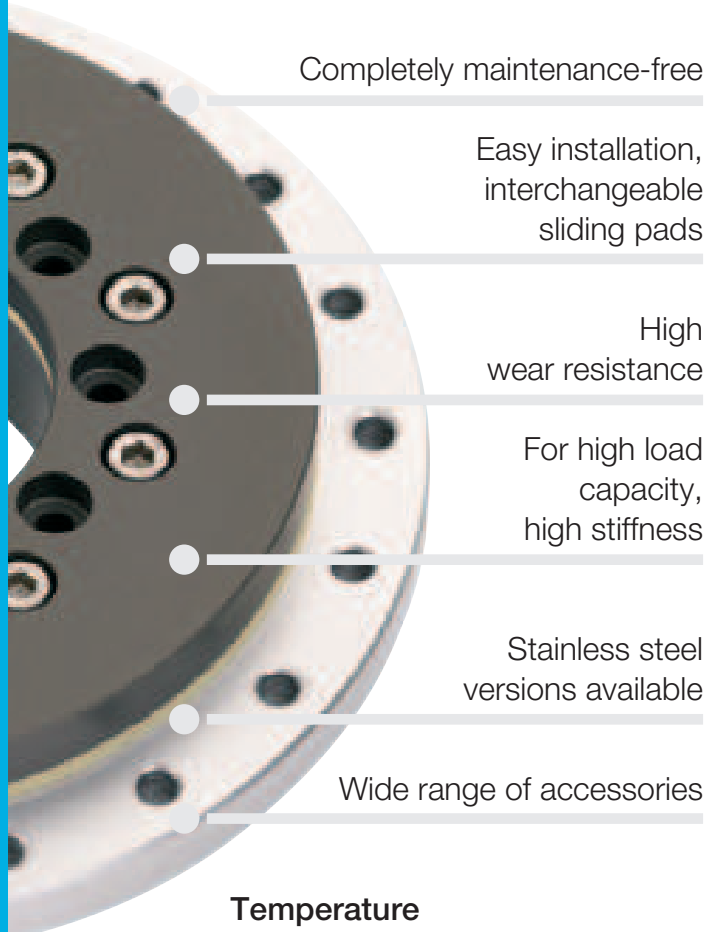


iglidur® PRT

iglidur® PRT is a Slewing Ring Bearing with the proven advantages of the igus® polymer bearings. The sliding pads made from iglidur® high-performance polymers are completely free from maintenance and lubrication. All the housing components are made from anodized aluminum or stainless steel, the surfaces which mate with the iglidur® sliding pads are all hard anodized. All the fixing screws are stainless steel.



Completely maintenance-free

Easy installation,
interchangeable
sliding pads

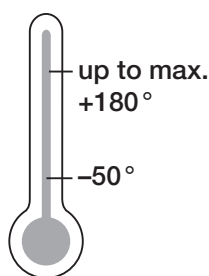
High
wear resistance

For high load
capacity,
high stiffness

Stainless steel
versions available

Wide range of accessories

Temperature
dependant of type



When to use it?

- When a ready-to-install fit solution is needed
- As a robust and corrosion resistant bearing unit for high loads
- For high tilting moments
- For use with different surrounding media
- When a lubrication and maintenance free Slewing Ring Bearing is needed
- For slow to medium speed

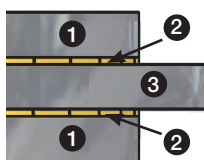


When not to use it?

- For fast rotations
- With temperatures over +180 °C
- When there is not enough driving torque at high loads
- When highest precision is needed

Product range

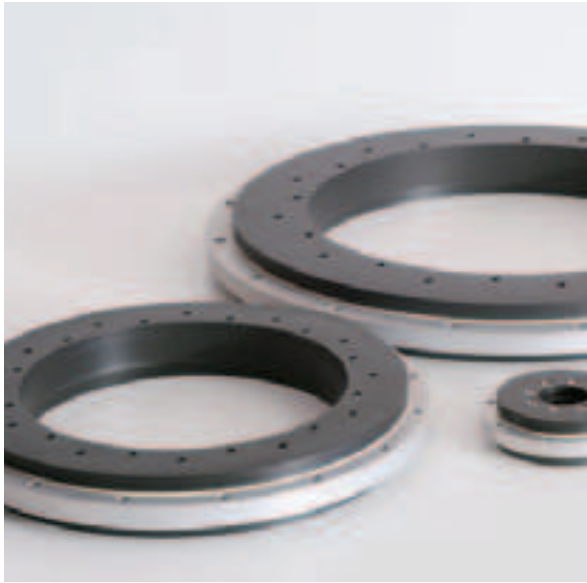
3 types
42 dimensions
Ø 20–300 mm



- ① **Type 01:**
Aluminum, hard anodized,
or Stainless steel V4A
- Type 02:**
iglidur® J4 or A180
- ② **Type 01:**
iglidur® J or H1
- ③ **Type 01 and 02:**
Aluminum, anodized,
or Stainless steel V4A



iglidur® PRT | Application Examples



Typical sectors of industry and application areas

- Conveyors ● Automation
- Assembly stations ● Theatre/Stage and lighting technology ● Renewable energy etc.

Improve technology and reduce costs – 310 exciting examples for iglidur® plain bearings online

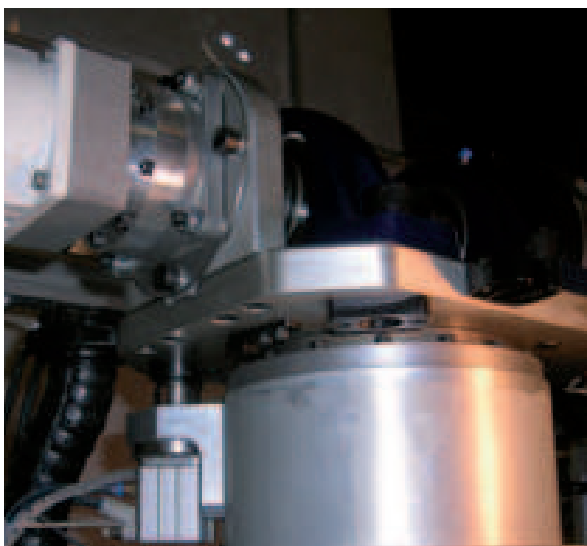
► www.igus.eu/eu/iglidur-applications



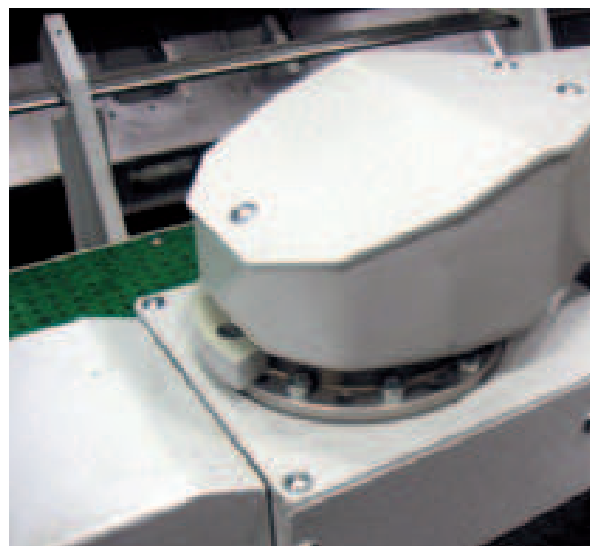
Handling and conveyance system for semiconductor transport/box.



► www.igus.eu/movinghead



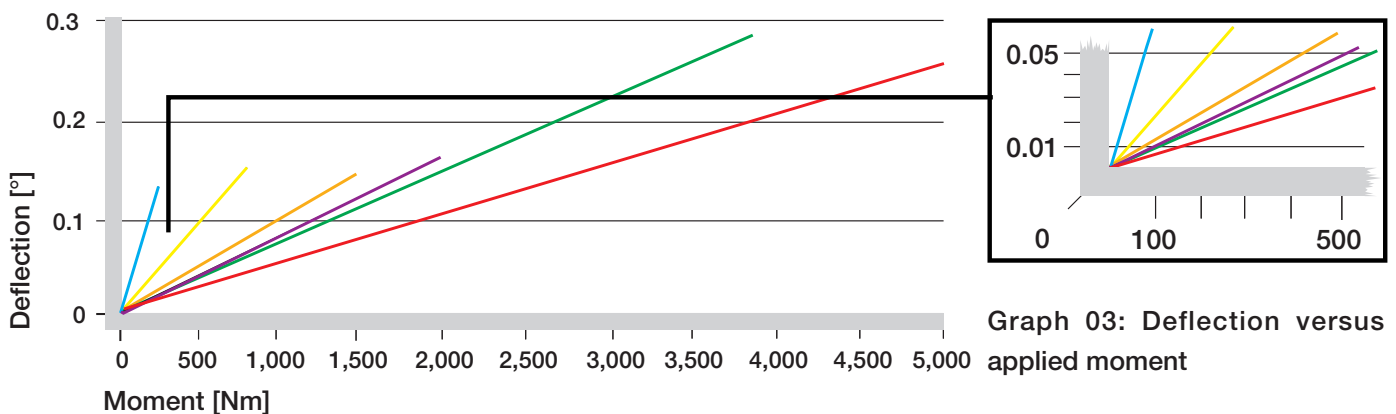
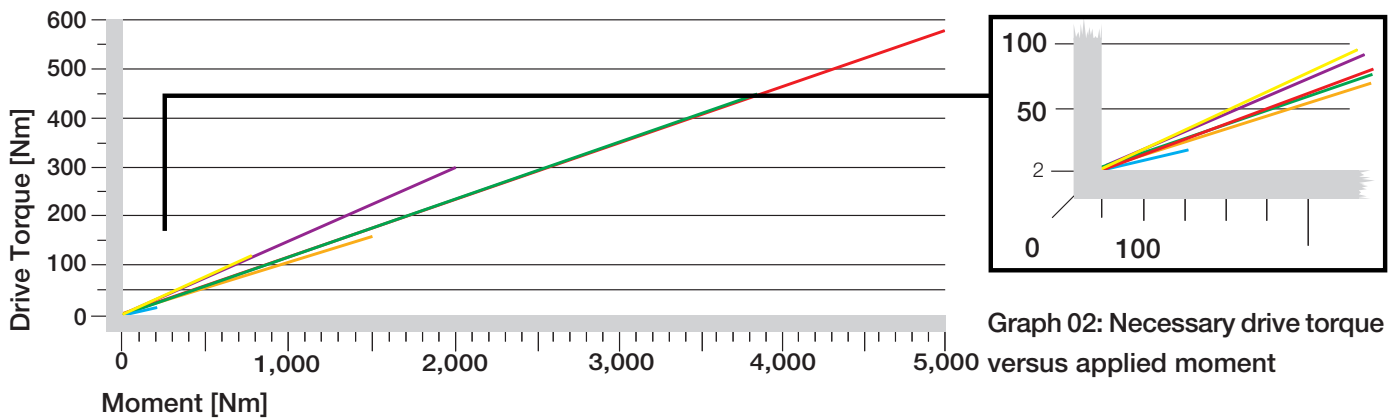
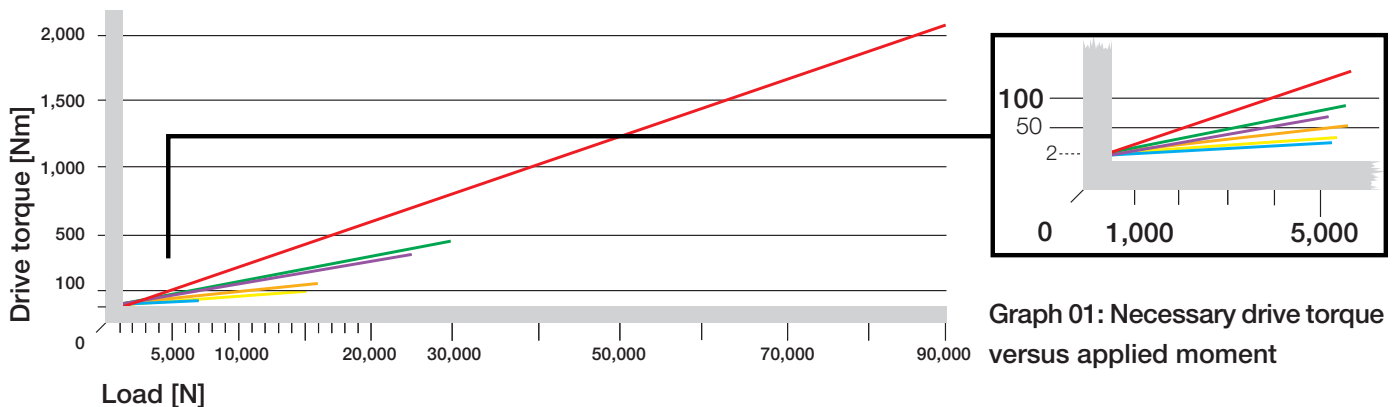
► www.igus.eu/welding-plant



► www.igus.eu/cnc-machining

iglidur® PRT | Technical Data Type 01

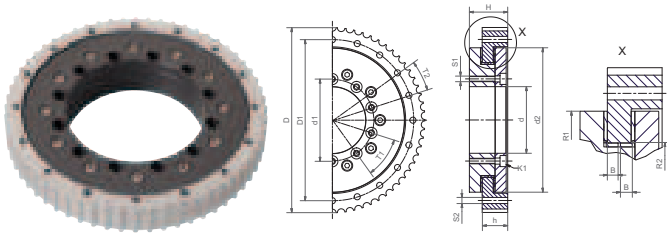
Properties	Unit	PRT-01-30	PRT-01-60	PRT-01-100	PRT-01-150	PRT-01-200	PRT-01-300
Weight	kg	0.4	1.1	1.3	2.2	3.2	7.6
Max. axial load, static	N	27,000	50,000	55,000	80,000	100,000	150,000
Max. axial load, dynamic	N	7,000	15,000	16,000	25,000	30,000	90,000
Max. radial load, static	N	5,000	10,000	16,000	25,000	35,000	45,000
Max. radial load, dynamic	N	1,500	3,000	5,000	8,000	10,000	27,000
Max. rotat. speed dry running	1/min	250	200	150	100	80	50
Rigidity, axial	N/μm	100	300	400	450	500	500
Rigidity, radial	N/μm	50	65	65	65	65	65
Max. perm. tilting moment	Nm	200	800	1,500	2,000	3,800	5,000



- 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
- PRT-01-300
M8, min.
12 screws

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 2xd in every bore location in the outer ring. All data can be used for both lateral and horizontal assembly.

Slewing ring bearing with toothed outer ring



For each of the 6 sizes of the PRT-01 design version, 4 standards for toothed outer ring are available.

A classic spur gear teeth according to DIN3967 for use with a plastic gear or gear rack, and three commercially available belt profiles: T10, AT10, HTD8M. In the case of the externally toothed PRT, the inner ring is fixed and the outer ring driven.

At the same time the toothed outer ring outer ring with a special large diameter carries the gear.



Order key

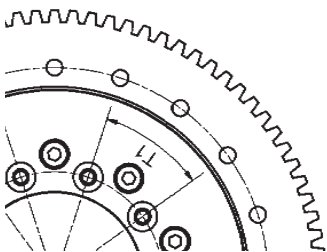
PRT-01-30-TO-...



Dimensions [mm]

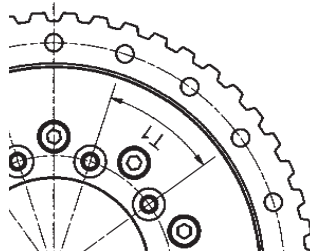
Part number	D1	d1	d	d2	h	T1	T2	S1	S2	K1	R1	R2	B	H
PRT-01-30-TO-...	91	42.5	30	82	21	8x45°	8x45°	M4	4,5	DIN 912 M4	41	29.0	4.5	(30.4)
PRT-01-60-TO-...	145	74.0	60	130	23	10x36°	20x18°	M5	5,5	DIN 912 M5	65	51.5	4.5	(34.5)
PRT-01-100-TO-...	170	112.0	100	160	25	12x30°	16x22,5°	M5	5,5	DIN 912 M5	80	69.0	5.5	(36.0)
PRT-01-150-TO-...	235	165.0	150	220	25	12x30°	16x22.5°	M5	5,5	DIN 912 M5	110	96.5	5.5	(37.5)
PRT-01-200-TO-...	285	215.0	200	274	30	12x30°	16x22.5°	M6	7,0	DIN 912 M6	137	124.0	7.0	(41.5)
PRT-01-300-TO-...	430	320.0	300	410	30	12x30°	16x22.5°	M8	9,0	DIN 912 M8	205	186.5	8.5	(46.5)

Spur gearing DIN3967



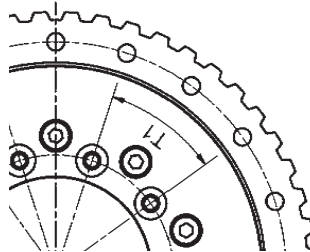
Part number	m	z	D
...-ST	2	54	(112)
...-ST	2	90	(184)
...-ST	2	96	(196)
...-ST	2	126	(256)
...-ST	2	152	(308)
...-ST	3	152	(462)

Toothed belt profile AT10



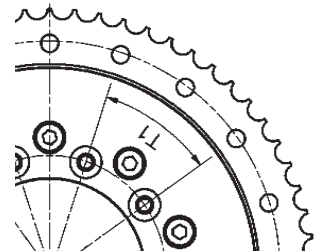
Part number	z	D
...-AT10	34	(106.4)
...-AT10	52	(163.8)
...-AT10	60	(189.2)
...-AT10	80	(252.9)
...-AT10	96	(303.9)

Toothed belt profile T10



Part number	z	D
...-T10	34	(106.4)
...-T10	52	(163.8)
...-T10	60	(189.2)
...-T10	80	(252.9)
...-T10	96	(303.9)
...-T10	144	(456.7)

Toothed belt profile HTD8M



Part number	z	D
...-HTD8M	34	(105.6)
...-HTD8M	52	(166.7)
...-HTD8M	60	(189.2)
...-HTD8M	80	(253.3)
...-HTD8M	96	(304.3)
...-HTD8M	144	(457.1)



delivery available
time from stock



prices price list online
www.igus.eu/eu/prt



order part number
example PRT-01-30-TO-...