

# Rod ends with plain bearing

internal thread



### Material:

Housing size (D) 5-12 turned steel.

From size (D) 16 forged steel.

Ball joint ball bearing steel, hardened, ground and polished.

Bearing shell steel with PTFE weave glued in.

### Version:

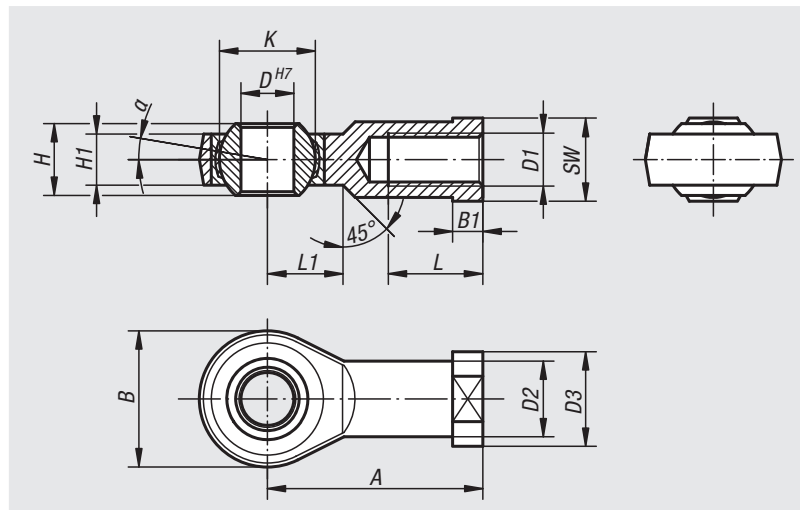
Electro zinc-plated.

### Sample order:

nIm 27628-22

### Note:

The rod end bearing is maintenance-free. The connection dimensions comply with DIN 648 series KJ.



Order No. RH thread	Order No. LH thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	$\alpha$	Dynamic base loads kN	Static base loads kN
27628-05	27628-051	5	M5	9	11	27	18	4	8	6	11,11	10	10	9	13°	7,5	8
27628-06	27628-061	6	M6	10	13	30	20	5	9	6,75	12,7	12	10	11	13°	9,3	8,9
27628-08	27628-081	8	M8	12,5	16	36	24	5	12	9	15,87	16	12	13	13°	16,7	14,1
27628-10	27628-101	10	M10	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	19,3
27628-10125	27628-101251	10	M10x1,25	15	19	43	28	6,5	14	10,5	19,05	20	15	17	13°	23,4	19,3
27628-12	27628-121	12	M12	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	23,5
27628-12125	27628-121251	12	M12x1,25	17,5	22	50	32	6,5	16	12	22,22	22	16	19	13°	32	23,5
27628-16	27628-161	16	M16	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	32
27628-1615	27628-16151	16	M16x1,5	22	27	64	42	8	21	15	28,57	28	22	22	15°	52,7	32
27628-20	27628-201	20	M20x1,5	27,5	34	77	50	10	25	18	34,92	33	26	32	15°	78,1	43,8
27628-22	27628-221	22	M22x1,5	30	37	84	54	12	28	20	38,1	37	26	32	15°	97,2	52,6

# Rod ends igubal® with plain bearing

internal thread



### Material:

Housing igumid® G.  
Bearing seat iglidur® W300.

### Version:

black.

### Sample order:

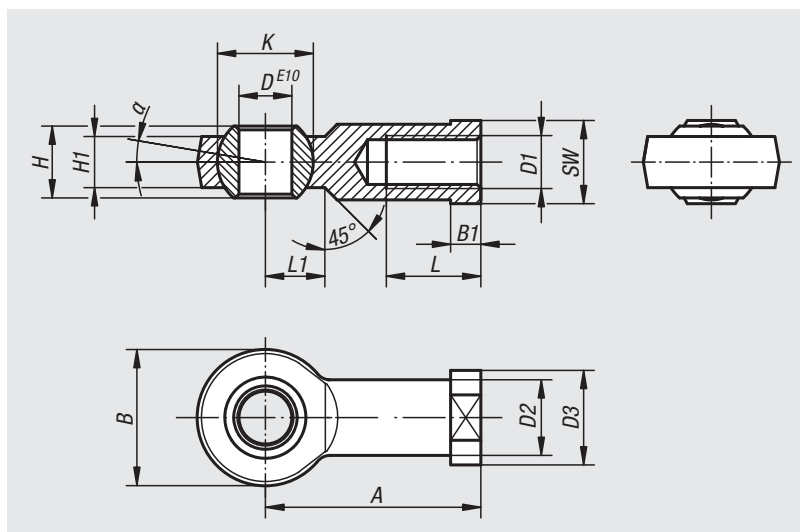
nIm 27628-104

### Note:

The rod end has very high rigidity under alternating stresses, it is insensitive to dirt, dust and lint, and is both corrosion and chemical resistant. It is ideal for rotary, oscillating and linear movements. The connection dimensions comply DIN ISO 12240 series K.

### Tolerances:

The bore of the inner ring has an E10 tolerance. The shaft tolerance should be between h6 and h9.



Order No. RH thread	Order No. LH thread	D	D1	D2	D3	A	B	B1	H	H1	K	L	L1	SW	α
27628-104	27628-1041	5	M4	9	12	27	18	4	8	6	11,1	10	9	9	15°
27628-105	27628-1051	5	M5	9	12	27	18	4	8	6	11,1	10	9	9	15°
27628-106	27628-1061	6	M6	10	13	30	20	5	9	7	12,7	12	10	11	14,5°
27628-108	27628-1081	8	M8	13	16	36	24	5	12	9	15,8	16	12	14	12,5°
27628-110	27628-1101	10	M10	15	19	43	30	6,5	14	10,5	19	20	14	17	12,5°
27628-110125	27628-1101251	10	M10x1,25	15	19	43	30	6,5	14	10,5	19	20	14	17	12,5°
27628-112	27628-1121	12	M12	18	22	50	34	6,5	16	12	22,2	22	16	17	12,5°
27628-112125	27628-1121251	12	M12x1,25	18	22	50	34	6,5	16	12	22,2	22	16	19	12,5°
27628-114	27628-1141	14	M14	20	25	57	38	8	19	13,5	25,25	25	18	22	11,5°
27628-116	27628-1161	16	M16	22	27	64	42	8	21	15	28,3	28	21	22	11,5°
27628-116150	27628-1161501	16	M16x1,5	22	27	64	42	8	21	15	28,3	28	21	22	11,5°
27628-118150	27628-1181501	18	M18x1,5	25	31	71	46	10	23	16,5	31,35	32	23	27	11,5°
27628-120	27628-1201	20	M20	28	34	77	50	10	25	18	34,9	33	25	30	11,5°
27628-120150	27628-1201501	20	M20x1,5	28	34	77	50	10	25	18	34,9	33	25	30	11,5°

Order No. RH thread	Order No. LH thread	D1	Max. static tensile stress N short-term	Max. static tensile stress N long-term	Max. transverse stress N short-term	Max. transverse stress N long-term
27628-104	27628-1041	M4	1000	500	250	125
27628-105	27628-1051	M5	1000	500	250	125
27628-106	27628-1061	M6	1400	700	400	200
27628-108	27628-1081	M8	2100	1050	700	350
27628-110	27628-1101	M10	3100	1550	800	400
27628-110125	27628-1101251	M10x1,25	3100	1550	800	400
27628-112	27628-1121	M12	3600	1800	900	450
27628-112125	27628-1121251	M12x1,25	3600	1800	900	450
27628-114	27628-1141	M14	4000	2000	1000	500
27628-116	27628-1161	M16	4200	2100	1300	650
27628-116150	27628-1161501	M16x1,5	4200	2100	1300	650
27628-118150	27628-1181501	M18x1,5	4600	2300	1600	800
27628-120	27628-1201	M20	5400	2700	2100	1050
27628-120150	27628-1201501	M20x1,5	5400	2700	2100	1050