METALLGUMMI®

Product information and delivery programme

Vibration Control



MEGI®

M 20x3



MEGI°= METALLGUMMI (METAL RUBBER)

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MEGI[®] Spring Elements

MEGI spring elements are construction elements for use wherever vibration and noise from machines, equipment and systems are to be reduced effectively (passive suppression) as well for protection of the environment (active suppression), or forces have to be transferred without play or friction.

MEGI spring elements are distinguished by the permanent connection between the metal and elastomer as well the highly varying possibilities for application.

The comprehensive MEGI product line offers a spring element for merely every type of application required for vibration damping aspects.

When selecting MEGI spring elements, please observe the corresponding technical data and notes.

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MEGI Standard Items: Properties, Application, Load Limits

Product group: MEGI buffers

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
 Simple, reasonably priced standard components Simple to mount 	Mounting light to medium-heavy equipment, electric motors and internal combustion engines, compressors, pumps, jolting and vibration machines	- Pressure - Thrust - Compound loads	F _{z max.} 30 kN	Strength class of threaded joint: 5. Other strength classes available on request. No tension load permissible on part.

Product group: MEGI buffers with enlarged adhesive surface

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes	
 Simple, reasonably priced standard components Simple to mount Less sensitive than conventional buffers to rarely occurring tension loads Higher dynamic peak loads possible than with conventional version 	Mounting equipment, electric motors and internal combustion engines, compressors, pumps, jolting and vibration machines	- Pressure - Thrust - Compound loads	F _{z max} . 5,2 kN (Higher dynamic peak loads possible)	Strength class of threaded joint: 5. Other strength classes available on request. No tension load permissible on part.	

Product group: MEGI Stop Buffer



Product group: MEGI bars

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes	
 High specific pressure load bearing capacity Can be prefabricated and adapted to mounting conditions on a custom-tailored basis Delivery length up to 2000 mm 	Mounting medium-heavy to heavy equipment, electric motors and internal combustion engines, heavy machines, machine tools, machines for passenger and cargo elevators, jolting and vibration machines	- Pressure - Thrust - Compound loads	F _{z max.} 800 kN	No tension load permissible on part.	

Product group: MEGI Machine Mounts

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
 Rigidity ratio vertical/horizontal nearly 1 Extremely good horizontal guidance Vertical and horizontal rigidities can be changed by mounting to Machine Mounts next to one another in series 	Mounting eccentric presses, planing machines, printing presses and textile machines, electric motors and internal combustion engines, machine tools	- X, Y, Z - Compound loads	F _{zmax.} up to 21 kN	Strength class of central threaded joint: 5. Other strength classes available on request. No tension load permissible on part.
	with h	eight adjustment		with tear-off safety device

Product group: MEGI cones

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
 Impact plates for progressive axial absorption and tear-off protection Extremely good horizontal guidance Optional varying horizontal rigidities 	Mounting electric motors and internal combustion engines, body structures, compressors	- X, Y, Z - Compound loads	F _{z max.} up to 16 kN	Observe maximum pretension forces for central mounting bolt. Other strength classes available on request. No tension load permissible on part.



Product group: MEGI bearings



Product group: MEGIFLEX disks

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes	
 High specific pressure loading capacity Spring characteristics can be adjusted by using a com- bination of several elements Can be assembled as tension/ pressure spring assembly 	Mounting machines and equipment, electric motors and internal com- bustion engines. Used as, torque supports and for suspension of swing arms and ends of leaf springs in vehicle construction. Various systems can be combined to form thrust and tension assemblies.	- Pressure	F _{z max.} 82,4 kN (MEGIFLEX- disks)	It is necessary to secure higher spring assemblies against resilient buckling and lateral loads.	
Megiflex disks					

Product group: MEGI annular buffers

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
 Can be combined as tension/ pressure spring assembly Simple to mount 	Mounting light to medium-heavy machines and equipment, electric motors and internal combustion engines, cabs, pipelines and equipment cabinets.	- Pressure	F _{zmax} 6,1 kN (individual annular buffers)	Two spring elements can be pretensioned against one another to achieve double pressure spring rigidity for the spring assembly.
Megi annular buffers				

Product group: MEGI-U-V-W shaped parts

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
 Soft support Various rigidities in three spatial directions (U elements) 	Mounting sensitive equipment, apparatus, measuring instruments and equipment.	F_z for U element F_y and F_z for V and W elements	950 N	Strength class of threaded joint: 5. Other strength classes available on request. No tension load permissible on part.
$F_{x} \xrightarrow{F_{y}} F_{y}$				

Product group: MEGI ceiling elements

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
 Tear-off proof Can take up tension loads 	Mounting pipelines, illumination elements and ceiling suspensions.	Tension	F _{z max.} 280 N	Strength class of threaded joint: 5. Other strength classes available on request.

Product group: MEGI HL bushes

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
Can be loaded in radial, axial, torsional and cardanic loads	Mounting electric motors and inter- nal combustion engines, axles and pivot arms in vehicle construction as well as machines and equipment. Also use as resilient joints.	- Radial pressure - Axial pressure - Torsion - Cardanic - Compound loads	- Radial: 14,7 kN - Axial: 6,3 kN	The outer and inner tube must be clamped rigidly to transfer torsion loads.
	Megi HL b	ushes		

Product group: MEGI AS bushes

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes
Properties same as MEGI HL bushes, however, stiffer axially	See MEGI HL bushes	- Radial pressure - Axial pressure - Torsion - Cardanic - Compound loads	- Radial: 3,4 kN - Maximum axial load depends on axial pretension	The outer and inner tube must be clamped rigidly to transfer torsion loads and axial forces
	Megi AS b	bushes		

Product group: MEGI rings

Particular characteristics	Typical applications	Possible types of loads/directions	Static load limits	Notes	
Large torsional twist possible	Mounting axles and pivot arms in vehicle construction. Use as resilient joints.	- Radial pressure - Axial pressure - Torsion - Cardanic - Compound loads	- Radial: 2,2 kN - Axial: 1,55 kN - Torsional moment 28,4 Nm	When installing, it is necessary to pretension the outer bush radially	
Megi rings					

MEGI® Buffers



Applications

Megi buffers are simple, reasonably priced standard elements for flexible bearing arrangements. They are used successfully in general mechanical engineering, light engineering, printing press manufacture and pump manufacture, in the electrical industry and in many other fields. The various construction types (threaded bolt, weld nut) provide an appropriate means of mounting the elements in practically every case).

Description

Megi buffers can be subjected to either shearing or compressive loads, or to both when mounted at an angle to each other. While the high degree of stiffness is desirable for compressive stress, especially for high kinetic and impact loads, the high degree of flexibility to shear stress provides good vibration isolation. If the Megi buffers are subject only to shearing stress, pre-compression has a favourable effect on the service life. Megi buffers with an enlarged rubber-to-metal bonding surface are particularly suitable for high peak dynamic stress.

Technical Data

Megi buffers cover a load range up to 30 kN depending on the application and type of rubber used. The maximum tightening torque for the central threaded connection can be selected according to strength class 5.6.



Delivery

Depending on the item, the Megi buffers are available from stock in standard packages or as catalogue goods producible on short notice.



Megi buffers with threaded stud on both sides Part No. 781... Versions: hard, medium, soft



	[Dimen	sions	;						Т	echni	cal dat	ta						
		in m	nm				Cor	npress	sion st	ress				Shear	stress	6			Number
						Spring	rate c _z ir	n N/mm	Perm. I	oad F _{Per}	m.* in N	Spring I	rate c _{x,y} i	in N/mm	Perm.	load F _{Per}	m.* in N	Deut Nie	in
D	Н	h	S	G		hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft	Part No. p	раскаде
18	8,5	4,5	2	Μ6	11	800	500	300	540	340	200	80	50	30	120	70	40	781 040 S1	100
18	8,5	4,5	2	M 6	16	800	500	300	540	340	200	80	50	30	120	70	40	781 040	100
20	15	11	2	M 6	16	290	180	110	480	300	180	50	30	20	190	110	70	781 050	100
25	20	14	3	M 6	16	350	220	130	740	460	270	60	40	20	300	190	110	781 060	60
30	15	10	2,5	M 8	21	940	590	340	1400	880	520	110	70	40	390	250	150	781 070	60
30	15	11	2	M10	18	680	420	250	1120	700	410	80	50	30	330	200	120	781 130	-
30	20	14	3	M 8	21	570	360	210	1190	750	440	90	60	30	440	280	160	781 071	60
30	30	24	3	M 8	20	260	160	90	920	580	340	50	30	20	430	270	160	781 072	60
40	30	24	3	M 8	21	510	320	190	1840	1150	680	90	60	30	780	490	240	781 080	20
40	40	34	3	M 8	21	320	200	120	1620	1020	600	60	40	20	770	480	280	781 081	20
50	20	14	3	M10	18,5	2430	1520	890	5100	3190	1880	240	150	90	1120	760	450	781 090 S1	12
50	24	18	3	M10	26,5	1490	930	550	4020	2510	1480	190	120	70	1230	770	450	781 090	12
50	30	24	3	M10	26,5	900	550	330	3220	2010	1180	140	90	50	1210	760	440	781 091	12
50	40	34	3	M10	26,5	540	340	200	2770	1730	1020	100	60	40	1250	780	460	781 092	12
50	45	39	3	M10	26,5	430	270	160	2530	1580	930	90	50	30	1200	750	440	781 112	12
75	25	19	3	M12	39	4480	2800	1650	12770	7980	4690	400	250	150	2750	1720	1010	781 100	12
75	55	49	3	M12	39	640	400	235	4700	2940	1730	120	70	40	2090	1300	770	781 102	4
100	30	24	3	M16	44	6160	3850	2260	22170	13860	8150	510	320	190	4470	2780	1640	781 110 S2	4
100	40	34	3	M16	44	2980	1860	1090	15180	9480	5580	360	220	130	4410	2760	1620	781 110	-
100	60	54	3	M16	44	1360	850	500	11020	6890	4050	230	140	80	4440	2780	1630	781 111	4

* F Perm. is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. The permissible loads given represent only approximate guide values for the static load.

Stock items: Available only in standard packages.

All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Megi buffers with female thread on both sides Part No. 781... Versions: hard, medium, soft



		Dimer	nsions	;						-	Technic	cal da	ta						
		in r	nm				Con	npress	sion st	ress				Shear	stress	3			Numbor
D	Н	h	s	G	t	Spring hard	rate c _z in medium	n N/mm soft	Perm. hard	load F _{Pe} medium	_{rm.} * in N 1 soft	Spring hard	rate c _{x,y} ir medium	n N/mm soft	Perm. hard	load F _{Perr} medium	_{m.} * in N soft	Part No.	in package
20	25	22	1,5	M 6	6,5	190	120	70	270	170	100	40	25	15	130	80	50	781 054	80
30	30	24	3	M 8	9,5	570	360	210	690	430	250	80	50	30	240	150	90	781 074	60
30	40	34	3	M 8	9,5	220	140	80	610	380	220	60	35	20	380	240	140	781 075	-
40	30	24	3	M 8	9,5	880	550	320	1060	660	390	140	80	50	370	230	130	781 084	40
40	40	34	3	M 8	9,5	370	230	140	990	620	360	80	50	30	530	330	190	781 085	40
50	30	24	3	M10	10,5	1680	1050	620	1520	950	560	220	140	80	480	300	180	781 094 \$	S1 20
50	40	34	3	M10	10,5	660	410	240	1570	980	580	140	80	50	750	470	280	781 094	20
75	50	44	3	M12	12,5	980	610	360	3620	2010	1180	190	120	70	1540	960	560	781 104	12
100	60	54	3	M16	16,5	1360	850	500	4900	3060	1800	250	150	90	2100	1310	770	781 114	4
150	75	65	5	M20	17,5	2610	1630	960	14480	9050	5320	410	250	150	5390	3370	1980	781 124	4
200	100	90	5	M20	17,5	3250	2030	1190	30200	18880	11100	460	290	170	10460	6540	3850	781 134	-

* F Perm. is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. The permissible loads given represent only approximate guide values for the static load.

Stock items: Available only in standard packages.

All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Megi buffers with female thread and threaded stud Part No. 781... Versions: hard, medium, soft



		Dir	nensio	ons							Т	echni	cal da	ta						
		ĺ	in mm	1				Cor	npress	sion st	tress				Shear	stress	3			Number
							Spring	rate c _z ir	N/mm	Perm.	load F _{Pen}	m.* in N	Spring	rate c _{x,y} i	n N/mm	Perm.	load Fperr	m.* in N	Dest Na	in
D	Н	h	S	G	1	t	hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft	Part No.	раскаде
20	25	21,5	2/1,5	M 6	16	6,5	140	80	50	290	180	100	27	17	10	140	90	50	781 057	100
25	20	16,5	2/1,5	M 6	11	6,5	300	140	110	470	290	170	60	38	22	220	140	80	781 067	80
30	20	15,5	2,5/2	M 8	13	6,5	650	410	240	900	560	330	110	70	40	370	230	140	781 079	60
30	20	14,5	2,5/3	M 8	16	6,5	670	420	250	820	510	300	110	70	40	320	200	120	781 079 S1	60
30	30	24	3	M 8	16	9,5	340	210	120	740	460	270	65	40	25	340	210	120	781 077 S3	-
30	30	24	3	M 8	21	9,5	340	210	120	740	460	270	65	40	25	340	210	120	781 077	60
30	40	34	3	M 8	21	9,5	180	110	60	660	410	240	32	20	12	290	180	100	781 078	60
40	30	24	3	M 8	21	9,5	540	340	200	1200	740	440	100	60	35	510	320	190	781 087	40
40	40	34	3	M 8	21	9,5	390	190	110	1150	700	410	90	40	25	580	360	210	781 088	40
50	34	28	3	M10	26,5	10,5	900	500	230	2100	1320	780	150	90	40	910	570	340	781 097 S2	-
50	40	34	3	M10	18,5	10,5	550	350	210	2000	1240	730	110	65	35	900	560	330	781 097 S1	-
50	40	34	3	M10	26,5	10,5	550	350	210	2000	1240	730	110	65	35	900	560	330	781 097	20
50	50	44	3	M10	26,5	10,5	340	210	120	1700	1060	620	70	40	25	790	490	290	781 098	-
75	50	44	3	M 12	39	12,5	930	600	310	4600	2850	1680	160	100	60	1850	1150	680	781 107	12
100	40	34	3	M 16	44	16,5	3100	1600	1000	6700	4200	2500	400	220	120	2250	1400	820	781 117	4
100	60	54	3	M 16	44	16,5	1400	830	500	7500	4700	2800	250	150	90	3300	2050	1200	781 118	-

* F Perm. is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. The permissible loads given represent only approximate guide values for the static load.

Stock items: Available only in standard packages. All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Megi buffers with enlarged rubber-to-metal bonding surface Part No. 781... Versions: hard, medium, soft

Megi buffers with a "waisted" rubber section in relation to the bonding surface have good durability even at peak dynamic loads. Since the very dangerous peak stresses can be avoided at the edges of the bonding surfaces, these buffers are less affected by tensile stress than the normal cylindrical type of metal rubber buffers.



		D	imen	sion	S						Т	echnic	cal da	ta						
			in m	nm				Con	npress	sion st	ress				Shear	stress	6			Numbor
							Spring	rate c _z in	N/mm	Perm.	load F _{Pen}	m.* in N	Spring	rate c _{x,y} ir	n N/mm	Perm.	load F _{Perr}	n.* in N		in
D	d	Н	h	S	G	I	hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft	Part No.	package
25,5	5 22	22	16	3	M 8	21	320	200	120	770	480	280	60	35	20	320	200	120	781 146	60
40	35	28	22	3	M 10 1	6,5/21,5	530	330	190	1740	1090	640	80	50	30	640	400	240	781 152	-
40	35	28	22	3	M 10	26,5	530	330	190	1740	1090	640	80	50	30	640	400	240	781 147	20
55	45	36	30	3	M 10	22	600	370	250	2700	1670	1120	110	65	40	1100	650	400	781 145	-
60	50	60	54	3	M 10	26,5	340	200	110	2590	1620	950	60	35	20	110	690	400	781 150 \$	61 8
80	70	70	64	3	M 14	37	540	340	200	5220	3260	1920	100	60	35	2240	1400	820	781 149	8

* F Perm. is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. The permissible loads given represent only approximate guide values for the static load.

Stock items: Available only in standard packages.

MEGI® Stop Buffers



Applications

Megi are used to limit the effects of impact, e.g. in machines mounted on flexible bearings and as shock absorbers to limit the spring deflection in vehicles.

Megi are also used where machines, such as office machines are not anchored to the foundation or on sensitive floors. The larger versions such as the Megi fender buffers, are used for heavy and very heavy shock stresses, where it is necessary to absorb extremely high impact energy.

Description

Megi are in principle only subjected to compressive loads. When fitting the Megi, it is necessary to ensure that the components cannot move horizontally to the direction of the compressive load. Otherwise, the abrasion will lead to increased wear:

The different versions, e.g. with threaded studs, female thread or flange mounts, ensures good mounting possibilities for nearly every type of application.

Technical Data

Megi cover a load spectrum up to **50 kN** depending on the shape and size of the bumper. Details are given in the tables. The maximum tightening torque for the central threaded mount can be chosen in conformance with strength class 5.6.

Delivery

Depending on the item, the Megi buffers are available from stock in standard packages or as catalogue goods producible on short notice.



Megi buffers with threaded stud Part No. 781...

	Dim	ensio	ons	s in mr	n	Compress	sion stress		Numbor
D	Н	h	S	G	I	Spring rate c _z in N/mm medium	Perm. load F _{Perm.} * in N medium	Part No.	in package
18	7,5	5,5	2	M 6	16	350	240	781 043	100
20	13,5	11,5	2	M 6	16	150	260	781 053	100
25	17	14	3	M 6	16	180	380	781 063	100
30	17	14	3	M 8	21	360	760	781 073	60
40	27	24	3	M 8	21	270	970	781 083	50
50	21	18	3	M 10	26,5	650	1760	781 093	20
75	25	22	3	M 12	39	1400	4620	781 103	8
100	40	37	3	M 16	44	1400	7770	781 113	4

Megi stop bumper with female threads Part No. 781...

	D	ime	ens	ions	in mr	m	Compress	sion stress		Numbor
[D	н	h	S	G	t	Spring rate c _z in N/mm medium	Perm. load F _{Perm.} * in N medium	Part No.	in package
2	0 1	13,5	12	1,5	M 6	6,5	220	230	781 056	100
3	0 1	17	14	3	M 8	9,5	550	620	781 076	80
4	0 2	27	24	3	M 8	9,5	350	920	781 086	40
5	0 2	21	18	3	M 10	10,5	700	1100	781 096	20
7	5 2	25	22	3	M 12	12,5	1700	3200	781 106	20
10	0 4	40	37	3	M 16	16,5	1400	4950	781 116	12
15	0 7	75	70	5	M 20	17,5	1350	11650	781 126	4
20	0 10	00	95	5	M 20	17,5	1700	21000	781 136	-



All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.



Megi with parabolic cross-section

The special design of Megi with their parabolic cross-section allows them to yield readily to initial impact while maintaining highly progressive spring characteristics. They can be used as shock absorbers to limit the amplitude of vibration and spring deflection.



MEGI with intermediate metal plate vulcanised end Part No. 741 086

Shock and impact buffers for extremely high loads.



Megi stop bumper with intermediate plate vulcanised end, fitted into fender element on pier.

This item is listed in the catalogue in "medium" hardness approx. 60° shore and can be produced on request. Supply quantity on request.







MEGI[®] Bars



Applications

Megi bars are especially suitable for flexible bearing arrangements for heavy machines such as, for example, marine engines, large stationary engines, lathes, hoisting engines, jogging and vibrating machines. Megi bars can be used anywhere the available space and high loads do not allow installation of buffers.

Description

Megi bars are produced in lengths from 500 to 2000 mm and can be cut to any desired length. However, it is necessary to ensure that the minimum length does not exceed the sectional width. The thickness of the metal plate must be selected so that threaded holes can be tapped in them for fastening purposes. Megi bars with projecting base plate can only be supplied in the fixed lengths indicated in the table. Under static load, the rubber thickness "h" can be compressed by approx. 10 to 15%. 10% for h<40 mm, 15% for h>40 mm. Megi bars are installed primarily to absorb compressive stress or are set at an angle to each other to absorb compressive and shearing stress.

Technical Data

Megi bars cover a load spectrum up to 775 kN depending on the bar section and length. Further details are given in the tables.





Megi Bars

For large orders, metal-rubber bars can be supplied with metal plates of a different thickness "s" and with a thinner rubber layer.

Metal rubber bars can also be supplied as impact plates, that is with a metal plate on one side only to meet special production orders.

DIN 1017 applies for metal parts. The appropriate thickness tolerances for Megi bars are given in DIN 7715.



В	Η	h	S	Available in lengths of	Part No.
20	30	20	5	500 mm	781 210
25	30	20	5	500 mm	781 211
40	35	19	8	500 mm	781 212
50	40	20	10	2000 mm	781 314
50	50	30	10	2000 mm	781 315
50	60	40	10	2000 mm	781 320

Spring rate for compression stress cp



Stock items. Can be supplied in standard packages in "medium" hardness, approx. 60° shore. Only available in packages of 10. No standard packages.

Spring rate for compression stress c_S

U



All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.



		Din	nensio	ns							Ţ	echnic	al dat	a					
		i	n mm					Cor	npress	sion st	tress			ç	Shear	stress	3		
							Spring	rate c _D ir	n N/mm	Perm. I	load F _{Pern}	_{n.} * in kN	Spring	rate c _S in	N/mm	Perm. I	oad F _{Pern}	_{n.} * in kN	Part No.
В	Н	h	S ₁	S ₂	L	L ₁	hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft	
50	40	20	12	8	200	150	6500	4000	2300	13	8	5	500	300	200	2,5	1,5	1	711 023
50	40	20	12	8	270	220	11400	7100	4000	24	15	9	750	500	300	3,5	2	1,5	711 025
100	60	30	15	15	470	230	16300	10200	5700	50	31	18	1050	650	400	7	4,5	2,5	711 017
100	60	30	15	15	480	360	29000	18200	10400	94	59	35	1700	1000	600	11,5	7	4	711 019
100	60	30	15	15	550	430	39700	22500	12800	110	69	41	2000	1200	700	13,5	8,5	5	711 018

* F Perm. is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. If the Megi bars are subjected to shearing stress, it is essential to avoid tensile stress on the rubber during installation of the Megi bars. In order to obtain an adequate service life, the bars should be pretensioned.

Stock items. Delivered in "medium" hardness, approx. 60° shore.

All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

MEGI[®] Machine Mounts



Application

Megi Machine Mounts are proven universal elements for resilient support of machines of all types. Megi Machine Mounts are preferred wherever it is necessary to avoid great horizontal motions (e.g. machine tool instability). Their horizontal rigidity is greater than the vertical rigidity in all directions. When used properly, Megi Machine Mounts are excellent to prevent transfer of shocks and noises.

Megi Machine Mounts can also be supplied with a height adjustment allowing the equipment to be levelled.

Megi Machine Mounts with tear-off protection specially withstand 3 g in all directions. When such load occurs, it's necessary to replace the part. These tear-off proof Machine Mounts are the ideal spring elements for special applications where tension forces are expected (e.g. in vehicle and marine construction). These articles are zinc coated and Cr6-free passivated.

Description

Megi Machine Mounts are supplied with rectangular or oval flange. The versions with height adjustment allow the resiliently supported equipment to be levelled. Megi Machine Mounts are distinguished by their low overall height.

Technical Data

The Megi Machine Mounts cover a load spectrum **up to 21 kN** depending on the size of the Machine Mounts and type of rubber used. Further information is given in the tables.

The maximum tightening torques for the central threaded mounts can be selected in conformance with strength class 5.0.

Use for resilient support of:

- Engines of all types,
- Diesel assemblies,
- Machine tools,
- Eccentric presses,
- Textile machines,
- Wood processing machines,
- Printing presses,
- Sieves,



Rolling mills,

- Pumps,
- Ventilation equipment, etc.
- Washing machines.

Delivery

Available from stock in standard packages.



MEGI[®]= METALLGUMMI[®] (Rubber Metal) Registered trademark.





Supply Programme **MEGI® Machine Mounts**







Supply Programme **MEGI® Machine Mounts**



Supply Programme **MEGI® Machine Mounts**

Megi Machine Mounts with tear-off protection

	Compres	sive load				Dimensi	ons in mr	n			Max. tightening torque
Part No.	C _z in N/mm ± 20%	max. load F _z [N]	D	L1	L	н	d	S	G	В	M _{anz.} [Nm]
786 230	315	950	79	110	130	30	9	3	M10	79	50
786 230 S1	680	1900	79	110	130	30	9	3	M10	79	50
786 231	235	1500	82	110	135	35,5	11	2,5	M10	89	50
786 232	475	1800	94	124	150	35	10	3,5	M10	100	50
786 232 S1	1000	2700	94	124	150	35	10	3,5	M10	100	50
786 233	570	2500	101	144	175	38	14	3,5	M16	105	210
786 233 S1	1215	4500	101	144	175	38	14	3,5	M16	105	210
786 234	860	4000	123	158	192	42	14	4	M16	130	210
786 234 S1	1285	6000	123	158	192	42	14	4	M16	130	210
786 236	1150	7500	144	182	216	48	14	4	M16	144	210
786 236 S1	2150	13000	144	182	216	48	14	4	M16	144	210

The ratio of the vertical to horizontal rigidity is near to 1. $(C_Z \ / \ C_{X/y} \approx 1)$

These articles are zinc coated and Cr6-free passivated.







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MEGI®-Cones



Applications

Megi cones are ideal for oscillation damp, i.e. low vibration bearing arrangements for motors, body superstructures on chassis frames, compressor units on rail cars, etc. there are transfer recesses in the Megi cones used for piston engines so that the elasticity constant in the longitudinal direction differs from the value in the transverse direction. These articles are zinc coated and Cr6-free passivated.

Description

Megi cones consist of inner and outer metal cones. The outer cone has an oval or rectangular flange for mounting purposes. Stop plates are fitted in order to limit deformation under compression and tension. Where extremely high stress is present, these stop plates prevent separation of the cone components. Axial impact can be progressively absorbed by the upper stop plate, which, if compression force is excessive, rests on the upper rubber shoulder. If tensile forces are excessive, the inner cone can be deflected only until the bottom stop plate comes up against the lower collar of the outer cone. Megi cones are designed so that the springing effect is soft in the axial direction and very stiff in the radial direction. Megi cones are supplied in galvanized/yellow-chromated version.

Technical Data

Megi cones cover a load spectrum up to 17 kN depending on the cone and type of rubber used. The spring values are given in the diagrams. The inner part of the cone may only be subjected to compression at the specified max. initial tension (inner parts with high strength available on request). The type of threaded mount and tightening torques must be selected accordingly.

Example:

M8 bolt, strength class 8.8, coefficient of friction μ_{R} = 0.15 result in an initial tension force for the threaded connection of approx. 16 kN and a tightening torque of approx. 25 Nm.

Delivery

Depending on the item, the Megi buffers are available from stock in standard packages or as catalogue goods producible on short notice.







Megi cone

Supply Programme MEGI®-Cones



produced on request. Supply quantity on request. Stock item. Available only in packages of 16 each.



Max. tension force of central threaded mount on inner section of cone $F_V = 20 \text{ kN}.$



Megi cone Part No. 786 025 S1 Versions: hard, medium, soft Special version for use as piston engine bearings. These cones have transverse radial recesses so that they are much softer in the transverse direction than in the longitudinal direction. F₂ 0 54 Ø12 6.5 R25 ø 54 \$ 60 8 L× 68 Fy

8

This item is listed in the catalogue and can be produced on request. Supply quantity on request.







Special version for use as piston engine bearings. These cones have transverse radial recesses so that they are much softer in the transverse direction than in the longitudinal direction.



This item is listed in the catalogue and can be produced on request. Supply quantity on request.



Max. tension force of central threaded mount on inner section of cone $F_{V}=50\ kN.$







MEGI® Bearings



Applications

Megi bearings are used in a wide variety of applications because they are available in several different types, e.g. pedestal bearings, flanged bearings, round or box-type bearings. Some of the bearings are supplied with recesses in the rubber crosssection in order to obtain different degrees of longitudinal and transverse rigidity. In addition, some bearings are fitted with a device preventing overloading or tear-off of the rubber metal bond, so that the possibility of damage from overloading is eliminated. Bearing 742 157 is produced using cast aluminium to reduce the weight.

Description

Megi bearings are simply and easy to install. The components, usually designed as pedestal bearings, are bolted directly to a frame or to the foundation. The slotted holes in the flange compensate for any deviations in the position of the drilled bolt holes.

Technical data

Megi bearings cover a load spectrum **up to 6 kN** depending on the bearing used and type of rubber. Further details are given in the tables.

Delivery

Depending on the item, the Megi buffers are available from stock in standard packages or as catalogue goods producible on short notice.



Megi bearing Part No. 786 012 Versions: hard, medium, soft

This bearing was developed for light loads. It is soft in the axial direction and has sufficient stiffness in the radial direction. The single-hole mount and the resulting installation possibilities make this bearing particularly suitable for sheet metal structures. These articles are zinc coated and Cr6-free passivated.





Stock item. Available only in packages of 12 each.



Available only in packages of 12 each.

All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Megi bearing Part No. 742 034 S6

This round element is designed as a pedestal bearing and is suitable as a flexible mount for motors and stationary assemblies. The vertical deflection in the compression as well as tension direction is limited by the stop plates at the top and bottom making it impossible to overload this bearing.

Rated shore hardness (spring curve has priority):







Stock item. Available only in packages of 4 each.





Megi bearing Part No. 742 034 S7

This round element is designed as a pedestal bearing and is suitable as a flexible mount for motors and stationary assemblies. The vertical deflection in the compression as well as tension direction is limited by the stop plates at the top and bottom making it impossible to overload this bearing.

Rated shore hardness (spring curve has priority):

40°	Shore A
50°	Shore A
60°	Shore A
70°	Shore A

Spring	rates in ope	rating range	in N/mm ±2	0 %
Shore A	40°±5	50°±5	60°±5	70°±5
Cz	235	325	440	570
C _X	785	1130	1520	1960
cy	345	540	740	980





The recesses in the rubber provide different degree of longitudinal and transverse rigidity.

Megi bearing Part No. 742 157

This large Megi box-shaped bearing can be used as a flexible mount for extremely heavy engines in vehicles and stationary assemblies. Cast aluminium was used for the core and flange parts to reduce the weight.

Rated shore hardness (spring curve has priority): 40° Shore A

50° Shore A

60° Shore A

1	υ	5	n	0	r	e	F	۱

Spring	rates in ope	rating range	in N/mm ±2	0%
Shore A	40°±5	50°±5	60°±5	70°±5
Cz	450	680	1020	1570
C _X	1765	2450	3680	5690
cy	170	235	345	590



Stock item. This item is listed in the catalogue and can be produced on request. Supply quantity on request.



MEGI[®] Ring Elements



Applications

Megiflex-disk and Megi annular buffers are simple standard elements in terms of the part geometry which are used as flexible mounts in light and heavy machine construction as well as automotive applications.

Megiflex-disk, which can be combined to form spring assemblies, are frequently used as buffer elements on rail vehicles. They can also be assembled to form tension/thrust elements. Various spring constants and therefore deflection values can be achieved by assembling a number of these disks in series.

Megi annular buffers are spring elements which are usually used as pairs at each bearing points. They are particularly effective when used as auxiliary mounts to interrupt structure-borne sound vibrations. Annular buffers with tear-off protection can be used for many applications from resiliently suspended driver's seat to flexibly mounted truck cabs, from pipe mounts to control cabinets; minor transfer forces are absorbed.

Description

Megiflex-disk are prestressed when fitted and absorb both tensile and compressive forces. In spring assemblies made up of a large number of individual elements, it is necessary to insert supports to prevent buckling and a guide is required for the entire spring column. The number of spring elements assembled in series must be calculated to ensure that the load does not exceed the initial tension range. Transfer forces cannot be absorbed, or only to a small extent. Mounting plates must be provided by the customer.

Megi annular buffers are installed in pairs and decompressed. They provide a relatively hard flexible mount for tension and compression. The primary function of the element is to interrupt transmission of structureborne noise.

Technical Data

Megiflex-disk absorb impact loads **up to approx. 500 kN** depending on the application and type of rubber used. Megi annular buffers cover a load range up to approx. 3750 N.

Delivery

Depending on the item, the Megi buffers are available from stock in standard packages or as catalogue goods producible on short notice.





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Assembly



Supply Programme MEGI® Ring Elements

Megiflex disks Versions: hard, medium, soft

Megiflex disk are prestressed when fitted and absorb both tensile and compressive forces. In spring assemblies made up of a large number of individual elements, it is necessary to insert supports to prevent buckling and a guide is required for the entire spring column. The number of spring elements assembled in series must be calculated to ensure that the load does not exceed the initial tension range. Transfer forces cannot be absorbed, or only to a small extent. Mounting plates must be provided by the customer.



				Dime	ensions	3					Te	echnical d	ata medium		
AØ	аØ	ВØ	bØ	СØ	Н	S	E	α°	R	r	Max. co stati	ontinuous c load	infrequent peak load*	Part No.	Number in package
											N	s (mm)	N		
65	26	62	30	46	11	1	2,5	60	2	0,5	6850	1,8	17650	741 473	20
95	45	90	50	70	10,5	1,5	2,5	60	2,5	1	7850	1,4	20600	741 481	10
100	35	90	40	64	27,5	1,5	3,5	60	3	1	9800	6,4	58850	741 444	10
110	30	102	38	76	20,8	1,75	3,5	60	3	1	13750	3,7	62800	741 401	6
110	30	102	38	76	25,8	1,75	3,5	60	3	1	12750	5,1	73600	741 409	-
110	40	102	44	76	15,8	1,75	3,5	60	3	1	14200	2,4	49050	741 493	6
130	55	123	60	90	16	2	5	60	4	2	17150	2,1	57900	741 488	6
153	55	145	60	102	16	2	5	60	4	2	27950	1,9	88300	741 433	-
153	55	145	60	102	30	2	5	60	4	2	29450	6,2	107900	741 472	4
155	75	150	80	115	12	2	5	60	4	2	23550	1,2	73600	741 485	-
160	90	155	95	125	12	2	5	60	4	2	22550	1,3	66700	741 486	-
164	60	156	64	110	16	2	4	60	4	2	30400	1,8	88300	741 424	-
164	60	156	64	110	23	2	4	60	4	2	33350	3,6	122650	741 432	4
210	55	200	60	154	20	2	6	60	6	1,2	45150	2	153050	741 482	-
210	95	200	100	154	20	2	6	60	6	1,2	45150	2,6	173650	741 436	4
220	66	200	100	154	62	2	6	60	6	1,2	32400	13	103000	741 407	-
240	70	230	76	154	25	2	6	60	5	2	60800	2,9	217800	741 434	4
265	78	250	90	166	27,8	2,75	7	60	6	2	82400	3,2	276650	741 427	-
320	154	310	160	235	18	3	7	100	6	2	56900	1,4	196200	741 483	

* F_{zul.} is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. The permissible loadings given represent only approximate maximum values of static loading for guidance.

Stock item. Available only in standard packages. All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Supply Programme MEGI® Ring Elements

Megi Annular Buffers

Megi annular buffers are ring-shaped rubber metal parts with a collar on one of the two metal plates for centring. Megi annular buffers can be subjected to compression and shearing stress.

Megi annular buffers are used as flexible mounts where tensile forces are expected. They are used in pairs decompressed against one another.

Rubber hardnesses:hardapprox. 70 Shore Amediumapprox. 60 Shore Asoftapprox. 45 Shore A



			Dime	ensi	ons								Т	echni	cal da	ta						
			in	mn	n					Compression stress Shear stress								S			Number in	
									Spring	rate c _z ir	N/mm	Perm.	load F _{Perr}	_{m.} * in N	Spring	rate c _{x,y} ir	n N/mm	Perm.	load F _{Pern}	_{n.} * in N	Part No.	package
D	А	B**	С	E	F	G	S	R	hard	medium	soft	hard	medium	soft	hard	medium	soft	hard	medium	soft		
36	6,2	6,2	15	10	6	-	1	1	2000	1350	800	2600	1600	950	170	110	65	500	300	180	741 029	-
36	8,5	12	18	10	4	-	1	1	1550	1000	620	1900	1200	700	150	100	60	400	250	150	741 027	50
36	16,6	16,6	20	8	3	-	1	1	1900	1250	770	1800	1100	650	175	115	70	300	200	120	741 092	50
50	16,5	20	23	13	9,5	-	1,5	2,5	2200	1500	900	3700	2300	1350	225	150	90	800	500	300	741 020	50
60	20,5	24	27	13	10,5	-	1,5	2,5	3000	2000	1050	6100	3800	2200	325	220	130	1100	700	410	741 026	25

* F Perm. is the **permissible continuous static load** upon which a fluctuating dynamic load can be superimposed. The permissible loads given represent only approximate guide values for the static load.

** Inner diameter (dimension B) on Part 741 027/-029/-92 is rubber-coated

Assembly



Stock items: Available only in standard packages.

All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.



MEGI[®] U-V-W-Shaped Elements · MEGI[®] Ceiling Elements



Applications

Megi-U bearings are suitable for reducing shock or isolation vibration in apparatus and equipment. The impact and excitation forces must remain small and the permissible maximum static load should be exceeded only slightly.

Megi-V-W parts have a variety of uses in mounting sensitive instruments, meters and indicating devices requiring protection against shock.

The Megi ceiling element is used purely for suspension purposes and is especially suitable for flexible suspension of light fittings, apparatus and pipe work from ceilings. A tearoff protection feature is built in.

Description

U-V-W elements should be installed in such a manner that the load is either at right angles or parallel to the metal plates. These elements should never be subjected to tensile stress. The design of the **Megi ceiling** element enables it to absorb flexibly even impact or acceleration forces acting on the suspended parts. The cross-ties, which is vulcanised in, holds the suspended parts securely, even when they are subjected to extremely heavy shocks.

Technical Data

The following maximum loads can be supported by the previously described U-V-W elements and ceiling element: Shore hardness: 40°, 60°, 70°.

Delivery

Available as stock item in standard packages



Part	Compression	Shear	Tension
Megi-U element up to		350-1400 [N]	
Megi-V element up to	100-300 [N]	40-150 [N]	
Megi-W element up to	200-600 [N]	70-240 [N]	
Ceiling element up to			300-750 [N]



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METALLGUMMI[®]

Supply Programme MEGI® U-V-W-Shaped Elements



Supply Programme MEGI® U-V-W-Shaped Elements

Megi-V bearing Part No. 786 002 Versions: hard, medium, soft

Megi-V bearings have a variety of applications as mounts for sensitive instruments, etc., which require protection against shock. They can be loaded in the compression direction (at right angles to the metal plate) as well as in the shear direction (parallel to metal plates).

Maximum permissible loads:

Under continuous static load, the spring deflection should generally not be greater than 3.5 mm in the compression direction and not more than 5 mm in the shearing direction. The loads corresponding to these deflections are given in the spring curves.





Supply Programme MEGI® U-V-W-Shaped Elements

Megi-W bearing Part No. 786 001 Versions: hard, medium, soft

Megi-W bearings have a variety of applications as mounts for sensitive instruments, etc., which require protection against shock. They can be loaded in the compression direction (at right angles to the metal plate) as well as in the shear direction (parallel to metal plates).

Maximum permissible loads:

Under continuous static load, the spring deflection should generally not be greater than 3.5 mm in the compression direction and not more than 5 mm in the shearing direction. The loads corresponding to these deflections are given in the spring curves.





Stock items: Available only in packages of 12 each. All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Supply Programme MEGI® Ceiling Element



MEGI[®] Bushes · MEGI[®] Rings



Applications

Megi bushes are used as flexible joints in motor vehicles and all branches of mechanical engineering. Megi bushes can withstand high radial stress because they are prestressed using a special process. The axially stiff AS bushes are excellent for use with high thrust loads. Megi bushes can be subjected in continuous operation to angular distortion of +15° whereby a return moment proportional to the angle of twist is developed. As flexible joints, Megi bushes are completely maintenance-free. They operate noiselessly, are sound insulating and have a long service life.

Description

Generally, the outer tube of Megi bushes is held in place by a pressed fit or by the use of clamp bearings. The inner tube can be held, for example, by pressure against the end phase. In this case, the bolt passing through the H9 hole in the bush pressed the checked collar (e.g. plates) against the end phase of the inner tube.

Technical Data

Megi bushes cover a range of radial loads up to 15 kN depending on the bush used: Further details are given in the tables.

Delivery

Depending on the item, the Megi buffers are available from stock in standard packages or as catalogue goods producible on short notice.





Supply Programme MEGI® Bushes

Megi HL bushes

Megi HL bushes can be subjected to radial, axial and torsional loads without the rubber being displaced in relation to the metal parts. A small cardanic angular displacement of the axis of the inner tube in relation to that of the outer tube or vice versa, is possible. The bearings are, however, relatively resistant to such angular displacement, whereby the resistance depends on the thickness, hardness and length of the rubber section.

The maximum continuous and peak radial, thrust and torsional loads are given in the table. They apply for highly resilient, particularly durable types of rubbers with a Shore A hardness of approx. 50°.

Types of deformation of Megi HL bushes:



	Dime	nsions						Technica	al data					
				Radia	l load	Axial	load			Torsion				
Outer diameter	Inner diameter	Length of inner tube	Length of outer tube	Max. stat. radial load	Radial spring constant	Max. stat. axial load	axial spring constant	Max. stat. torsional angle	Max. stat. torque	Torsional spring constant	Max. peak torsional angle	Max. peak torque	Part No. 1	Number in backage
D mm	d mm	l mm	L mm	F _r N	C _r N/mm	F _a N	C _a N/mm	φ degree	M _d Nm	Cφ Nm/degree	Ψ max degree	Md _{max} Nm		
22 ^{±0,08}	8 ^{H11}	16 ^{±0,2}	10 ^{+0,2}	100	196	140	69	13	0,7	0,054	26	1,4	735 061	_
24+0,08	10 ^{H9}	17 ^{±0,1}	14 ^{+0,5}	200	491	160	103	15	1,3	0,09	30	2,6	735 009 S	2 20
26 ^{+0,08}	12 ^{H9}	24 ^{±0,2}	17,5 ^{+0,2}	690	1962	680	226	13	4,4	0,338	26	9,0	735 035	30
26 ^{+0,08}	12 ^{H9}	36 ^{±0,2}	32+0,2	1370	3924	840	422	13	8,0	0,61	26	15,0	735 091	50
30 ^{±0,08}	13 ^{H9}	40 ^{-0,4}	40 ^{-0,4}	1670	3335	_	392	15	9,0	0,6	30	18,0	735 059	_
30 ^{±0,08}	14 ^{±0,15}	76 ^{±0,1}	67 ^{±0,1}	3920	8829	2310	765	15	19,0	1,24	30	37,0	735 067	-
34 ^{±0,15}	18 ^{H11}	36 ^{+0,2}	32 ^{+0,5}	1570	3237	830	417	14	12,0	0,9	28	25,0	735 043	20
40 ^{±0,2}	26 ^{±0,2}	45 ^{±0,2}	40 ^{-0,2}	4910	14715	2550	1020	7	28,0	3,9	14	55,0	735 081	20
45+0,08	20 ^{H9}	62,5 ^{±0,2}	55 ^{-0,2}	3430	3924	1860	540	15	22,0	1,5	30	44,0	735 022 S	1 20
45 ^{+0,08}	20 ^{H9}	$62,5^{\pm0,2}$	59,5 ^{-0,2}	3920	4905	910	608	15	30,0	2,0	30	60,0	735 022	20
48 ^{-0,1}	27,8 ^{H9}	67 ^{±0,2}	60 ^{±0,2}	8830	14715	3340	961	11	60,0	5,3	22	120,0	735 074	-
48 ^{-0,1}	27,8 ^{H9}	73 ^{±0,2}	60 ^{±0,2}	8830	14715	6300	961	11	60,0	5,3	22	120,0	735 075	_
50 ^{±0,2}	25 ^{H9}	$67,5^{\pm0,2}$	65,5 ^{-0,2}	6380	6082	760	755	15	60,0	3,9	30	120,0	735 040	20
52 ^{±0,25}	25 ^{H9}	$82,5^{\pm0,5}$	77 ^{-0,2}	8830	8829	2310	824	15	70,0	4,6	30	140,0	735 079	_
55 ^{+0,08}	25 ^{H9}	93,5 ^{±0,2}	89,5 ^{-0,2}	9810	8829	1650	824	15	70,0	4,6	30	140,0	735 023	10
55 ^{+0,08}	30 ^{H11}	94 ^{±0,2}	89,5 ^{-0,2}	13730	16677	2600	1177	13	100,0	7,6	26	200,0	735 078	20
68 ^{h11}	25 ^{H9}	75 ^{±0,2}	48 ^{±0,1}	1960	981	4120	314	15	38,0	2,5	30	75,0	735 019	-
70+0,7	50 ^{+0,1}	60 ^{±0,2}	60 ^{±0,2}	11770	19620	-	1511	6,5	140,0	21,1	13	270,0	735 039	10
75 ^{-0,5}	40 +0,2	70 ^{±0,5}	57 ^{-0,5}	5890	4611	4510	697	14	130,0	9,1	28	260,0	735 038	10
80 ^{+0,3}	35 ^{H9}	60 ^{-0,2}	50 ^{-0,2}	3430	2453	2500	500	15	93,0	6,2	30	190,0	735 087	_
80 ^{±0,35}	50 ^{H11}	37 ^{±0,2}	32 ^{-0,2}	1960	1962	1230	491	11	120,0	10,7	22	240,0	735 084	-
80 ^{±0,35}	50 ^{H11}	100 ^{±0,2}	95 ^{-0,2}	14720	14715	3430	1373	11	260,0	23,2	22	510,0	735 083	10
85 ^{+0,5}	36 ^{H9}	$102^{\pm 0,5}$	85 ^{±0,1}	6870	2943	4910	598	15	120,0	7,8	30	240,0	735 077	_

Stock items: Available only in standard packages. All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

Supply Programme MEGI® Bushes

Megi AS bushes

Megi AS bushes are produced using the same production methods as Megi HL bushes and therefore have the same superior quality of long life and load capacity. In addition, because of the special design of the outer metal collar, they are able to absorb higher thrust forces without overstressing the rubber. Because of this property, they are especially suitable for use where high axial forces occur in joints, e.g. in triangular steering linkages (see illustration). No generally valid statements can be made regarding the spring constants for axial loads, because these depend on assembly conditions, especially the magnitude of the initial axial tension.

The maximum continuous and peak loads are given in the table. They apply for highly resilient, particularly durable types of rubbers with a Shore A hardness of approx. 50°.



		Dimer	nsions					Te	echnical	data				
						Radia	al load			Axial load]	Nhumahaau
Outer diameter	Inner diameter	Flange diameter	Length of inner tube	Length of flanged outer tube	Total length of bush	Max. stat radial load	. Radial spring constant	Max. stat. torsional angle	Max. stat. torque	Torsional spring constant	Max. peak torsional angle	Max. peak torque	Part No.	in package
D mm	d mm	D ₁ mm	l mm	L mm	L ₁ mm	F _r N	C _r N/mm	φ degree	M _d Nm	Cφ Nm/degree	φ max degree	Md _{max} Nm		
30+0,2	14 ^{+0,1}	41	34 ^{±0,25}	20 ^{+0,2}	36	690	1373	13	7,5	0,6	26	15,0	735 048	-
34 ^{+0,2}	19,5 ^{+0,1}	46	40 ^{±0,25}	28+0,2	48	2060	5886	9	15,0	1,62	18	30,0	735 047	-
40 ^{+0,1}	24 ^{+0,1}	58	42 ^{±0,1}	30 ^{-0,5}	45,5	3430	9810	7	24,0	3,4	14	48,0	735 049	20
42 ^{+0,08}	19,5 ^{+0,1}	55	45 ^{±0,25}	33 ^{+0,2}	49,5	1470	1570	15	19,0	1,3	30	39,0	735 064	20





Megi ring Part No. 785 000 Megi rings can be subjected o radial, thrust and torsional oads. When installed, the butside diameter must be precompressed by 1 mm. Rubber hardnesses: hard approx. 70 Shore A medium approx. 60 Shore A soft approx. 45 Shore A					16	- 70
			Assembly	064-0.2		
Technical data			hard	medium	soft	
Permissible stat. radial load	F _r zul.	[N]	2200	1250	600	
Radial spring rate	Cr	[N/mm]	980	545	260	
Permissible stat. axial load	F _a zul.	[N]	1550	900	500	
Axial spring rate	ca	[N/mm]	260	150	80	
Permissible stat. torque	Mzul.	[Nm]	28,4	20,6	13,7	
Torsional spring rate	cφ	[Nm/Grad]	1,7	1,22	0,82	
Perm. peak torque	M _{max}	[Nm]	57	41	28	

Stock items: Available only in packages of 10 each. All items not marked in blue are listed in the catalogue and can be produced on request. Supply quantities on request.

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Vibration Control

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