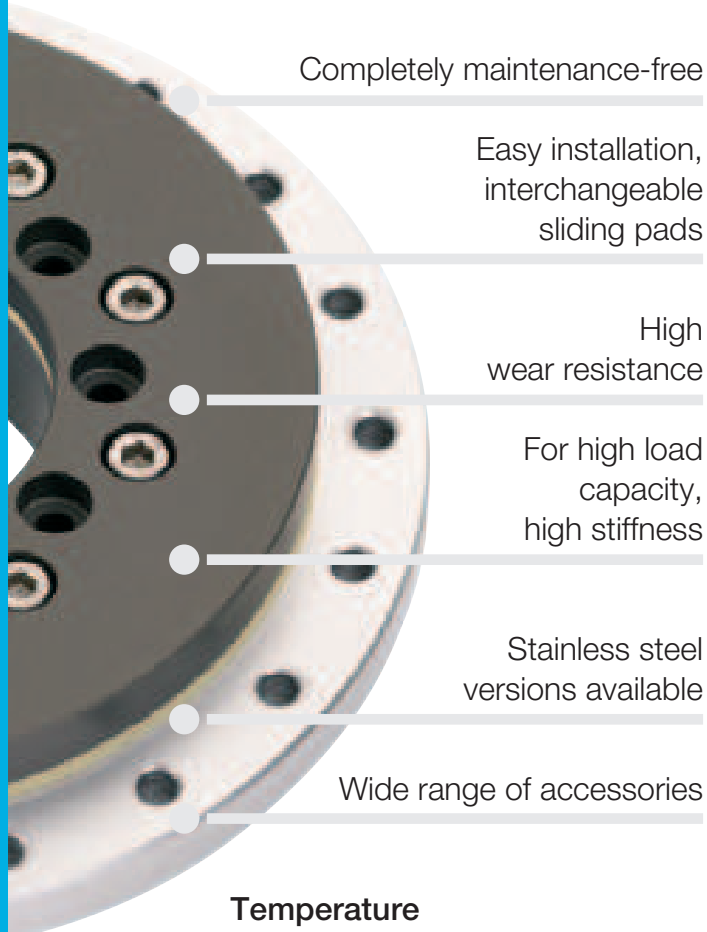


iglidur® PRT

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

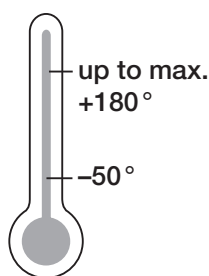
High
wear resistance

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

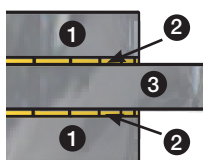


When not to use it?

- 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:

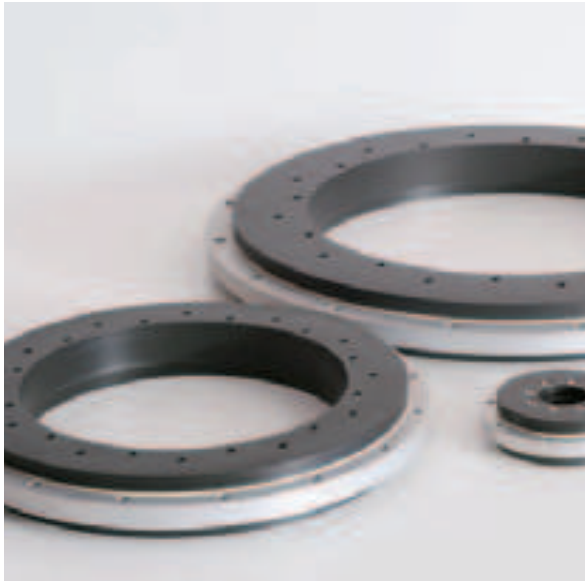
iglidur® J or H1

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

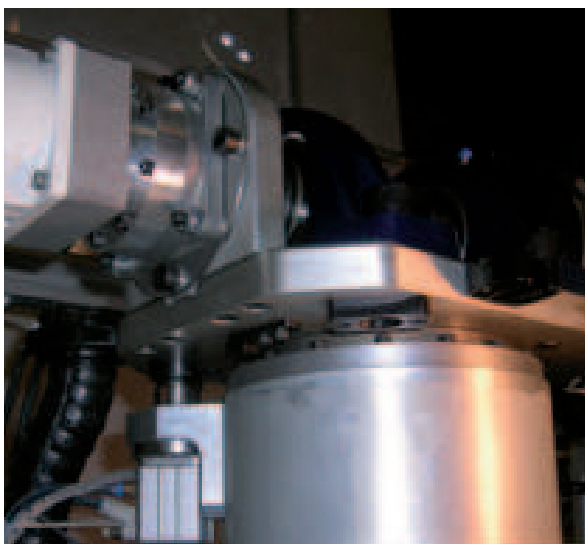
► www.igus.eu/eu/iglidur-applications



Handling and conveyance system for semiconductor transport/box.



► www.igus.eu/movinghead



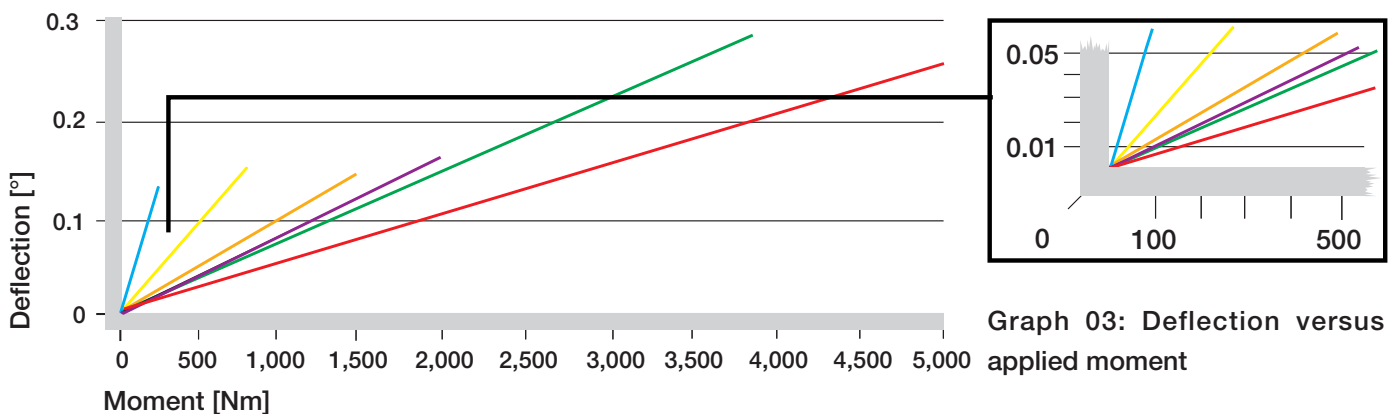
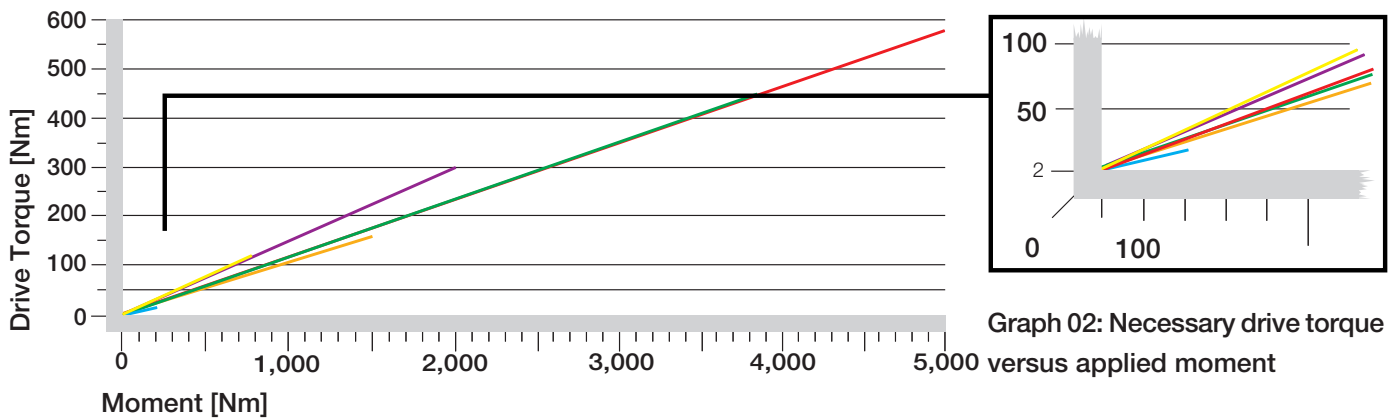
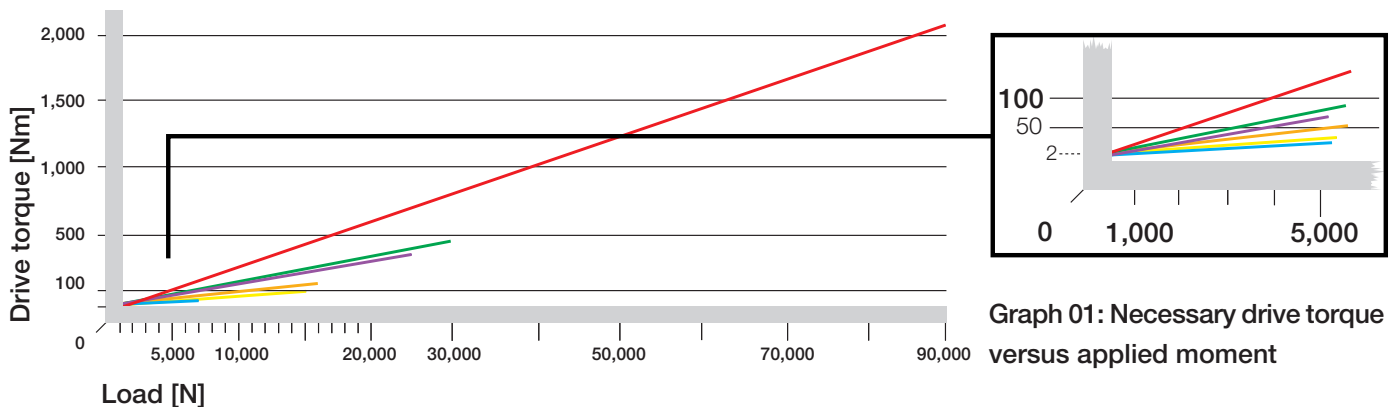
► www.igus.eu/welding-plant



► www.igus.eu/cnc-machining

iglidur® PRT | Technical Data Type 01

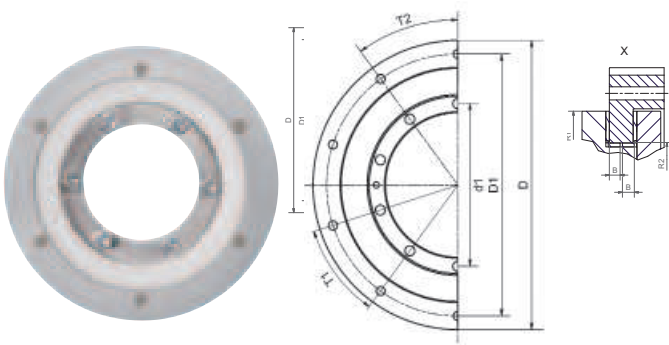
Properties	Unit	PRT-01-30	PRT-01-60	PRT-01-100	PRT-01-150	PRT-01-200	PRT-01-300
Weight	kg	0.4	1.1	1.3	2.2	3.2	7.6
Max. axial load, static	N	27,000	50,000	55,000	80,000	100,000	150,000
Max. axial load, dynamic	N	7,000	15,000	16,000	25,000	30,000	90,000
Max. radial load, static	N	5,000	10,000	16,000	25,000	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

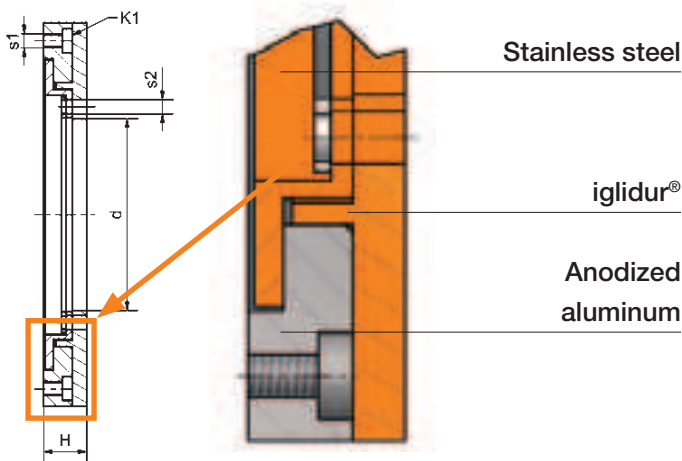
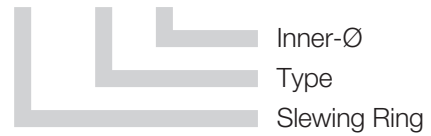
All load values assume the PRT is assembled with socket head screws (strength class 8.8) on the outside pitch circle diameter. For the assembly of the PRT the screws have to be inserted to a minimum thread depth of 2xd in every bore location in the outer ring. All data can be used for both lateral and horizontal assembly.

Slewing ring bearing in a new Low-Cost-Design



Order key

PRT-03-80



iglidur® PRT slewing ring bearings in a new economic design. Ongoing cost engineering has resulted in a new design, with a greater use of plastics.

- Maintenance- and lubrication-free
- Low priced and lightweight
- Low installation space
- Ready to fit

Properties	Unit	PRT-03-80
max. rpm	rpm	120
max. recommended static load rating axial (push direction)	N	12,000
recommended dynamic load rating axial (push direction)	N	45,000
max. recommended static load rating axial (pull direction)	N	5,000
max. recommended dynamic load rating axial (pull direction)	N	2,000
max. recommended static overturning moment	Nm	120
max. recommended static load rating radial	N	4,000
max. recommended dynamic load rating radial	N	1,000
max. temperature	°C	60

Dimensions [mm]

Part number	D	D1	d1	d	H	T1	T2	s1	s2	K1
PRT-03-80	160	145	90	80	18	10 x 36°	10 x 36°	M6	6	M5

delivery time available from stock

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

order part number example PRT-03-80