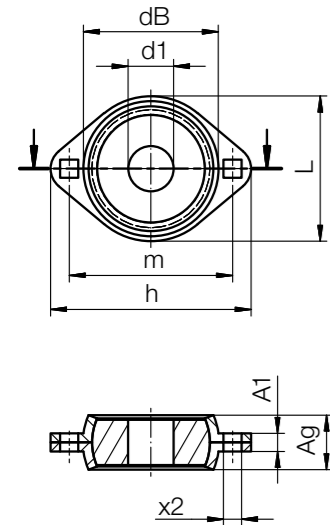


Fixed flange bearings with cost-effective metallic housing: PFL-JEM-SP



- Cost-effective spherical ball material iglidur® J4 available (order example: PFL204-J4EM-20-14-SP)
- Lubrication and maintenance-free
- Cost-effective
- Resistant to dirt



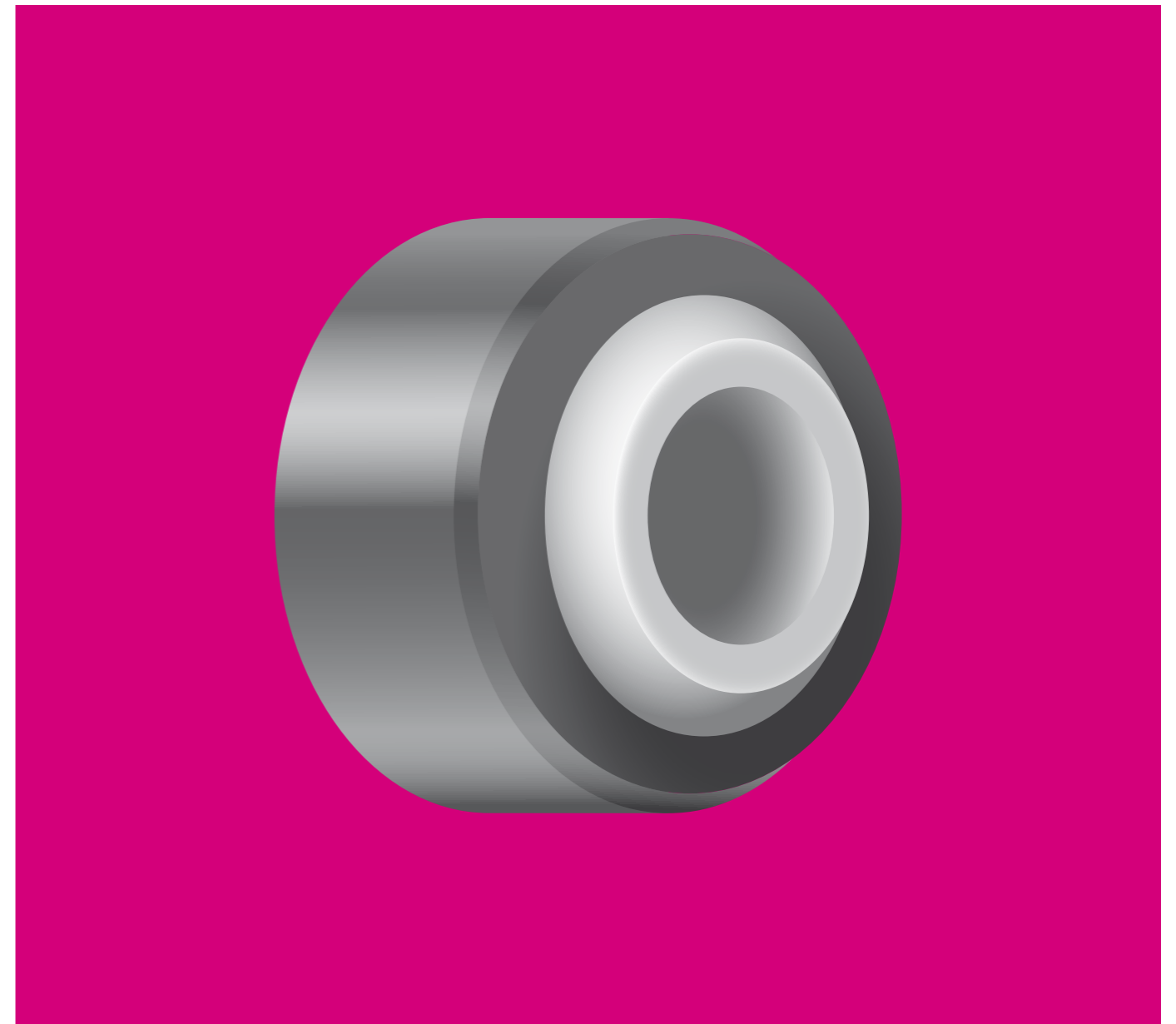
Order key

Type	Size [mm]	Version
------	-----------	---------

PFL204- J E M- 20 - 14 - SP

Fixed flange bearing	Spherical ball material	Series	Metric	Spherical ball inner Ø	Spherical ball width	Injection moulding
----------------------	-------------------------	--------	--------	------------------------	----------------------	--------------------

- i** **Material:**
Housing: Galvanised steel
 (stainless steel upon request)
Spherical ball: iglidur® J
 (alternative iglidur® J4)



igubal® spherical bearings

Easy to fit

Cost-effective

Resistance to chemicals

Lightweight

Robust



Technical data

Part No.	Max. permissible axial load		Max. permissible radial load		Weight [g]
	Short-term	Long-term	Short-term	Long-term	
	[N]	[N]	[N]	[N]	
PFL204-JEM-20-14-SP New	2,000	1,000	4,000	2,000	121.0
PFL205-JEM-25-15-SP New	2,000	1,000	5,000	2,500	144.0
PFL206-JEM-30-16-SP New	2,000	1,000	7,000	3,500	216.0

Dimensions [mm]

Part No.	d1	h	L	m	a1	Ag	x2
	E10				+0.1		
PFL204-JEM-20-14-SP New	20	90	67	71.5	M6	16	9
PFL205-JEM-25-15-SP New	25	95	71	76.0	M8	18	9
PFL206-JEM-30-16-SP New	30	113	82	90.5	M8	19	11

Can be combined with SRM fixing collars, page 858

The use of spherical bearings is usually associated with heavy materials, difficult installation, and high costs. Most of the time, maintenance is still necessary long-term, and the bearings are only corrosion-resistant in special designs. igubal® spherical bearings put an end to all of these disadvantages: they are easy to fit, cost-effective, lightweight and robust.



When to use it?

- For high axial and radial loads
- When an easy installation is required
- In case of reduced installation space
- If chemical resistance is required
- If a cost-effective option is requested
- If you need dirt-resistant bearings
- To adjust misalignment



When not to use it?

- When temperatures are higher than +80°C
- For dimensions above 30mm
- When rotation speeds higher than 0.5m/s are required



Available from stock

Detailed information about delivery time online.



Price breaks online

No minimum order value. No minimum order quantity



Max. +80°C
Min. -30°C



13 types
Ø 2–40mm



Imperial dimensions available
► From page 1610



Online product finder
► www.igus.eu/igubal-finder

Typical sectors of industry and application areas

- Food industry ● Railway technology
- Automotive ● Plant design etc.



Improve technology and reduce costs –
110 exciting examples online
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► www.igus.eu/traffic



► www.igus.eu/automotive



► www.igus.eu/hose-skiing

The use of spherical bearings is usually associated with heavy materials, difficult installation, and high costs. Most of the time, maintenance is still necessary long-term, and the bearings are only corrosion-resistant in special designs. Often roller bearings or plain bearings malfunction prematurely due to high edge loads, or because they need to be readjusted, reamed, or refitted in order to compensate for alignment errors.

igubal® spherical bearings put an end to all of these disadvantages and open up many new possibilities for your engineering design:

- Easy to fit
- Extremely cost-effective
- Lightweight
- Robust

Application areas

Ease of installation makes many applications possible for igubal® spherical bearings. They can be used anywhere. The self-aligning feature offers design advantages and helps to simplify assembly.

Tolerances

Maintenance-free igubal® spherical bearings are designed with an inner diameter tolerance of E10. The shaft tolerance should be included between h6 and h9. These recommended tolerances allow for changes in the bearing due to temperature.

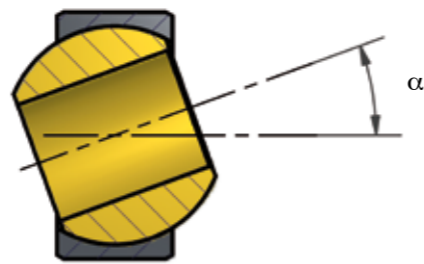
Assembly

igubal® spherical bearings are press-fitted into a recommended H7 housing bore and axially secured. An exact orientation of the bearing housing is not necessary, since the spherical bearing compensates for alignment errors.

Dimensions

igubal® spherical bearings are manufactured according to DIN ISO 12240 for dimensional K and E series. The product range provides standard dimensions from 2 to 40mm. The dimensional K series is available in imperial dimensions. Please contact us if you need other dimensions.

Pivot angle



igubal® spherical bearings



Easy to fit, cost-effective, selectable spherical ball material

K series
▶ Page 823



Standard, easy to fit

K series
▶ Page 822



For extremely narrow installation space

K series
▶ Page 824



Standard, easy to fit, imperial dimensions

K series
▶ Page 1610

igubal® self-aligning clip bearings



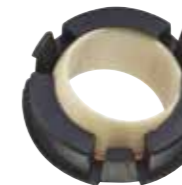
Space-saving

E series
▶ Page 825



Cost-effective, selectable spherical ball material

Dimensional E series
▶ Page 826



Simply snap into sheet metal

Dimensional E series
▶ Page 827



For high axial and radial loads, selectable spherical ball material

Dimensional E series
▶ Page 828

igubal® self-aligning clip bearings



For tolerance compensation, selectable spherical ball material

Dimensional E series
▶ Page 829



Clip into sheet metal, can be assembled on both sides

▶ Page 830

igubal® double joints and coupling joints



Robust plastic, selectable spherical ball material

Dimensional E series
▶ Page 831



Selectable materials, individual dimensions and alignment

▶ Page 833

igubal® double joints and coupling joints



Removable, selectable materials, individual dimensions and alignment

▶ Page 834



Selectable materials, individual dimensions and alignment

▶ Page 832

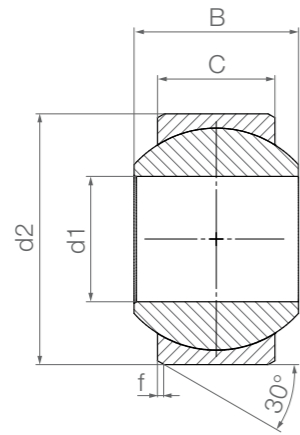


Crimped coupling joints with clevis joints

▶ Page 835

New

Spherical bearings: KGLM



Order key

Type	Size [mm]
------	-----------

K GL M-02

K series	Spherical bearing	Metric	Inner Ø
-----------------	-------------------	--------	---------

Material:
Housing: **igumid G** ▶ Page 1654
Spherical ball: **iglidur® W300** ▶ Page 171

Imperial dimensions available
▶ Page 1610

Service life calculation online
▶ www.igus.eu/igubal-expert

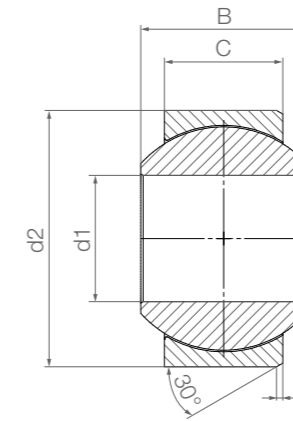
- Compensation of misalignment and edge loads
- Corrosion-free
- Vibration-dampening
- Excellent vibration dampening
- Suitable for rotating, oscillating and axial movements

Technical data and dimensions [mm]

Part No.	Max. static load on the housing		Max. tightening torque through ball [Nm]	d1 E10	d2	B	C	f	Weight [g]	Max. pivot angle
	radial [N]	axial ²⁹⁾ [N]								
KGLM-02	300	60	1	2	8	4	3.0	0.8	0.1	32°
KGLM-03	550	200	2	3	10	6	4.5	0.8	0.5	32°
KGLM-05	1,300	500	5	5	13	8	6.0	0.8	1.0	30°
KGLM-06	1,800	650	10	6	16	9	6.5	0.8	1.6	29°
KGLM-08	2,700	1,200	12	8	19	12	9.0	0.8	2.9	25°
KGLM-10	4,000	1,400	20	10	22	14	10.5	0.8	4.4	25°
KGLM-12	5,400	1,500	30	12	26	16	12.0	0.8	7.0	25°
KGLM-14	6,000	2,500	35	14	28	19	13.5	0.8	9.1	23°
KGLM-16	8,000	3,000	40	16	32	21	15.0	0.8	12.8	23°
KGLM-18	9,000	4,000	45	18	35	23	16.5	0.8	16.6	23°
KGLM-20	10,000	5,000	55	20	40	25	18.0	0.8	24.4	23°
KGLM-22	11,700	6,500	60	22	42	28	20.0	0.8	28.5	22°
KGLM-25	13,600	7,500	65	25	47	31	22.0	0.8	39.3	22°
KGLM-30	20,000	9,000	70	30	55	37	25.0	1.0	62.6	22°

²⁹⁾ The maximum static axial load is determined when fitted into a blind housing

Spherical bearings: KGLM low-cost



Order key

Type	Size [mm]	Version
------	-----------	---------

K GL M- 05 - LC

K series	Spherical bearing	Metric	Inner Ø	Low-cost
-----------------	-------------------	--------	---------	----------

Material:
Housing: **igumid G** ▶ Page 1654
Spherical ball: **iglidur® W300** ▶ Page 171
Other spherical ball materials upon request
▶ Page 841

- Variety of ball materials
- Easy to fit
- Cost-effective
- Split housing

Technical data

Part No.	Max. static load on the housing		Max. tightening torque through ball [Nm]	Weight [g]
	radial [N]	axial ²⁹⁾ [N]		
KGLM-05 LC	1,300	500	5	1.0
KGLM-08 LC	2,700	1,200	12	2.9
KGLM-10 LC	4,000	1,400	20	4.3
KGLM-12 LC	5,400	1,500	30	6.9
KGLM-14 LC	6,000	2,500	35	9.0
KGLM-16 LC	8,000	3,000	40	12.7
KGLM-18 LC	9,000	4,000	45	16.6
KGLM-20 LC	10,000	5,000	55	23.6
KGLM-25 LC	13,600	7,500	65	38.9
KGLM-30 LC	20,000	9,000	70	61.0

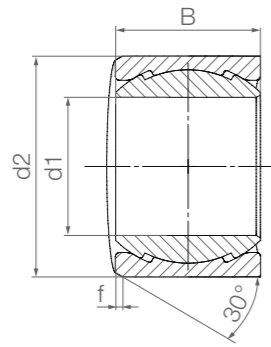
²⁹⁾ The maximum static axial load is determined when fitted into a blind housing

Dimensions [mm]

Part No.	d1 E10	d2 ³⁰⁾	B	C	f	Max. pivot angle
KGLM-05 LC	5	13	8	6.0	0.8	30°
KGLM-08 LC	8	19	12	9.0	0.8	29°
KGLM-10 LC	10	22	14	10.5	0.8	25°
KGLM-12 LC	12	26	16	12.0	0.8	25°
KGLM-14 LC	14	28	19	13.5	0.8	23°
KGLM-16 LC	16	32	21	15.0	0.8	23°
KGLM-18 LC	18	35	23	16.5	0.8	23°
KGLM-20 LC	20	40	25	18.0	0.8	23°
KGLM-25 LC	25	47	31	22.0	0.8	22°
KGLM-30 LC	30	55	37	25.0	1.0	22°

³⁰⁾ In press-fitted condition

Spherical bearings: KGLM Slim Line



Order key

Type	Size [mm]	Version
K GL M - 08 SL		
K series	Spherical bearing	Metric
	Inner Ø	Slim Line

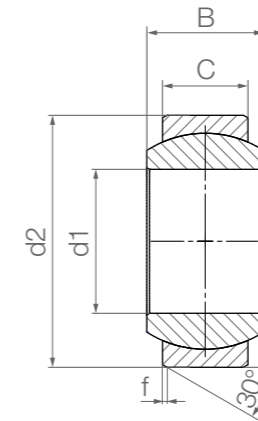
- Material:**
Housing: **igumid G** ▶ Page 1654
Spherical ball: **iglidur® W300** ▶ Page 171
- Service life calculation online**
▶ www.igus.eu/igubal-expert

- Very small installation space
- Wall thickness 50% thinner than KGLM
- Angular compensation up to 5°
- Lightweight
- Dimensions according to DIN 1850

Technical data and dimensions [mm]

Part No.	Max. static load (short-term)		Max. static load (long-term)		d1 E10	d2	B	f	Weight [g]	Max. pivot angle
	radial [N]	axial [N]	radial [N]	axial [N]						
KGLM-08 SL	2,700	450	1,350	225	8	14	9.0	0.5	1.1	5°
KGLM-10 SL	4,000	750	2,000	375	10	16	10.5	0.5	1.5	5°
KGLM-12 SL	4,500	750	2,250	375	12	18	12.0	0.5	2.0	5°
KGLM-16 SL	6,500	500	3,250	250	16	22	15.0	0.5	3.1	5°

Spherical bearings: EGLM



Order key

Type	Size [mm]
E GL M -04	
Dimensional E series	Spherical bearing
	Metric
	Inner Ø

- Material:**
Housing: **igumid G** ▶ Page 1654
Spherical ball:
Spherical balls with 04–30mm diameters made of **iglidur® W300** ▶ Page 171
Spherical balls with 40mm and 80mm diameter made of **iglidur® J** ▶ Page 159
Other spherical ball materials upon request (Ø 04–12mm and 40mm)

- Compensation of misalignment and edge loads
- Corrosion-free
- Vibration-dampening
- Excellent vibration dampening
- Suitable for rotating, oscillating and linear movements

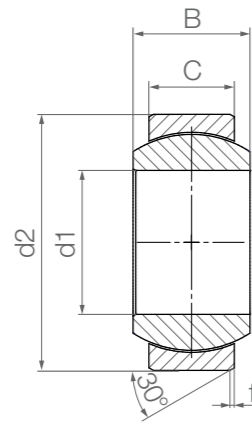
- Service life calculation online**
▶ www.igus.eu/igubal-expert

Technical data and dimensions [mm]

Part No.	Max. static load on the housing		Max. tightening torque through ball [Nm]	d1 E10	d2	B	C	f	Weight [g]	Max. pivot angle
	radial [N]	axial ²⁹⁾ [N]								
EGLM-04	600	50	1.0	4	12	5	3.0	0.5	0.4	37°
EGLM-05	1,000	130	2.0	5	14	6	4.0	0.5	0.8	33°
EGLM-06	1,200	150	2.5	6	14	6	4.0	0.5	0.9	27°
EGLM-08	1,800	175	7.0	8	16	8	5.0	0.5	1.2	24°
EGLM-10	2,500	400	14.0	10	19	9	6.0	0.5	1.9	24°
EGLM-12	3,800	650	25.0	12	22	10	7.0	0.5	2.8	21°
EGLM-15	5,500	1,000	30.0	15	26	12	9.0	0.5	6.9	21°
EGLM-16	6,000	1,150	32.0	16	28	13	9.5	0.5	9.0	21°
EGLM-17	6,300	1,200	35.0	17	30	14	10.0	1.0	10.6	21°
EGLM-20	9,000	1,400	40.0	20	35	16	12.0	1.0	16.3	18°
EGLM-25	14,000	2,900	55.0	25	42	20	16.0	1.0	29.0	16°
EGLM-30	17,000	4,000	70.0	30	47	22	18.0	1.0	37.4	13°
EGLM-40-J	22,500	2,500	80.0	40	62	28	22.0	1.0	57.0	15°
EGLM-80-J New	50,000	11,300	–	80	120	55	45	2.0	400.0	18°

²⁹⁾ The maximum static axial load is determined when fitted into a blind housing

Spherical bearings: EGLM Low-cost



Order key

Type	Size [mm]	Version
E GL M - 15 - LC		
Dimensional E series		
Spherical bearing		
Metric		
Inner Ø		
Low-cost		

i **Material:**
 Housing: **igumid G** ▶ Page 1654
 Spherical ball: **iglidur® W300** ▶ Page 171
 Other spherical ball materials upon request
 ▶ Page 841

m **Online service life calculation**
 ▶ www.igus.eu/igubal-expert

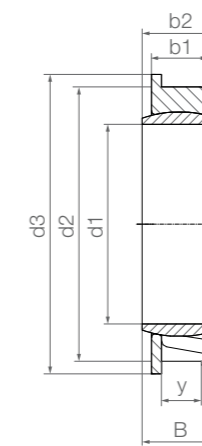
- Easy to fit
- Cost-effective
- Chemical- and corrosion-resistant
- Robust
- Compensation of misalignment errors

Technical data and dimensions [mm]

Part No.	Max. static load on the housing		Max. tightening torque through ball [Nm]	d1 E10	d2	B	C	f	Weight [g]	Max. pivot angle
	radial [N]	axial ²⁹⁾ [N]								
EGLM-15-LC	5,500	1,000	30	15	26	12	9.0	0.5	4.5	21°
EGLM-16-LC	6,000	1,150	32	16	28	13	9.5	0.5	6.0	21°
EGLM-20-LC	9,000	1,400	40	20	35	16	12.0	1.0	11.0	18°
EGLM-25-LC	14,000	2,900	55	25	42	20	16.0	1.0	20.0	16°
EGLM-30-LC	17,000	4,000	70	30	47	22	18.0	1.0	26.0	13°

²⁹⁾ The maximum static axial load is determined when fitted into a blind housing

Clip bearings: ECLM



Order key

Type	Size [mm]
E CL M -05-02	
Dimensional E series	
Clip bearing	
Metric	
Inner Ø	
Metal sheet thickness	

i **Material:**
 Housing: **igumid G** ▶ Page 1654
 Spherical ball: **iglidur® J** ▶ Page 159

m **Online service life calculation**
 ▶ www.igus.eu/igubal-expert

- Very easy installation by clipping into sheet metal
- No additional locating spigot necessary
- Extremely small installation space: space-saving, thin-walled design

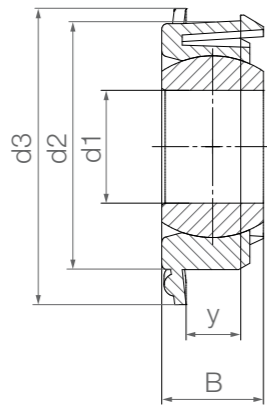
Technical data

Part No.	Max. static compressive force (short-term)		Max. static compressive force (long-term)		Weight [g]
	radial [N]	axial [N]	radial [N]	axial [N]	
	ECLM-05-02	700	25	350	
ECLM-06-02	700	25	350	12.5	0.5
ECLM-08-02	1,000	25	500	12.5	0.5
ECLM-10-03	1,400	30	700	15.0	0.8
ECLM-12-03	1,800	35	900	17.5	0.8
ECLM-16-03	2,800	40	1,400	20.0	1.1

Dimensions [mm]

Part No.	d1 E10	B	d2 ±0.2	d3	y Sheet metal thickness	b1 ±0.1	b2	Max. pivot angle
ECLM-05-02	5	6	12	13	2	3.9	6.0	25°
ECLM-06-02	6	6	12	13	2	3.9	6.0	18°
ECLM-08-02	8	6	14	15	2	3.9	6.0	16°
ECLM-10-03	10	6	16	17	3	4.5	6.7	12°
ECLM-12-03	12	6	18	19	3	4.5	6.7	12°
ECLM-16-03	16	6	22	24	3	4.5	6.7	12°

Clip bearings: ECLM-HD



Order key

Type	Size [mm]	Version
E CL M - 08 - 04 - HD		
E series	Clip bearing metric	Inner Ø d1
	Metal sheet thickness	Heavy duty

- Material:**
 Housing: **igumid G** ▶ Page 1654
 Spherical ball: **iglidur® W300** ▶ Page 171
 Other spherical ball materials upon request ▶ Page 841

- High axial and radial loads
- Adjustment of axial and radial clearance by pre-loading
- Very easy installation by clipping into sheet metal
- No additional locating spigot necessary
- For plate thickness 4–8mm

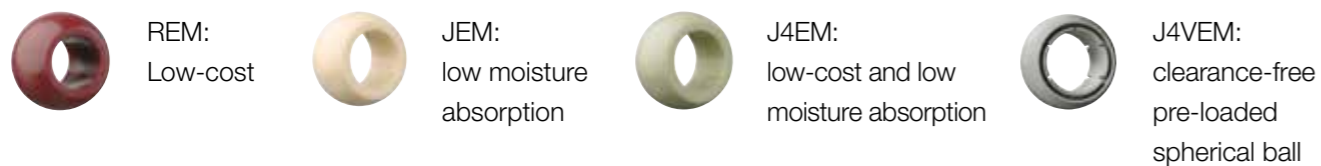
Technical data

Part No.	Max. static compressive force (short-term)		Max. static compressive force (long-term)		Weight [g]
	radial [N]	axial [N]	radial [N]	axial [N]	
	ECLM-08-04-HD	1,750	125	875	
ECLM-10-05-HD	2,500	150	1,250	75	3.1
ECLM-12-06-HD	3,500	175	1,750	85	3.8
ECLM-16-08-HD	4,500	250	2,250	125	7.0
ECLM-20-08-HD	6,000	330	3,000	165	12.0

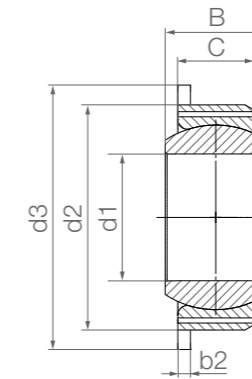
Dimensions [mm]

Part No.	d1	B	d2	d3	y	Max. pivot angle
	E10		±0.15		±0.1	
ECLM-08-04-HD	8	8	18	25	4	28°
ECLM-10-05-HD	10	9	22	28	5	24°
ECLM-12-06-HD	12	10	24	32	6	24°
ECLM-16-08-HD	16	13	30	38	8	22°
ECLM-20-08-HD	20	16	36	44	8	21°

Alternative spherical ball materials ▶ Page 841



Clip bearings: EGFM-...T



Order key

Type	Size [mm]	Version
E GF M - 08 T		
E series	Clip bearing with flange metric	Inner Ø d1
	Tolerance compensation	

- Material:**
 Housing: **igumid G** ▶ Page 1654
 Spherical ball: **iglidur® W300** ▶ Page 171
 Other spherical ball materials upon request ▶ Page 841

- Maintenance-free dry operation
- Easy to fit
- Max. tolerance compensation ±0.2mm

Technical data

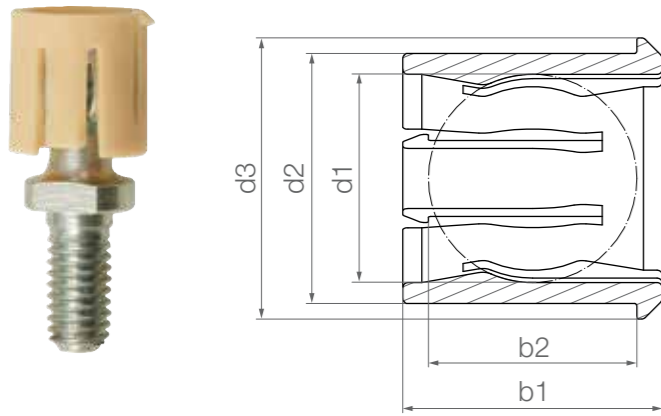
Part No.	Max. stat. compressive force (short-term)		Max. stat. compressive force (long-term)		Weight [g]
	radial [N]	axial [N]	radial [N]	axial [N]	
	EGFM-08 T SL ³¹⁾	1,100	150	550	
EGFM-10 T	1,900	220	950	110	2.4
EGFM-12 T	2,500	270	1,250	135	3.0
EGFM-16 T	6,000	600	3,000	300	6.6
EGFM-20 T	9,000	800	4,500	400	11.1
EGFM-25 T	14,000	2,800	7,000	1,400	19.0
EGFM-30 T	17,000	3,000	8,500	1,500	24.0

Dimensions [mm]

Part No.	d1	d2	d3	C	B	b2	Housing		Max. pivot angle	
	E10	Min.	Max.				Min.	Max.		
EGFM-08 T SL ³¹⁾	8	15.8	16.5	18	5.0	6	1.1	15.8	16.2	11°
EGFM-10 T	10	20.8	21.6	26	6.0	9	1.0	20.8	21.2	24°
EGFM-12 T	12	22.8	23.6	28	7.0	10	1.0	22.8	23.2	21°
EGFM-16 T	16	29.8	30.6	35	9.5	13	1.5	29.8	30.2	21°
EGFM-20 T	20	34.8	35.6	42	12.0	16	2.0	34.8	35.2	18°
EGFM-25 T	25	41.8	42.6	50	16.0	20	2.0	41.8	42.2	16°
EGFM-30 T	30	46.8	47.6	55	18.0	22	2.0	46.8	47.2	13°

³¹⁾ Spherical ball made of iglidur® J, H10 tolerance

Ball stud clip bearings: ZCLM



Order key

Type	Size [mm]	Options
Z CL M - 06 - 10 - MS		
Can be assembled on both sides	Clip bearings	Ball stud ¹⁹⁾
	metric	MS = Made of galvanised steel
	Ball stud M6	ES = Made of stainless steel ²⁸⁾
	Metal sheet thickness	Blank = without ball stud

Material:
Clip bearing: iglidur® J ▶ Page 159

- Connection for rotating and pivoting movements
 - Easy and quick assembly
 - Absolute corrosion resistance
 - Lubrication and maintenance-free
 - Lightweight
 - Resistance to chemicals
 - Ball studs made from galvanised steel and stainless steel²⁸⁾
- ▶ Accessories, page 859

Dimensions [mm]

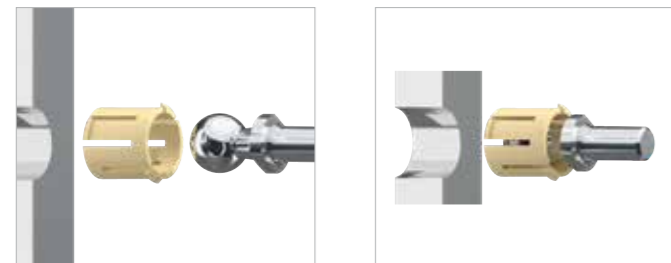
Part No.	d1	d2	d3	b1	b2	Weight [g]
ZCLM-06-10-MS	10	12	13.5	12.5	10	0.6

¹⁹⁾ Ball stud with right-hand thread; left-hand thread upon request

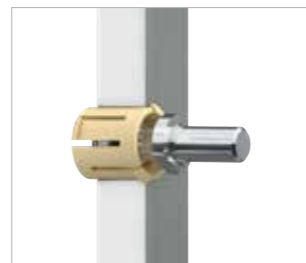
²⁸⁾ Stainless steel ball stud upon request

More dimensions upon request

Assembly:



Assembly film
▶ www.igus.eu/zclm-film

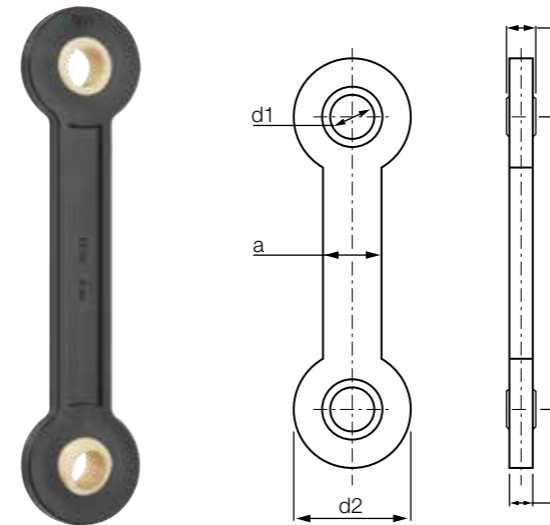


Can be combined with accessories ▶ Page 859



GZRM-IG

Double joints: EGZM



Order key

Type	Size [mm]
E GZ M - 04 - 25	
E series	Double joints
metric	Inner Ø d1
Pitch X	

Material:
Housing: igumid G ▶ Page 1654
Spherical ball: iglidur® W300 ▶ Page 171
Other spherical ball materials upon request
▶ Page 841

- Maintenance-free dry operation
- Mechanical joining link between two components
- Compensation of misalignment errors
- Corrosion-resistant
- Double joint turned 90° available upon request

Technical data and dimensions [mm]

Part No.	Max. static load (short-term)		Max. static load (long-term)		d1 E10	d2	X	b	a	c	Weight [g]	Max. pivot angle
	Tensile force [N]	Compressive force [N]	Tensile force [N]	Compressive force [N]								
EGZM-04-25	1,100	1,300	550	650	4	20	25	4	10	5	3.5	32°
EGZM-04-50	1,100	750	550	375	4	20	50	4	10	5	4.8	32°
EGZM-04-75	1,100	500	550	250	4	20	75	4	10	5	6.1	32°
EGZM-05-25	1,100	1,300	550	650	5	20	25	4	10	6	2.2	37°
EGZM-05-50	1,100	750	550	375	5	20	50	4	10	6	4.9	37°
EGZM-05-75	1,100	500	550	250	5	20	75	4	10	6	6.3	37°
EGZM-06-25	1,100	1,300	550	650	6	20	25	4	10	6	3.4	30°
EGZM-06-50	1,100	750	550	375	6	20	50	4	10	6	4.8	30°
EGZM-06-75	1,100	500	550	250	6	20	75	4	10	6	6.0	30°
EGZM-08-60	3,000	3,500	1,500	1,750	8	30	60	7	15	8	15.2	20°
EGZM-08-100	3,000	1,900	1,500	950	8	30	100	7	15	8	19.5	20°
EGZM-10-60	2,500	3,500	1,250	1,750	10	30	60	7	15	9	15.3	25°
EGZM-10-85	2,500	2,300	1,250	1,150	10	30	85	7	15	9	18.1	25°
EGZM-10-100	2,500	1,900	1,250	950	10	30	100	7	15	9	19.4	25°
EGZM-12-60	2,000	3,500	1,000	1,750	12	30	60	7	15	10	14.7	25°
EGZM-12-100	2,500	1,900	1,000	950	12	30	100	7	15	10	18.8	25°

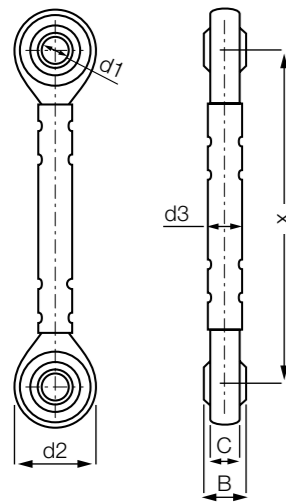
Alternative spherical ball materials ▶ Page 841



Variable double joints: KDGM



Version A Version B



Order key

Type	Size [mm]	Options
K DG M -	06	- A - SR - J
K series	Double joints	metric
	Inner Ø	
	Ball stud direction (A or B)	
	Tube material	
	Spherical ball material	

Options:

Tube material
 SR = Galvanised steel
 ER = Stainless steel (AISI 303)

Spherical ball material
 Blank = iglidur® W300
 J = iglidur® J
 J4 = iglidur® J4
 R = iglidur® R
 EK = Stainless steel (AISI 303)

Material:
 Housing: **igumid G** ▶ Page 1654
 Ball: **variable** ▶ Page 841
 Tube: **Galvanised or stainless steel**

- Ball diameters 5, 6, 8, 10 and 12mm
- Individual centre distance
- Individual alignment of the bearing position

Dimensions [mm]

Part No.	d1	d2	d3	X	B	C	Max. pivot angle
	E10			Min.			
KDGM-05-A-SR <input type="text"/>	5	20	6	72	9	7.0	45°
KDGM-06-A-SR-J <input type="text"/>	6	20	6	72	9	7.0	40°
KDGM-08-A-SR-J <input type="text"/>	8	24	8	84	12	9.0	35°
KDGM-10-A-ER-J ¹⁴⁵⁾ <input type="text"/>	10	30	10	96	14	10.5	35°
KDGM-12-A-SR-J <input type="text"/>	12	34	12	108	16	12.0	35°

³²⁾ Please add the required centre distance in mm

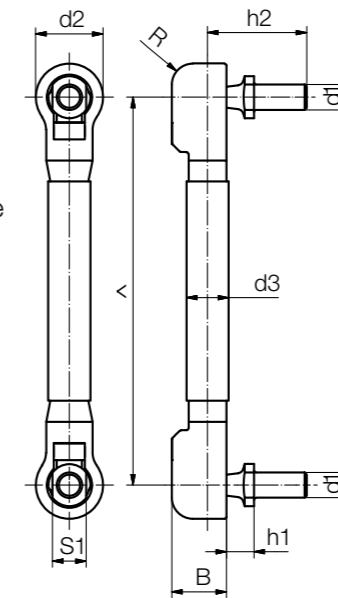
¹⁴⁵⁾ Size only available with stainless steel tube (ER)

Order example, KDGM-05-A-SR, 100 : Double joint with 5mm inner diameter, version A, tube material made of steel, spherical ball made of iglidur® W300, centre distance 100mm

Variable coupling joints: WDGM



Version A Version B Version C Version D



- Socket cup M5, M6, M8 and M10
- Individual centre distance
- Individual alignment of the bearing position

Order key

Type	Size [mm]	Options
W DG M -	05	- A -SR-SZ
Angle	Coupling joint	metric
	Ball stud thread	
	Ball stud direction (A, B, C or D)	
	Tube material	
	Ball stud material	

Options:

Tube material
 SR = Galvanised steel
 ER = Stainless steel (AISI 303)

Ball stud material
 SZ = Galvanised steel
 EZ = Stainless steel²⁸⁾
 PZ = igumid G

Material:
 Housing: **igumid G** ▶ Page 1654
 Ball stud: **Plastic, galvanised or stainless steel**²⁸⁾
 Tube: **Galvanised or stainless steel**

Dimensions [mm]

Part No.	d1	d2	d3	X	B	h1	h2	S1	R	Max. pivot angle
				Min.				Width across flats		
WDGM-05-A-SR-SZ <input type="text"/>	M5	12.8	8	64	10.8	4.6	19.2	SW8	6.4	23°
WDGM-06-A-ER-SZ ¹⁴⁵⁾ <input type="text"/>	M6	14.8	10	80	12.3	6.1	23.5	SW9	7.4	25°
WDGM-08-A-SR-SZ <input type="text"/>	M8	19.3	12	80	16.2	5.9	29.5	SW12	9.7	24°
WDGM-10-A-SR-SZ <input type="text"/>	M10 ³³⁾	19.3	12	80	16.2	7.9	36.0	SW14	9.7	24°

¹⁴⁵⁾ Size only available with stainless steel tube (ER)

²⁸⁾ Stainless steel ball stud upon request

³²⁾ Please add the required centre distance in mm

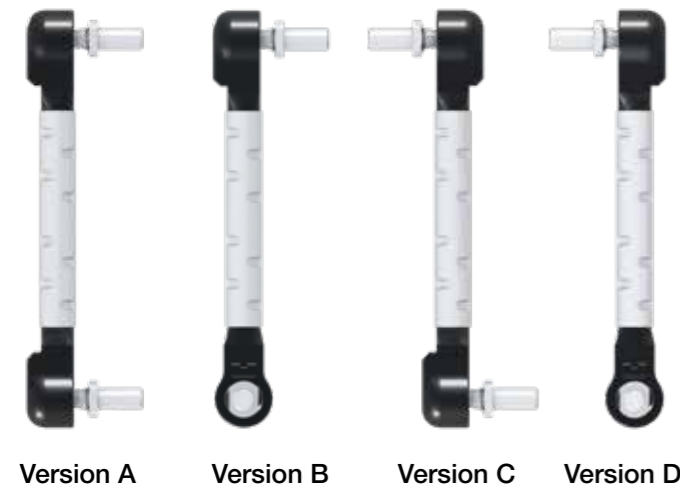
³³⁾ Housing's size 8 with a special M10 stud, available only in metal

Order example, WDGM-05-A-SR-SZ, 100: Coupling joint with 5mm ball stud thread, version A, tube material made of steel, ball stud made of steel, centre distance 100mm

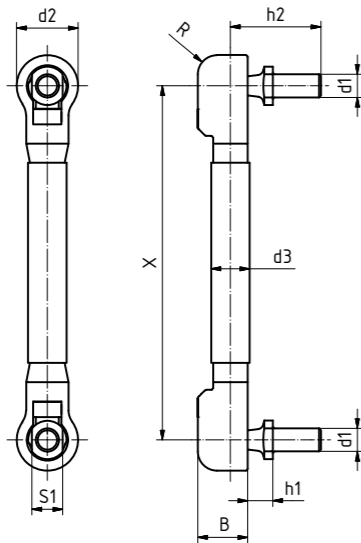
Can be combined with accessories ▶ From page 859:



Variable coupling joints, removable:
WDGM-DE



- Socket cup M6
- Individual centre distance
- Individual alignment of the bearing position
- Easy assembly and disassembly
- High holding forces when assembled



Dimensions [mm]

Part No.	d1	d2	d3	X	B	h1	h2	S1	R	Max. pivot angle
WDGM-06-A-ER-SZ-DE <input type="text"/>	M6	16	10	Min.	13	6.5	23.5	Width across flats SW8	5	23°

¹⁴⁵⁾ Size only available with stainless steel tube (ER)

²⁸⁾ Stainless steel ball stud upon request

³²⁾ Please add the required centre distance in mm

Order example, WDGM-06-A-ER-SZ-DE, 150 : Removable coupling joint with 6mm ball stud thread, version A, tube material made of stainless steel, ball stud made of steel, centre distance 150mm

Assembly:



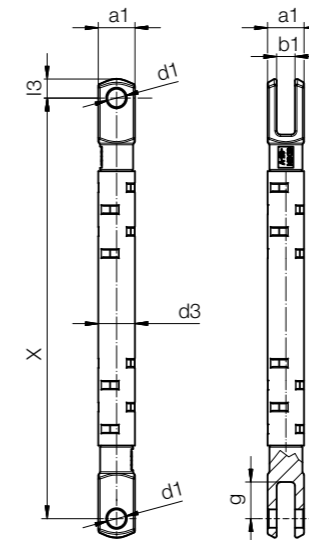
Can be combined with accessories
► From page 859:



Crimped coupling joints with clevis joints:
GDGM-05-V



- Lubrication and maintenance-free
- Diameter 5mm
- Individual alignment of the clevis joint – rotation feature
- Combination with spring-loaded fixing clip or bolt and securing clip possible
- Other installation sizes upon request
- Cost-effective solution for small and medium volumes



Dimensions [mm]

Part No.	d1	d3	X	a1	a2	b1	g	l3	max. static tensile strain Short-term
GDGM-05-V-ER- <input type="text"/>	+0.1	Min.	Min.	+0.3	+0.3	+0.3	±0.3	+0.3	[N]
GDGM-05-V-ER- <input type="text"/> New	5	10	90	10	10	5	10	5	350

Order example, GDGM-05-V-ER-F, 100: coupling joint with clevis joints for a pin diameter of 5mm. Adjustable alignment of the bearing points. Stainless steel tube, two spring-loaded fixing clips GEFM-05 DIN, centre distance 100mm, included

Can be combined with accessories ► From page 859:



Order key

Type	Size [mm]	Options
WDGM-06-A-ER-SZ-DE		
Angle		
Coupling joint		
metric		
Ball stud thread		
Ball stud direction (A, B, C or D)		
Tube material		
Ball stud material		
Disassembly		

Options:
Tube material
 ER = Stainless steel (AISI 303)
Ball stud material
 SZ = Galvanised steel
 EZ = Stainless steel²⁸⁾
 PZ = igumid G
Material:
 Housing: igumid G ► Page 1654
 Ball stud: Plastic, galvanised or stainless steel²⁸⁾
 Tube: stainless steel

Order key

Type	Size [mm]	Options
GDGM-05-V-ER-F		
Clevis joint		
Coupling joint		
metric		
Inner Ø		
Twistable		
Tube material		
Accessories		

Options:
 F = Spring-loaded fixing clip
 K = Clevis pin and circlip
Material:
 Housing: igumid G ► Page 1654
 Tube: Stainless steel (AISI 303)