



Pitch on the safe side

Proven IMO designed technology for more than 25 years - 8 years successfully in tidal stream systems.



Tidal Stream Systems

Tidal energy

- energy from marine current systems is highly predictable
- tidal turbines generate electricity from the sea autonomously
- twin axial flow rotors drive generators via a gearbox
- two or three blade rotors are adjusted by a triple row IMO roller bearing

Challenging conditions include:

- water pressure up to 3 bar (44 PSI)
- aggressive salt water
- abrasive sediment

IMO - Proven Blade Bearings

- outstanding reliability: 24/7
- withstanding highest static & dynamic loads
- proven sealing technology - watertight, saltwater & leak-proof
- multilayer coating including a zinc layer



- marine current systems
- wave power

IMO Blade Bearings provide low maintenance and life cycle costs.



Blade Bearing for a 2 MW ►
marine current turbine

IMO

made in Gremsdorf,
Germany

More than 25 years on your side.



Test rig to verify ▲
bearing seal under pressure

Applying German engineering expertise, IMO designs slewing rings for wind and tidal energy installations using benchmark FE models.

IMO is certified according to the standards ISO 9001, ISO 14001 and OHSAS 18001.

Headquarters

IMO GmbH & Co. KG

Imostr. 1
91350 Gremsdorf
Germany

Tel. +49 9193 6395 - 3126

Fax +49 9193 6395 - 3140

wind@imo.de

Your contact in China

Germany IMO GmbH
Beijing Representative Office

Tel: +86 10 85296463

china@imo.de

Your contact in the US

IMO USA Corp.

Tel. +1 843 695-6200

americas@imo.us



a UL company

IMO follows the technical guidelines set by leading certifying authorities when calculating the slewing ring performance and life capabilities.

www.imo-tidal.com