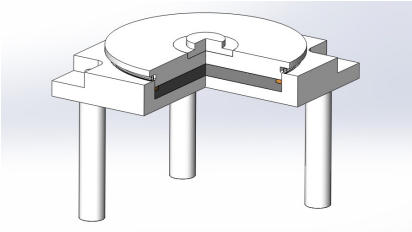
SOMMA

POT BEARINGS
ERGOFLON DISC TYPE

POT BEARINGS

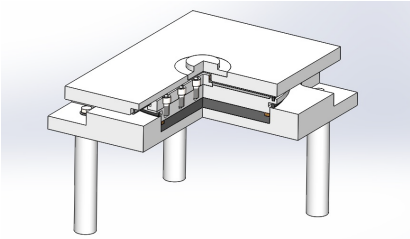
"ERGOFLON DISC" type devices are spherical hinged confined **elastomeric pad structural bearings**, which allow rotations up to +/- 0.02 rad around any horizontal axis, through the deformation of the fixed elastomeric disc into a steel base.
The bearings are designed to be used as hinges (fixed type) or one-way (unidirectional type) or two-way (multidirectional type). The connection to the structure can be made, depending on the nature and extent of the actions, with mechanical anchorage or by gluing with resin.

EDF FISSO



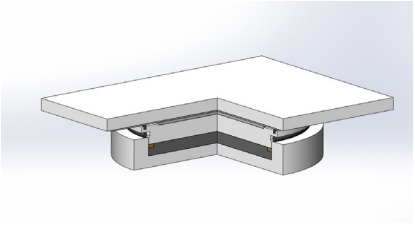
VERTICAL LOAD ✓
HORIZONTAL LOAD ✓
ROTATION ✓
MOVEMENT x

EDL EDT UNIDIREZIONAL



VERTICAL LOAD ✓
HORIZONTAL LOAD ✓
ROTATION ✓
MOVEMENT ✓ one direction

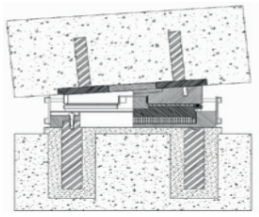
EDM MULTI

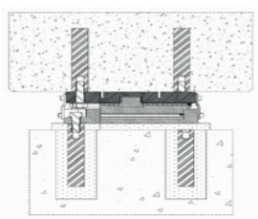


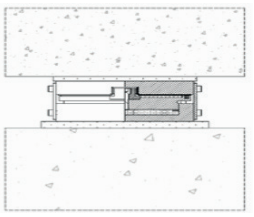
VERTICAL LOAD ✓
HORIZONTAL LOADx
ROTATION ✓
MOVEMENT ✓ Multidirectional

CE

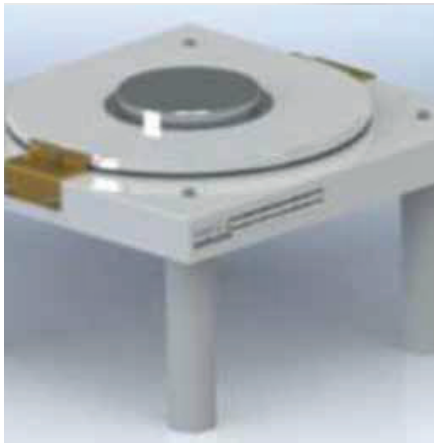
The devices ERGOFLON DISC
are CE marked according to EN 1337
and compliant with the standard AASHTO LRFD







All connections and interfaces with the structure can be designed and adapted according to the necessity of the customer

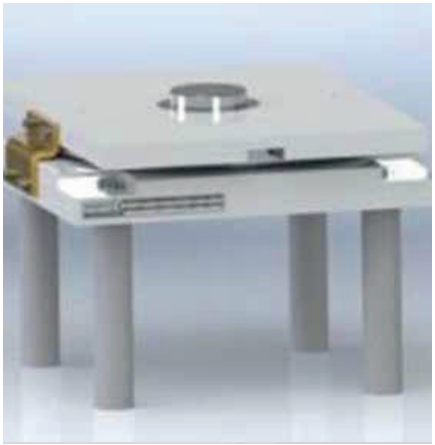


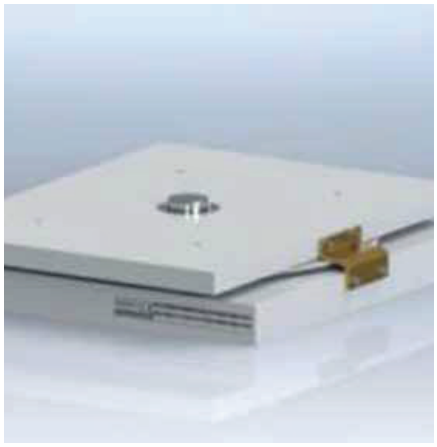
The elastomeric bearing of the **FIXED type (EDF) ERGOFLON DISC** consists of:

- Base element called 'baseplate', hollowed out of the machine to house the elastomeric disc.
- Elastomeric disc (with seal) confined inside the baseplate and compressed by the piston. It behaves hydrostatically and allows rotations.
- Upper 'piston' element, fitted with a toothed stop on the surface of the baseplate.

The **UNIDIRECTIONAL (EDL-EDT) ERGOFLON DISC** bearing device consists of:

- Base element called 'baseplate', hollowed out of the machine to hold the elastomeric disc.
- Elastomeric disc (with seal) confined inside the baseplate and compressed by the piston. This behaves hydrostatically and allows rotation.
- Pressure 'piston' intermediate element, equipped with PTFE sliding shoe and unidirectional guide.
- Sliding' upper element coated with a stainless-steel surface and equipped with a slot for the directional guide





The **ERGOFLON MULTIDIRECTIONAL type (EDM)** bearing device consist of:

- Base element called 'baseplate' machined to hold the elastomeric disc.
- Elastomeric disc (with seal) enclosed inside the baseplate and compressed by the piston. This behaves hydrostatically and allows rotation.
- Pressure 'piston' intermediate section, equipped with PTFE sliding shoe.
- 'Sliding' upper section coated with a stainless-steel surface.

THE STRONG POINTS OF THE ERGOFLON DISC

- Excellent quality/price ratio
- Great durability of the device
- Protection of structural components
- Ease of installation
- Ease of replacement
- High load capacity
- High resistance to extreme temperatures

SPECIAL BEARINGS DEVICES

If necessary, ERGOFLON bearings can be integrated with other devices that can give the bearing levels of performance that the standard configuration does not allow.

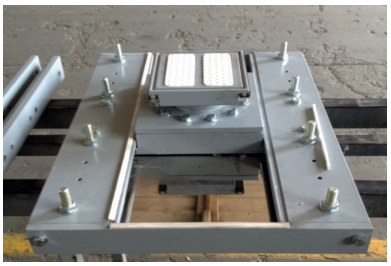
Some of the most frequent situations are:

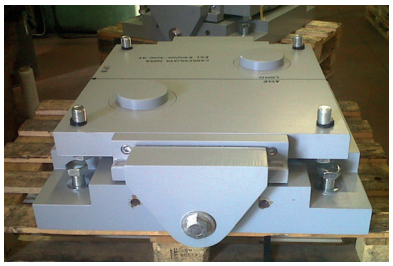
• Need to react to a negative (traction) load: since the bearing device is made with a simple overlapping of components, it is essential to add 'anti-lifting' elements that transfer the traction force allowing the bearing to rotate and/or move.

• Horizontal activation only required in dynamic conditions: this can be obtained with the combination of a unidirectional or multidirectional bearing device and a dynamic coupling device (STU shock transmitter unit), in such a way that the bearing maintains its sliding capacity for slow actions (e.g. thermal expansion, viscosity, shrinkage) but becomes cooperating, and therefore reacts to dynamic horizontal actions (earthquake).

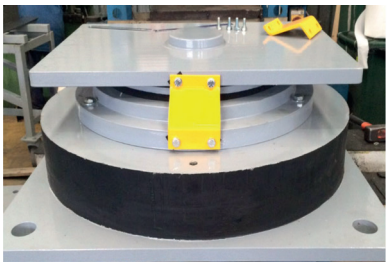
• Elastic response requirement: it is possible to confer deformable elastic response behaviour to steel bearings by interposing elastomer elements between the upper and base elements.

NEGATIVE LOAD SPECIAL BEARINGS





SPECIAL BEARINGS WITH ELASTIC RESPONSE

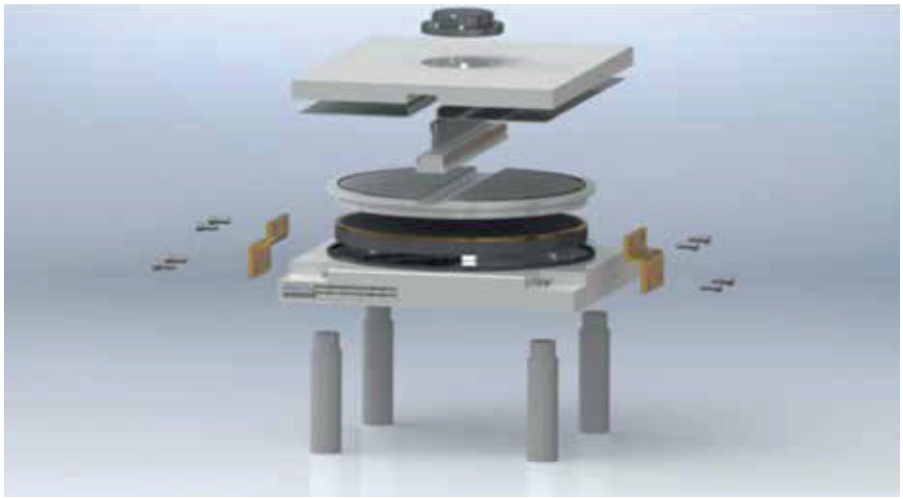


SPECIAL BEARINGS WITH STU

ELEMENTS AND MATERIALS OF THE BEARING

ELEMENT	MATERIAL	STANDARD
ELASTOMERIC PAD	NATURAL RUBBER 50 SHORE	EN 1337 / ASTM
POT	S355J2 /S355J0W	EN 10025-2 /EN 10025-5
PISTON	S355J2 /S355J0W	EN 10025-2 /EN 10025-5
SLIDING SURFACE	X5CRNIMO 17-12 / 304/316	EN 10088 / AIS
HORIZONTAL SLIDING SURFACE	PTFE	EN 1337 / ASTM
VERTICAL SLIDING SURFACE	CM1	EN 1337
SLIDING PLATE	S355J2 /S355J0W	EN 10025-2 /EN 10025-5
DIRECTIONAL GUIDE	S355J2 /S355J0W	EN 10025-2 /EN 10025-5
ANCHORS	C45 BON / 39NICRMO3	EN 10083

Bearings are designed and produced according to EN 1337 or AASTHO LRFD.



IDENTIFICATION LABEL

The external steel plates are provided of anti-corrosion treatment applied on the surface exposed to chemical attack, the standard protection system, category C4 according to ISO 12944 is realized as follows:

- White metal-blasting SA2.5 type;
- 1° coat: epoxy-ammino;
- 2° coat: polyurethane top coat.

A minimun 260 µm thickness of the cycle is resulting.

KEY TO LABEL

EDF : Bearing ERGOFLON **FIXED**.

EDU: Bearing ERGOFLON **Unidirectional**. It can be absorb horizontal force only in one direction, longitudinal or transversal direction.

EDM: Bearing ERGOFLON **Multidirectional**.

EDF 1000-200: Bearing ERGOFLON fixed with 1000 kN of vertical load – 200 kN of horizontal force.

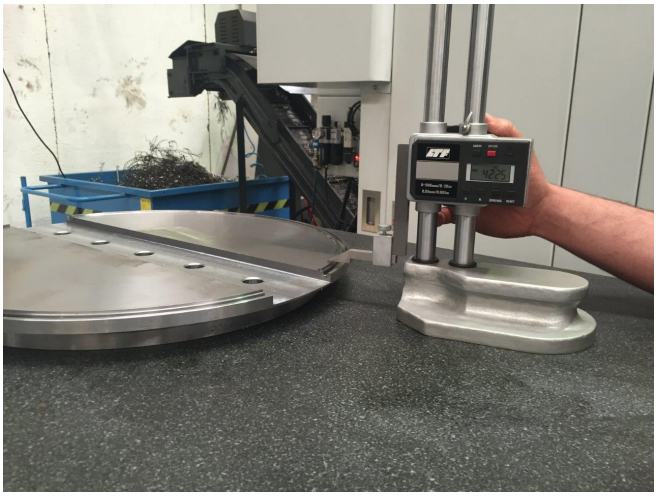
Or **EDF 1000-200-150** : Bearing ERGOFLON fixed with 1000 kN of vertical load – 200 kN of horizontal longitudinal force – 150 kN transversal force.

EDL 7000/300-1000: Bearing ERGOFLON Uni-Longitudinal with 7000 kN of vertical load with longitudinal movement ±150mm and horizontal transversal force1000 kN.

EDT 7000-1000/80: Bearing ERGOFLON Uni-Transversal with 7000 kN of vertical load with transversal movement ±40 mm with horizontal longitudinal force 1000 kN.

EDM 3000/300/100: Bearing ERGOFLON Multidirectional with 3000kN of vertical load with longitudinal movement ±150 mm and transversal movement ±50 mm.

PRODUCTION



CORROSION PROTECTION

The components exposed to atmospheric agents are protected with C4 H anticorrosive treatment compliant with ISO 12944-5, carried out after sandblasting with Sa 2.5 white metal, with bicomponent epoxy coating with high thickness, in RAL 7001 grey.
- External surfaces, minimum thickness of dry film: 220 µm
- Internal surfaces, minimum thickness of dry film: 60 µm
- Total thickness of the cycle ≥280 µm

On request, depending on the atmospheric agents to which the device is subjected, different protective treatments (C5M, C5I) can be applied

ANCHORING SYSTEMS

Various types of systems of anchorage to the structure can be designed and provided:
Friction: through the loads transferred by contact between the supporting device and the structure.
Clamps: system used to connect the device to the structure, above and below, in the event of significant vertical and horizontal loads.
Counterplates: if necessary, SOMMA designs and supplies steel counterplates, which are generally supplied directly to the prefabricator (in the case of CAP beams) or to the manufacturer of the metal deck in the case of a steel bridge, so that they are either incorporated into the concrete or welded to the metal deck.
Bolts: this system is generally used in the case of metal structures to resist tensile forces and horizontal loads.
Welding: welding the bearing unit to the superstructure (when it is made of steel) or to a counterplate (when it is made of CAP).

FRICTION ANCHORAGE SYSTEM

COUNTERPLATES ANCHORAGE SYSTEM

HANDLING

The packaging of the bearing devices must be such that no damage occurs during transport.
The devices must be handled with care and only by qualified staff.
The bearings must be protected against damage and contamination.
If the devices are not suitable for manual lifting, appropriate sections need to be provided so that they can be lifted mechanically.
Cranes and hoists must be used to unload the bearings from the vehicle, lifting them by means of special hooks (eyebolts).

STORAGE

If the bearings are not installed immediately after delivery, they must be suitably stored on a special support that allows ventilation from below and covered with a protective sheet.
Temporary storage must ensure that the bearings are protected from damage caused by exposure to the weather (solar radiation, rain, snow or hail) and from contamination or other negative effects due to work and traffic on the site.

INSPECTION AND MAINTENANCE

The bearing devices must be inspected at regular intervals.
Generally, a first inspection is recommended within one year of installation. Thereafter, an inspection every five years is sufficient.
The actions to be carried out during the periodic inspection visits are:
- Check sufficient residual movement capacity with respect to the type of bearing, keeping in mind the temperature of the structure;
- check that there are no visible defects such as cracks, incorrect positioning or unexpected movements and deformations;
- check the condition of sealing and fastening
- check the condition of the corrosion protection, dust cover and gaskets;
- check the condition of the sliding and rotating surfaces;
- check for visible defects in the adjacent structural parts.

The measurements obtained must be compared with the design values in order to be able to check the behaviour of the bearing.

Following exceptional events such as earthquakes, fires, accidents, an extraordinary inspection is recommended to verify what damage the device may have suffered as a result of the exceptional event.
It is essential that, in order for the right corrective measures to be carried out, all the information gathered is passed on to the technical office.

INSTALLATION

During the installation of the bearings it is important to follow the instructions provided in the installation instructions supplied
by **SOMMA**.
The actions to be carried out, regardless of the structure on which the bearing is to be installed, are to:

- check the position of the bearinf and its correct orientarion;
- check the Contraint Scheme;
- check on the identification plates that the design complies with the requirements for type and model, vertical and horizontal load, range of movement, permitted movements and direction (except for fixed bearing devices);
- on site check of the correctness and consistency of the support, the presence of the housings on the support and the horizontal positioning and finish of the support;

For a correct installation of the bearing device, it is of crucial importance to position the bearing device on a level surface.
The installation methods vary according to the characteristics of the superstructure.
There are different ways of anchoring to the structure when the beams are made of concrete or steel.
In addition to providing technical assistance if needed, **SOMMA** provides the necessary assembly instructions.

BEARING INSTALLATION

REPLACEMENT

A lifting operation is required to replace the bearing devices.
The type of lifting varies according to the design and characteristics of the work.
Thanks to its affiliate TLS, which has equipment and staff who are experts in the maintenance of viaducts, SOMMA can plan and execute lifting work on decks and the replacement of bearings.
The operations, in short and very approximately, can be summarised as:
Jack positioning, lifting, replacement of damaged bearings, support cleaning in order to ensure the horizontal nature of the new bearing, insertion of new bearing, and lowering of deck.

REPLACEMENT OF DAMAGED BEARING

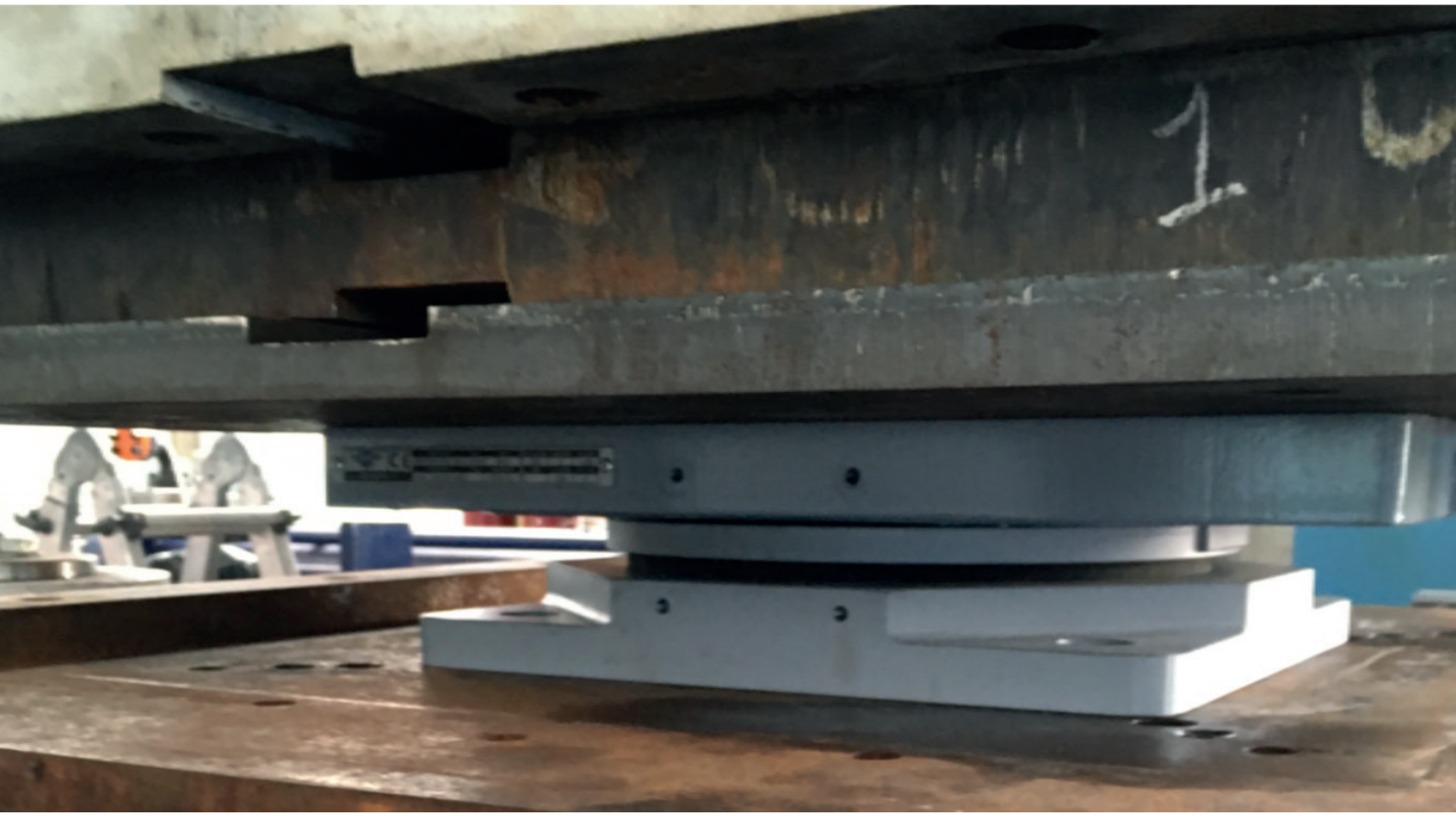
INSTALLATION OF A NEW BEARING

QUALITY

SOMMA is CE certified according to EN1337 for the design and production of bearing devices and operates a quality system according to ISO 9001:2015.
The entire design and production process is carried out according to the requirements of EN 1337.
Independent third parties carry out regular inspections to verify compliance with the regulations.
For production according to 1337, together with the devices SOMMA supplies the declaration of constancy of performance in accordance with CPR 305/2011.
Outside the European Community, **SOMMA** also provides support and a declaration of compliance with the required standards.

QUALIFICATION AND PRODUCTION CONTROL TESTS

Some regulatory standards require empirical verification of the design performance of manufactured devices.
SOMMA is able to carry out static tests for medium sized bearings at its SMLAB laboratory, equipped with a press for tests on bearings and a press for load and fatigue tests for expansion joints, while for more demanding tests it relies on third party laboratories.



BEARINGS ERGOFLON DISC FIXED

EDF _H10%

				Anchor			Piston	Pin			
CODE	**V** [kN]	**H** [kN]	**LxL** [mm]	**N.**	**Dz** [mm]	**Iz** [mm]	**D'** [mm]	**Dp** [mm]	**sp** [mm]	**Htot** [mm]	**W** [kg]
EDF 500-50	500	50	190	4	30	130	180	60	17	63	19
EDF 1000-100	1000	100	240	4	30	170	240	60	17	63	28
EDF 1500-150	1500	150	275	4	30	205	275	60	17	65	34
EDF 2000-200	2000	150	320	4	30	250	310	60	17	74	50
EDF 2500-250	2500	250	330	4	30	260	330	60	17	75	54
EDF 3000-300	3000	300	380	4	30	310	360	60	17	79	72
EDF 3500-350	3500	350	410	4	30	340	390	80	17	81	84
EDF 4000-400	4000	400	450	4	30	380	420	80	17	87	106
EDF 4500-450	4500	450	460	4	30	390	430	80	17	87	111
EDF 5000-500	5000	500	500	4	30	430	460	80	17	91	136
EDF 6000-600	6000	600	550	4	60	410	500	80	17	94	187
EDF 7000-700	7000	700	600	4	60	460	540	120	17	98	227
EDF 8000-800	8000	800	640	4	60	500	580	120	17	103	265
EDF 9000-900	9000	900	670	4	60	530	600	120	17	105	289
EDF 10000-1000	10000	1000	700	4	60	560	630	120	20	110	332
EDF 12000-1200	12000	1200	770	4	60	630	680	160	20	120	434
EDF 14000-1400	14000	1400	840	4	60	700	740	160	20	122	510
EDF 16000-1600	16000	1600	900	4	60	760	790	160	22	128	605
EDF 18000-1800	18000	1800	960	4	60	820	830	200	22	134	713
EDF 20000-2000	20000	2000	1020	4	60	880	880	200	22	140	833
EDF 25000-2500	25000	2500	1145	4	100	905	1000	250	27	152	1227
EDF 30000-3000	30000	3000	1265	4	100	1025	1100	300	27	162	1559
EDF 40000-4000	40000	4000	1450	4	120	1165	1260	300	32	174	2245

KEY LABEL

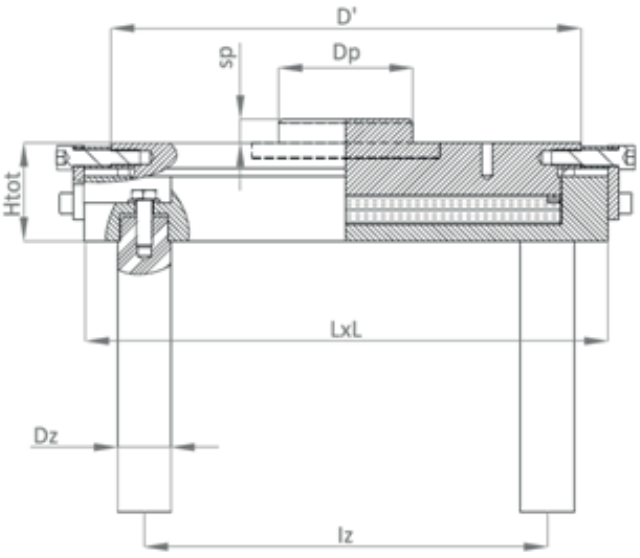
V: Vertical load in USL condition.
H: Horizontal load in USL condition.
LxL: Plane dimension.
N: Number of anchors.
Dz: Diameter of anchors.
Iz: Distance between the anchors.
D': Diameter of the piston.
Dp: Diameter of the pin.
sp: Height of the pin.
Htot: Total height of the bearing.
W: Weight of the bearing.

These dimensions of the bearings are available for a lower surface in concrete C28/35.
Rotation ± 0,01°.

				Anchor			Piston	Pin			
CODE	**V** [kN]	**H** [kN]	**LxL** [mm]	**N.**	**Dz** [mm]	**Iz** [mm]	**D'** [mm]	**Dp** [mm]	**sp** [mm]	**Htot** [mm]	**W** [kg]
EDF 500-150	500	150	190	4	30	130	190	60	17	63	19
EDF1000-300	1000	300	260	4	30	190	250	60	17	65	31
EDF1500-450	1500	450	310	4	30	240	280	80	19	69	44
EDF 2000-600	2000	600	370	4	60	230	310	80	19	80	93
EDF 2500-750	2500	750	390	4	60	250	340	120	19	84	106
EDF 3000-900	3000	900	425	4	60	285	370	120	19	86	121
EDF 3500-1050	3500	1050	465	4	60	325	400	160	22	91	149
EDF 4000-1200	4000	1200	525	4	60	385	460	160	22	92	178
EDF 4500-1350	4500	1350	575	4	60	435	480	160	22	88	201
EDF 5000-1500	5000	1500	610	4	60	470	510	160	22	88	220
EDF 6000-1800	6000	1800	670	4	60	530	550	200	22	93	275
EDF 7000-2100	7000	2100	720	4	60	580	600	200	24	99	331
EDF 8000-2400	8000	2400	770	4	100	530	640	250	27	104	494
EDF 9000-2700	9000	2700	810	4	100	570	660	250	27	106	533
EDF 10000-3000	10000	3000	870	4	100	630	700	250	27	111	619
EDF 12000-3600	12000	3600	950	4	100	710	760	250	32	124	791
EDF 14000-4200	14000	4200	1040	4	100	800	830	250	36	128	939
EDF 16000-4800	16000	4800	1100	4	100	860	860	300	36	130	1052
EDF 18000-5600	18000	5400	1165	4	100	925	925	300	40	140	1243
EDF 20000-6000	20000	6000	1230	4	140	895	970	300	45	146	1636
EDF 25000-6600	25000	6600	1340	4	140	1005	1000	350	45	162	2064
EDF 30000-7200	30000	7200	1450	4	140	1115	1100	350	50	163	2320
EDF 40000-8600	40000	8600	1590	4	160	1210	1280	400	50	179	3165

KEY LABEL

V: Vertical load in USL condition.
H: Horizontal load in USL condition.
LxL: Plane dimension.
N: Number of anchors.
Dz: Diameter of anchors.
Iz: Distance between the anchors.
D': Diameter of the piston.
Dp: Diameter of the pin.
sp: Height of the pin.
Htot: Total height of the bearing.
W: Weight of the bearing.



These dimensions of the bearings are available for a lower surface in concrete C28/35.
Rotation ± 0,01°.

BEARINGS ERGOFLON DISC UNIDIRECTIONAL GUIDED

AVAILABLE FOR BOTH LONGITUDINAL AND TRANSVERSAL GUIDED BEARINGS. EDU _H10%

				Anchor			Sliding plate		Pin			
CODE	**V** [kN]	**H** [kN]	**LxL** [mm]	**N.**	**Dz** [mm]	**Iz** [mm]	**A** [mm]	**B** [mm]	**Dp** [mm]	**sp** [mm]	**Htot** [mm]	**W** [kg]
EDU 500/100-50	500	50	190	4	30	130	200	340	60	17	94	33
EDU 1000/100-100	1000	100	240	4	30	170	245	385	60	17	94	47
EDU 1500/100-150	1500	150	275	\	30	205	280	420	60	17	96	59
EDU 2000/100-200	2000	200	320	4	30	250	310	450	60	17	105	79
EDU 2500/100-250	2500	250	330	4	30	260	335	475	60	17	106	88
EDU 3000/100-300	3000	300	380	4	30	310	365	505	60	17	111	112
EDU 3500/100-350	3500	350	410	4	30	340	390	520	80	17	112	127
EDU 4000/100-400	4000	400	450	4	30	380	420	550	80	17	120	157
EDU 4500/100-450	4500	450	460	4	30	390	430	560	80	17	120	166
EDU 5000/100-500	5000	500	500	4	30	430	460	580	80	17	125	199
EDU 6000/100-600	6000	600	550	4	60	410	500	630	80	17	130	267
EDU 7000/100-700	7000	700	600	4	60	460	540	660	120	17	135	318
EDU 8000/100-800	8000	800	640	4	60	500	580	690	120	17	143	377
EDU 9000/100-900	9000	900	670	4	60	530	600	710	120	17	145	409
EDU 10000/100-1000	10000	1000	700	4	60	560	630	740	120	20	152	471
EDU 12000/100-1200	12000	1200	770	4	60	630	680	790	160	20	165	605
EDU 14000/100-1400	14000	1400	840	4	60	700	740	830	160	20	170	721
EDU 16000/100-1600	16000	1600	900	4	60	760	790	890	160	22	181	873
EDU 18000/100-1800	18000	1800	960	4	60	820	830	925	200	22	188	1010
EDU 20000/100-2000	20000	2000	1020	4	60	880	880	960	200	22	198	1186
EDU 25000/100-2500	25000	2500	1145	4	100	905	1000	1050	250	27	217	1721
EDU 30000/100-3000	30000	3000	1265	4	100	1025	1100	1120	300	27	234	2204
EDU 40000/100-4000	40000	4000	1450	4	120	1165	1260	1260	300	32	256	3186

KEY LABEL

V: Vertical load in USL condition.
H: Horizontal load in USL condition.
LxL: Plane dimension.
N: Number of anchors.
Dz: Diameter of anchors.
Iz: Distance between the anchors.
A: Length of the sliding plate in the orthogonal direction respect the displacement.
B: Length of the sliding plate in the direction of the displacement.
Dp: Diameter of the pin.
sp: Height of the pin.
Htot: Total height of the bearing.
W: Weight of the bearing.

These dimensions of the bearings are available for a lower surface in concrete C28/35.
Displacement ± 50 mm and rotation ± 0,01°.

				Anchor			Sliding plate		Pin			
CODE	**V** [kN]	**H** [kN]	**LxL** [mm]	**N.**	**Dz** [mm]	**Iz** [mm]	**A** [mm]	**B** [mm]	**Dp** [mm]	**sp** [mm]	**Htot** [mm]	**W** [kg]
EDU 500/100-150	500	150	190	4	30	130	220	360	60	17	94	36
EDU 1000/100-300	1000	300	260	4	30	190	270	410	60	17	96	55
EDU 1500/100-450	1500	450	310	4	30	240	315	455	80	19	105	81
EDU 2000/100-600	2000	600	370	4	60	230	350	490	80	19	121	143
EDU 2500/100-750	2500	750	390	4	60	250	385	560	120	19	127	173
EDU 3000/100-900	3000	900	425	4	60	285	410	590	120	19	130	196
EDU 3500/100-1050	3500	1050	465	4	60	325	435	615	160	22	140	241
EDU 4000/100-1200	4000	1200	525	4	60	385	460	650	160	22	142	282
EDU 4500/100-1350	4500	1350	575	4	60	435	480	670	160	22	142	323
EDU 5000/100-1500	5000	1500	610	4	60	470	515	700	160	22	145	364
EDU 6000/100-600	6000	1800	670	4	60	530	555	740	200	22	154	451
EDU 7000/100-2100	7000	2100	720	4	60	580	600	790	200	24	162	542
EDU 8000/100-2100	8000	2400	770	4	100	530	640	830	250	27	176	757
EDU 9000/100-2700	9000	2700	810	4	100	570	660	850	250	27	175	804
EDU 10000/100-3000	10000	3000	870	4	100	630	700	890	250	27	186	949
EDU 12000/100-3600	12000	3600	950	4	100	710	740	930	250	32	211	1214
EDU 14000/100-4200	14000	4200	1040	4	100	800	830	1020	250	36	222	1508
EDU 16000/100-4800	16000	4800	1100	4	100	860	860	1050	300	36	229	1692
EDU 18000/100-5400	18000	5400	1165	4	100	925	925	1115	300	40	246	2030
EDU 20000/100-6000	20000	6000	1230	4	140	895	970	1160	300	45	262	2578
EDU 25000/100-6600	25000	6600	1340	4	140	1005	1015	1190	350	45	289	3161
EDU 30000/100-7200	30000	7200	1450	4	140	1115	1100	1290	350	50	290	3633
EDU 40000/100-8600	40000	8600	1590	4	180	1160	1280	1470	400	50	308	5135

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B: Length of the sliding plate in the direction of the displacement.
Dp: Diameter of the pin.
sp: Height of the pin.
Htot: Total height of the bearing.
W: Weight of the bearing.

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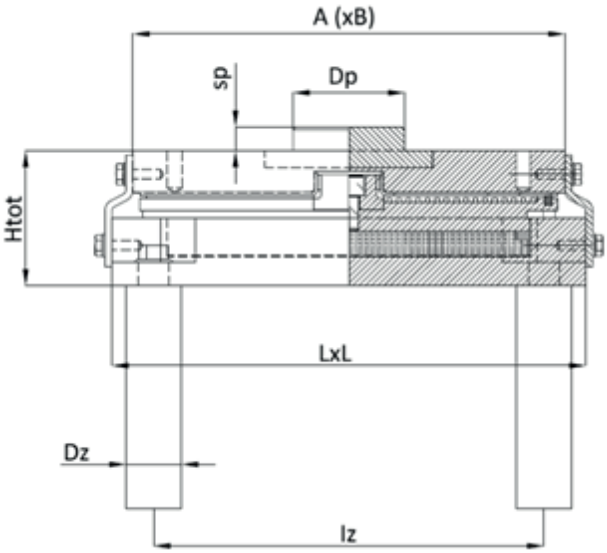
Displacement ± 50 mm and rotation ± 0,01°.



BEARINGS ERGOFLON DISC FREE

EDM

CODE	V [kN]	LxL [mm]	Sliding plate A [mm]	Sliding plate B [mm]	Pin Dp [mm]	Pin sp [mm]	Htot [mm]	W [kg]
EDM 500/100/50	500	180	255	305	59,9	17	79	20
EDM 1000/100/50	1000	210	285	335	59,9	17	80	27
EDM 1500-150/50	1500	245	320	370	59,9	17	82	36
EDM 2000-200/50	2000	285	345	395	59,9	17	88	47
EDM 2500-250/50	2500	315	370	420	59,9	17	96	61
EDM 3000-300/50	3000	345	390	440	59,9	17	102	74
EDM 3500-350/50	3500	375	410	460	59,9	17	104	86
EDM 4000-400/50	4000	400	430	480	59,9	17	109	101
EDM 4500-450/50	4500	440	465	515	59,9	17	113	124
EDM 5000-500/50	5000	445	470	520	59,9	17	114	127
EDM 6000-600/50	6000	500	510	560	59,9	17	122	167
EDM 7000-700/50	7000	535	540	590	59,9	17	127	196
EDM 8000-800/50	8000	580	580	630	59,9	17	132	237
EDM 9000-900/50	9000	625	615	665	59,9	17	138	282
EDM 10000-1000/50	10000	645	635	685	59,9	17	145	315
EDM 12000-1200/50	12000	710	680	730	59,9	17	155	397
EDM 14000-1400/50	14000	785	750	800	59,9	17	164	509
EDM 16000-1600/50	16000	825	780	830	79,9	17	172	588
EDM 18000-1800/50	18000	890	835	885	79,9	17	175	686
EDM 20000-2000/50	20000	935	870	920	79,9	17	183	783
EDM 25000-2500/50	25000	1070	980	1030	79,9	25	200	1098
EDM 30000-3000/50	30000	1195	1100	1150	79,9	25	210	1411
EDM 40000-4000/50	40000	1400	1260	1310	79,9	32	231	2072

KEY LABEL

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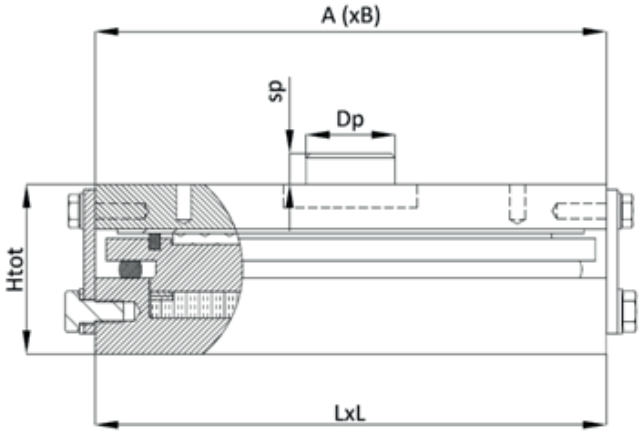
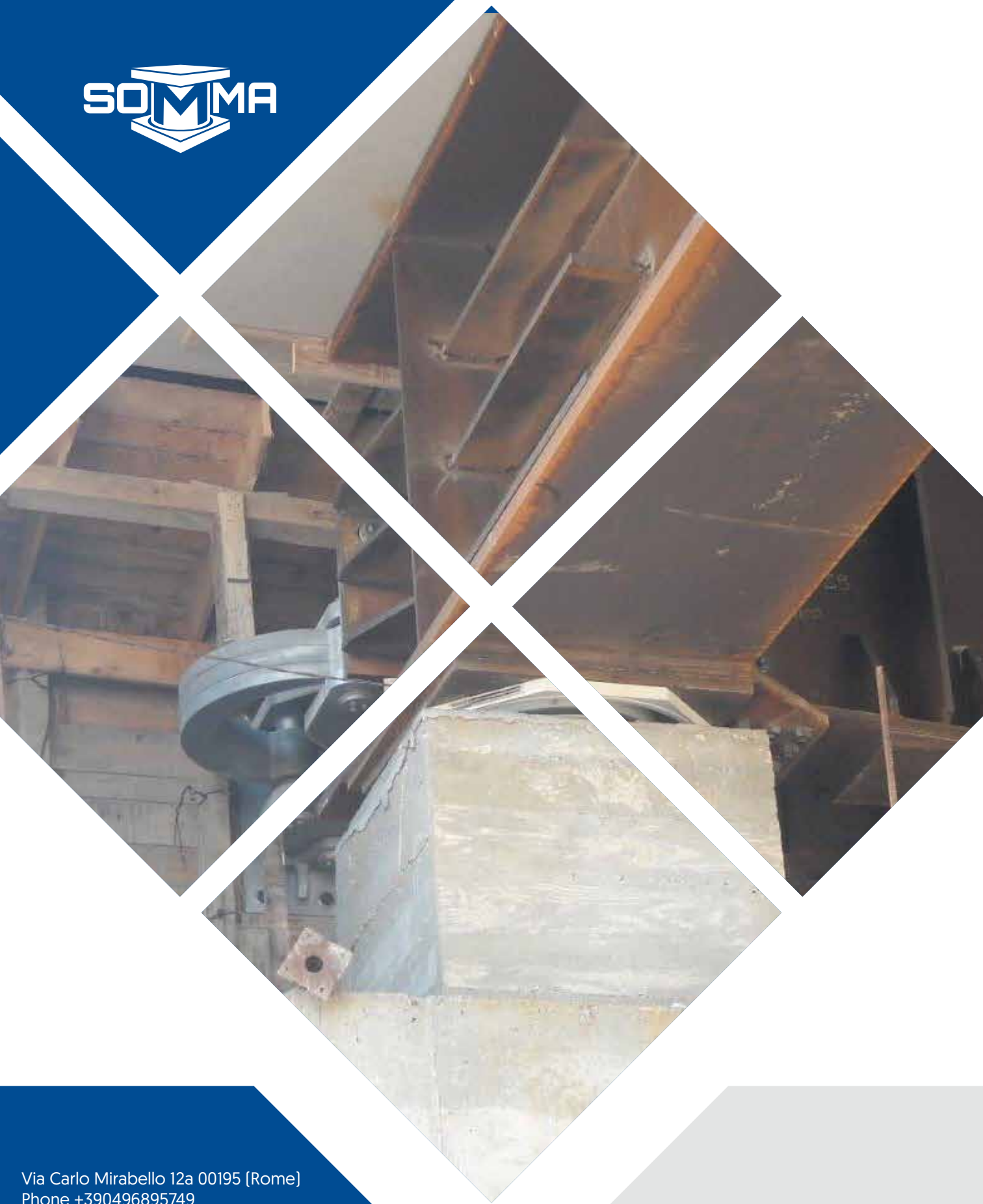
Longitudinal displacement ± 50 mm, transversal displacement ± 25 mm and rotation ± 0,01°.





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