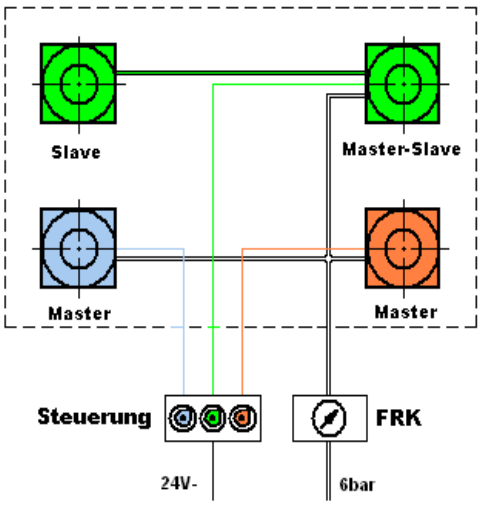


ALVN
Pneumatic Servovalve regulation

System with 3 servovalve

TAV CABINET
Control box air regulation





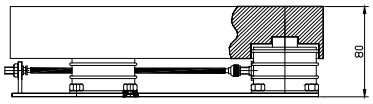
TAV TB

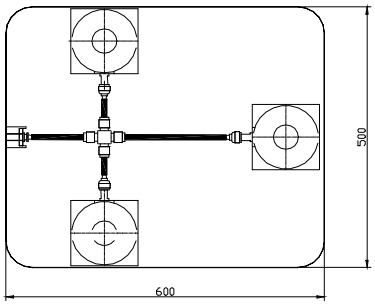
WORK BENCHES POTABLE WORK STATION

Construction	Granite marble top thickness 70 mm placed on 4 low frequency air nount ISOLAIR Construction in very rigid welded steel 80x80 coated with white epoxy paint
Natural frequency	5 - 4 Hz
Vibration isolation	90% / 10 Hz
Option	Servovalve for automatic regulation

leveling	By air pressure + Levelling caster
Vibration isolation	Passive & active
Shock damping	yes
Air supply	No
Boitier pneumatique intégré	Pour le réglage et l'alimentation

Reference	TAV 800	TAV 1000	TAV 1500
Surface	800 x 800 mm	1000 x 800 mm	1500 x 800 mm
Width	800 mm	1000 mm	1500 mm
Deep	800 mm	800 mm	800 mm
Height	770 mm	770 mm	770 mm
Passage of legs	700 mm	700 mm	700 mm
Load Max.	400 kg	360 kg	500 kg





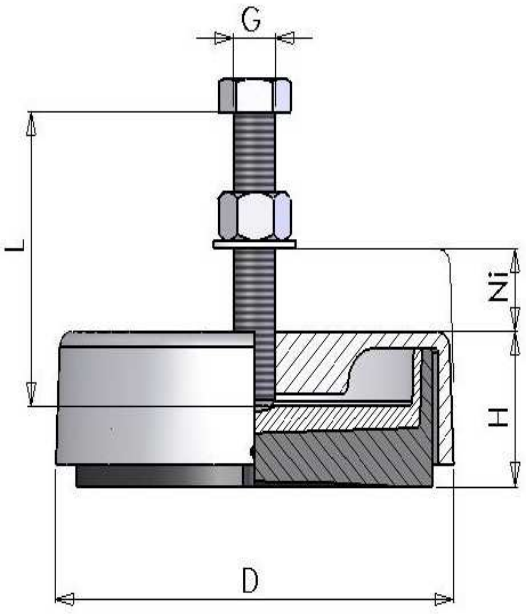
	TB 50/60
Construction	Steel plate with epoxy painting / Aluminium base plate
Isolator	ISOLAIR SLMU
Load capacity	2 - 40 kg
Natural frequency	5 - 3.5 Hz
Transmissibilité à la résonance	< 8
Installation	No need pneumatic connection

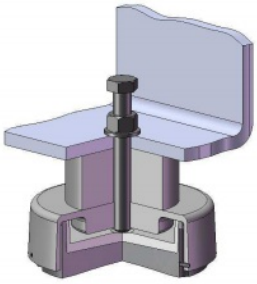
LMPS

LEVELING DAMPER FEET HEAVY DUTY

Materials	Leveling cup cast iron GG Pressure plate cast iron GGG Dampr pad elastomer U DAMP ou NBR
Natural frequency	08 - 25 Hz
Hardness	70 / 80 / 90 Sh A +-5
Tolerance	DIN 7715 M3
Studs	Fine pitch large hexagon on top 8:8 zinc protection variant 6 TH

Precision leveling	■■■■□
Vibration isolation	■■□□□
Shock damping	■■■□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■■■□





Option réhausse

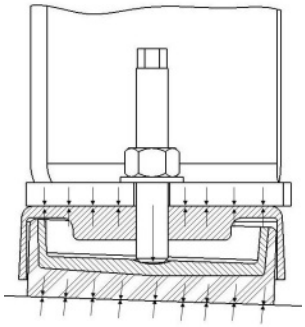
Benefits

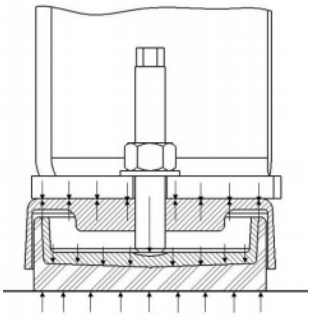
- Excellent lateral stability
- Angular correction
- Excellent grip on the floor
- No need for machine anchoring
- Isolation of vibrations
- Damping during transverse shocks
- Reduction of noise
- Reduces tool wear

typ	D mm	H mm	H+NI mm	G	SW	L mm	NI mm	Weight kg
LMPS 13 M16 XXX	136	48	60	M16x1.5	24	200	12	2,30
LMPS 16 M20 XXX	165	61	88	M 20x1.5	30	250	27	4,30
LMPS 16 M24 XXX	165	61	88	M 24x1.5	30	250	27	4,36
LMPS 19 M20 XXX	194	61	88	M20x1.5	30	250	27	5,70
LMPS 19 M24 XXX	194	61	88	M24x1.5	36	250	27	5,80
LMPS 24 M24 XXX	242	68	98	M24x1.5	36	250	30	9,60
LMPS 24 M30 XXX	242	68	98	M30x1.5	45	250	30	9,75
LMPS 30 M30 XXX	302	74	104	M30x2.0	45	250	30	13.80

Load follow application

Reference	Damping Presse Bending presse Impact machine Punching machine Shear	Reference	Injection molding machines Machine tools Transfer machine Printing machine Woodworking machine Etc……..
LMPS 130 M16 UD 80	800 kg	LMPS 130 M16 NBR	1.300 kg
LMPS 160 M20 UD 80	2.500 kg	LMPS 160 M20 NBR	3.400 kg
LMPS 190 M20 UD 80	3.800 kg	LMPS 190 M20 NBR	4.900 kg
LMPS 240 M24 UD 80	5.500 kg	LMPS 240 M24 NBR	7.000 kg
LMPS 300 M30 UD 80	8.000 kg	LMPS 300 M30 NBR	10.000 kg

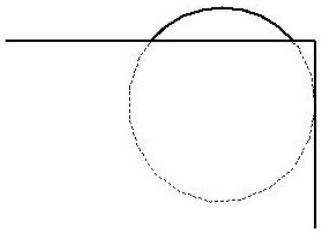




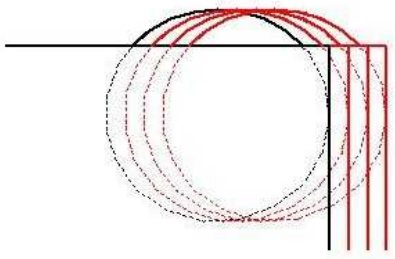
LMPS have the advantage of combining static and dynamic forces at the same central point. The forces are distributed via the internal plate on the elastomer thus ensuring a better distribution of the stress.

The pivoting effect of the cup also makes it possible to distribute the forces because it is rare for a floor to be perfectly flat. As the stress is better distributed the life of the isolator is improved, stability builds up and better Vibration isolation is achieved.

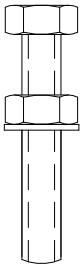
LMPS



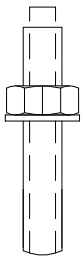
Usual machine mount



A



B



Variant bolt

A = Hexagonale head
B = 6 K head

Quality 8:8
Zinc

A	SW	B	SW
M 16x1.5x250-A	24	M 16x1.5x250-B	10
		M 20x1.5x250-B	14
		M 24x1.5x250-B	18
		M 30x2.0x250-B	22

Others legnht on request

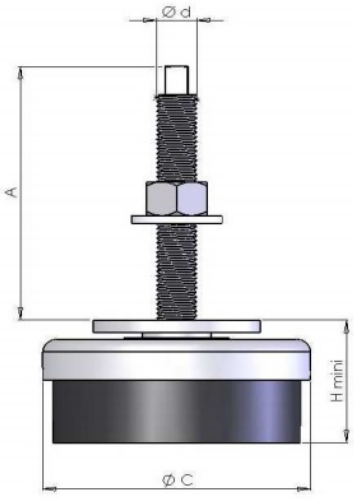
LMR

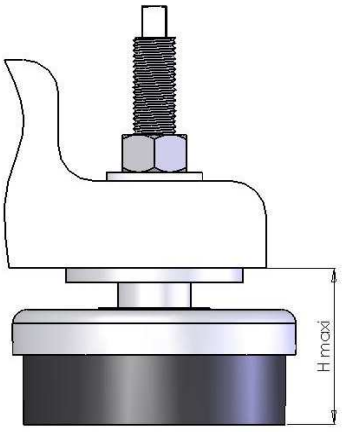
ANTIVIBRATION MOUNT WITH LEVELING

Materials	Pressure zinc plate Central leveling disc Butom NBR damper pad Zinc surface protection
Form	-
Hardness	80 Sh A +-5
Tolerance	DIN 7715 M3
Studs	Fine pitch hexagon on top 8:8 zinc protection

Precision leveling	■■■□□
Vibration isolation	■■■□□
Shock damping	■■□□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■■□□

Applications	Machine tool Presse Injection press Extrusion Granulator General workshop equipment Air conditioning equipment





Reference	C mm	H mm Mini	H mm Maxi	d	Levelling Ni mm	Weight kg
LMR 1.80 M12	80	39	51	M12x1.25x120	12	0,4
LMR 2.80 M16	120	46	61	M16x1.50x150	15	1,1
LMR 3.80 M16	160	54	69	M16x1.50x150	15	2,15
LMR 3.80 M20	160	54	69	M20x1.50x170	15	2,2
LMR 4.80 M20	200	55	80	M20x1.50x170	25	3
LMR 4.80 M24	200	55	80	M24x1.5x170	25	3,2
LMR 5.80 M24	240	65	90	M24x1.5x170	25	3,6
LMR 5.80 M30	240	65	90	M30x3x170	25	3,9

LMR

ANTIVIBRATION MOUNT WITH LEVELING

Reference	Renforced	Load daN Mini - Maxi	Load Max daN Press	Load Max daN Press speed >100c/mm
LMR 1.80 M12		50 - 500	250	50 - 180
LMR 2.80 M16		200 - 1000	480	200 - 360
LMR 3.80 M20 (M16)	✔	800 – 4000	2200	800 – 1700
LMR 4.80 M20 (M24)	✔	1500 – 5500	3000	800 – 2600
LMR 5.80 M24 (M30)	✔	3200 – 8500	6500	800 – 5800

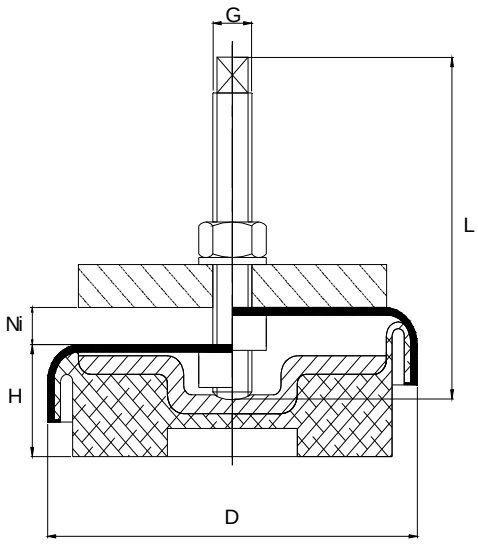
LMRA

ARTICULED BOLT 20°

Reference	C mm	H mm	d
LMRA 1.80 Mxx	80	35	M12 x100 - M16X110
LMRA 2.80 Mxx	120	40	M16x110 - M20x150
LMRA 3.60 Mxx	160	45	M16x110 - M20x150

LME

ANTIVIBRATION MOUNT WITH LEVELING



Construction	Rubber NBR 80 Sh A or 65 Sh A High quality bonded to a painting metal cup. Yellow painting or Grey (option) Bolt head 4K

• Application	• Punch press, Milling Machines • Drilling Machines, Lathes • Grinders, Boring Machines • Jig Borers, Die Casting Machines • Riveters, Sanders, Saws • Shapers, Injection Molding

BENEFITS

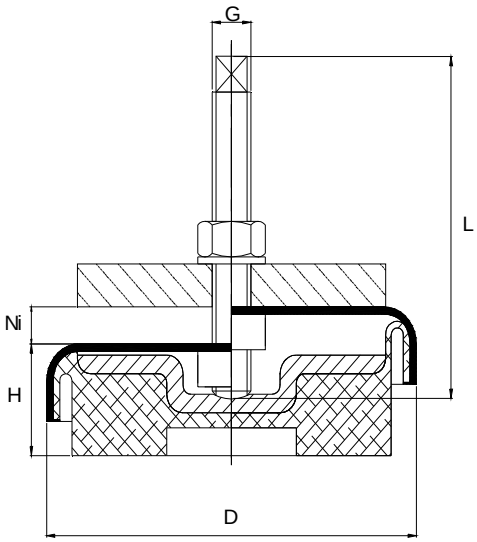
- Extends tool and machinery life
- No anchoring
- Improve working conditions
- Economical
- Easy to install

Color **S** Variant colors **K** **M** **G**

Reference	D	H Mini	H Maxi	G	L	Leveling Ni	Weight kg	Max load follow equipment kg			
	mm			(variant)	mm	mm	kg	Maximum.	Presse	Machine tools	General equipment
LME 080 MXX	80	32	40	M10 (M12)	80	08	0,4	300	250	150	300
LME 080 65 MXX	80	32	40	M10 (M16)	80	08	0,45				200
LME 120 MXX	120	35	47	M12 (M16)	100	12	1,1	1000	800	600	1000
LME 120 65 MXX	120	35	47	M12 (M16)	100	12	1,1				600
LME 160 MXX	160	40	52	M16 (M20)	120	12	2,2	2000	1500	1000	2000
LME 160 65 MXX	160	40	52	M16 (M20)	120	12	2,2				900
LME 230 M24	228	54	66	M24*1.5	180	12	7,5	6800	4500	3000	6800

LMD

ANTIVIBRATION MOUNT WITH LEVELING



Construction	Rubber NBR 80 Sh A High quality bonded to metal plate Cover metal cup blue color painting Screw TH for leveling

Leveling	Precise leveling. Screwing the head of the bolt which leveling the pressure plate
Vibration isolation	■■■□□
Shock damping	■■■□□
Resistant to oils solvents ozone	■■■■□
Structure-borne noise isolation	■■■■■
Drift resistance	■■■□□

- Application
  - Punch press
  - Milling Machine
  - Drilling Machine
  - Lathe
  - Grinder
  - Boring Machine
  - Jig Borer
  - Riveter
  - Sander
  - Shaper

Reference	D	H Mini	H Maxi	G	L	Leveling Range Ni	Weight kg	Max load follow equipment kg	
	mm	mm			mm	mm	kg	Maximum.	Presse
LMD 01 M12	70	40	50	M12x1.25	120	10	0,5	400	250
LMD 02 M16	110	42	57	M16x1.50	120	15	1	800	600
LMD 03 M16	150	45	60	M16x1.50	120	15	1,8	1200	900
LMD 04 M20	160	45	63	M20x1.50	120	18	2	1500	1300

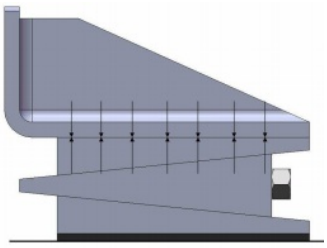
NL NLB

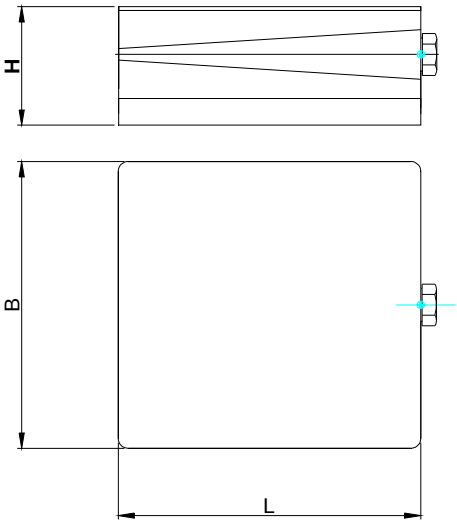
WEDGEMOUNT

Construction	3 parts sliding cast iron GG With or without antivibration pad
Precision leveling	1/100 mm/screw turn

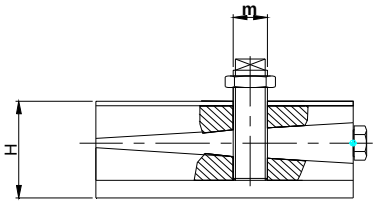
Precision leveling	■■■■■
Vibration ioslation dependimng pad	■■■□□
Shock damping suivant option choisie	■■■□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■■■■

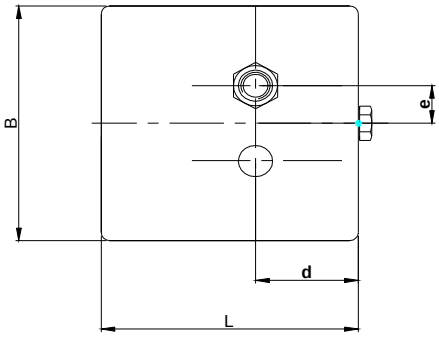
Version NL Free mounting





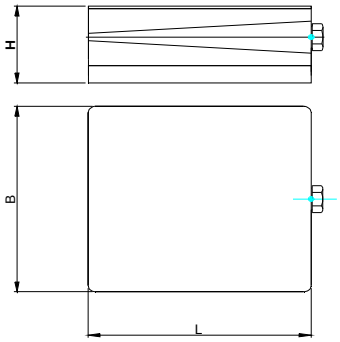
Version NLB ting





Version NLC Mounting for anchoring

WEDGEMOUNT FREE STANDING



typ	Elastomer up	Elastomer dow	application
A	Without	without	Precision leveling
E	2 mm /SG 85 ShA	2 mm /SG85 ShA	High rigidity Machine tools CNC, machines transfert
B	2 mm/SG85 Sh A	15 mm /SG85 ShA	Textile Wood Machines Testing machine
C	5 mm/SG70 Sh A	15 mm /SG70 ShA	Vibration isolation et Shock damping Presse, Punching press

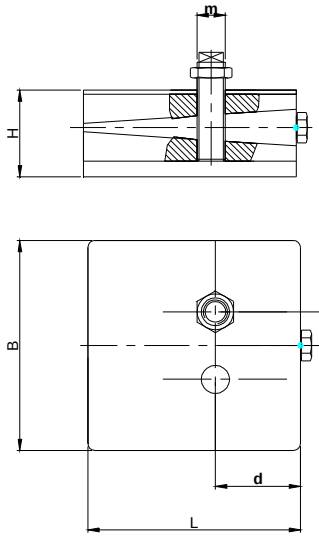
Reference	Load Max kg	Dimensions		H heigh Mid-position	Leveling range
	kg	L	B	typ A	mm
NL 1/A	3200	115	80	37	± 4
NL 2/A	4000	150	75	38	± 5
NL 22/A	4600	115	115	40	± 4
NL 3/A	7800	150	150	47	± 6
NL 4/A	14000	200	200	46	± 6
NL 6/A	30000	300	400	74	± 10

Reference	Load Max	Dimensions		H heigh Mid-position	Leveling range
	kg	L	B	typ E	mm
NL 1/E	2500	115	80	41	± 4
NL 2/E	3200	150	75	42	± 5
NL 22/E	3700	115	115	44	± 4
NL 3/E	6300	150	150	51	± 6
NL 4/E	11000	200	200	50	± 6
NL 6/E	26000	300	400	78	± 10

Reference	Load Max	Dimensions		H heigh Mid-position	Leveling range
	kg	L	B	typ B	mm
NL 1/B	2000	115	80	54	± 4
NL 2/B	2500	150	75	55	± 5
NL 22/B	3000	115	115	61	± 4
NL 3/B	5200	150	150	68	± 6
NL 4/B	8000	200	200	63	± 6
NL 6/B	22000	300	400	91	± 10

Reference	Load Max	Dimensions		H heigh Mid-position	Leveling range
	kg	L	B	typ C	mm
NL 1/C	1500	115	80	57	± 4
NL 2/C	1800	150	75	58	± 5
NL 22/C	2000	115	115	60	± 4
NL 3/C	2600	150	150	67	± 6
NL 4/C	4500	200	200	66	± 6
NL 6/C	13000	300	400	94	± 10

WEDGEMOUNT BOLT-ON



typ	Elastomer up	Elastomer dow	application
A	Without	without	
E	Without	2 mm / SG85Sh A	High rigidity
B	Without	20 mm / SG70 Sh A	Vibration and shock damping

Version scellement	Elastomer	Variante
NLC X/A	without	Hole for anchoring bolt
NLCC X/A 	without	Compensation 3° disc + hole for anchorimg bolt

Reference	Load Max kg	Dimensions					SW	H heigh Mid-position	Leveling range
		L	B	d	e	m/o		typ A	mm
NLB 1/A	3200	115	80	45	15	M12/14	17/8	37	± 4
NLB 22/A	4600	115	115	50	24	M16/18	19/10	40	± 4
NLB 3/A	7800	150	150	60	23	M16/20	22/12	47	± 6
NLB 4/A	14000	200	200	75	27.5	M20/20	24/14	46	± 6
NLB 6/A	30000	300	400	124	70	M20/28	24/14	74	± 10

Reference	Load Max kg	Dimensions					SW	H heigh Mid-position	Leveling range
		L	B	d	e	m/o		typ E	mm
NLB 1/E	1900	115	80	45	15	M12/14	17/8	39	± 4
NLB 22/E	2800	115	115	50	24	M16/18	19/10	42	± 4
NLB 3/E	4800	150	150	60	23	M16/20	22/12	49	± 6
NLB 4/E	9000	200	200	75	27.5	M20/20	24/14	48	± 6
NLB 6/E	25000	300	400	124	70	M20/28	24/14	76	± 10

Reference	Load Max kg	Dimensions					SW	H heigh Mid-position	Leveling range
		L	B	d	e	m/o		typ B	mm
NLB 1/B	1000	115	80	45	15	M12/14	17/8	51	± 4
NLB 22/B	5000	115	115	50	24	M16/18	19/10	54	± 4
NLB 3/B	4500	150	150	60	23	M16/20	22/12	61	± 6
NLB 4/B	8000	200	200	75	27.5	M20/20	24/14	64	± 6
NLB 6/B	24000	300	400	124	70	M20/28	24/14	92	± 10

GC GS

CAST IRON CUP

Construction	Painted cast iron cup with central housing for positioning a precision leveling screw and gluing a high damping capacity VIBRADAMP elastomer
leveling bolt	Option BO version
friction coef	0.7 To 0.8

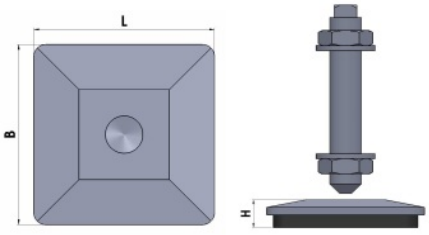
Precision leveling	■ ■ ■ □ □
Vibration isolation	■ ■ □ □ □
Shock damping	■ □ □ □ □
Oil Grease Ozone resistance...	■ ■ ■ ■ □
Construction-borne noise isolation	■ ■ ■ □ □
lateral stability	■ ■ □ □ □

Applications

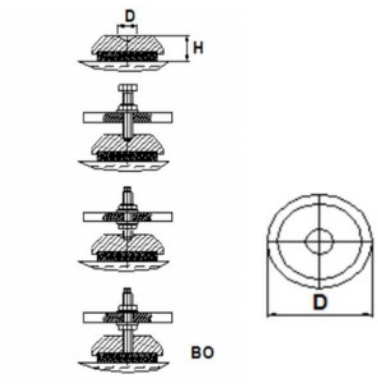
SG 8505
machine tools with deformable frame, transfer machines, machines requiring a very high rigidity

SG 8510
machine tools, textile machines, woodworking machines, injection molding machines Mounting with plate SG 85 Low creep

SG 7015
Vibration isolation



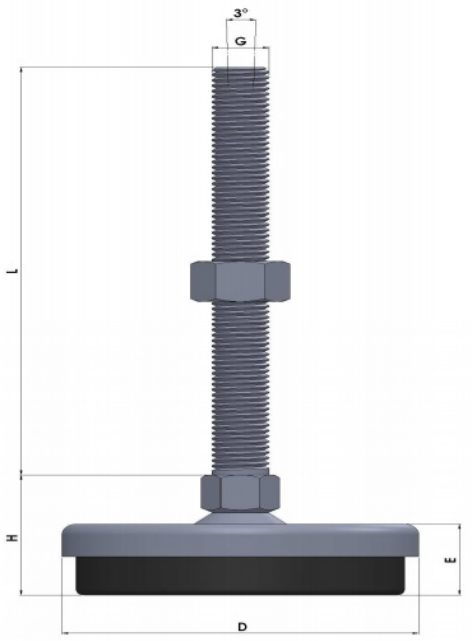
Reference	L x B	H	Bolt	Load max.
	mm	mm	M x L	kg
GC 75 SG8505	75x75	20	M10 M12 M16 M20	1000
GC 75 SG8510		25		800
GC 75 SG9015		30		500



Reference	D	H	Bolt	Load max.
	mm	mm	M x L 150 mm	kg
GC 85 SG8505	85	26	M12 M16	1000
GC 85 SG8510		29		800
GC 85 SG7015		34		500
GC 120 SG8505	120	24	M16 M20	2000
GC 120 SG8510		27		1600
GC 120 SG7015		32		1000
GC 160 SG8505	160	21	M16 M20	3600
GC 160 SG8510		23		2800
GC 160 SG7015		2		2000

NEC

HEAVY DUTY LEVELING FEET



Precision leveling	■■■□□
Vibration isolation	■■□□□
Shock damping	■■□□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
Stability	■■■□□

Construction	Steel base painted Fix bolt NBR 80 rubber
Precision leveling	Standard pitch no head
Vibration isolation	Frequency >75 Hz
Shock damping	Moderate

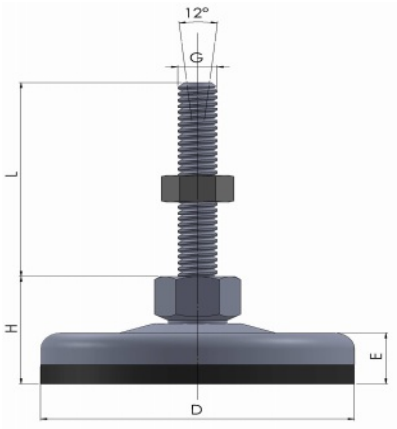
Colors option

Reference	D	H	M	L	Load max. Kg
NEC 050 12100	50	32	M12	100	500
NEC 050 16100	50	32	M16	100	600
NEC 100 M16150	100	35	M16	150	1200
NEC 100 M20150	100	37	M20	150	1500
NEC 100 M24150	100	37	M24	150	2000
NEC 150 M16150	150	35	M16	150	2000
NEC 150 M20150	150	37	M20	150	3000
NEC 150 M24150	150	37	M24	150	4000
NEC 200 M20150	200	37	M20	150	5000
NEC 200 M24150	200	37	M24	150	6000

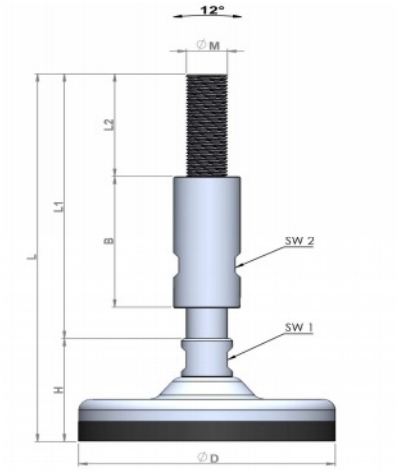
LEVELING FEET ARTICULED BOLT 12°

Construction	Stamped polish steel cup Stamped stainless steel cup 304L NBR 80 pad bonded to the cup Leveling stud swivellening 12°

Precision leveling	■■■□□
Vibration isolation	■■□□□
Shock damping	■□□□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■□□□



Reference Zinc steel	Reference Stainless steel	D	H	G	L	SW	Load Max kg
NSA 05 M10x100	NSI 05 M10x100	50	14	M10x1.75	110	19	300
NSA 05 M12x100	NSI 05 M12x100	50	14	M12x1.75	110	19	300
NSA 05 M16x150	NSI 05 M16x150	50	14	M16x2.00	110	24	300
NSA 08 M12x100	NSI 08 M12x100	80	14	M12x2.50	110	19	750
NSA 08 M16x150	NSI 08 M16x150	80	14	M16x2.00	160	24	750
NSA 08 M20x150	NSI 08 M20x150	80	14	M20x2.00	160	24	750
NSA 10 M12x100	NSI 10 M12x100	100	15	M12x1.75	160	19	1200
NSA 10 M16x150	NSI 10 M16x150	100	15	M16x2.00	160	24	1200
NSA 10 M20x150	NSI 10 M20x150	100	15	M20x2.50	160	30	1200



Variant HNSI — Hygienyc stud

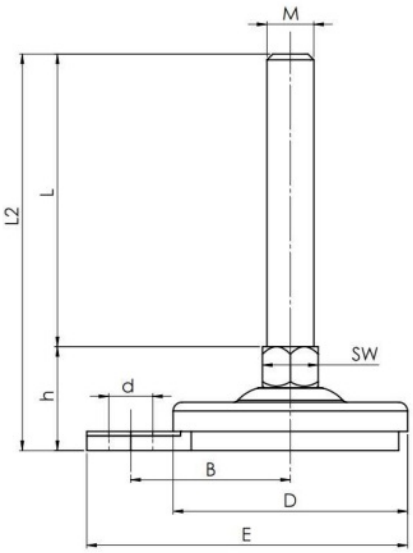
Reference Stainless steel	D	H	G	L	L1	L2	B	SW	Load Max kg
HNSI 08 M16x120	80	39,10	M16x2.00	159,1	120	60	60	17	750
HNSI 08 M20x120	80	43,60	M20x2.00	163,6	120	60	60	24	750
HNSI 10 M16x150	100	39,10	M16x2.00	159,1	120	60	60	17	1200
HNSI 10 M20x150	100	43,60	M20x2.50	163,6	120	60	60	24	1200

NSAF NSIF

LEVELING FEET WITH ANCHORING

Construction	Same NSA /NSI + flange for anchoring

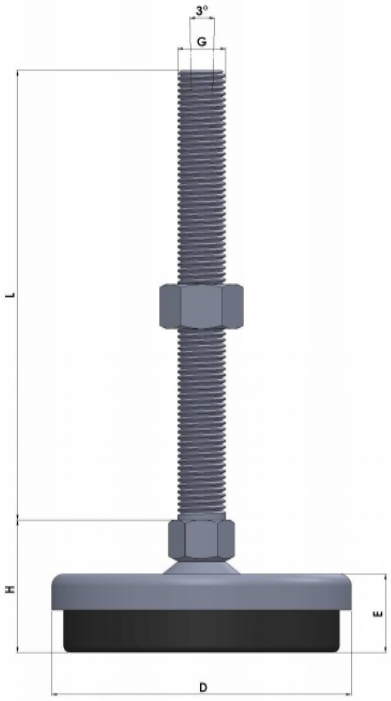
Precision leveling	■■■□□
Vibration isolation	■■□□□
Shock damping	■□□□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■□□□



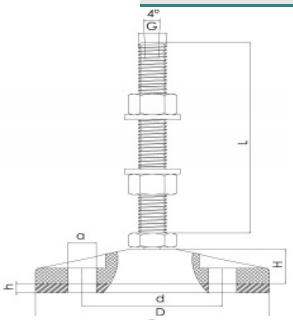
Reference Zinc steel	Reference Stainless steel 304L	D	h	G	L	B	E	d	SW	Load Max kg
NSAF 08 M12x100	NSIF 08 M12x100	80	35.5	M12x1.75	100	54,5	112	15	19	750
NSAF 08 M12x150	NSIF 08 M12x150	80	35.5	M12x1.75	150	54,5	112	15	19	750
NSAF 08 M16x100	NSIF 08 M16x100	80	35.5	M16x2.00	100	54,5	112	15	24	750
NSAF 08 M16x150	NSIF 08 M16x150	80	35.5	M16x2.00	150	54,5	112	15	24	750
NSAF 08 M20x100	NSIF 08 M20x150	80	35.5	M16x2.00	100	54,5	112	15	24	750
NSAF 08 M20x150	NSIF 08 M20x150	80	35.5	M20x2.50	150	54,5	112	15	30	750
NSAF 10 M16x150	NSIF 10 M16x150	100	35.5	M16x2.00	150	64,5	122	15	24	1200
NSAF 10 M20x150	NSIF 10 M20x150	100	35.5	M20x2.50	150	64,5	122	15	30	1200

LEVELING FEET ARTICULED BOLT 3°

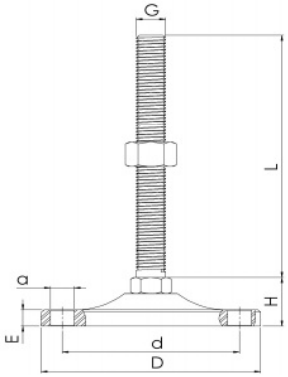
Precision leveling	■■■□□
Vibration isolation	■■□□□
Shock damping	■□□□□
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■□□□



Zinc steel (Option chrome)	Stainless steel	D2	G	E	L	Load max. Kg
NS 40 M8x50		40	M8	24	50	80
NS 40 M10x100		40	M10	26	100	100
NS 40 M12x150		40	M12	28	150	100
NS 60 M8x50	NI 60 M8x50	65	M8	28	50	300
NS 60 M10x100		65	M10	26	100	350
NS 60 M12x100	NI 60 M12x100	65	M12	30	100	400
NS 60 M16x150	NI 60 M16x150	65	M16	32	150	400
NS 80 M12x100	NI 80 M12x100	80	M12	42	100	500
NS 80 M16x150	NI 80 M16x150	80	M16	45	150	600
NS 80 M20x150	NI 80 M20x150	80	M20	45	150	600
NS 100 M12x100	NI 100 M12x100	100	M12	42	90	800
NS 100 M16x150	NI 100 M16x150	100	M16	45	100	900
NS 100 M20x150	NI 100 M20x150	100	M20	45	150	900
NS 120 M16x150	NI 120 M16x150	120	M16	47	100	1100
NS 120 M20x150	NI 120 M20x150	120	M20	50	150	1100
NS 160 M16x100	NI 160 M16x150	160	M16	50	100	3000
NS 160 M20x150	NI 160 M20x150	160	M20	53	150	3000
	NI 160 M24x150	160	M24	60	150	3000
NS 200 M20x150		200	M20	62	150	4000



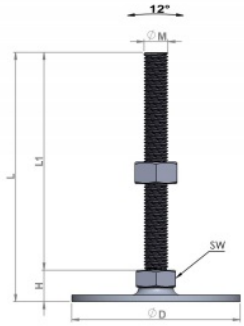
Reference	D	d	H	h	G	L	a	Load Max kg
NCA 130 M16x150	130	100	18	5	M16	150	13	2500
NCA 130 M20x150	130	100	18	5	M20	150	13	2500
NCA 130 M24x150	130	100	18	5	M24	150	13	2500



Reference	D	H	d	E	G x L	Load max. Kg
NT 120 M16x150	120	30	90	3	M16x150	1500
NT 120 M20x150	120	32	90	3	M20x150	2000

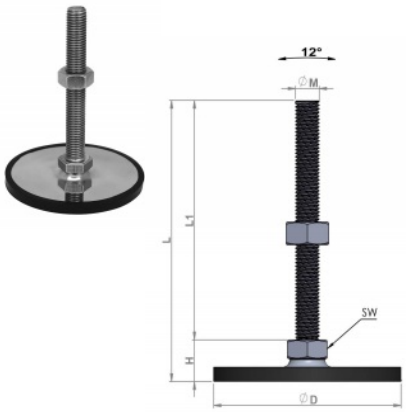
LEVELING FEET

Construction	Stamped polish steel cup Stamped stainless steel cup 304L Plastic pad no slip Leveling stud



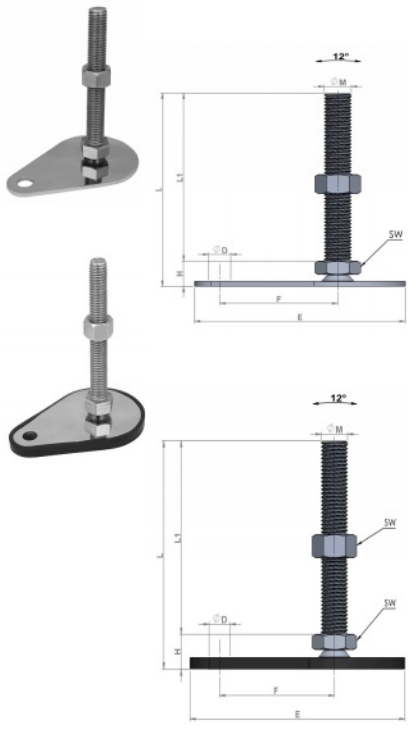
Medium load articuled stud

Steel	Stainless steel	D	MxL1	H	L	SW	Load max. Kg
	NXI 80 M10x80	80	M10x80	15	95	19	600
NX 80 M12x100	NXI 80 M12x100	80	M12x100	15	105	19	800
	NXI 80 M12x150	80	M12x150	15	165	19	800
	NXI 80 M16x100	80	M16x100	15	115	24	1000
NX 80 M16x150	NXI 80 M16x150	80	M16x150	15	165	24	1000
	NXI 80 M20x100	80	M20x100	15	115	24	1000
NX 80 M20x150	NXI 80 M20x150	80	M20x150	15	165	24	1000
	NXI 80 M24x120	80	M24x120	15	135	36	1350



Medium load articuled stud No slip pad

Steel	Stainless steel	D	MxL1	h	L	SW	Load max. Kg
	NXIR 80 M10x80	80	M10x80	19	99	19	600
NXR 80 M12x100	NXIR 80 M12x100	80	M12x100	19	119	19	800
	NXIR 80 M12x150	80	M12x150	19	169	19	800
	NXIR 80 M16x100	80	M16x100	19	119	24	1000
NXR 80 M16x150	NXIR 80 M16x150	80	M16x150	19	169	24	1000
	NXIR 80 M20x100	80	M20x100	19	119	24	1000
NXR 80 M20x150	NXIR 80 M20x150	80	M20x150	19	169	24	1000
	NXIR 80 M24x120	80	M24x120	19	139	36	1350



Medium load articuled stud and fix bottom plate

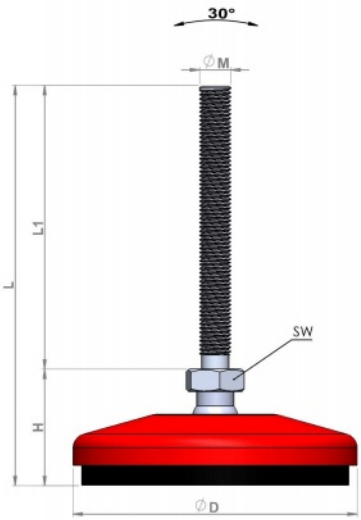
Steel	Stainless steel	E	MxL1	H	L	D	SW	Load max. Kg
NXF 80 M12x150	NXIF 80 M12x150	130	M12x150	15	165	13	19	600
NXF 80 M16x150	NXIF 80 M16x150	130	M16x150	15	165	13	24	1000
NXF 80 M20x150	NXIF 80 M20x150	130	M20x150	15	165	13	24	1000
	NXIF 80 M24x120	130	M24x120	15	135	13	36	1350

Medium load articuled stud no slip pad and fix bottom plate

Steel	Stainless steel	E	MxL1	H	L	F	D	SW	Load max. Kg
	NXIFR 80 M10x80	130	M10x80	19	99	70	13	19	600
NXFR 80 M12x100	NXIFR 80 M12x100	130	M12x100	19	119	70	13	19	800
	NXIFR 80 M12x150	130	M12x150	19	169	70	13	19	800
NXFR 80 M16x100	NXIFR 80 M16x100	130	M16x100	19	119	70	13	24	1000
	NXIFR 80 M16x150	130	M16x150	19	169	70	13	24	1000
NXFR 80 M20x150	NXIFR 80 M20x100	130	M20x100	19	119	70	13	24	1000
	NXIFR 80 M20x150	130	M20x150	19	169	70	13	24	1000
	NXIFR 80 M24x120	130	M24x120	19	139	70	13	36	1350

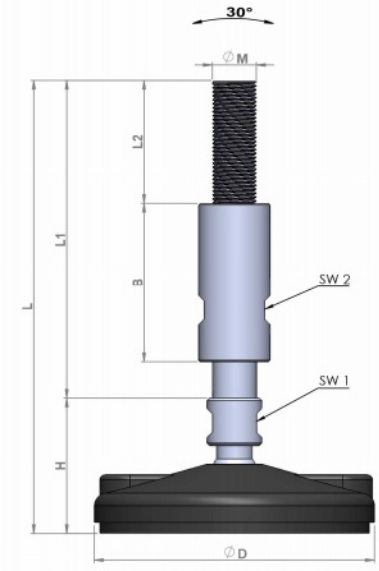
LPCI HPPI

TECHNOPOLYMERE COLORS 30°



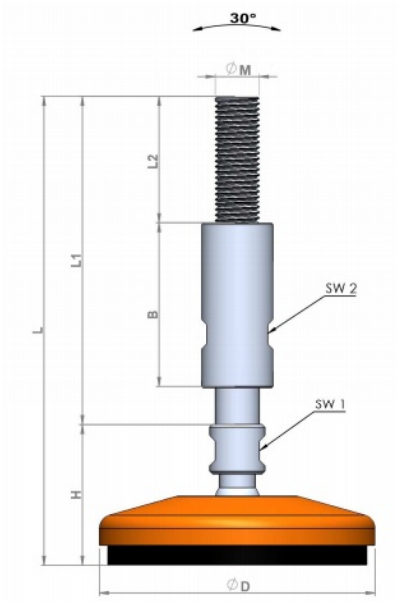
Color	T	M	K	S	G	Code for order

Version Stainless steel	D	MxL1	H	L	SW	Load max. Kg
LPCI 100 M10x100	100	M10x100	46	146	22	800
LPCI 100 M12x100	100	M12x100	46	146	22	800
LPCI 100 M12x150	100	M12x150	46	196	22	800
LPCI 100 M16x150	100	M16x150	46	196	22	800
LPCI 100 M20x150	100	M20x150	46	196	22	800

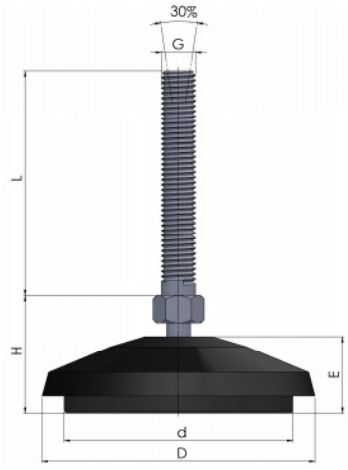


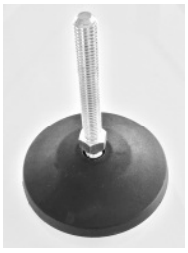
Version Tige inoxydable	D	MxL1	H	B	L	L2	sw1	sw2	Load max. Kg
HPPI 50 M16x120	50	M16x120	47	60	167	60	17	22	450
HPPI 50 M20x120	50	M20x120	47	60	167	60	19	24	450
HPPI 80 M16x120	81	M16x120	47	60	167	60	17	22	800
HPPI 80 M20x120	81	M20x120	47	60	167	60	19	24	800
HPPI 105 M16x120	105	M16x120	47	60	167	60	17	22	1200
HPPI 105 M20x120	105	M20x120	47	60	167	60	19	24	1200

Variant: Hygienic

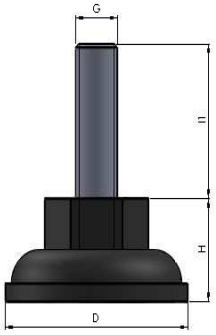


SUPPORTS MACHINES TECHNOPOLYMERES



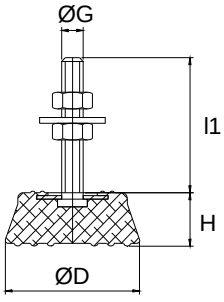


Reference Tige acier	D	d	E	H	G x L	Load max. Kg
LPP 50 M8x60 LPP 50 M10x60 LPP 50 M10x120 LPP 50 M12x60 LPP 50 M12x120	50	40	23	30	M8x60 M10x60 M10x120 M12x60 M12x120	450
LPP 80 M8x60 LPP 80 M10x60 LPP 80 M10x120 LPP 80 M12x60 LPP 80 M12x120	80	70	23	30	M8x60 M10x60 M10x120 M12x60 M12x120	600
LPP 110 M10x100 LPP 110 M12x120 LPP 110 M16x150 LPP 110 M16x200 LPP 110 M20x150 LPP 110 M20x200 LPP 110 M20x250 LPP 110 M24x110	110	100	35	50	M10x100 M12x120 M16x150 M16x200 M20x150 M20x200 M20x250 M24x110	1000



Reference	D	H	G x L	Load max. Kg
LPR 50 M10x50 LPP 50 M12x30	45	20	M10x50 M12x30	75

Reference	D	H	G x L	Load max. Kg
LPS 42 M10x50 LPS 42 M12x30	42	20	M12x30 M16x30	100 150

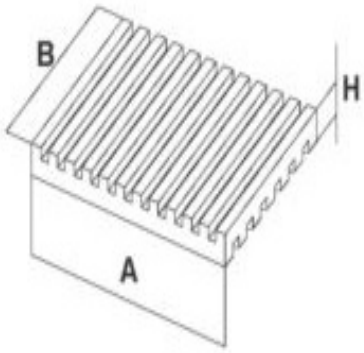


Rubber antivibration feet

Reference	Dimensions				Load mini	Deflection mini	Load Max	Deflection Max
	D	H	l1	G	kg	mm	kg	mm
PCA 40 M8 PCA 60 M10	50 58	20 22	45 80	M8 M10	12 30	1	60 150	3

PLAKISOL 45

2 SIDED GROOVED PLATE



Elastomer	NBR High elasticity Profile grooved 2 faces
Dimensions	450x450x08 225x225x08 100x100x08 50x50x08 + cut
Coef. Friction	0.7
Temperature	- 25° C / + 80° C
Mounting	Surface pad > the support surface Overlapping of thicknesses is possible for 3 or 4 thicknesses of 2mm sheet metal

Precision leveling	☐☐☐☐☐
Vibration isolation	■■■■☐
Shock damping	■■☐☐☐
Oil Grease Ozone resistance...	■■■■☐
Construction-borne noise isolation	■■■☐☐
lateral stability	■■☐☐☐

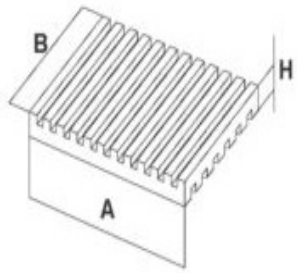
typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 450x450		±5	Kg/cm²	kg	0.10	0.20	0.40	0.60	0.80
PLAKISOL 45.450-335	08	35	0.80	1600	0.30mm (28.9Hz)	0.48mm (22.8 Hz)	0.81mm (17.6 Hz)	1.10mm (15 Hz)	1.40mm (13.30Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 450x450		±5	Kg/cm²	kg	0.30	1	1.60	2.00	2.60
PLAKISOL 45.450-345	08	45	2.60	5200	0.50mm (22.3Hz)	0.78mm (17.9 Hz)	1mm (15.8 Hz)	1.17mm (12.13 Hz)	1.40mm (13.40Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 450x450		±5	Kg/cm²	kg	1.5	2.5	3.5	4.5	5
PLAKISOL 45.450-365	08	65	5	10000	0.58mm (21.8Hz)	0.81mm (18.6 Hz)	1.05mm (16.4 Hz)	1.30mm (14.90 Hz)	1.42mm (14.25Hz)

PLAKISOL 45

2 SIDED GROOVED PLATE



Features

- Resists aging
- Easy to cut
- Cost
- Perfect adhesion and grip on the ground
- Wide load range
- No fluid retention

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 225x225		±5	Kg/cm²	kg	0.10	0.20	0.40	0.60	0.80
PLAKISOL 45.225-335	08	35	0.80	390	0.30mm (28.9Hz)	0.48mm (22.8 Hz)	0.81mm (17.6 Hz)	1.10mm (15 Hz)	1.40mm (13.30Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 225x225		±5	Kg/cm²	kg	0.30	1	1.60	2.00	2.60
PLAKISOL 45.225-345	08	45	2.60	1300	0.50mm (22.3Hz)	0.78mm (17.9 Hz)	1mm (15.8 Hz)	1.17mm (12.13 Hz)	1.40mm (13.40Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 225x225		±5	Kg/cm²	Kg	1.5	2.5	3.5	4.5	5
PLAKISOL 45.225-365	08	65	5	2400	0.58mm (21.8Hz)	0.81mm (18.6 Hz)	1.05mm (16.4 Hz)	1.30mm (14.90 Hz)	1.42mm (14.25Hz)

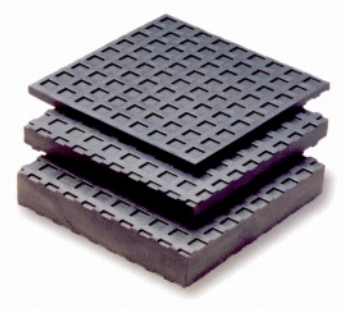
typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 100x100		±5	Kg/cm²	kg	0.10	0.20	0.40	0.60	0.80
PLAKISOL 45.100-335	08	35	0.80	80	0.30mm (28.9Hz)	0.48mm (22.8 Hz)	0.81mm (17.6 Hz)	1.10mm (15 Hz)	1.40mm (13.30Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 100x100		±5	Kg/cm²	kg	0.30	1	1.60	2.00	2.60
PLAKISOL 45.100-345	08	45	2.60	260	0.50mm (22.3Hz)	0.78mm (17.9 Hz)	1mm (15.8 Hz)	1.17mm (12.13 Hz)	1.40mm (13.40Hz)

typ	H	Hardness	Load	Load	Deflection under Load (Natural frequency en Hz)				
Plakisol	mm	Shore A		Max	Load in kg/cm2				
AxB 100x100		±5	Kg/cm²	Kg	1.5	2.5	3.5	4.5	5
PLAKISOL 45.100-365	08	65	5	500	0.58mm (21.8Hz)	0.81mm (18.6 Hz)	1.05mm (16.4 Hz)	1.30mm (14.90 Hz)	1.42mm (14.25Hz)

SG 70 SG 85

VIBRATION DAMPING PADS



Elastomer	**U - DAMP** ® (PUR) Couleur Rouge ou Noire
Dimension	500 x 500 x 15 mm + découpe
Load capacity	2.50 à 25 kg/cm²
Load optimal	SG70 10 kg/cm² SG 85 20kg/cm²
Friction coef.	0.7
Temperature	-30° +70°
Rapport de rigidité Statique/dynamique	3
Dampimg C/Cc	0.12
Resistance	Oils, greases, chemicals agants
Profil	Rainures croisées sur les 2 faces

typ	Ep	Hardness	Load	Deflection sous Load (Natural frequency en Hz)						
Plakisol	mm	Shore A	Max.	Load applicable en kg/cm2						
		±5	Kg/cm²	2.5	5	8	10	15	20	25
SG 70.xx.15	15	70	15	0.93mm (28.9Hz)	1.16 mm (22.8 Hz)	1.45mm (17.6 Hz)	1.65mm (15 Hz)	2.2mm (13.30Hz)		
SG 85.xx.15	15	85	25		0.43mm (25Hz)		0,78mm (18Hz)	1.10mm (15Hz)	1.45mm (14 Hz)	2mm (12Hz)

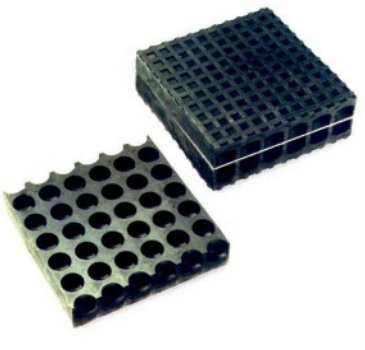
SG 90

Elastomer	**Elastomer spécial renforcé fibre**
Dimensions	400 x 400 x 20 mm + découpe
Load	10 to 40 kg/cm²
Optimal Load	22.5 kg/cm²
Coefficient de friction sec	0.8
Temperature	-30° +80°
Stiffness ratio Static/Dynamic	6
Amortissement C/Cc	0.20
Résistance	Oils, greases, UV Ozone chemicals agants
Profil	Sans
Mounting	La Load doit couvrir la totalité de la surface

typ	Epaisseur	Hardness	Load	Deflection sous Load (Natural frequency en Hz)				
Plakisol	mm	Shore A	Max.	Load applicable en kg/cm2				
		±5	Kg/cm²	7.5	15	22.5	30	40
SG90R.400.400.20	20	90-95	40	0.3 mm (91 Hz)	0.60 mm (66 Hz)	1.50mm (43 Hz)	1.90 mm (36 Hz)	3 mm (29 Hz)

IM

PAD HIGH PERFORMANCE



Elastomer	**VIBRADAMP** ®
Dimensions	500 x 500 x 25mm ou 52mm 250x250x25mm 100x100x25 mm
Load capacity	1 à 8 kg/cm²
Friction coef.	0.6
Temperature	-30° +70°
Rapport de rigidité Statique/ dynamique	3
Damping C/Cc	0.12
Resistance	Oils, greases, chemicals agants
Profil	1 side with holes to increase elasticity the other side with anti-slip profile.
Combinaison	Mounting Multi-thickness combined

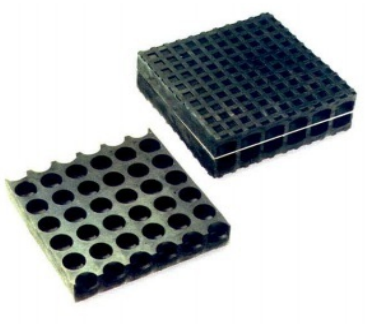
Precision leveling	■□□□□
Vibration isolation	■■■□□
Shock damping	■■■■■
Oil Grease Ozone resistance...	■■■■□
Construction-borne noise isolation	■■■□□
lateral stability	■■□□□

typ	Dimensions	Hardness	Load
Plakisol	mm	Shore A	Max.
IM		±5	Kg
IM 50.25.50	500x500x25	50	7.500
IM 50.25.70	500x500x25	70	20.000
IM 25.25.25	250x250x25	50	1.875
IM 25.25.25	250x250x25	70	5.000
IM 10.25.25	100x100x25	50	300
IM 10.25..50	100x100x25	70	500

typ	Thick-ness	Hard-ness	Load	Deflection (Natural frequency Hz)						
Plakisol	mm	Shore A	Max.	Load in kg/cm²						
IM		±5	Kg/cm²	0.50	1	2	2.5	3	5	8
IM xx.25.50	25	50	3	0.71 (18Hz)	1.50 (13 Hz)	2.66 (10 Hz)	3.30 (9 Hz)	4.00 (7.9Hz)		
IM xx.50.50	52	50	3	1.76 (12 Hz)	3.00 (10.2Hz)	5.63 (7.7 Hz)	6.87 (7.03Hz)	8.00 (6.6 Hz)		
IM xx.25.70	25	70	8		0.81 (18.6 Hz)	1.30 (14.9 Hz)	1.55 (13.7 Hz)	1.81 (12.8 Hz)	2.85 (10.4Hz)	4.25 (7.7Hz)
IM xx.50.70	52	70	8		1.62 (13.4 Hz)	2.62 (10.8 Hz)	3.14 (9.9 Hz)	3.66 (9.3 Hz)	5.78 (7.6Hz)	8.50 (6.3Hz)

FONDATION ISOLATION

PLAKISOL® PADS



Benefits

The concrete mass allows to bring inertia to the machine. The mass of the function must be between 2.5 and 4 times the mass of the machine.

<u>This type of installation is recommended for:</u>

Machines with a deformable or not sufficiently rigid frame

Machines made up of several modules that must be precisely aligned

Machines with high transverse dynamic forces

Benefits and limitations of an isolated foundation

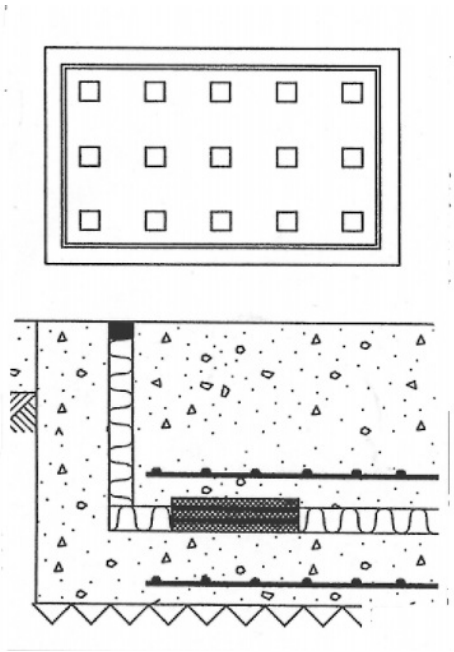
Active and passive vibration isolation

Rigidity and geometry of the machine maintained
Increased stability during operation
No vibration transmission to the environment
Increased longevity of the machine
Optimized tool life
Protected building construction

The limits

Once installed, the machine remains in place. For this reason, a solution with supports/legs must always be considered within the technical limits outlined above.

Cost and time of realization



Applications

Printing press
Machining center
Machining center UGV
Screw press
Hammer
Test bench

PLAKISOL IM

Natural low frequency allowing a low frequency vibration isolation. Obtained thanks to the specific shape of the profile

Natural frequency: 08-20 Hz depending on the load

High deflection
Anti-skid
Resistant to aging
No maintenance

FONDATION ISOLATION

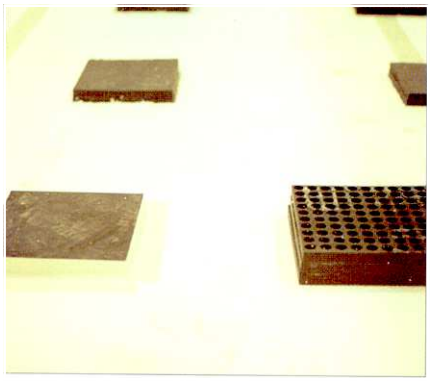
PLAKISOL® PADS

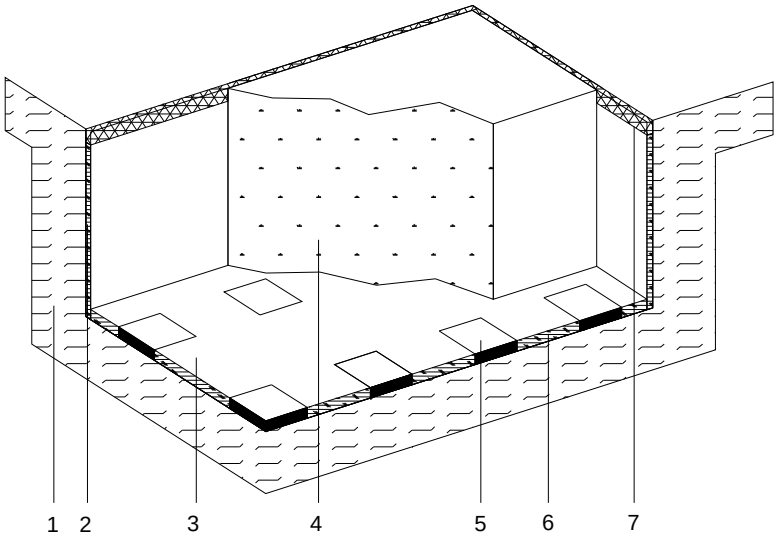
CEF takes care of the calculation of the supports according to the parameters of the installation

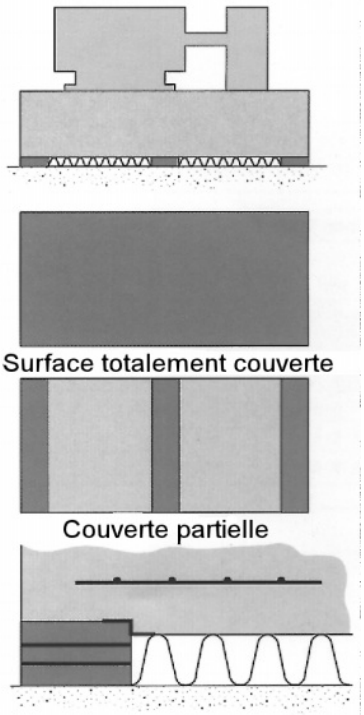
Weight machine, mass distribution, foundation weight, frequencies to be isolated, energy to be damped

We provide: Calculation note, calculation note, layout plan and installation assistance

Solution
1 Tank wall and invert
2 On wall mineral wool 20 or 40 mm thick
6 Bottom of tank mineral wool thickness 20 or 40 mm
4 Foundation block
5 IM damping device
3 CSTB wood panel 25 mm thick + polyane covering sheet
6 Peripheral seal

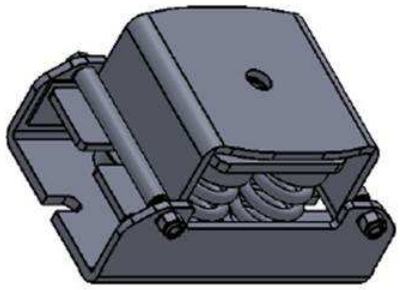






VRR

STEEL SPRINGS ANTISEISMIC



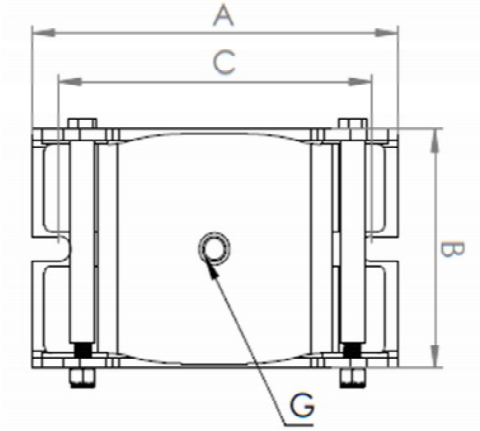
Features

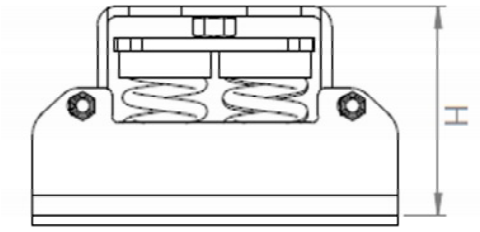
Reinforced construction
Painted corrosion protection
Integrated precision leveling
Multidirectional guiding
Lateral and vertical movement limited by stop
Rubber sole to isolate high frequencies
1/2/4 springs box

Applications :

Insulation of rotating equipment from 400 rpm
Equipment that must withstand seismic stresses, strong winds, dynamic forces

VRR Natural frequency: 3 - 5 Hz





Fail-safe	■■■■■
Vibration isolation	■■■■■
Shock damping	■■■□□
Oil Grease Ozone resistance...	■■■■■
Construction-borne noise isolation	■■■■□
Vehicule off road application	■■■■□

Référence	A	B	H	Leveling mm	C	G	Load mini daN	Deflection mm	Load Max daN	Deflection mm	Stiffness daN/mm
VRR 2.0250	276	110	163	+10	236	M16x10	100	10	250	25	10
VRR 2.0500	276	110	163	+10	236	M16x10	200	10	500	25	20
VRR 2.0750	276	110	163	+10	236	M16x10	300	10	750	25	30
VRR 2.1000	276	110	163	+10	236	M16x10	400	10	1000	25	40
VRR 4.0500	276	177	163	+10	236	M18x10	200	10	500	25	20
VRR 4.0750	276	177	163	+10	236	M18x10	300	10	750	25	30
VRR 4.1000	276	177	163	+10	236	M18x10	400	10	1000	25	40
VRR 4.1250	276	177	163	+10	236	M18x10	500	10	1250	25	50
VRR 4.1500	276	177	163	+10	236	M18x10	600	10	1500	25	60
VRR 4.1750	276	177	163	+10	236	M18x10	700	10	1750	25	70
VRR 4.2000	276	177	163	+10	236	M18x10	800	10	2000	25	80
VRR 4.2250	276	177	163	+10	236	M18x10	900	10	2250	25	90
VRR 4.2400	276	177	163	+10	236	M18x10	1000	10	2400	25	96
VRR 4.2800	276	177	163	+10	236	M18x10	1100	10	2800	25	112
VRR 4.3000	276	177	163	+10	236	M18x10	1200	10	3000	25	120
VRR 4.3200	276	177	163	+10	236	M18x10	1280	10	3200	25	128

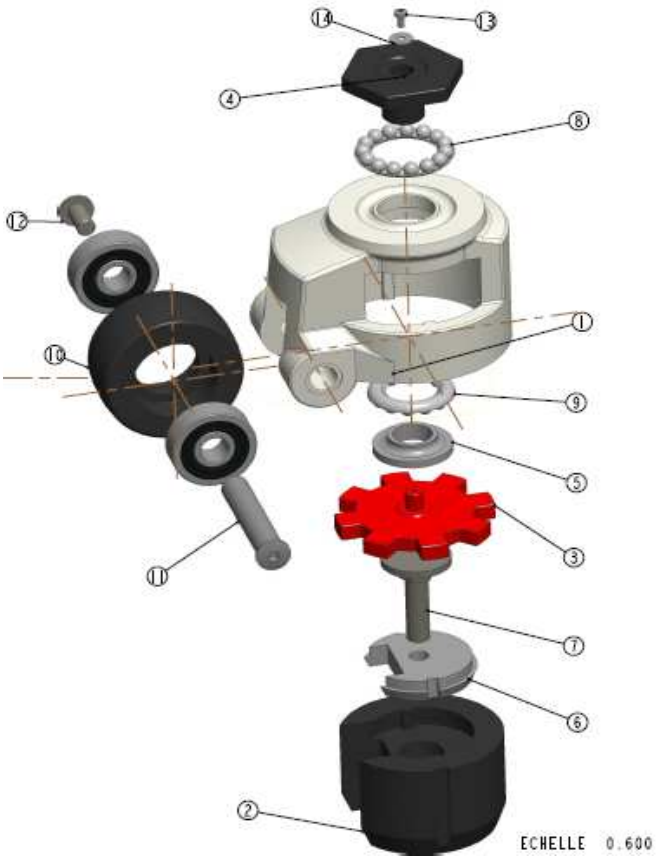
LEVELING CASTER

Perfectly adapted to the current requirements of the production 4:0. Castor FX is design and value our equipment.
Their design and their particularly looked realization assure new features:

Handle + Immobilize + Level + Isolate

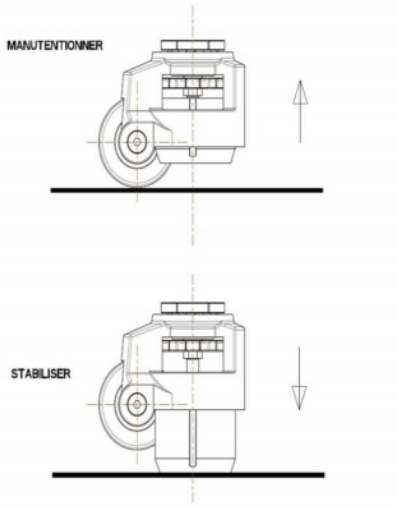
By using castors NIVELCASTER 4:0replace on your frame the castor and the leveling feet regulation
NIVELCASTER 4:0 improve the feature and cost
For best rolling, the wheel made in plastic Nylon is endowed with 2 ball bearings gone up on the axis.

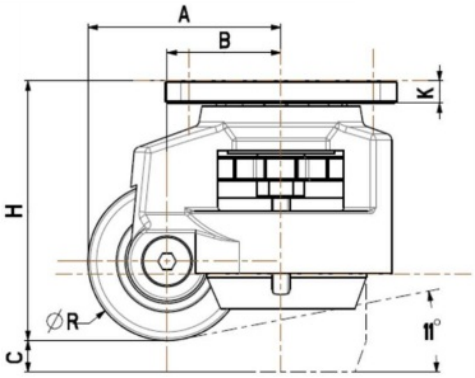
Structure	Forged steel plate on ball bearings Aluminium die-casting body Ivory powder coating Leveling by swivel the ABS segment wheel
Castor	Nylon black hi-quality 70 Sh D Assembly with 2 ball bearings rolling
Lock	Rubber pad anti-vibration
Fixing	Screw in center



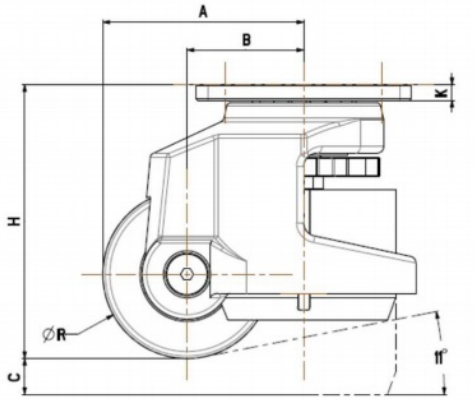
FX-F

LEVELING CASTER

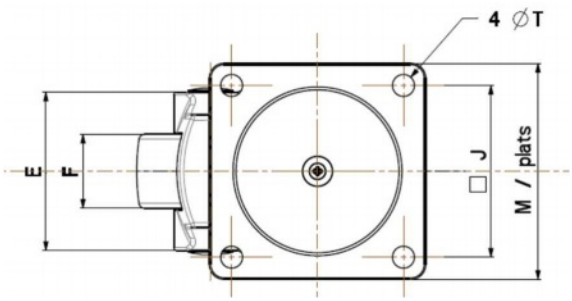


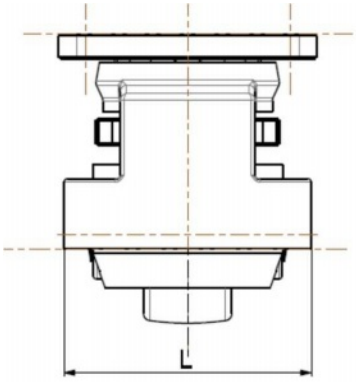


Refe-rence	Dimensions mm											
	R	H	A	B	L	M	J	G	E	F	T	C
FX 40F	40	71,2	50	30	56,5	55	42	40	42	20	7,4	10
FX 60F	50	82	61	36	60	73	58	45,3	54	25	7,4	10
FX 80F	63	102	77,5	46	86	90,2	70	63,8	67	30	8,1	16
FX 100F	75	122	90	53	97,5	95,7	70	63,8	67	30	10,5	16
FX 120F	75	122	90	53	101	100	70	63,8	67	30	10,5	16

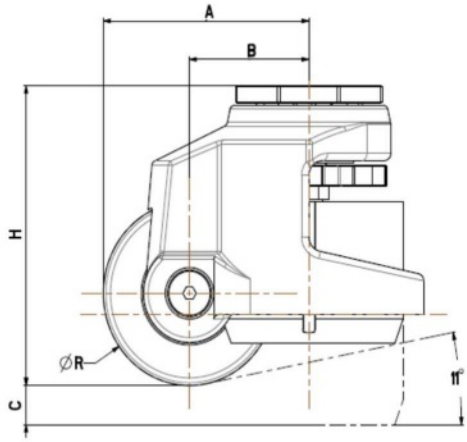


Reference	Load max 1 caster	Load 4 casters	Weight
	kg	kg	kg
FX 40F	50	150	0,48
FX 60F	250	750	0,70
FX 80F	500	1500	1,26
FX 100F	750	2250	1,70
FX 120F	1000	3000	1,85



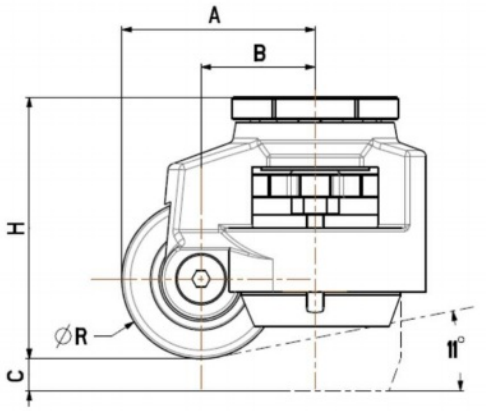


Reference	Dimensions mm									
	R	H	A	B	L	M	G	E	F	C
FX 40S	40	71,2	50	30	56,5	M8	40	42	20	10
FX 60S	50	82	61	36	60	M16	45,3	54	25	10
FX 80S	63	102	77,5	46	86	M16	63,8	67	30	16
FX 100S	75	122	90	53	97,5	M16	63,8	67	30	16
FX 120S	75	122	90	53	101	M16	63,8	67	30	16

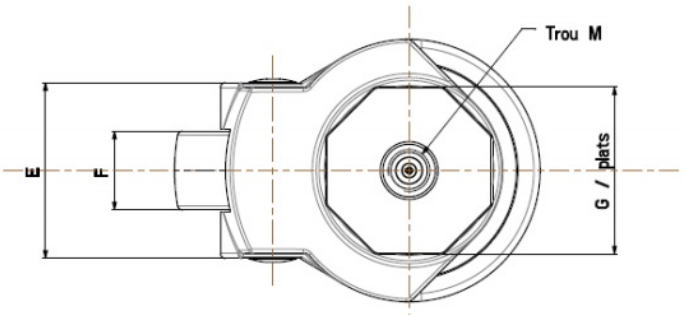


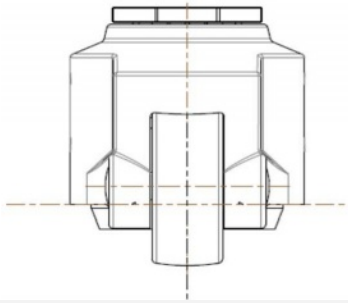
FX 40S FX 120S

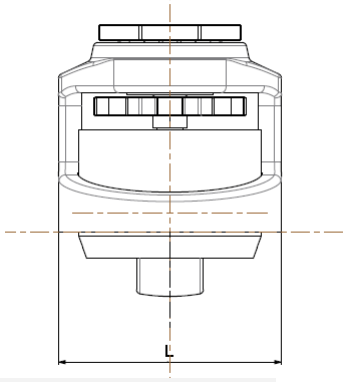
Reference	Load max 1 roulette	Load Recommandée 4 roulettes	Weight
	kg	kg	kg
FX 40S	50	150	0,38
FX 60S	250	750	0,60
FX 80S	500	1500	1,16
FX 100S	750	2250	1,50
FX 120S	1000	3000	1,62



FX 60S FX 80S FX100S







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