

# BEARINGS

## Innovations comprising high performance plastics

igus® polymer plain bearings constitute the step from a simple plastic bushing to a tested, predictable and available machine element. Our research is essentially aimed at precise forecasts of bearing properties – especially life cycle – achieved by continuous advancements in materials.



## Predictable life cycle – no lubricant necessary

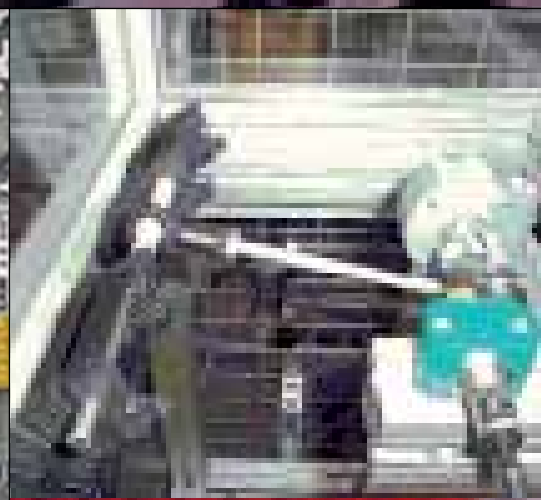
Lubrication-free operation is something every designer strives for. igus® polymer plain bearings make this dream a reality. Decades of research now permit precise calculations of a polymer plain bearing's life cycle.

## Good for the environment

iglidur® bearings are lubricant free, so that no contaminants escape into the environment. The lightweight bearings will also help to reduce fuel consumption and carbon dioxide output in, for example, vehicles or aircrafts. Basically the reduced weight leads to lower masses and subsequently lower energy consumption. Excellent polymers, improved through precise additions of reinforcements and solid lubricants, tested thousands of times, and proven millions of times – that is iglidur®. Every year, igus® engineers develop more than 100 new plastic compounds and conduct more than 5,000 tests on maintenance-free plain bearings.

Over the years, this has made it possible to establish a large database of polymers' tribological properties. In addition to its general properties, every iglidur® bearing material possesses a number of special features making it suitable for particular applications and requirements.

The tribo-optimised "iglidur®" plastic plain bearings from igus® require neither oil nor grease. Due to continuous advanced developments the bearings specialist igus® now supplies alternatives more in line with environmental considerations for more and more applications that work with lubricated metallic plain and rolling bearings. The energy balance for the manufacture of plastics is very positive.



## Polymer Plain Bearings

iglidur®

Polymer plain bearings - economically, lubrication free, maintenance free, predictable. A choice of over 30 different Iglidur® materials for bearings ranging from all round through FDA compliant to high temperature. Furthermore special designs, all bearings, slewing ring bearings, stock bars etc.

## Spherical Bearings

igubal®

igubal® spherical bearings are self-aligning components made entirely of high-performance plastics. The igubal® series provides developers with a complete system of self-adjusting bearing elements: Rod ends, clevis joints, flange bearings, pivot bearings and upright bearings. Self-adjusting bearings are easily mountable, adaptable to all angular ranges and have been used to replace special housings in many cases. igubal® offers all the advantages of high-performance plastics, including dry running capability combined with very good vibration damping. igubal® pivot bearings are insensitive to dirt, liquids, chemicals and fully corrosion-proof. Bearing elements from the igubal® range are very light, compact and economical.

## Linear Slide Bearings

DryLin®

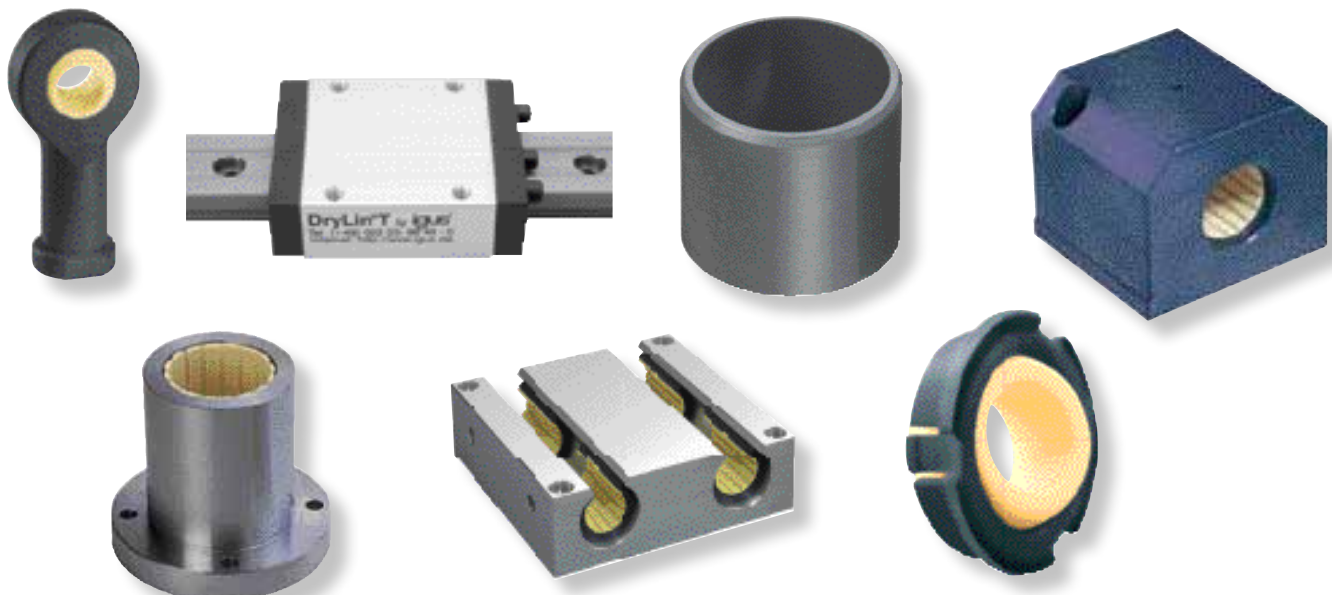
In contrast to familiar recirculating-ball systems, DryLin® linear slide bearings operate with sliding elements. These sliding elements can basically be made of any high-performance polymer of the iglidur® series. This blends the advantages of DryLin® linear technology with those of all the various iglidur® bearing materials. DryLin® linear bearing systems are designed for dry running. These systems are thus protected against exposure to greases and oils. As a result, ambient dust and abraded material cannot cling to the bearing points. In contrast to recirculating-ball bushings, DryLin® bearings impose no restrictions in terms of minimum stroke length and are almost inaudible during operation. The flat, compact Leadscrew linear table for variable formats and handling tasks is extremely rigid due to its hard-anodized aluminium profile. All bearing points are furnished with dry-running iglidur® materials.



## Contents

iglidur® – Plain Bearings	Page	372-373
iglidur® – Sleeve Bearing – Type S	Page	374
iglidur® – Flange Bearing – Type F	Page	374
igubal® Rod End Bearing – Type KBRM/KBLM	Page	375
igubal® Rod End Bearing – Type KARM/KALM	Page	376
igubal® Ball & Socket Joints	Page	377
igubal® Pillow Block Bearing	Page	377
igubal® Clevis Joint – Type GERM	Page	378
igubal® Spring Loaded Pin – Type GEFM	Page	378
igubal® Flange Bearing – Type EFOM	Page	379
igubal® Flange Bearing – Type EFSM	Page	379
igubal® Spherical Bearing – Type EGLM/KGLM/ECLM	Page	380
DryLin® T – Adjustable clearance – TK-01...	Page	381
DryLin® T – Miniature – TK-04...	Page	382
DryLin® N – Low-Profile Linear Guide N17	Page	383
DryLin® N – Low-Profile Linear Guide N27	Page	383
DryLin® N – Low-Profile Linear Guide N40	Page	384
DryLin® N – Low-Profile Linear Guide N80	Page	384
DryLin® W – Flexible Linear Guide System	Page	385
DryLin® W – Flexible Linear Guide System	Page	386
DryLin W Camera Set WK-16-60-10-01-1000	Page	386
DryLin® R – Liner Plain Bearing RJUM-01, mm	Page	387
DryLin® R – Solid Plastic Bearing RJM-01, mm	Page	388
DryLin® R – Self Aligning Linear Plain Bearing RJUM-03, mm	Page	389

DryLin® R – Linear Plain Bearing RJUM-02, mm	Page	390
DryLin® R – Tandem Housing Bearing RJUMT-05, mm	Page	391
DryLin® R – Standard Pillow Block RJUM-06, mm	Page	392
DryLin® R – Round Flange FJUM-01, mm	Page	393
DryLin® R – Linear Plain Bearing OJUM-01, mm	Page	394
DryLin® R – Self Aligning Linear Plain Bearing OJUM-03, mm	Page	395
DryLin® R – Standard Pillow Block OJUM-06, mm	Page	396
OQA – Quad Block, Open, mm	Page	397
DryLin® – Aluminium Shaft AWM-Ø, mm	Page	398
DryLin® – Shaft End Block, Standard Design, mm	Page	399
DryLin® – Supported Aluminium Shaft AWMU, mm	Page	400
DryLin® SHT – Standard	Page	401
DryLin® SHTP – Cost-effective	Page	402
DryLin® SLW – Compact	Page	403
DryLin® ZLW – Exploded View of the belt drive	Page	404
PRT Slewing Ring	Page	405



## iglidur® – Plain Bearings

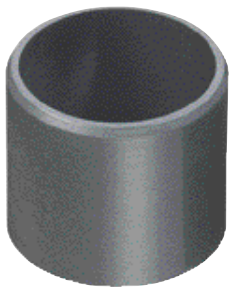
Excellent polymers, improved by precise additions of reinforcing materials and lubricants, tested a thousand times and proven a million times.

### General properties of iglidur®-Plain Bearings

- High dimensional accuracy
- High compressive strength
- Good heat dissipation
- Low heat relaxation
- Maintenance-free
- Lubrication free
- High dirt resistance
- Corrosion resistance
- High vibration dampening
- Very low tendency to creep
- Low cost
- Designed to be pressfit into a h7 bore

### iglidur® G

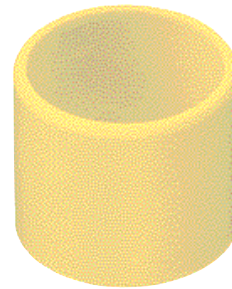
The Economical All rounder



Sleeve Bearing – Type S



Flange Bearing – Type F



Sleeve Bearing – Type S



Flange Bearing – Type F

### iglidur® J

The Fast and Slow Motion Specialist

iglidur® G bearings cover an extremely wide range of differing requirements – they are truly “all round”. Application is recommended for medium to high loads, medium sliding velocities and medium temperatures.

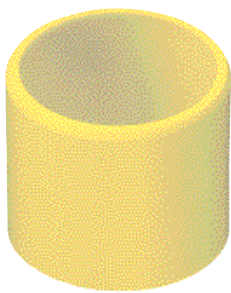
- Economical all-round performance bearing
- Maintenance-free, dry running
- Vibration dampening
- High wear resistance
- Resistance to dust and dirt
- Cost-effective
- For above average loads
- For low to average running speeds
- When the bearing needs to run on different shaft materials
- For oscillating and rotational movements
- Maximum pxV Value 0.42 MPa x m/s
- Maximum static surface pressure 80 MPa

The iglidur® J plain bearings are designed for the lowest coefficients of friction while running dry and their low stick slip tendency. With a maximum permissible surface pressure of 35 MPa iglidur® J plain bearings are not suitable for extreme loads.

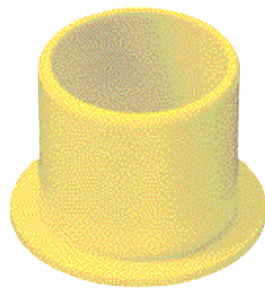
- Low coefficient of friction in dry run
- Vibration dampening
- Good chemical resistance
- Best performance with soft shaft materials
- Low moisture absorption
- For high speeds
- Maximum pxV Value 0.34 MPa x m/s
- Maximum static surface pressure 35 MPa

Characteristics of the iglidur® Materials	Speciality										
		long life dry running	for high loads	for high temperatures	low friction/high speed	dirt resistant	chemical resistant	low water absorption	edge pressure	for under water use	economic
iglidur® G	Economical All rounder	●	●			●					●
iglidur® J	Low friction	●			●			●	●		●
iglidur® W300	Wear resistant	●			●	●			●		
iglidur® X	High temperatures, chemicals	●	●	●				●	●	●	

### iglidur® W300 The Marathon Runner



Sleeve Bearing – Type S

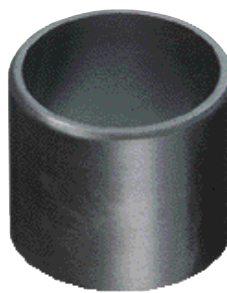


Flange Bearing – Type F

The iglidur® W300 material has high wear resistance, even in harsh environments, or when used with rough shafts. Of all iglidur® materials, this material is the most resistant to these types of external effects.

- For especially high service life
- Low coefficient of friction
- Extremely high wear resistance
- Also suitable for soft shafts
- Economical all-round performance bearing
- For use on 303 stainless steel shafts
- For harsh environments and very rough shafts
- Dirt resistant
- Maximum pxV Value 0.23 MPa x m/s
- Maximum static surface pressure 60 MPa

### iglidur® X The High-Tech Problem Solver



Sleeve Bearing – Type S

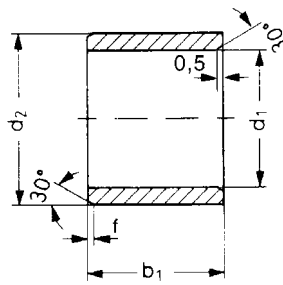
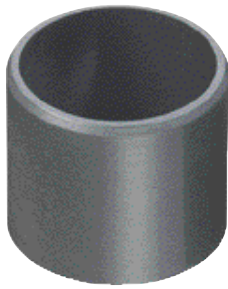


Flange Bearing – Type F

iglidur® X is defined by its combination of high temperature resistance with compressive strength, along with high resistance to chemicals. iglidur® X is designed for higher loads than other iglidur® bearings.

- Temperature resistant from -100 °C to +250 °C in continuous operation (short term to +315 °C)
- Universal resistance to chemicals
- High compressive strength
- Very low moisture absorption
- High wear resistance through the entire temperature range
- For pressure loads up to 150 MPa
- For linear movements with stainless steel and for linear movements at high temperatures
- Maximum pxV Value 1.32 MPa x m/s
- Maximum static surface pressure 150 MPa

## iglidur® – Sleeve Bearing – Type S



- f = 0,3 ▶ d1 = 1–6
- f = 0,5 ▶ d1 = 6–12
- f = 0,8 ▶ d1 = 12–30
- f = 1,2 ▶ d1 > 30



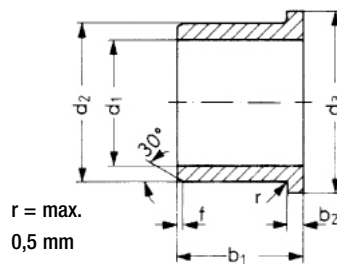
New: bags of iglidur® bearings in handy quantities

Chamfer in relation to d1  
Dimensions according to ISO 3547-1 and special dimensions

Part Number	d1	d2	b1	Pack Size h13
<input type="checkbox"/> SM-0304	3,0	4,5	3,0	10
<input type="checkbox"/> SM-0507	5,0	7,0	5,0	10
<input type="checkbox"/> SM-0608	6,0	8,0	6,0	10
<input type="checkbox"/> SM-0810	8,0	10,0	8,0	8
<input type="checkbox"/> SM-1012	10,0	12,0	10,0	8
<input type="checkbox"/> SM-1214	12,0	14,0	10,0	8
<input type="checkbox"/> SM-1416	14,0	16,0	15,0	8
<input type="checkbox"/> SM-1517	15,0	17,0	20,0	8
<input type="checkbox"/> SM-1618	16,0	18,0	20,0	8
<input type="checkbox"/> SM-2023	20,0	23,0	20,0	6
<input type="checkbox"/> SM-2528	25,0	28,0	20,0	6
<input type="checkbox"/> SM-3034	30,0	34,0	30,0	6

↑ Insert **G** for Iglidur® G, **J** for Iglidur® J, **W** for Iglidur® W300, **X** for iglidur® X

## iglidur® – Flange Bearing – Type F



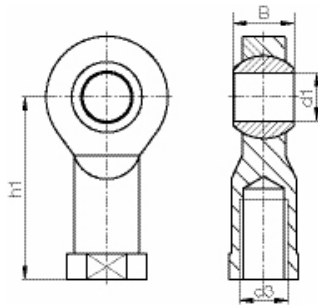
- f = 0,3 ▶ d1 = 1–6
- f = 0,5 ▶ d1 = 6–12
- f = 0,8 ▶ d1 = 12–30
- f = 1,2 ▶ d1 > 30

Chamfer in relation to d1  
Dimensions according to ISO 3547-1 and special dimensions

Part Number	d1	d2	d3	b1	Pack Size h13
<input type="checkbox"/> FM-0507	5,0	7,0	11,0	5,0	10
<input type="checkbox"/> FM-0608	6,0	8,0	12,0	8,0	10
<input type="checkbox"/> FM-0810	8,0	10,0	15,0	7,5	8
<input type="checkbox"/> FM-1012	10,0	12,0	18,0	9,0	8
<input type="checkbox"/> FM-1214	12,0	14,0	20,0	12,0	8
<input type="checkbox"/> FM-1416	14,0	16,0	22,0	12,0	8
<input type="checkbox"/> FM-1517	15,0	17,0	23,0	12,0	8
<input type="checkbox"/> FM-1618	16,0	18,0	24,0	17,0	8
<input type="checkbox"/> FM-2023	20,0	23,0	30,0	21,0	6
<input type="checkbox"/> FM-2528	25,0	28,0	35,0	21,0	6
<input type="checkbox"/> FM-3034	30,0	34,0	42,0	26,0	5

↑ Insert **G** for Iglidur® G, **J** for Iglidur® J, **W** for Iglidur® W300, **X** for iglidur® X

## igubal® Rod End Bearing – Type KBRM/KBLM



igubal® female rod ends, ideal for mechanical linkages and pneumatic cylinder applications. Corrosion resistant and vibration dampening, and of course cost effective.

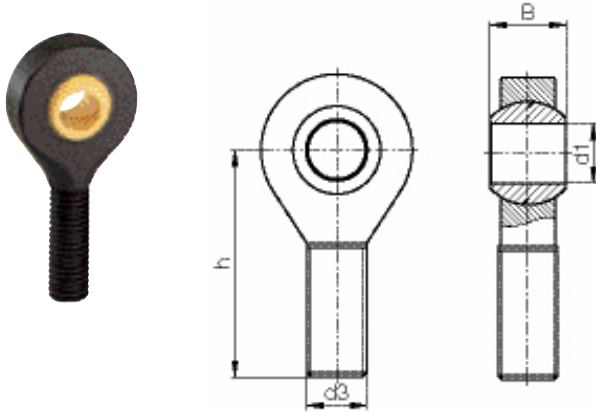
### Right Hand Thread

Part Number	Max. static tensile strength		Minimum thred depth [mm]	d1 E10	d3	B	h1
	short term [N]	long term [N]					
KBRM-02	200	100	4	2	M02	4	12,5
KBRM-03	800	400	5	3	M03	6	18,5
KBRM-05	1000	500	7	5	M05	8	27
KBRM-06	1400	700	8	6	M06	9	30
KBRM-08	2100	1050	11	8	M08	12	36
KBRM-10	3100	1550	13	10	M10	14	43
KBRM-10 F	3100	1550	13	10	M10 x 1,25	14	43
KBRM-12	3600	1800	15	12	M12	16	50
KBRM-12 F	3600	1800	15	12	M12 x 1,25	16	50
KBRM-16	4200	2100	19	16	M16	21	64
KBRM-16 F	4200	2100	19	16	M16 x 1,5	21	64
KBRM-20	5400	2700	22	20	M20 x 1,5	25	77
KBRM-20 M20	5400	2700	22	20	M20 x 2,5	25	77
KBRM-25	8500	4250	28	25	M24 x 2,0	31	94
KBRM-30	10500	5250	34	30	M30 x 2,0	37	110

### Left Hand Thread

Part Number	Max. static tensile strength		Minimum thred depth [mm]	d1 E10	d3	B	h1
	short term [N]	long term [N]					
KBLM-02	200	100	4	2	M02	4	12,5
KBLM-03	800	400	5	3	M03	6	18,5
KBLM-05	1000	500	7	5	M05	8	27
KBLM-06	1400	700	8	6	M06	9	30
KBLM-08	2100	1050	11	8	M08	12	36
KBLM-10	3100	1550	13	10	M10	14	43
KBLM-10 F	3100	1550	13	10	M10 x 1,25	14	43
KBLM-12	3600	1800	15	12	M12	16	50
KBLM-12 F	3600	1800	15	12	M12 x 1,25	16	50
KBLM-16	4200	2100	19	16	M16	21	64
KBLM-16 F	4200	2100	19	16	M16 x 1,5	21	64
KBLM-20	5400	2700	22	20	M20 x 1,5	25	77
KBLM-20 M20	5400	2700	22	20	M20 x 2,5	25	77
KBLM-25	8500	4250	28	25	M24 x 2,0	31	94
KBLM-30	10500	5250	34	30	M30 x 2,0	37	110

## igubal® Rod End Bearing – Type KARM/KALM



igubal® male rod ends, ideal for mechanical linkages and pneumatic cylinder applications. Corrosion resistant and vibration dampening, and of course cost effective.

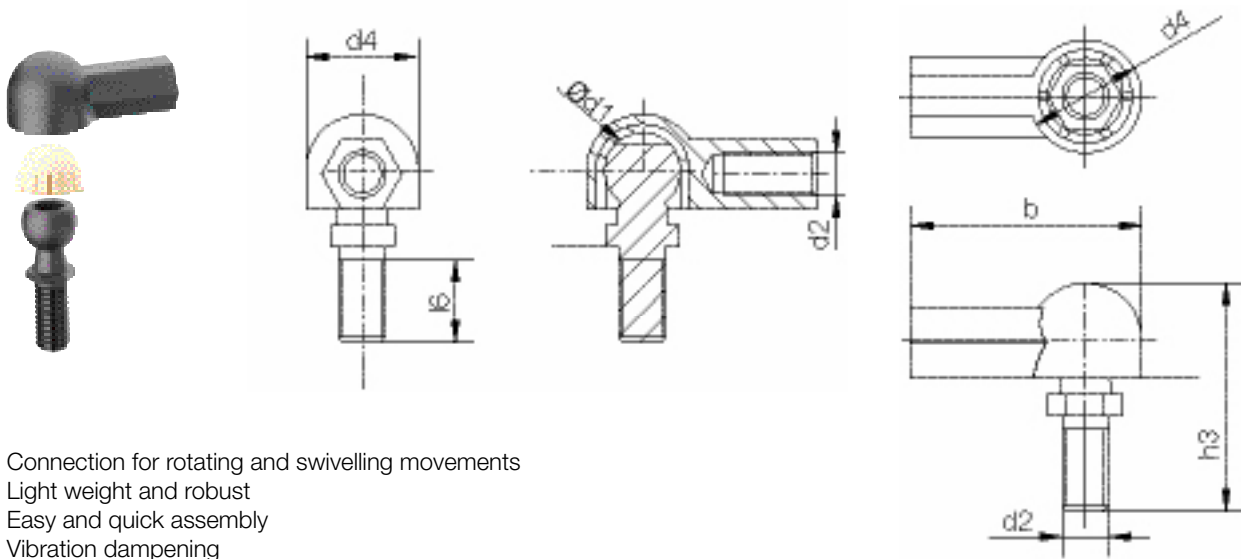
### Right Hand Thread

Part Number	Max. static tensile strength		d1 E10	d3	B	h1
	short term [N]	long term [N]				
KARM-05	800	400	5	M05	8	33
KARM-06	1000	500	6	M06	9	36
KARM-08	1700	850	8	M08	12	42
KARM-10	2500	1250	10	M10	14	48
KARM-10 F	2500	1250	10	M10 x 1,25	14	48
KARM-12	2700	1350	12	M12	16	54
KARM-12 F	2700	1350	12	M12 x 1,25	16	54
KARM-14	3400	1700	14	M14	19	61
KARM-16	3900	1950	16	M16	21	66
KARM-16 F	3900	1950	16	M16 x 1,5	21	66
KARM-18	4200	2100	18	M18 x 1,5	23	72
KARM-20	6000	3000	20	M20 x 1,5	25	78
KARM-20 M20	6000	3000	20	M20 x 2,5	25	78
KARM-22	7200	3600	22	M22 x 1,5	28	84
KARM-25	7500	3750	25	M24 x 2,0	31	94
KARM-30	8800	4400	30	M30 x 2,0	37	112

### Left Hand Thread

Part Number	Max. static tensile strength		d1 E10	d3	B	h1
	short term [N]	long term [N]				
KALM-05	800	400	5	M05	8	33
KALM-06	1000	500	6	M06	9	36
KALM-08	1700	850	8	M08	12	42
KALM-10	2500	1250	10	M10	14	48
KALM-10 F	2500	1250	10	M10 x 1,25	14	48
KALM-12	2700	1350	12	M12	16	54
KALM-12 F	2700	1350	12	M12 x 1,25	16	54
KALM-14	3400	1700	14	M14	19	61
KALM-16	3900	1950	16	M16	21	66
KALM-16 F	3900	1950	16	M16 x 1,5	21	66
KALM-18	4200	2100	18	M18 x 1,5	23	72
KALM-20	6000	3000	20	M20 x 1,5	25	78
KALM-20 M20	6000	3000	20	M20 x 2,5	25	78
KALM-22	7200	3600	22	M22 x 1,5	28	84
KALM-25	7500	3750	25	M24 x 2,0	31	94
KALM-30	8800	4400	30	M30 x 2,0	37	112

## igubal® Ball & Socket Joints

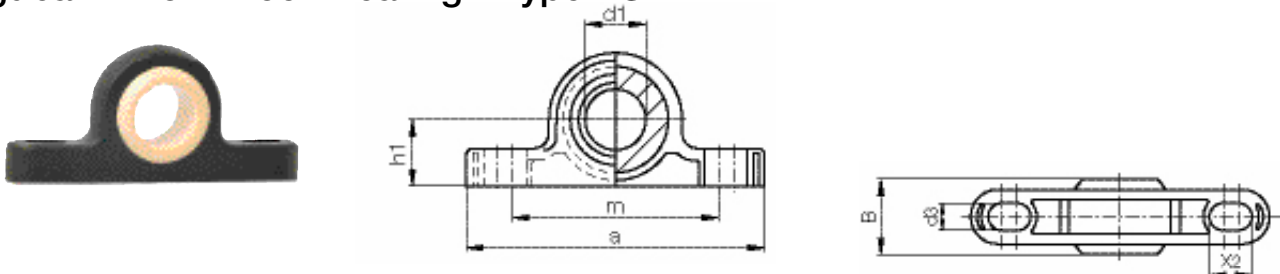


- Connection for rotating and swivelling movements
- Light weight and robust
- Easy and quick assembly
- Vibration dampening
- Resistant to dirt and dust
- Maximum pivoting angle 25 degrees

### Load Data

Part No.	d1 +0.1 -0.1	d2	d4 +0.5 -0.5	i6 Min	h3 +0.5 -0.5	b +0.5 -0.5
WGRM-05	8.0	M5	12.8	8.2	25.6	28.4
WGRM-06	10.0	M6	14.8	10.5	30.9	32.4
WGRM-08	13.0	M8	19.3	13.5	38.8	39.7
WGRM-10	16.0	M10	24.0	16.0	47.0	47.0

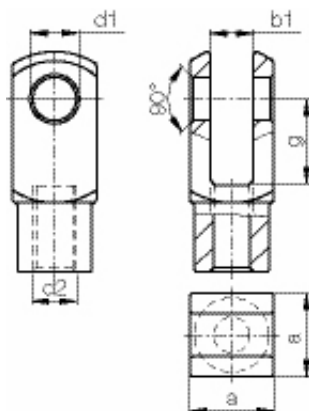
## igubal® Pillow Block Bearing – Type KSTM



### Load Data

Part No.	Max. radial static tensile strength		Maximum torque for Longitudinal holes [Nm]	a	d1 E10	B	h1	m	d3	X2
	short term [N]	long term [N]								
KSTM-05	700	350	0,6	34	5	8	7	25	3,3	5
KSTM-06	1100	550	1,3	43	6	9	10	33	4,5	6
KSTM-08	1300	650	1,3	47	8	12	10	33	4,5	7
KSTM-10	1500	750	2,5	62	10	14	14	46	5,5	8
KSTM-12	2200	1100	2,5	65	12	16	14	46	5,5	9
KSTM-14	2400	1200	4,5	82	14	19	18	60	6,6	11
KSTM-16	3000	1500	4,5	86	16	21	18	60	6,6	12
KSTM-18	3500	1750	10,5	93	18	23	22	68	9,0	13
KSTM-20	4700	2350	10,5	98	20	25	22	68	9,0	14
KSTM-22	6100	3050	10,5	108	22	28	24	74	9,0	16
KSTM-25	6600	3300	10,5	124	25	31	27	86	9,0	17
KSTM-30	8100	4050	21,5	139	30	37	32	96	11,0	20

## igubal® Clevis Joint – Type GERM

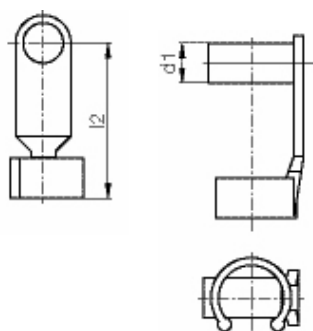


- Maintenance-free, dry running
- High tensile strength
- Vibration dampening
- Noise dampening
- Light weight
- Universal corrosion resistance
- Insensitive to dirt, dust and fluff

### Max. static axial tensile strength

Part No.	GERM		GERMF		d1	a/g	b1	d2 Thread
	short term [N]	long term [N]	short term [N]	long term [N]				
GERM-04	650	325	500	250	4	8	4	M04
GERM-05	1200	600	900	450	5	12	6	M05
GERM-06	1400	700	1300	650	6	12	6	M06
GERM-08	2700	1350	2100	1050	8	16	8	M08
GERM-10	4700	2350	3000	1500	10	20	10	M10
GERM-10 F	4700	2350	3000	1500	10	20	10	M10 x 1,25
GERM-12	5700	2850	3500	1750	12	24	12	M12
GERM-12 F	5700	2850	3500	1750	12	24	12	M12 x 1,25
GERM-16	7500	3750	7000	3500	16	32	16	M16
GERM-16 F	7500	3750	7000	3500	16	32	16	M16 x 1,5

## igubal® Spring Loaded Pin – Type GEFM



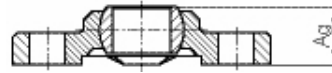
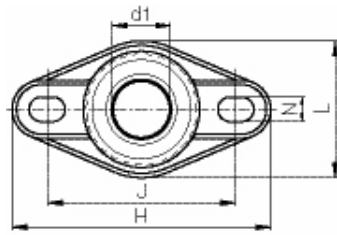
- Single piece design
- Easy to assemble
- Maintenance-free
- Can be used in combination with clevis joints
- High stability

10

### Dimensions [mm]

Part No.	d1	h1
GEFM-04	4	15
GEFM-05	5	23
GEFM-06	6	23
GEFM-08	8	30
GEFM-10	10	38
GEFM-12	12	45
GEFM-16	16	62

## igubal® Flange Bearing – Type EFOM

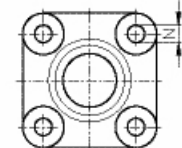
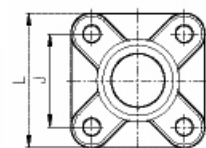
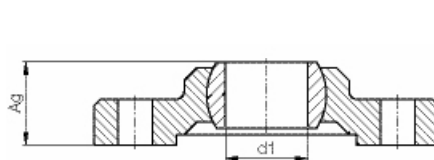


### Load Data

igubal® Flange Bearing EPOM with 2 mounting holes

Part No.	Max. axial permissible tensile strength long term [N]	Max. radial permissible tensile strength long term [N]	Max. torque for longitudinal holes [Nm]	d1 E10	H Size	L Width	J Hole Pitch +/-0.1	Ag Height Total	N Bore Diameter d x l
EFOM-04	200	375	0,6	4	33,8	16,0	24,0	8,5	3,2 x 5,0
EFOM-05	200	375	0,6	5	33,8	16,0	24,0	8,5	3,2 x 5,0
EFOM-06	250	400	0,6	6	33,8	16,0	24,0	8,5	3,2 x 5,5
EFOM-08	350	550	1,3	8	44,2	22,0	31,0	10,5	4,3 x 6,5
EFOM-10	425	1000	2,5	10	52,0	26,0	36,0	12,0	5,3 x 8,0
EFOM-12	550	1100	2,5	12	56,7	31,0	41,0	13,0	5,3 x 8,0
EFOM-15	650	1200	4,5	15	68,6	36,0	50,0	15,5	6,4 x 10,0
EFOM-16	700	1400	4,5	16	72,6	38,0	53,0	17,5	6,4 x 10,1
EFOM-17	900	1600	4,5	17	74,6	41,0	55,0	18,0	6,4 x 10,2
EFOM-20	900	2750	10,5	20	89,0	47,0	65,0	20,0	8,4 x 12,5
EFOM-25	1500	3000	10,5	25	101,0	58,5	75,0	25,0	8,4 x 12,6
EFOM-30	1750	3250	21,5	30	118,0	65,0	87,5	26,0	10,5 x 16,0

## igubal® Flange Bearing – Type EFSM

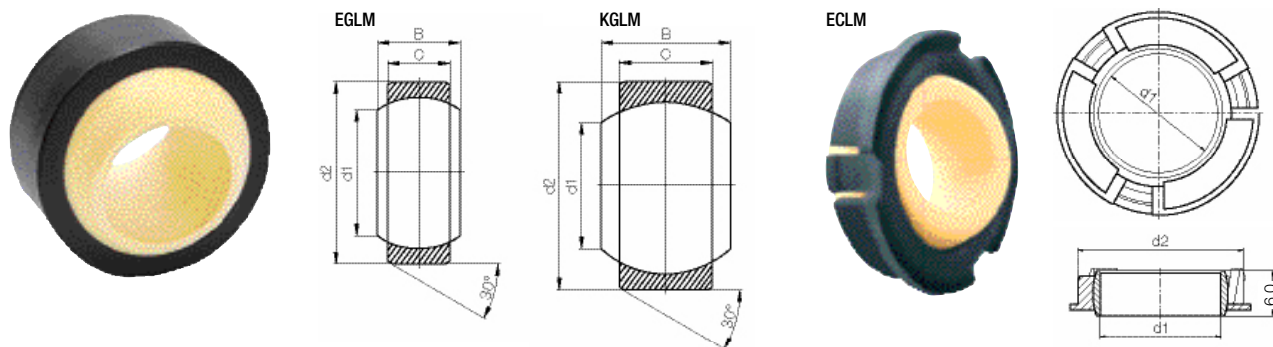


### Load Data

igubal® Flange Bearing EPOM with 4 mounting holes

Part No.	Max. axial permissible tensile strength long term [N]	Max. radial permissible tensile strength long term [N]	d1 E10	L Width	J Hole Pitch +/-0.1	Ag Height Total	N Bore Diameter d x l
EFSM-04	100	500	4	25,0	17,0	8,5	3,2
EFSM-05	150	500	5	25,0	17,0	8,5	3,2
EFSM-06	150	500	6	25,0	17,0	8,5	3,2
EFSM-08	225	700	8	33,0	22,0	10,5	4,3
EFSM-10	350	1000	10	38,0	26,0	12,0	5,3
EFSM-12	425	1250	12	40,0	28,0	13,0	5,3
EFSM-15	550	1500	15	49,0	34,0	15,5	6,4
EFSM-16	675	1600	16	52,0	36,0	16,5	6,4
EFSM-17	800	1700	17	54,0	38,0	18,0	6,4
EFSM-20	1000	2000	20	65,0	45,0	20,0	8,4
EFSM-25	1200	2800	25	74,0	52,0	25,0	8,4
EFSM-30	1400	3000	30	85,0	60,0	26,0	10,5

## igubal® Spherical Bearing – Type EGLM/KGLM/ECLM



Load data and dimensions (designed to press fit into H7 housing)

Part No.	Max. radial static comprehensive strength		d1 [mm] E10	d2 [mm]	B [mm]	C [mm]	Maximum Pivoting Angle
	radial [N]	axial [N]					
KGLM-02	300	60	2	8	4	3,0	32°
KGLM-03	530	150	3	10	6	4,5	32°
KGLM-05	1250	250	5	13	8	6,0	30°
KGLM-06	1750	400	6	16	9	6,5	29°
KGLM-08	2350	800	8	19	12	9,0	25°
KGLM-10	3550	900	10	22	14	10,5	25°
KGLM-12	4200	950	12	26	16	12,0	25°
KGLM-14	5700	1200	14	28	19	13,5	23°
KGLM-16	7500	1300	16	32	21	15,0	23°
KGLM-18	8500	1400	18	35	23	16,5	23°
KGLM-20	9800	1900	20	40	25	18,0	23°
KGLM-22	11700	2600	22	42	28	20,0	22°
KGLM-25	13600	3000	25	47	31	22,0	22°
KGLM-30	20000	3250	30	55	37	25,0	22°

Load data and dimensions (designed to press fit into H7 housing)

Part No.	Max. radial static comprehensive strength		d1 [mm] E10	d2 [mm]	B [mm]	C [mm]	Maximum Pivoting Angle
	radial [N]	axial [N]					
EGLM-04	600	50	4	12	5	3,0	37°
EGLM-05	950	100	5	14	6	4,0	33°
EGLM-06	1050	125	6	14	6	4,0	27°
EGLM-08	1350	175	8	16	8	5,0	24°
EGLM-10	2000	300	10	19	9	6,0	24°
EGLM-12	2250	450	12	22	10	7,0	21°
EGLM-15	3450	500	15	26	12	9,0	21°
EGLM-16	3900	600	16	28	13	9,5	21°
EGLM-17	4100	700	17	30	14	10,0	21°
EGLM-20	5350	1200	20	35	16	12,0	18°
EGLM-25	8200	1750	25	42	20	16,0	16°
EGLM-30	11000	2500	30	47	22	18,0	13°

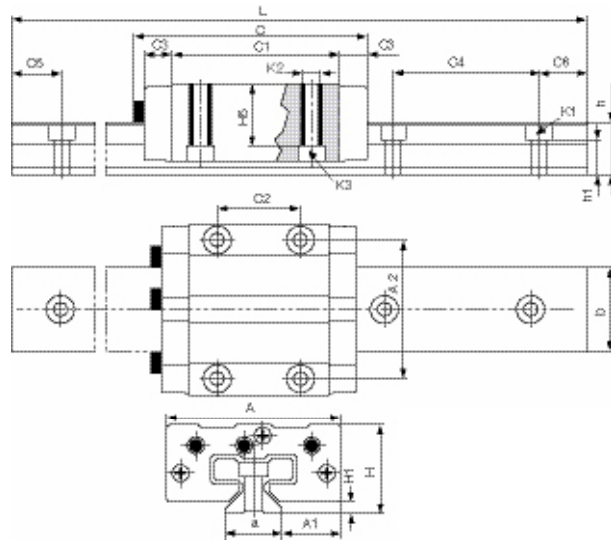
Load data and dimensions (designed to clip into sheet metal)

Part No.	Maximum Static comprehensive force (long term)		Spherical ball Ø d1	Outside Diameter		Sheet Thickness [mm]	Maximum Angles Alpha
	radial [N]	axial [N]		d1	d2		
ECLM-05-02	350	12,5	5	12	12,5	2	10°
ECLM-06-02	350	12,5	6	12	12	2	10°
ECLM-08-02	500	12,5	8	14	14	2	10°
ECLM-10-03	700	7	10	16	16	3	12°
ECLM-12-03	900	10	12	18	18	3	12°
ECLM-16-03	1400	20	16	22	22	3	12°

## DryLin® T – Adjustable clearance – TK-01...



- Slide carriage with adjustable clearance
- Maintenance-free, dry operation
- Resistant to corrosion
- Hard anodized aluminium rails



### DryLin® T Guide Rails [mm]

Part No.	Weight [Kg]	L*	a -0.2	C4	C5/C6	h	h1	K1 for screw	b
TS-01-15-300	0,18	300	15	60	30	15,5	10,0	M 4	22
TS-01-15-600	0,36	600	15	60	30	15,5	10,0	M 4	22
TS-01-15-1000	0,6	1000	15	60	20	15,5	10,0	M 4	22
TS-01-20-300	0,3	300	20	60	30	19,0	12,3	M 5	31
TS-01-20-600	0,6	600	20	60	30	19,0	12,3	M 5	31
TS-01-20-1000	1,0	1000	20	60	20	19,0	12,3	M 5	31
TS-01-25-300	0,4	300	23	60	30	21,5	13,8	M 6	34
TS-01-25-600	0,8	600	23	60	30	21,5	13,8	M 6	34
TS-01-25-1000	1,3	1000	23	60	20	21,5	13,8	M 6	34
TS-01-30-300	0,6	300	28	80	30	26,0	15,8	M 8	40
TS-01-30-600	1,2	600	28	80	20	26,0	15,8	M 8	40
TS-01-30-1000	1,9	1000	28	80	20	26,0	15,8	M 8	40

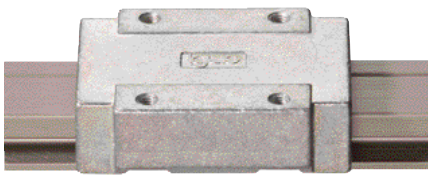
\*Lengths up to 4000mm available.

### DryLin® T Guide Carriages [mm]

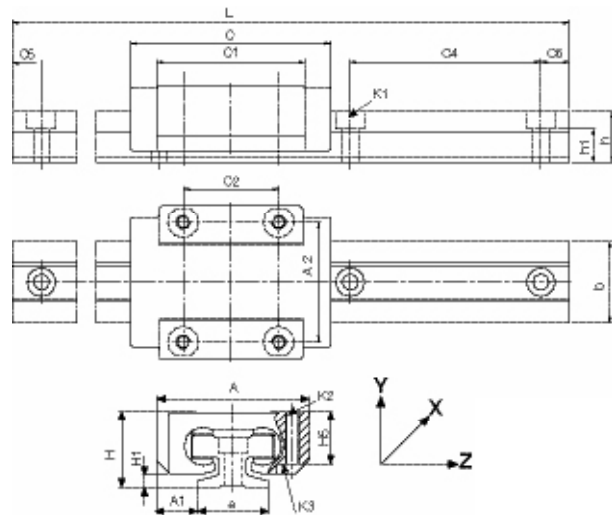
Part No.	Weight [Kg]	H ±0.35	A	C	A1 ±0.35	A2	C1	C2	C3	H1 ±0.35	H5	K2 Thread	K3 Screw DIN 912
TW-01-15	0,11	24	47	74	16,0	38	50	30	9	4,0	16,0	M 5	M 4
TW-01-20	0,19	30	63	87	21,5	53	61	40	10	5,0	19,8	M 6	M 5
TW-01-25	0,29	36	70	96	23,5	57	68	45	11	5,0	24,8	M 8	M 6
TW-01-30	0,50	42	90	109	31,0	72	79	52	12	6,5	27,0	M 10	M 8

**All bearings are dimensionally interchangeable with recirculating ball guides and ball bushings.**

## DryLin® T – Miniature – TK-04...



- Maintenance-free, dry operation
- 3 sizes
- Chromed zinc cast slide carriage
- iglidur® J polymer sliding elements
- Hard anodized aluminium rails
- Small mounting height and width
- Resistant to corrosion



### DryLin® Miniature Rails [mm]

Part No.	Weight [Kg]	L*	a -0.2	C4	C5/C6	h	h1	K1 for screw	b
TS-04-09-300	0,03	300	9	20	10	6,3	4,6	M 2	9,6
TS-04-09-600	0,06	600	9	20	10	6,3	4,6	M 2	9,6
TS-04-09-1000	0,11	1000	9	20	10	6,3	4,6	M 2	9,6
TS-04-12-300	0,06	300	12	25	12,5	8,6	5,9	M 3	13
TS-04-12-600	0,12	600	12	25	12,5	8,6	5,9	M 3	13
TS-04-12-1000	0,20	1000	12	25	12,5	8,6	5,9	M 3	13
TS-04-15-300	0,1	300	15	40	10	10,8	7,0	M 3	17
TS-04-15-600	0,2	600	15	40	20	10,8	7,0	M 3	17
TS-04-15-1000	0,33	1000	15	40	20	10,8	7,0	M 3	17

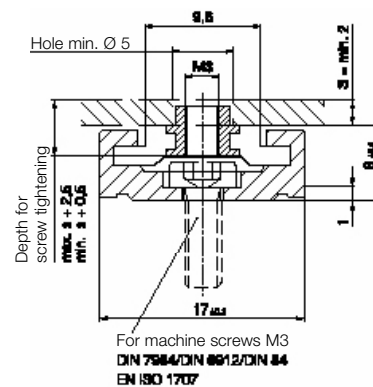
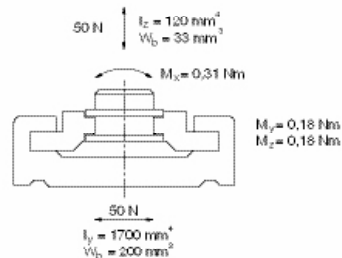
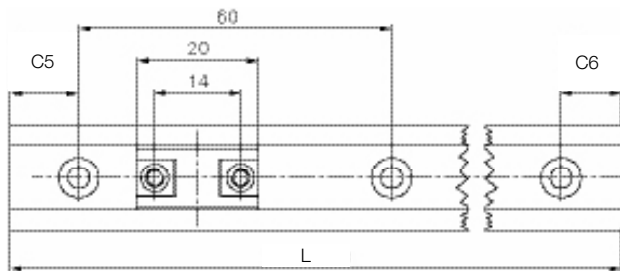
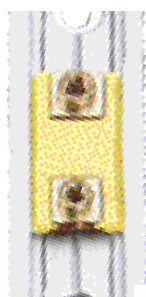
\*Maximum length TS-04-09 2000mm, TS-04-12 2000mm & TS-04-15 3000mm

### DryLin® T Guide Carriages [mm]

Part No.	Weight [Kg]	H ±0.2	A -0.2	C ±0.3	A1 ±0.35	A2	C1	C2	H1 ±0.35	H5	K2 Thread	K3 Screw DIN 912
TW-04-09	17	10	20	29	5,5	15	18	13	1,7	7,2	M 2	(M 2)
TW-04-12	34	13	27	34	7,5	20	22	15	2,2	9,5	M 3	M 2 (M 3)
TW-04-15	61	16	32	42	8,5	25	31	20	2,8	11	M 3	M 2 (M 3)

**All bearings are dimensionally interchangeable with recirculating ball guides and ball bushings.**

## DryLin® N – Low-Profile Linear Guide N17



### DryLin® N - Low-Profile Rails

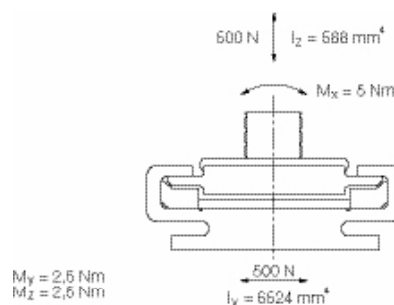
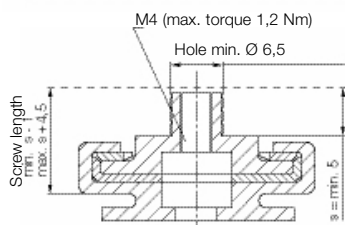
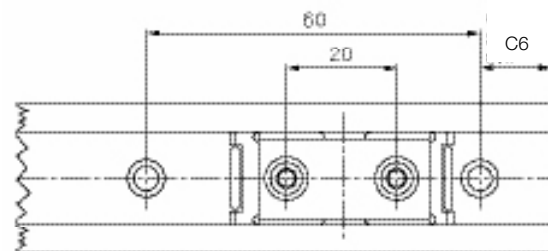
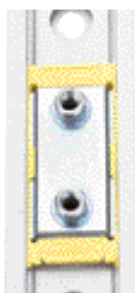
Part No.	L*	Weight	C5/C6
Rail	[mm]	[g]	[mm]
NS-01-17-300	300	45	5
NS-01-17-600	600	90	5
NS-01-17-1000	1000	150	5

\*Lengths up to 3000mm available.

### DryLin® N - Low-Profile Carriage

Part No.	Weight
Carriage	[g]
NW-02-17	1.7

## DryLin® N – Low-Profile Linear Guide N27



### DryLin® N - Low-Profile Rails

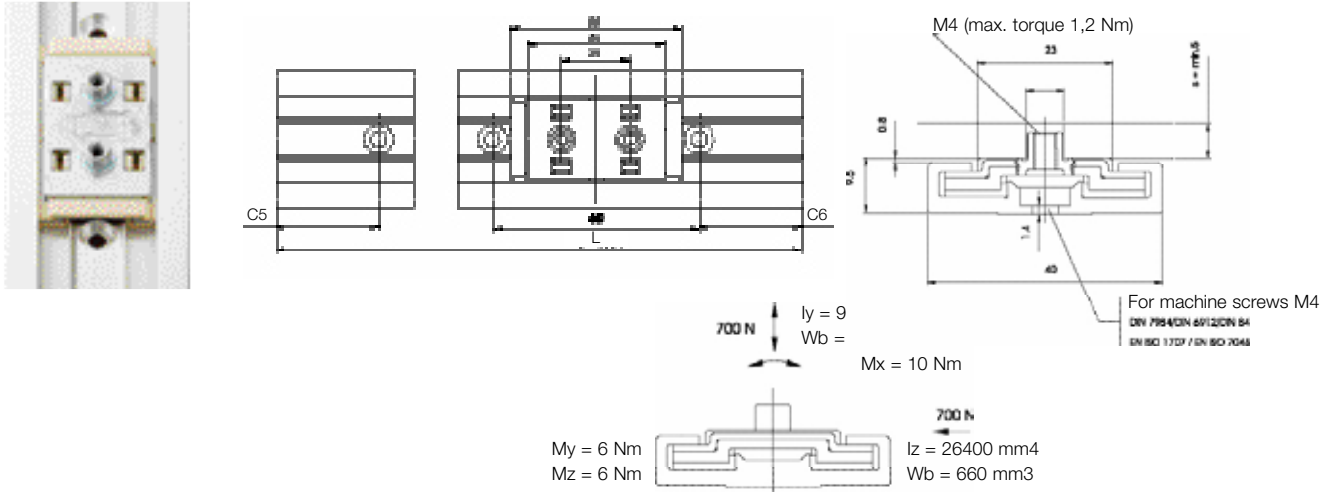
Part No.	L*	Weight	C5/C6
Rail	[mm]	[g]	[mm]
NS-01-27-300	300	87	30
NS-01-27-600	600	174	30
NS-01-27-1000	1000	290	20

\*Lengths up to 3000mm available.

### DryLin® N - Low-Profile Carriage

Part No.	Weight
Carriage	[g]
NW-02-27	1.25

## DryLin® N – Low-Profile Linear Guide N40



### DryLin® N - Low-Profile Rails

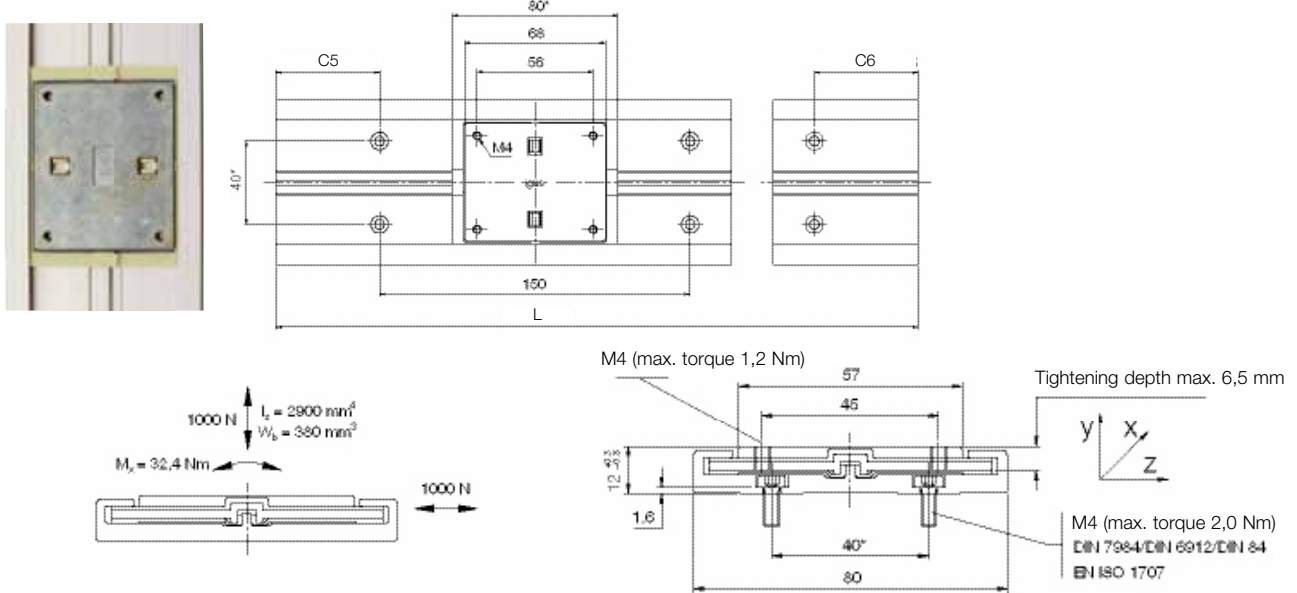
Part No.	L*	Weight	C5/C6
Rail	[mm]	[g]	[mm]
NS-01-40-300	300	135	30
NS-01-40-600	600	270	30
NS-01-40-1000	1000	450	20

\*Lengths up to 3000mm available.

### DryLin® N - Low-Profile Carriage

Part No.	Weight
Carriage	[g]
NW-02-40	30

## DryLin® N – Low-Profile Linear Guide N80



### DryLin® N - Low-Profile Rails

Part No.	L*	Weight	C5/C6
Rail	[mm]	[g]	[mm]
NS-01-80-300	300	342	75
NS-01-80-600	600	664	75
NS-01-80-1000	1000	1140	50

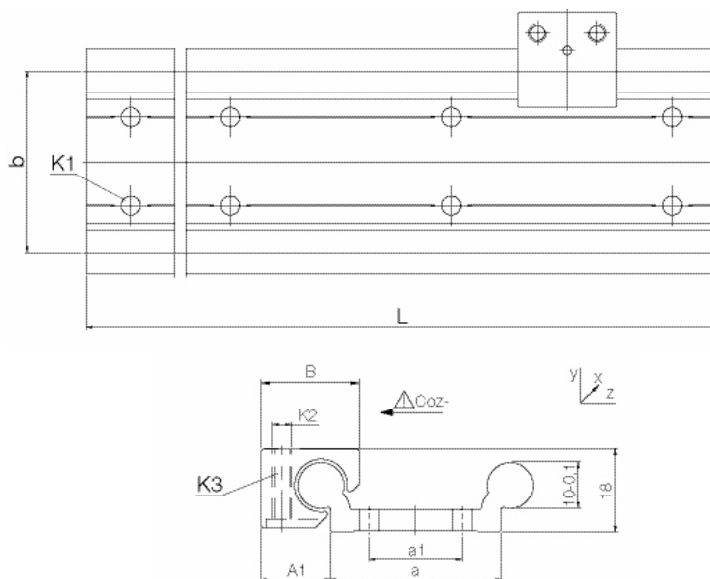
\*Lengths up to 4000mm available.

### DryLin® N - Low-Profile Carriage

Part No.	Weight
Carriage	[g]
NW-02-80	100

10

## DryLin® W – Flexible Linear Guide System



### DryLin® W Guide Rails [mm]

Part No.	Weight [Kg/metre]	L* Max. [mm]	a -0.3 [mm]	b [mm]	A1 [mm]	a1 [mm]
WS-10	0.62	4000	27	–	16.5	**
WS-16	0.98	4000	27	–	25.0	**
WS-20	1.32	4000	27	–	30.0	**
WS-10-40	1.00	4000	40	40	16.5	**
WS-10-80	1.50	4000	74	74	16.5	40
WS-16-60	1.96	4000	54	58	25.0	**
WS-20-80	3.30	4000	74	82	30.0	40

\*Any length available, please call us.

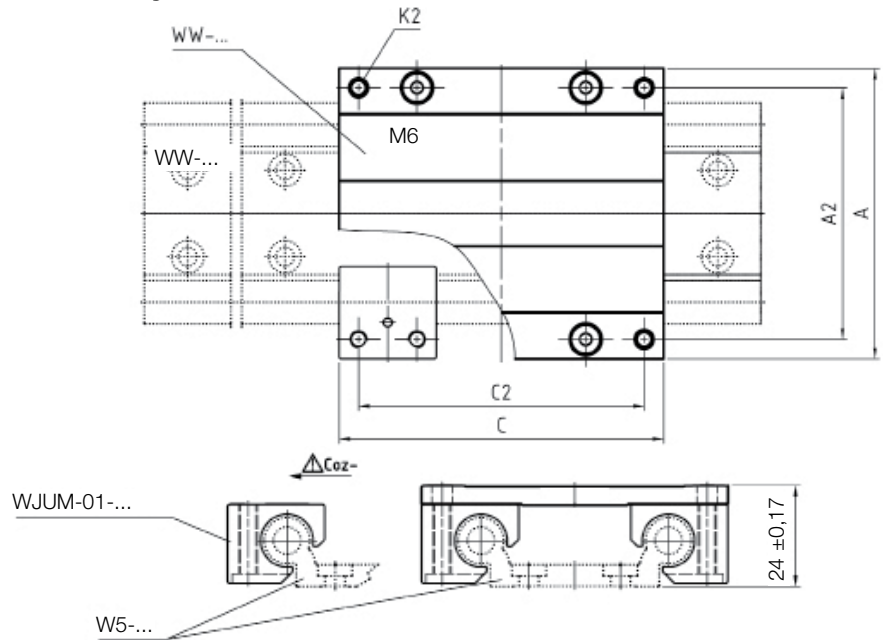
### DryLin® W Single Bearing Blocks

Part No.	Weight ±0.07 [g]	B [mm]	C1 [mm]	C3 [mm]	K1 [mm]	K2 [mm]	K3 [mm]	Stat Load Capacity		
								Co <sub>y</sub> [N]	Co <sub>z+</sub> [N]	Co <sub>z-</sub> [N]
VJ200-01-10	41	26	29	16	M6	M6	M5	1200	1200	250
VJ200-01-16	100	34.5	36	18	–	M8	M6	2100	2100	400
VJ200-01-20	190	42.5	45	27	–	M8	M6	3200	3200	500

Floating bearing style (LL) also available.



# DryLin® W – Flexible Linear Guide System

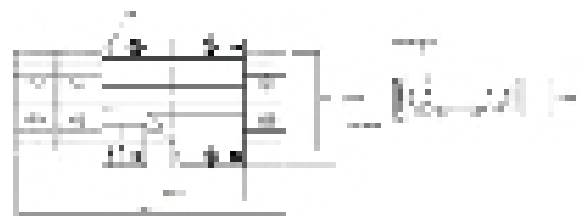


## DryLin® W plates fitted with bearing blocks

Part No.	Suitable Rail	A [mm]	C [mm]	A2 [mm]	C2 [mm]	Stat. Load Capacity	
						Copy [N]	Coz [N]
WW-10-40-10	[WS-10-40]	73	100	60	87	4800	4800
WW-10-40-15	[WS-10-40]	73	150	60	137	4800	4800
WW-10-40-20	[WS-10-40]	73	200	60	187	4800	4800
WW-10-80-10	[WS-10-80]	107	100	94	87	4800	4800
WW-10-80-15	[WS-10-80]	107	150	94	137	4800	4800
WW-10-80-20	[WS-10-80]	107	200	94	187	4800	4800
WW-16-60-10	[WS-16-60]	104	100	86	82	8400	8400
WW-16-60-15	[WS-16-60]	104	150	86	132	8400	8400
WW-16-60-20	[WS-16-60]	104	200	86	182	8400	8400
WW-20-80-15	[WS-20-80]	134	150	116	132	12800	12800
WW-20-80-20	[WS-20-80]	134	200	116	182	12800	12800
WW-20-80-25	[WS-20-80]	134	250	116	232	12800	12800

Example: If you require a 1 metre long system with an 80mm wide plate, 200mm long fitted with bearings then you need to order:  
 1 off WS-10-80-1000 (rail)  
 1 off WW-10-80-20 (carriage plate)

## DryLin W Camera Set WK-16-60-10-01-1000



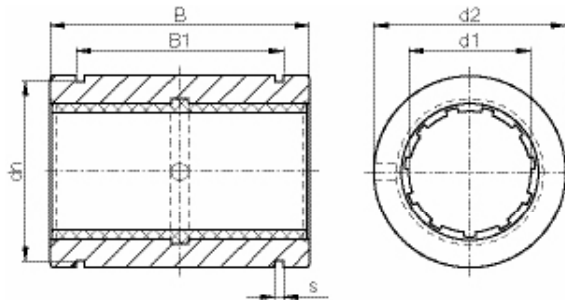
Includes:

- 1 metre of rail, (WS-16-60)
- 1 x 100mm carriage c/w 4 bearing blocks (WW-16-60-10)

Optional Extras

- Longer rail /100mm
- Longer carriage
- 150mm: WW-16-60-15
- 200mm: WW-16-60-20
- Manual Clamp WHKA-16
- (Clamp requires the 150 or 200mm carriage)

## DryLin® R – Liner Plain Bearing RJUM-01, mm



### Special properties

- Closed, anodized aluminium adapter
- Dimension equivalent to the standard for recirculating ball bearings
- Fitted with JUM-01 liner made of iglidur® J
- Recommended housing bore H7
- Recommended tolerance for the shaft: h6–h10 (see igus® shafts p. 1.30)
- Secured by DIN 471 or 472 circlips (not included in delivery)

### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa	pmax. [N] Static Load P = 5 MPa	Weight [g]
RJZM-01-08**	0,032 - 0,070	960	6720	9
RJUM-01-10	0,030 - 0,088	725	5075	14
RJUM-01-12	0,030 - 0,088	960	6720	21
RJUM-01-16	0,030 - 0,088	1440	10080	28
RJUM-01-20	0,030 - 0,091	2250	15750	49
RJUM-01-25	0,030 - 0,091	3625	25375	108
RJUM-01-30	0,040 - 0,110	5100	35700	162
RJUM-01-40	0,040 - 0,115	8000	56000	334
RJUM-01-50	0,050 - 0,130	12500	87500	579

### Dimensions [mm]

Part No.	d1 [mm]	d2 [mm]	B [mm]	B1 [mm]	s [mm]	dn [mm]
		h7	h10	H10	H10	h10
RJZM-01-08**	8	16	25	16,2	1,10	15,2
RJUM-01-10	10	19	29	21,6	1,30	17,5
RJUM-01-12	12	22	32	22,6	1,30	20,5
RJUM-01-16	16	26	36	24,6	1,30	24,2
RJUM-01-20	20	32	45	31,2	1,60	29,6
RJUM-01-25	25	40	58	43,7	1,85	36,5
RJUM-01-30	30	47	68	51,7	1,85	43,5
RJUM-01-40	40	62	80	60,3	2,15	57,8
RJUM-01-50	50	75	100	77,3	2,65	70,5

\*\*Nominal diameter under 10 mm are delivered with pressfit sleeve plain bearings

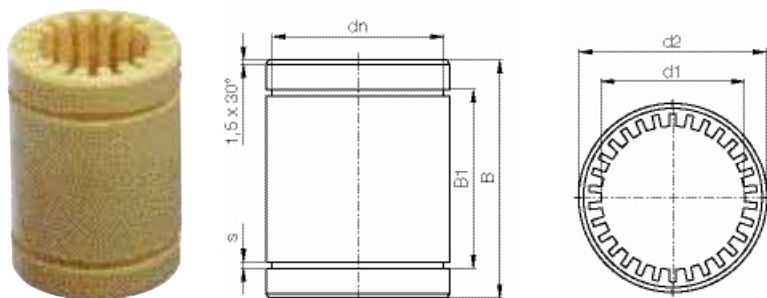


► Use aluminium shafts see page 398

### Design Tip:

If you are using two parallel shafts,  
fit one shaft with self aligning bearings (page 389)  
to avoid misalignment problems.

## DryLin® R – Solid Plastic Bearing RJM-01, mm



### Special properties

- Plain bearing made from iglidur® J (further information about iglidur® J in ► Page 294)
- Dimensions correspond to the standard for recirculating ball bearings
- Recommended housing bore (d2) H7
- Assembly by pressfitting
- Recommended tolerance for the shaft: h6-h10 (see igus® shafts p. 30)
- Secured by DIN 471 or 472 circlips (not included in delivery)

### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* for d1 E9	pmax. [N]	pmax. [N]	Weight [g]
		Dynamic Load P = 2.5 MPa	Static Load P = 17.5 MPa	
RJM-01-08	0,025 - 0,061	250	1750	4
RJM-01-10	0,032 - 0,075	363	2538	7
RJM-01-12	0,032 - 0,075	480	3360	9
RJM-01-16	0,032 - 0,075	720	5040	13
RJM-01-20	0,040 - 0,092	1125	7875	24
RJM-01-25	0,040 - 0,092	1813	12688	47
RJM-01-30	0,040 - 0,092	2550	17850	72
RJM-01-40	0,050 - 0,112	4000	28000	127
RJM-01-50	0,060 - 0,134	6250	43750	242

### Dimensions [mm]

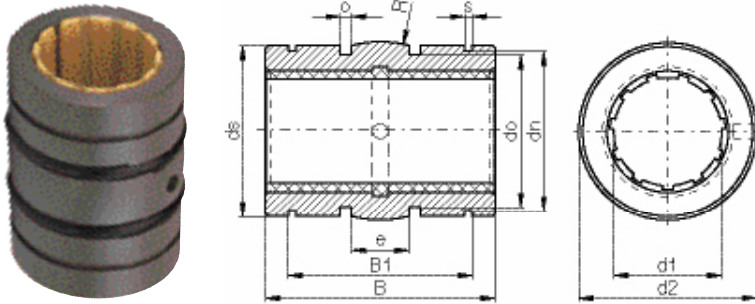
Part No.	d1 [mm]	d2 [mm]	B [mm]	B1 [mm]	s [mm]	dn [mm]
RJM-01-08	8	16	25	16,2	1,10	15,2
RJM-01-10	10	19	29	21,6	1,30	17,5
RJM-01-12	12	22	32	22,6	1,30	20,5
RJM-01-16	16	26	36	24,6	1,30	24,2
RJM-01-20	20	32	45	31,2	1,60	29,6
RJM-01-25	25	40	58	43,7	1,85	36,5
RJM-01-30	30	47	68	51,7	1,85	43,5
RJM-01-40	40	62	80	60,3	2,15	57,8
RJM-01-50	50	75	100	77,3	2,65	70,5

\*\*Nominal diameter under 10 mm are delivered with pressfit sleeve plain bearings



► Use aluminium shafts see page 398

## DryLin® R – Self Aligning Linear Plain Bearing RJUM-03, mm



### Special properties

- Closed aluminium adapter with reduced outer diameter, spherical area on the outer diameter, O-rings for elastic seating and hard anodized surface
- Dimensions otherwise equivalent to the standard for recirculating ball bearings
- Fitted with JUM-01 liner made of iglidur® J
- Recommended housing bore H7
- Recommended tolerance for the shaft: h6–h10 (see igus® shafts p. 30)
- Secured by DIN 471 or 472 circlips (not included in delivery)



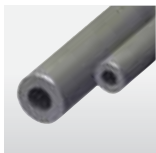
### Inner Diameter, Load Capacity and Weight

Part No.	Housing-Bore, Ø H7 [mm]	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa	pmax. [N] Static Load P = 35 MPa	Weight [g]
RJZM-03-08**	16	0,032 - 0,070	960	6720	8
RJUM-03-10	19	0,030 - 0,088	725	5075	11
RJUM-03-12	22	0,030 - 0,088	960	6720	17
RJUM-03-16	26	0,030 - 0,088	1440	10080	23
RJUM-03-20	32	0,030 - 0,091	2250	15750	44
RJUM-03-25	40	0,030 - 0,091	3625	25375	92
RJUM-03-30	47	0,040 - 0,110	5100	35700	145
RJUM-03-40	62	0,040 - 0,115	8000	56000	311
RJUM-03-50	75	0,050 - 0,130	12500	87500	542

### Dimensions [mm]

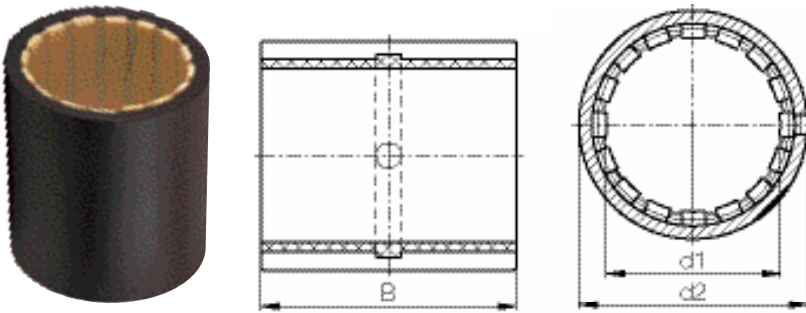
Part No.	d1 [mm]	d2 [mm]	B [mm]	B1 [mm]	s [mm]	dn [mm]	ds [mm]	do [mm]	o [mm]	e [mm]	R [mm]
		h8	h10	H10	H10	h10	h10	h10	+0.1		
RJZM-03-08**	8	15,8	24,9	16,4	1,10	15,0	15,5	13,2	1,86	5,0	20,0
RJUM-03-10	10	18,8	28,9	21,8	1,30	17,5	18,5	15,4	1,86	5,0	13,0
RJUM-03-12	12	21,8	31,9	22,8	1,30	20,5	21,5	18,4	1,86	6,0	18,0
RJUM-03-16	16	25,8	35,9	24,9	1,30	24,2	25,5	20,4	2,86	8,0	32,0
RJUM-03-20	20	31,8	44,8	31,5	1,60	29,6	31,5	26,4	2,86	10,0	50,0
RJUM-03-25	25	39,8	57,8	44,1	1,85	36,5	39,5	34,4	2,86	12,5	39,0
RJUM-03-30	30	46,7	67,8	52,1	1,85	43,5	46,0	41,4	2,86	15,0	57,0
RJUM-03-40	40	61,7	79,8	60,9	2,15	57,8	61,0	56,4	2,86	20,0	100,0
RJUM-03-50	50	74,7	99,8	78,0	2,65	70,5	74,0	69,4	2,86	25,0	157,0

\*\*Nominal diameter under 10 mm are delivered with pressfit sleeve plain bearings



► Use aluminium shafts see page 398

# DryLin® R – Linear Plain Bearing RJUM-02, mm



### Special properties

- Compact dimensions
- Closed, anodized aluminium adapter
- Dimensions equivalent to the standard for recirculating ball bearings
- Fitted with JUM-02 liners made of iglidur® J
- Recommended tolerance for the shaft: h6-h10 (see igus® shafts p. ??)
- Secured by pressfitting in steel housing bore H7 or aluminium housing bore K7

• \* According to igus® testing method



### Inner Diameter, Load Capacity and Weight

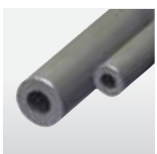
Part No.	Housing-Bore, Ø H7/K7 [mm]	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa	pmax. [N] Static Load P = 35 MPa
RJZM-02-08**	15	0,032 - 0,070	650	4550
RJUM-02-10	17	0,030 - 0,088	650	4550
RJUM-02-12	19	0,030 - 0,088	840	5880
RJUM-02-16	24	0,030 - 0,088	1200	8400
RJUM-02-20	28	0,030 - 0,091	1500	10500
RJUM-02-25	35	0,030 - 0,091	2500	17500
RJUM-02-30	40	0,040 - 0,110	3750	26250
RJUM-02-40	52	0,040 - 0,115	6000	42000
RJUM-02-50	62	0,050 - 0,130	8750	61250

### Dimensions [mm]

Part No.	Weight [g]	d1 [mm]	d2 [mm]	B [mm]
RJZM-02-08**	6	8	15	24
RJUM-02-10	8	10	17	26
RJUM-02-12	10	12	19	28
RJUM-02-16	17	16	24	30
RJUM-02-20	18	20	28	30
RJUM-02-25	42	25	35	40
RJUM-02-30	56	30	40	50
RJUM-02-40	113	40	52	60
RJUM-02-50	147	50	62	70

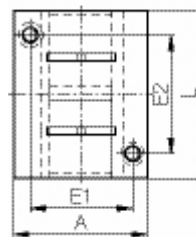
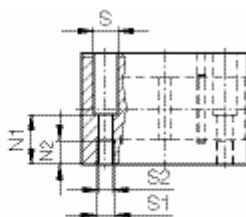
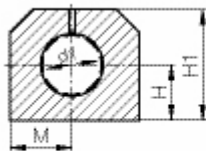
\*\*Nominal diameter under 10 mm are delivered with pressfit sleeve plain bearings

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► Use aluminium shafts see page 398

# DryLin® R – Tandem Housing Bearing RJUMT-05, mm



### Special properties

- Tandem type of design
- Closed, anodized aluminium housing, long design
- 2 liners JUM-02 made of iglidur® J
- Recommended tolerance for the shaft: h6–h10 (see igus® shafts p. ??)

• \* According to igus® testing method



### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa	pmax. [N] Static Load P = 35 MPa	Weight [kg]
RJUMT-05-12	0,03-0,088	840	5880	0,17
RJUMT-05-16	0,03-0,088	1200	8400	0,25
RJUMT-05-20	0,03-0,091	1500	10500	0,30
RJUMT-05-25	0,03-0,091	2500	17500	0,55
RJUMT-05-30	0,04-0,110	3750	26250	0,75
RJUMT-05-40	0,04-0,115	6000	42000	1,50
RJUMT-05-50	0,05-0,130	8750	61250	2,40

### Dimensions [mm]

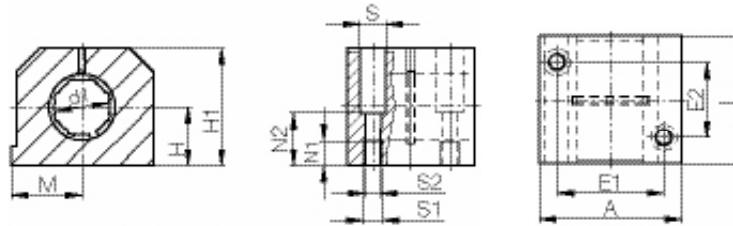
Part No.	d1 [mm]	H [mm] +0.01 -0.014	H1 [mm]	A [mm]	M [mm]	E1 [mm] ± 0.15	E2 [mm] ± 0.15	S [mm]	S1	S2 [mm]	N1 [mm]	N2 [mm]	L [mm]
RJUMT-05-12	12	17	33	40	20	29	35	8,0	M 5	4,3	16,0	11	60
RJUMT-05-16	16	19	38	45	22,5	34	40	8,0	M 5	4,3	18,0	11	65
RJUMT-05-20	20	23	45	53	26,5	40	45	9,5	M 6	5,3	22,0	13	65
RJUMT-05-25	25	27	54	62	31	48	55	11,0	M 8	6,6	26,0	18	85
RJUMT-05-30	30	30	60	67	33,5	53	70	11,0	M 8	6,6	29,0	18	105
RJUMT-05-40	40	39	76	87	43,5	69	85	15,0	M 10	8,4	38,0	22	125
RJUMT-05-50	50	47	92	103	51,5	82	100	18,0	M 12	10,5	46,0	26	145



► Use aluminium shafts see page 398

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# DryLin® R – Standard Pillow Block RJUM-06, mm



### Special properties

- Closed, anodized aluminium housing, long version
- Liner JUM-01 made of iglidur® J is contained as standard
- Recommended tolerance for the shaft: h6–h10 (see igus® shafts p. ??)

\* According to igus® testing method



### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa	pmax. [N] Static Load P = 35 MPa	Weight [kg]
RJUM-06-12	0,030 - 0,088	960	6720	0,121
RJUM-06-16	0,030 - 0,088	1440	10080	0,211
RJUM-06-20	0,030 - 0,091	2250	15750	0,323
RJUM-06-25	0,030 - 0,091	3625	25375	0,651
RJUM-06-30	0,040 - 0,110	5100	35700	1,050
RJUM-06-40	0,040 - 0,115	8000	56000	1,820
RJUM-06-50	0,050 - 0,130	12500	87500	3,250

### Dimensions [mm]

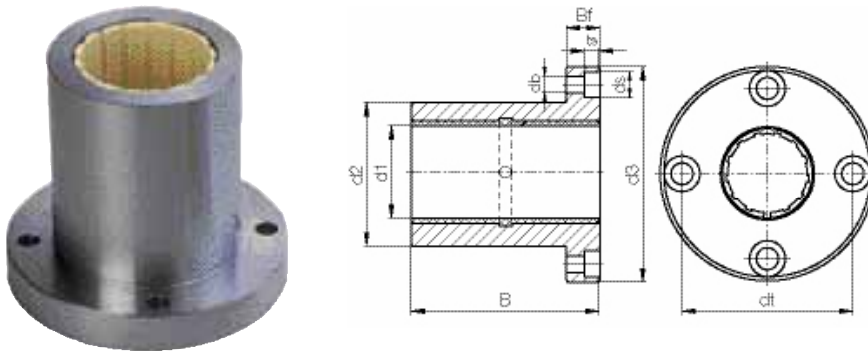
Part No.	d1 [mm]	H [mm]	H1 [mm]	A [mm]	M [mm]	E1 [mm]	E2 [mm]	S [mm]	S1	S2 [mm]	N1 [mm]	N2 [mm]	L [mm]
		+0.01 -0.014				± 0.15	± 0.15						
RJUM-06-12	12	18	35	43	21,5	32	23	8,0	M 5	4,3	16,5	11	39
RJUM-06-16	16	22	42	53	26,5	40	26	10,0	M 6	5,3	21,0	13	43
RJUM-06-20	20	25	50	60	30,0	45	32	11,0	M 8	6,6	24,0	18	54
RJUM-06-25	25	30	60	78	39,0	60	40	15,0	M10	8,4	29,0	22	67
RJUM-06-30	30	35	70	87	43,5	68	45	15,0	M10	8,4	34,0	22	79
RJUM-06-40	40	45	90	108	54,0	86	58	18,0	M12	10,5	44,0	26	91
RJUM-06-50	50	50	105	132	66,0	108	50	20,0	M16	13,5	49,0	34	113

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► Use aluminium shafts see page 398

## DryLin® R – Round Flange FJUM-01, mm



### Special properties

- Flange pillow block made of anodized aluminium, round flange
- Liner JUM-01 made of iglidur® J is fitted as standard
- Recommended tolerance for the shaft: h6–h10 (see igus® shafts p. ??)

- \* According to igus® testing method



- \*\*Nominal diameter under 10 mm are delivered with pressfit sleeve bearings

### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* Bearing Inner Diameter [mm]	p <sub>max.</sub> [N] Dynamic Load P = 5 MPa	p <sub>max.</sub> [N] Static Load P = 35 MPa	Weight [kg]
FJZM-01-08**	0,032 - 0,070	960	6720	20
FJUM-01-10	0,030 - 0,088	725	5075	32
FJUM-01-12	0,030 - 0,088	960	6720	42
FJUM-01-16	0,030 - 0,088	1440	10080	51
FJUM-01-20	0,030 - 0,091	2250	15750	88
FJUM-01-25	0,030 - 0,091	3625	25375	152
FJUM-01-30	0,040 - 0,110	5100	35700	266
FJUM-01-40	0,040 - 0,115	8000	56000	552
FJUM-01-50	0,050 - 0,130	12500	87500	853

### Dimensions [mm]

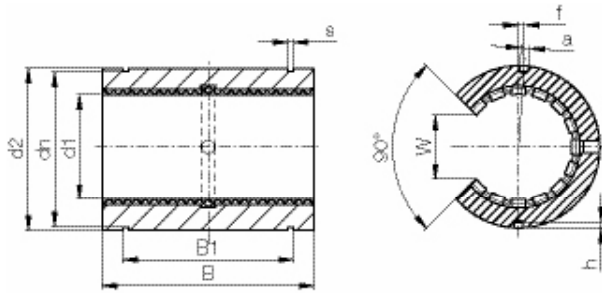
Part No.	d1 [mm]	d2 [mm]	dt [mm]	d3 [mm]	B [mm]	Bf [mm]	ts [mm]	db [mm]	ds [mm]
		h7				± 0.15	± 0.15		
FJZM-01-08**	8	16	24	32	25	8	3,1	3,5	6,0
FJUM-01-10	10	19	29	39	29	9	4,1	4,5	7,5
FJUM-01-12	12	22	32	42	32	9	4,1	4,5	7,5
FJUM-01-16	16	26	36	46	36	9	4,1	4,5	7,5
FJUM-01-20	20	32	43	54	45	11	5,1	5,5	9,0
FJUM-01-25	25	40	51	62	58	11	5,1	5,5	9,0
FJUM-01-30	30	47	62	76	68	14	6,1	6,6	11,0
FJUM-01-40	40	62	80	98	80	18	8,1	9,0	14,0
FJUM-01-50	50	75	94	112	100	18	8,1	9,0	14,0

\*\*Nominal diameter under 10 mm are delivered with pressfit sleeve bearings

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► Use aluminium shafts see page 398

# DryLin® R – Linear Plain Bearing OJUM-01, mm

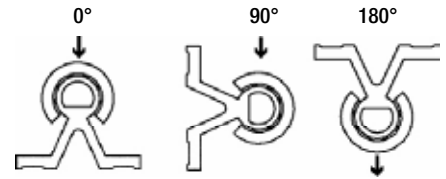


• \* According to igus® testing method



### Special properties

- Open, anodized aluminium adapter for supported shafts
- Dimensions equivalent to the standard for recirculating ball bearings
- Fitted with JUMO-01 liner made of iglidur® J
- Recommended housing bore H7
- Recommended tolerance for the shaft: h6–h10 (see igus® supported shafts p. 32)
- Secure the bearing with set screws (not included in the delivery)



### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa			pmax. [N] Static Load P = 35 MPa			Weight [kg]
		0°	90°	180°	0°	90°	180°	
		OJUM-01-10	0,030 - 0,088	725	500	196	5075	
OJUM-01-12	0,030 - 0,088	960	635	240	6720	4445	1680	15
OJUM-01-16	0,030 - 0,088	1440	990	396	10080	6943	2772	21
OJUM-01-20	0,030 - 0,091	2250	1800	900	15750	12600	6300	42
OJUM-01-25	0,030 - 0,091	3625	2953	1523	25375	20670	10658	70
OJUM-01-30	0,040 - 0,110	5100	4250	2278	35700	29735	15946	132
OJUM-01-40	0,040 - 0,115	8000	6810	3800	56000	47660	26660	278
OJUM-01-50	0,050 - 0,130	12500	10750	6125	87500	75265	42875	479

### Dimensions [mm]

Part No.	d1 [mm]	d2 [mm]	B [mm]	W [mm]	a [mm]	dn [mm]	B1 [mm]	s [mm]	t [mm]	h [mm]
		h7	h10	-1	+0.1	h10	H10	H10	±0.2	-0.5
OJUM-01-10	10	19	29	7,3	0,0	17,5	21,6	1,30	0	1,2
OJUM-01-12	12	22	32	9,0	3,0	20,5	22,6	1,30	1,33 (7°)	1,2
OJUM-01-16	16	26	36	11,6	2,2	24,2	24,6	1,30	0	1,2
OJUM-01-20	20	32	45	12,0	2,2	29,6	31,2	1,60	0	1,2
OJUM-01-25	25	40	58	14,5	3,0	36,5	43,7	1,85	-1,5 (-4,3°)	1,5
OJUM-01-30	30	47	68	16,6	3,0	43,5	51,7	1,85	2 (4,9°)	2,0
OJUM-01-40	40	62	80	21,0	3,0	57,8	60,3	2,15	1,5 (2,8°)	2,0
OJUM-01-50	50	75	100	25,5	5,0	70,5	77,3	2,65	2,5 (3,8°)	2,0

\*\*Nominal diameter under 10 mm are delivered with pressfit sleeve bearings

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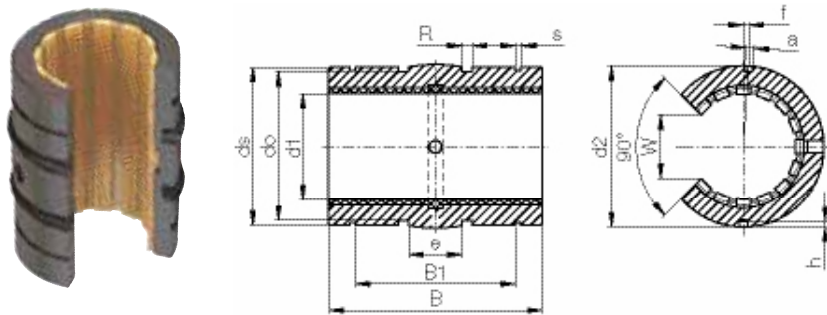


AWMU: ► Use aluminium shafts see page 400

### Design Tip:

If you are using two parallel shafts, fit one shaft with self aligning bearings (page ??) to avoid misalignment problems.

# DryLin® R – Self Aligning Linear Plain Bearing OJUM-03, mm

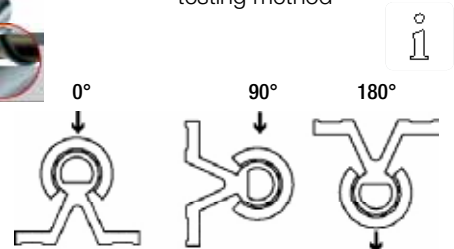


### Special properties

- Closed aluminium adapter with
  - reduced outer diameter
  - spherical area on the outer diameter
- For misalignment compensation
  - O-rings for elastic seating
  - hard anodized
- Dimensions correspond to the standard for recirculating ball bearings
- Fitted with JUMO-01 liner made of iglidur® J
- Recommended housing bore H7
- Recommended tolerance for the shaft: h6–h10 (see igus® supported shafts p. 32)
- Secured by set screws (not included in delivery)



\* According to igus® testing method



### Inner Diameter, Load Capacity and Weight

Part No.	Housing Bore Ø H7 [mm]	Tolerance * Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa			pmax. [N] Static Load P = 35 MPa			Weight [kg]
			0°	90°	180°	0°	90°	180°	
OJUM-03-10	19	0,030 - 0,088	725	500	196	5075	3500	1370	10
OJUM-03-12	22	0,030 - 0,088	960	635	240	6720	4445	1680	13
OJUM-03-16	26	0,030 - 0,088	1440	990	396	10080	6943	2772	19
OJUM-03-20	32	0,030 - 0,091	2250	1800	900	15750	12600	6300	38
OJUM-03-25	40	0,030 - 0,091	3625	2953	1523	25375	20670	10658	63
OJUM-03-30	47	0,040 - 0,110	5100	4250	2278	35700	29735	15946	119
OJUM-03-40	62	0,040 - 0,115	8000	6810	3800	56000	47660	26600	250
OJUM-03-50	75	0,050 - 0,130	12500	10750	6125	87500	75265	42875	431

### Dimensions [mm]

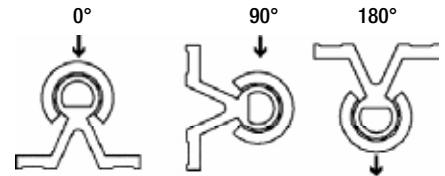
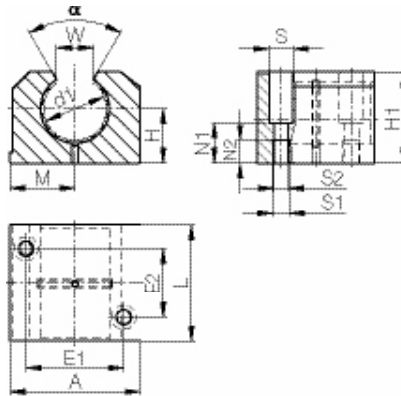
Part No.	d1	d2	ds	e	o	do	B1	s	B	R	W	a	f	h
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	± 0.2 [mm]	± 0.5 [mm]
OJUM-03-10	10	18,8	18,5	5,0	1,86	15,4	21,8	1,30	28,9	13,0	7,3	0,0	0	1,2
OJUM-03-12	12	21,8	21,5	6,0	1,86	18,4	22,8	1,30	31,9	18,0	9,0	3,0	1,33 (7°)	1,2
OJUM-03-16	16	25,8	25,5	8,0	2,86	20,4	24,9	1,30	35,9	32,0	11,6	2,2	0	1,2
OJUM-03-20	20	31,8	31,5	10,0	2,86	26,4	31,5	1,60	44,8	50,0	12,0	2,2	0	1,2
OJUM-03-25	25	39,8	39,0	12,5	2,86	34,4	44,1	1,85	57,8	39,0	14,5	3,0	-1,5 (-4,3°)	1,5
OJUM-03-30	30	46,7	46,0	15,0	2,86	41,4	52,1	1,85	67,8	57,0	16,6	3,0	2 (4,9°)	2
OJUM-03-40	40	61,7	61,0	20,0	2,86	56,4	60,9	2,15	79,8	100,0	21,0	3,0	1,5 (2,8°)	2
OJUM-03-50	50	74,7	74,0	25,0	2,86	69,4	78,0	2,65	99,8	157,0	25,5	5,0	2,5 (3,8°)	2



AWMU: ► Use aluminium shafts see page 400

# DryLin® R – Standard Pillow Block OJUM-06, mm

• \* According to igus® testing method



### Special properties

- Open pillow block made of anodized aluminium, for supported shafts
- Liner JUMO-01 made of iglidur® J is fitted as standard
- Recommended tolerance for the shaft: h6-h10 (see igus® supported shafts p. 32)

### Inner Diameter, Load Capacity and Weight

Part No.	Tolerance* Bearing Inner Diameter [mm]	pmax. [N] Dynamic Load P = 5 MPa			pmax. [N] Static Load P = 35 MPa			Weight [kg]
		0°	90°	180°	0°	90°	180°	
		OJUM-06-12	0,030 - 0,088	960	635	240	6720	
OJUM-06-16	0,030 - 0,088	1440	990	396	10080	6943	2772	0,158
OJUM-06-20	0,030 - 0,091	2250	1800	900	15750	12600	6300	0,266
OJUM-06-25	0,030 - 0,091	3625	2953	1523	25375	20670	10658	0,530
OJUM-06-30	0,040 - 0,110	5100	4250	2278	35700	29735	15946	0,818
OJUM-06-40	0,040 - 0,115	8000	6810	3800	56000	47660	26600	1,485
OJUM-06-50	0,050 - 0,130	12500	10750	6125	87500	75265	42875	2,750

### Dimensions [mm]

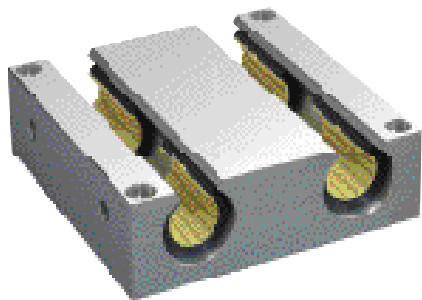
Part No.	d1	H	H1	A	M	E1	E2	S	S1	S2	N1	N2	W	α	L
	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]	[°]	[mm]
		+0.01					±0.15	±0.15						-1	[mm]
OJUM-06-12	12	18	28	43	21,5	23	32	8,0	M 5	4,3	16,5	11	10,2	78	39
OJUM-06-16	16	22	35	53	26,5	26	40	10,0	M 6	5,3	21,0	13	11,6	78	43
OJUM-06-20	20	25	42	60	30,0	32	45	11,0	M 8	6,6	24,0	18	12,0	60	54
OJUM-06-25	25	30	51	78	39,0	40	60	15,0	M10	8,4	29,0	22	14,5	60	67
OJUM-06-30	30	35	60	87	43,5	45	68	15,0	M10	8,4	34,0	22	16,6	57	79
OJUM-06-40	40	45	77	108	54,0	58	86	18,0	M12	10,5	44,0	26	21,0	56	91
OJUM-06-50	50	50	88	132	66,0	50	108	20,0	M16	13,5	49,0	34	25,5	54	113

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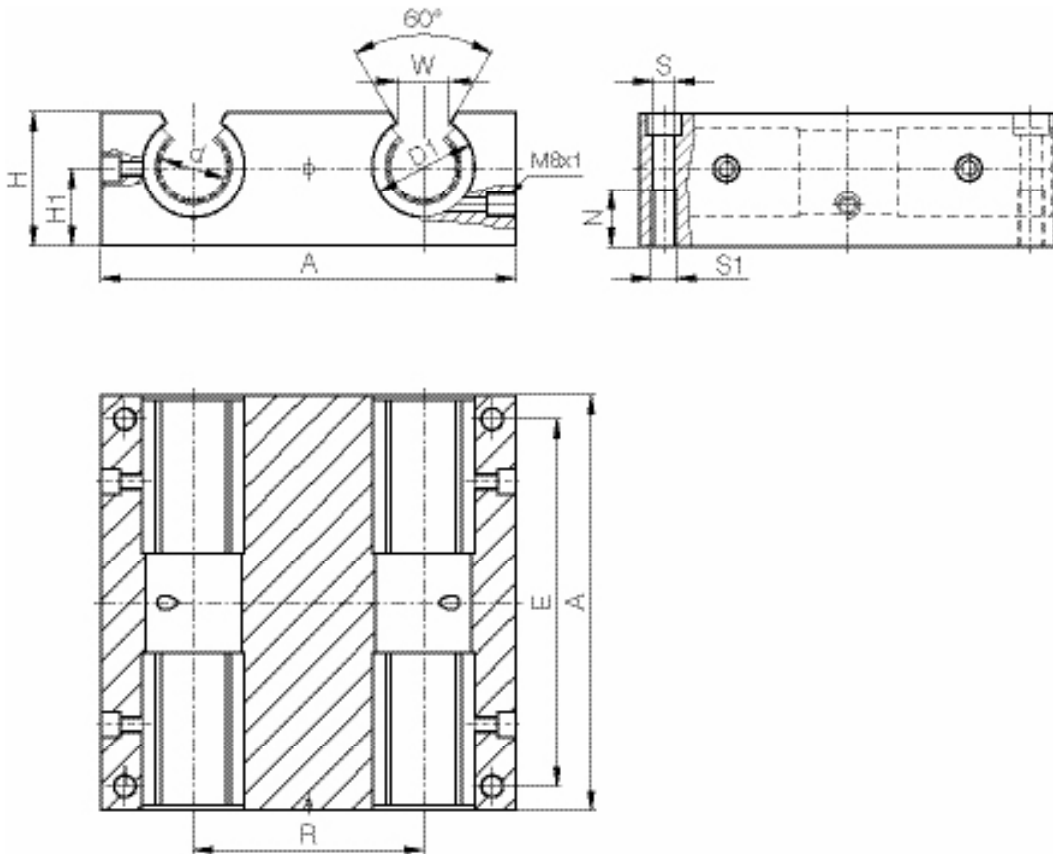
AWMU: ► Use aluminium shafts see page 400

# OQA – Quad Block, Open, mm



### Special properties

- Housing: aluminium
- Equipped with DryLin® R linear plain bearings, part no. OJUM-01-ø and OJUM-03-ø
- Maintenance-free
- The bearing in the housing is secured using set screws
- Recommended tolerance for the shaft: h6 - h10 (see igus® supported shafts p. 32)



Dimensions [mm] OQA Quad Block

Part No.	d1 [mm]	D1 [mm] h7	A [mm] h10	H [mm]	H1 [mm] +0.1	W [mm]	R [mm] H10	N [mm] H10	E [mm] h10	S [mm]	S1 [mm] -1
OQA-01-12	12	22	85	30	18	14	42	13	73	5,3	M6
OQA-01-16	16	26	100	35	22	17	54	13	88	5,3	M6
OQA-01-20	20	32	130	42	25	17	72	18	115	6,8	M8
OQA-01-25	25	40	160	51	30	21	88	22	140	9,0	M10
OQA-01-30	30	47	180	60	35	21	96	26	158	10,5	M12
OQA-01-40	40	62	230	77	45	27	122	34	202	13,5	M16

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AWMU: ► Use aluminium shafts see page 400

## DryLin® – Aluminium Shaft AWM-Ø, mm



### Special properties

- The recommended shaft material for all DryLin® linear bearings in this catalogue
- Available from stock
- Material: Aluminium
- Tolerance: h10
- Roundness: EN 754-3
- Straightness: EN 754-3
- Hardness: 75 HB
- Surface: Hard anodized
- Surface Hardness: 450-550 HV
- Please remember that this is a technical surface. Small colour variations are possible due to variable coating depths.

### Dimensions [mm]

#### DryLin® Aluminium Shaft

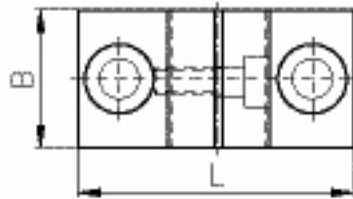
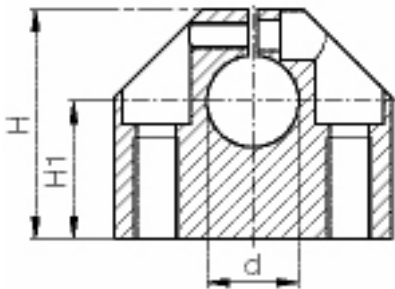
Part No.	Version	Diameter [mm] h10	Weight [kg/m]	L* [mm]
AWMP-08-300	solid shaft	8	0,14	300
AWMP-08-600	solid shaft	8	0,14	600
AWMP-08-1000	solid shaft	8	0,14	1000
AWMP-10-300	solid shaft	10	0,22	300
AWMP-10-600	solid shaft	10	0,22	600
AWMP-10-1000	solid shaft	10	0,22	1000
AWMP-12-300	solid shaft	12	0,32	300
AWMP-12-600	solid shaft	12	0,32	600
AWMP-12-1000	solid shaft	12	0,32	1000
AWMP-16-300	solid shaft	16	0,56	300
AWMP-16-600	solid shaft	16	0,56	600
AWMP-16-1000	solid shaft	16	0,56	1000
AWMP-20-300	solid shaft	20	0,88	300
AWMP-20-600	solid shaft	20	0,88	600
AWMP-20-1000	solid shaft	20	0,88	1000
AWMP-25-300	solid shaft	25	1,37	300
AWMP-25-600	solid shaft	25	1,37	600
AWMP-25-1000	solid shaft	25	1,37	1000
AWM-30-300	hollow shaft	30 x 7,5	1,48	300
AWM-30-600	hollow shaft	30 x 7,5	1,48	600
AWM-30-1000	hollow shaft	30 x 7,5	1,48	1000
AWM-40-300	hollow shaft	40 x 10	2,63	300
AWM-40-600	hollow shaft	40 x 10	2,63	600
AWM-40-1000	hollow shaft	40 x 10	2,63	1000
AWM-50-300	hollow shaft	50 x 11	3,75	300
AWM-50-600	hollow shaft	50 x 11	3,75	600
AWM-50-1000	hollow shaft	50 x 11	3,75	1000

\*Lengths up to 3000mm available.

## DryLin® – Shaft End Block, Standard Design, mm



- Special properties**
- Material: aluminium



### Dimensions [mm]

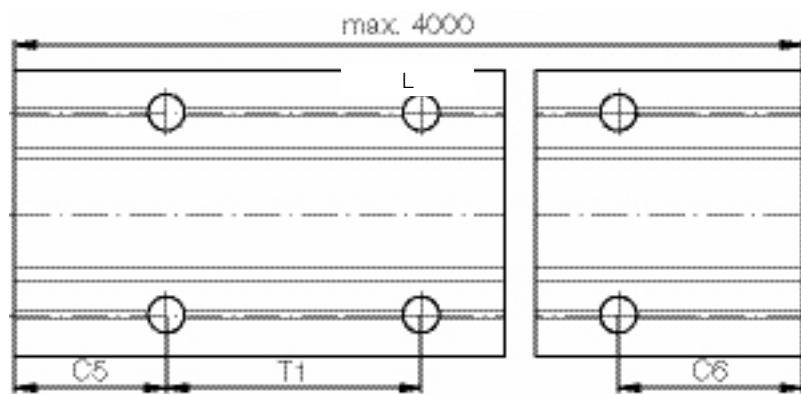
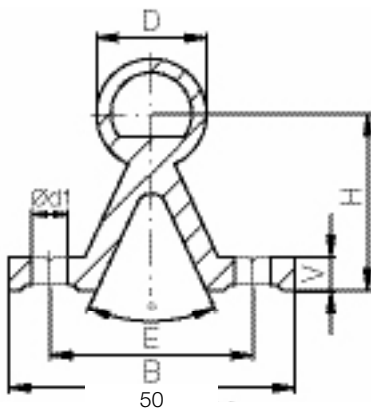
Part No.	d [mm]	B [mm]	H [mm]	H1 [mm]	L [mm]
WA-08	8	18	28	15	32
WA-12	12	20	35	20	43
WA-16	16	24	42	25	53
WA-20	20	30	50	30	60
WA-25	25	38	60	35	78
WA-30	30	40	70	40	87
WA-40	40	48	90	50	108
WA-50	50	58	105	60	132

# DryLin® – Supported Aluminium Shaft AWMU, mm



### Special properties

- Material: AlMgSi 0,5 F22
- Roundness: DIN 12020
- Straightness: DIN 12020
- Hardness: 75 HB
- Surface: Hard anodized
- Surface Hardness: 450-550 HV
- Please remember that this is a technical surface.  
Small colour variations are possible due to variable coating depths.

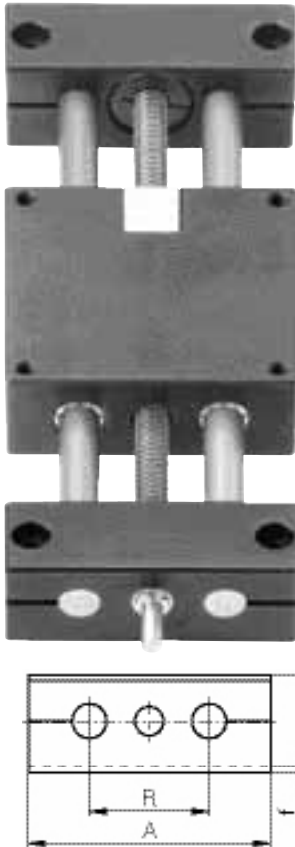


**Dimensions [mm]**  
AWMU Supported Aluminium Shaft

Part No.	D [mm]	B [mm]	H [mm]	V [mm]	d1 [mm]	E [mm]	T1 [mm]	C5/C6	Weight [kg/m]	L* [mm]
	-0.1		±0.25			±0.25				
AWMU-12-300	12	40	22	5	4,5	29	75	37,5	0,750	300
AWMU-12-600	12	40	22	5	4,5	29	75	37,5	0,750	600
AWMU-12-1000	12	40	22	5	4,5	29	75	50	0,750	1000
AWMU-16-300	16	45	26	5	5,5	33	100	50	1,000	300
AWMU-16-600	16	45	26	5	5,5	33	100	50	1,000	600
AWMU-16-1000	16	45	26	5	5,5	33	100	50	1,000	1000
AWMU-20-300	20	52	32	6	6,6	37	100	50	1,415	300
AWMU-20-600	20	52	32	6	6,6	37	100	50	1,415	600
AWMU-20-1000	20	52	32	6	6,6	37	100	50	1,415	1000
AWMU-25-300	25	57	36	6	6,6	42	120	30	1,805	300
AWMU-25-600	25	57	36	6	6,6	42	120	60	1,805	600
AWMU-25-1000	25	57	36	6	6,6	42	120	20	1,805	1000
AWMU-30-300	30	69	42	7	9,0	51	150	75	2,69	300
AWMU-30-600	30	69	42	7	9,0	51	150	75	2,69	600
AWMU-30-1000	30	69	42	7	9,0	51	150	50	2,69	1000
AWMU-40-300	40	73	50	8	9,0	55	200	50	4,060	300
AWMU-40-600	40	73	50	8	9,0	55	200	100	4,060	600
AWMU-40-1000	40	73	50	8	9,0	55	200	100	4,060	1000

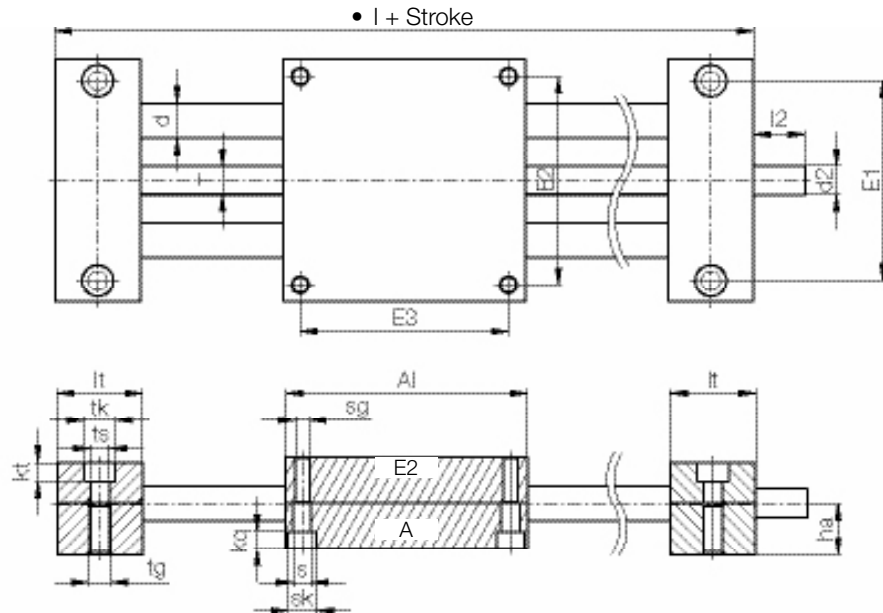
\*Any length available, please call us.

## DryLin® SHT – Standard



### Special properties

- Solid design
- 3 different sizes
- Maintenance-free and corrosion resistant
- TR10x2, TR18x4, TR24x5
- Hard anodised aluminium shaft



### Dimensions [mm]

Part No.	Weight [kg]	Stroke [mm]
SHT-12-AWM-300	1,4	300
SHT-12-AWM-600	1,7	600
SHT-12-AWM-1000	2,1	1000
SHT-20-AWM-300	4,1	300
SHT-20-AWM-600	5	600
SHT-20-AWM-1000	6,2	1000
SHT-30-AWM-300	10,4	300
SHT-30-AWM-600	12,2	600
SHT-30-AWM-1000	14,6	1000

\*Any length available, please call us.

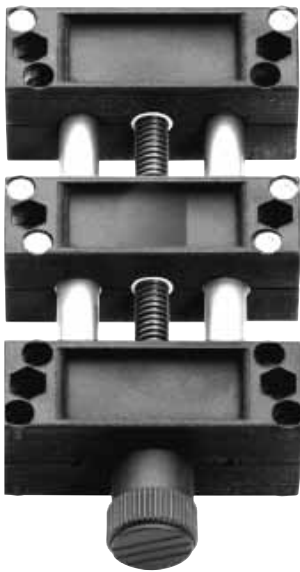
### Dimensions [mm]

Part No.	A	H	E1	E2	I	R	f	lt	tk	ts
SHT-12-AWM	-0.3		±0.15	±0.15				±0.1		
SHT-12-AWM	85	34	70	73	145	42	2	30	11	6,6
SHT-20-AWM	130	48	108	115	202	72	2	36	15	9,0
SHT-30-AWM	180	68	150	158	280	96	4	50	20	13,5

### Dimensions [mm]

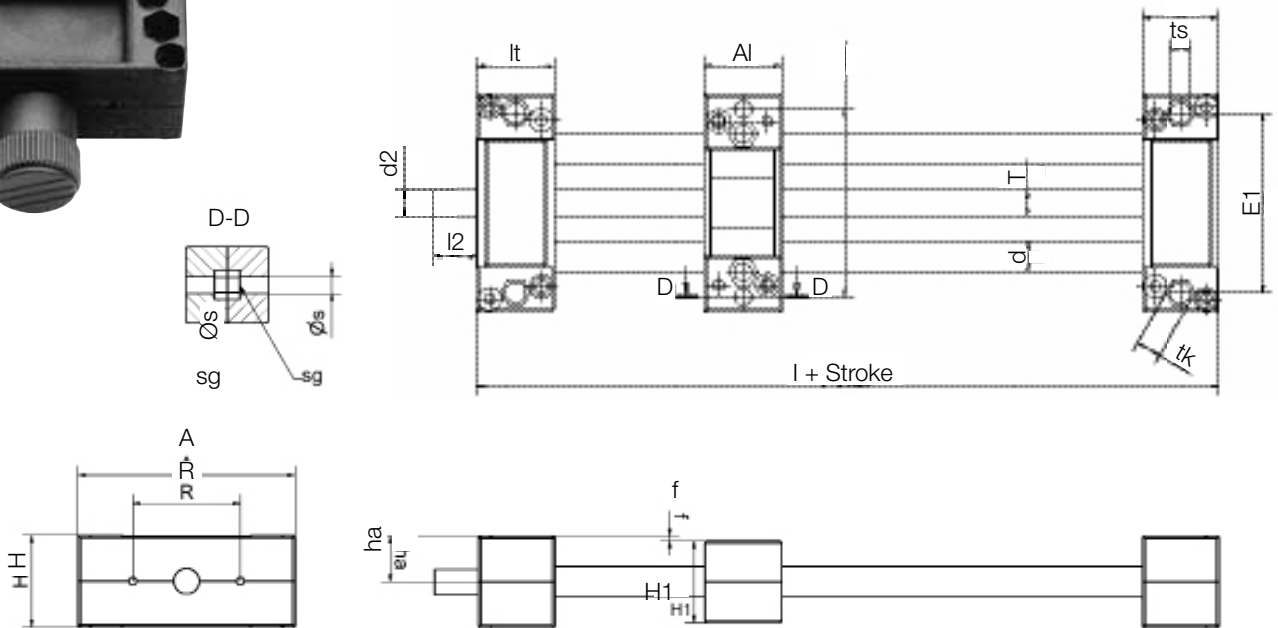
Part No.	tg	kt	s	sk	sg	kq	d	T	I2	d2	ha
SHT-12-AWM	M8	±0.1			M6						
SHT-12-AWM	M8	6,4	6,3	10	M6	6,0	12	TR10 x 2	17	TR10 x 2*	18
SHT-20-AWM	M10	8,6	6,4	11	M8	7,0	20	TR18 x 4	26	12 h9	23
SHT-30-AWM	M16	12,6	11,0	18	M12	10,6	30	TR24 x 5	38	14 h9	36

# DryLin® SHTP – Cost-effective



### Special properties

- Solid plastic version
- Light weight
- Cost-effective
- Corrosion resistant
- 2 sizes
- Hard anodised aluminium shaft



### Dimensions [mm]

Part No.	Weight [kg]	Stroke [mm]	Special Properties
SHTP-01-06-300	0,3	300	Square carriage with four sym. connection bores
SHTP-01-06-600	0,5	600	Square carriage with four sym. connection bores
SHTP-01-12-300	0,7	300	Liners and TR nuts made from iglidur® J material
SHTP-01-12-600	1	600	Liners and TR nuts made from iglidur® J material

\*Any length available, please call us.

### Dimensions [mm]

Part No.	A	Al ±0.1	H	E1	E2	E3	I	R	f	lt	tk	ts
SHTP-01-06	45	45	19	38	36,5	36,5	67	25	1	11	8	4,2
SHTP-01-12	85	30	36	70	73	–	90	42	2	30	10	6,6

### Dimensions [mm]

Part No.	s	sg	d	T	l2	d2* Standard	ha	H1
SHTP-01-06	5,0	–	6	M8	15	M8	9	18
SHTP-01-12	6,3	M6	12	TR10x2	17	TR10x2	16	32

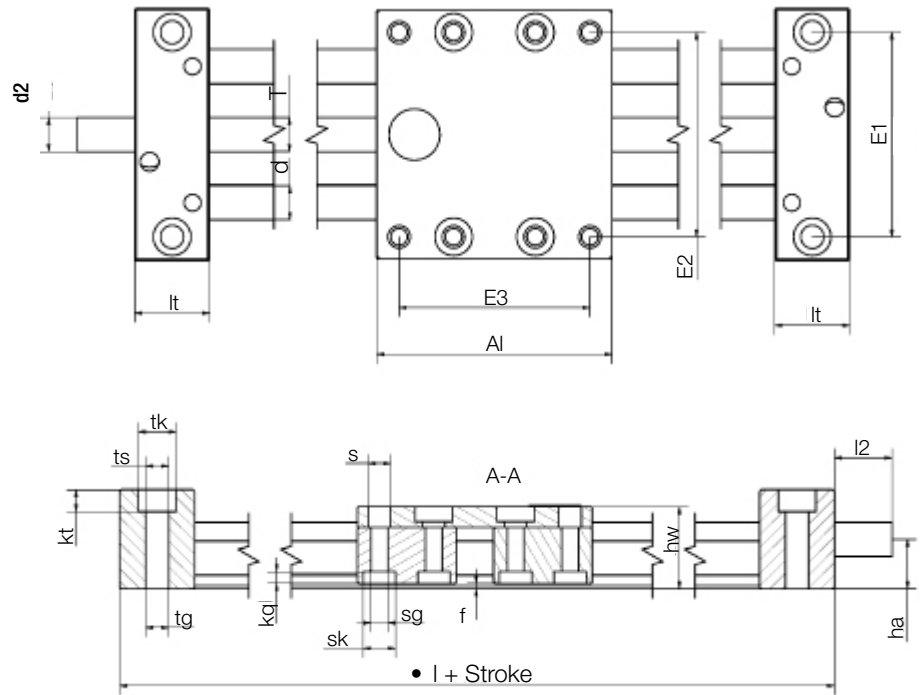
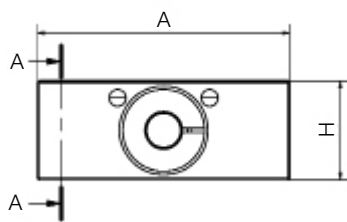
\* supplied with leadscrew end unmachined

## DryLin® SLW – Compact



### Special properties

- Low-profile and compact
- High torsional stiffness
- Fully supported
- Hard anodized rail
- 2 sizes
- Zinc diecast end blocks



Part No.	Maximum Weight [kg]	Max. Stat. Axial load-bearing capacity	Stroke* [mm]
SLW-1040-300	1	700	300
SLW-1040-600	1,3	700	600
SLW-1040-1000	1,7	700	1000
SLW-2080-300	4,2	1600	300
SLW-2080-600	5,4	1600	600
SLW-2080-1000	7	1600	1000

\*Any length available, please call us.

### Dimensions [mm]

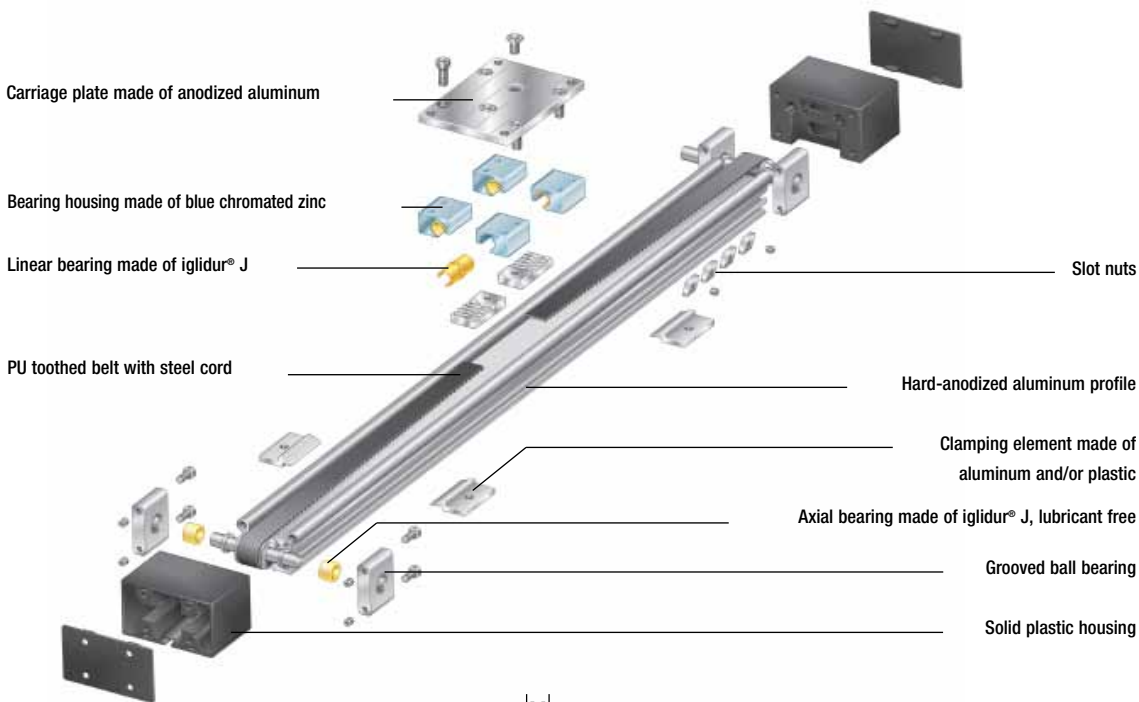
Part No.	A	Al*	H	E1	E2	E3	I	hw	f	lt	tk	ts	tg**
SLW-1040	74	69 -0.3	29 -0.3	60	60 ±0.15	56 ±0.15	113 ±0.15	24	1,5	22	11	6,8	M8
SLW-2080	134	150	46	116	116	132	206	44	1,5	28	15	8,0	M10

### Dimensions [mm]

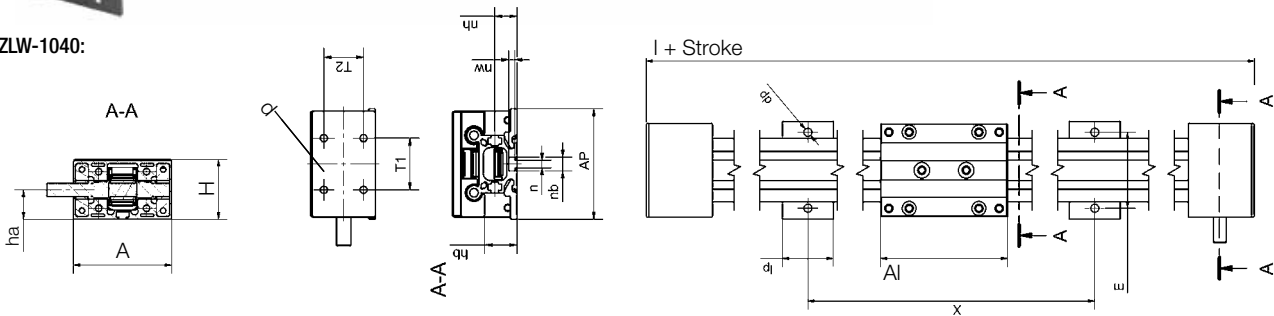
Part No.	kt	s	sk	sg	kq	d	T	I2	d2	ha
SLW-1040	±0.1 6,4	6,6	9,5	M6	4,4	10	TR10 x 2	17	Standard TR10 x 2***	14,5
SLW-2080	±0.1 8,6	9,0	14,0	M8	5,5	20	TR18 x 4	26	12 h9	23,0

\*\*tg = thread for mounting \*\*\*TR10 x 2 supplied with leadscrew end unmachined

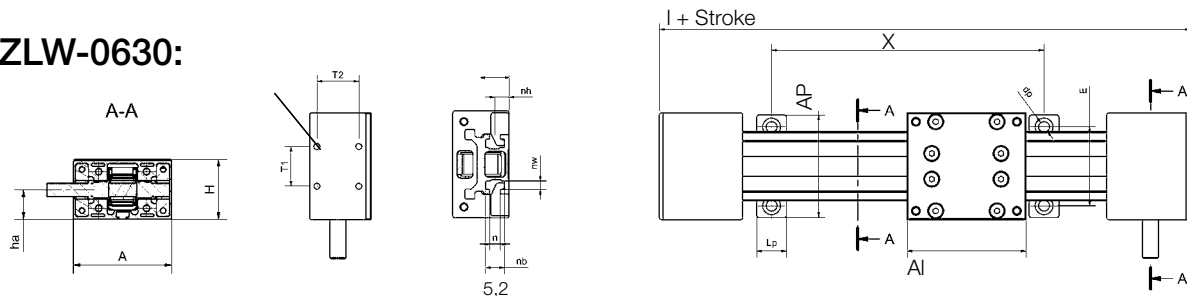
# DryLin® ZLW – Exploded View of the belt drive



ZLW-1040:



ZLW-0630:



**Technical Data**

Part No.	Transmission [mm/rev]	- material	Tooth belt width [mm]	-tension [N]	max. radial stress [N]	Max. speed at 60% on-time [ms]
ZLW-1040	70	PU with Steel	16	200	300	5
ZLW-0630	54	Elastomer/GF	9	70	100	2

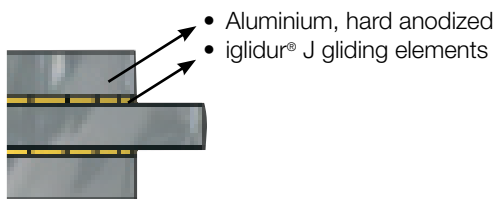
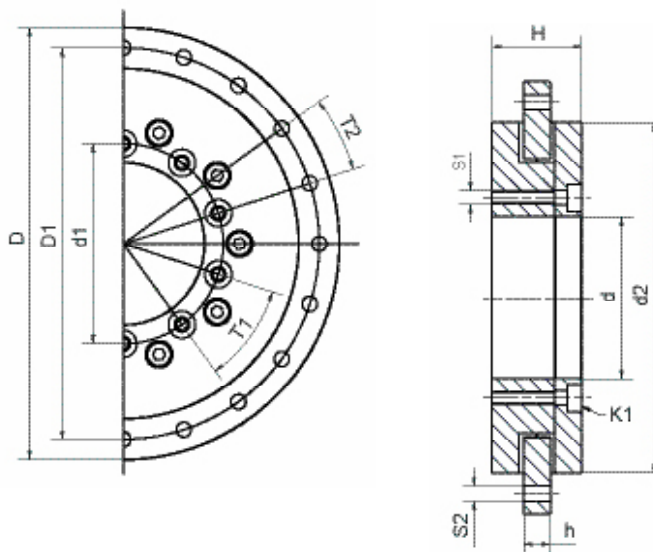
**Dimensions [mm]**

Part No.	A	Al	H	I	f	lt	sg	ha
	-0.3					±0.3		
ZLW-1040-02-...	74	100	45	204	1	52	M6	22
ZLW-0630-02-...	60	31	45	13,5	3	42	M4	14

Dmensions Part No.	E	AP ±0.1	LP -1	dp	nh	T1	T2	d	Stroke* [mm]	Mass [kg]
ZLW-1040-02-L-1000	60	78	40	6,4	15,5	36	27	5,0	1000	2,4
ZLW-1040-02-L-2000	60	78	40	6,4	15,5	36	27	5,0	2000	3,8
ZLW-0630-02-L-500	40	52	15	5,5	7	20	21	3,2	500	1,3
ZLW-0630-02-L-1000	40	52	15	5,5	7	20	21	3,2	1000	2,0

\*Any stroke available, please contact us.

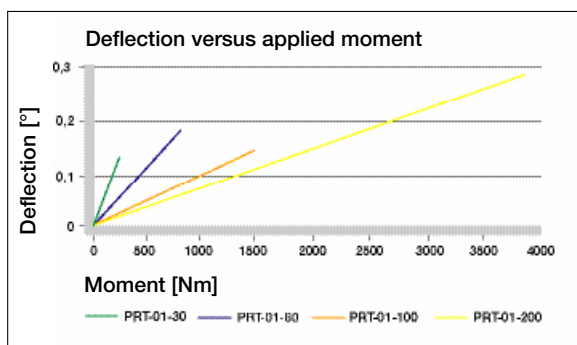
# PRT Slewing Ring



## Dimensions [mm]

Part No.	D	D1	d1	d	d2	H	h	T1	T2	S1	S2	K1 for screw
PRT-01-30	100	91	42,5	30	82	29	10	8 x 45°	8 x 45°	M4	4,5	M4
PRT-01-60	160	145	74	60	130	33	10	10 x 36°	20 x 18°	M5	5,5	M5
PRT-01-100	185	170	112	100	160	34	12	12 x 30°	16 x 22,5°	M5	5,5	M5
PRT-01-150	250	235	165	150	220	35	12	12 x 30°	16 x 22,5°	M5	5,5	M5
PRT-01-200	300	285	215	200	274	38	15	12 x 30°	16 x 22,5°	M6	7,0	M6

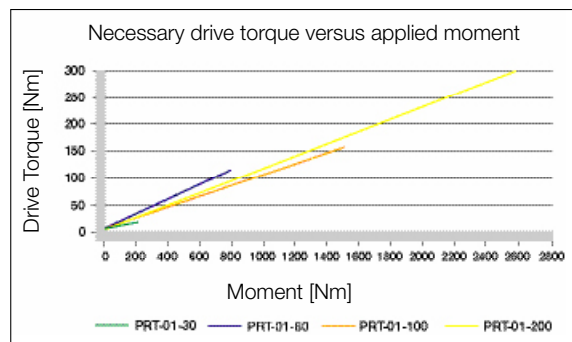
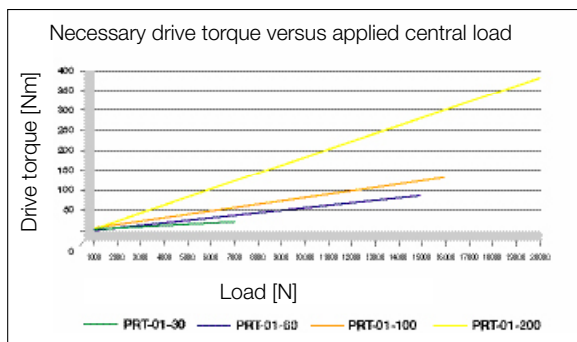
\*Any stroke available, please contact us.



All load values assume the PRT is assembled with socket head screws (strength class 8.8) on the outside pitch circle diameter. For the assembly of the PRT the screws have to be inserted to a minimum thread depth of 10mm.

- PRT-01-30: M4, min. 8 screws**
- PRT-01-60: M5, min. 10 screws**
- PRT-01-100: M5, min. 12 screws**
- PRT-01-150: M5, min. 12 screws**
- PRT-01-200: M6, min. 12 screws**

All data can be used for both lateral and horizontal assembly.



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