

# SLEW BEARINGS & GEAR RINGS

Precision in Motion: Reliable Slew Bearings  
& Gear Rings for Every Application



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**AFF**

AUSTRALASIAN FITTINGS & FLANGES



# GLOBAL PLAYER. LOCAL MANAGEMENT.

Slew bearings and gear rings are pivotal in numerous industries, providing rotational movement and load-bearing capabilities essential for the efficient operation of heavy machinery. Australasian Fittings & Flanges (AFF) provides slew bearings and gear rings for applications in the Oil & Gas, Mining, Renewable Energy (Wind Turbines), Defence and other heavy industries. Both components are indispensable across these industries, as they offer robust and reliable rotational movement necessary for a wide range of heavy-duty applications.

## OIL & GAS

**Drilling Rigs:** Slew bearings enable the rotation of top drive systems and rotary tables, facilitating precise drilling operations.

**Offshore Platforms:** Used in cranes and pipe handling systems for the rotational movement necessary in lifting and positioning heavy equipment and materials.

**FPSOs:** Critical in turret mooring systems, allowing the vessel to rotate around the mooring point for stability and optimal positioning.

**Subsea Equipment:** Integral in ROV manipulators and subsea manifolds for flexible and precise movements.

**Loading Arms:** Enable smooth and controlled rotation in loading and unloading operations between storage tanks and transportation vessels.



## MINING

**Bucket Wheel Excavators:** Facilitate the rotation of the bucket wheel for continuous excavation processes.

**Stacker Reclaimers:** Essential for the rotational movement of booms used in stacking and reclaiming bulk materials.

**Drilling Equipment:** Used in rotary drilling rigs to provide stable and precise rotational capabilities.

**Conveyors:** Enable the rotational movement in rotary conveyor systems for efficient material handling.

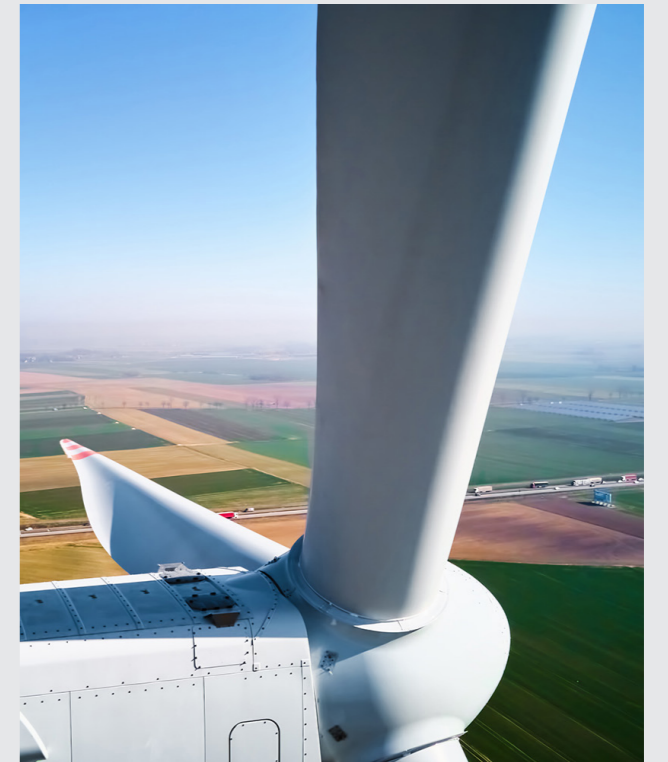
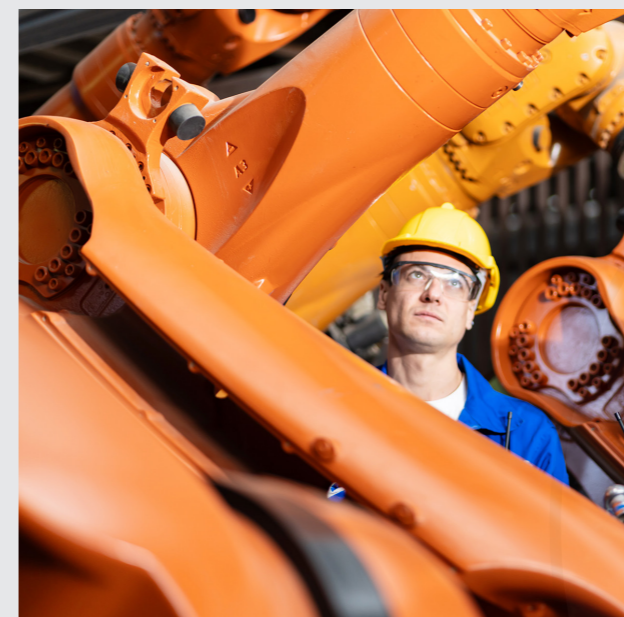


## DEFENCE

**Radar Systems:** Facilitate the rotation of radar antennas for wide-area surveillance and target tracking.

**Weapon Stations:** Used in gun turrets and missile launchers to enable precise rotational movement for targeting and firing.

**Armoured Vehicles:** Provide rotational capabilities in turrets and observation systems.



## RENEWABLE ENERGY: WIND TURBINES

**Blade Pitch Systems:** Allow for the adjustment of individual blade angles to maximise efficiency and protect against high wind speeds.

**Yaw Systems:** Enable the rotation of the nacelle to face the wind, ensuring maximum energy production.

## HEAVY INDUSTRIES

**Cranes:** Essential in tower, mobile, and offshore cranes for the rotation of the upper structure, enabling lifting and positioning of heavy loads.

**Excavators:** Allow the upper body to rotate relative to the undercarriage, providing flexibility and efficiency in digging and material handling.

**Material Handling Equipment:** Used in various machinery such as stackers, reclaimers, and forklifts for rotational movement and positioning.

**Industrial Robots:** Enable precise and flexible rotational movements in robotic arms used in manufacturing and assembly processes.



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## KEY PRODUCTS

Our main Bearing production includes:

- Geared Rings
- Four-Point Contact Bearings
- Eight-Point Contact Bearings
- Cross Roller Bearings
- Three-Row Roller Bearings
- Combined Bearings
- Profile Bearings
- Custom-Designed Bearings for Special Applications (e.g., Bearing Wheels)

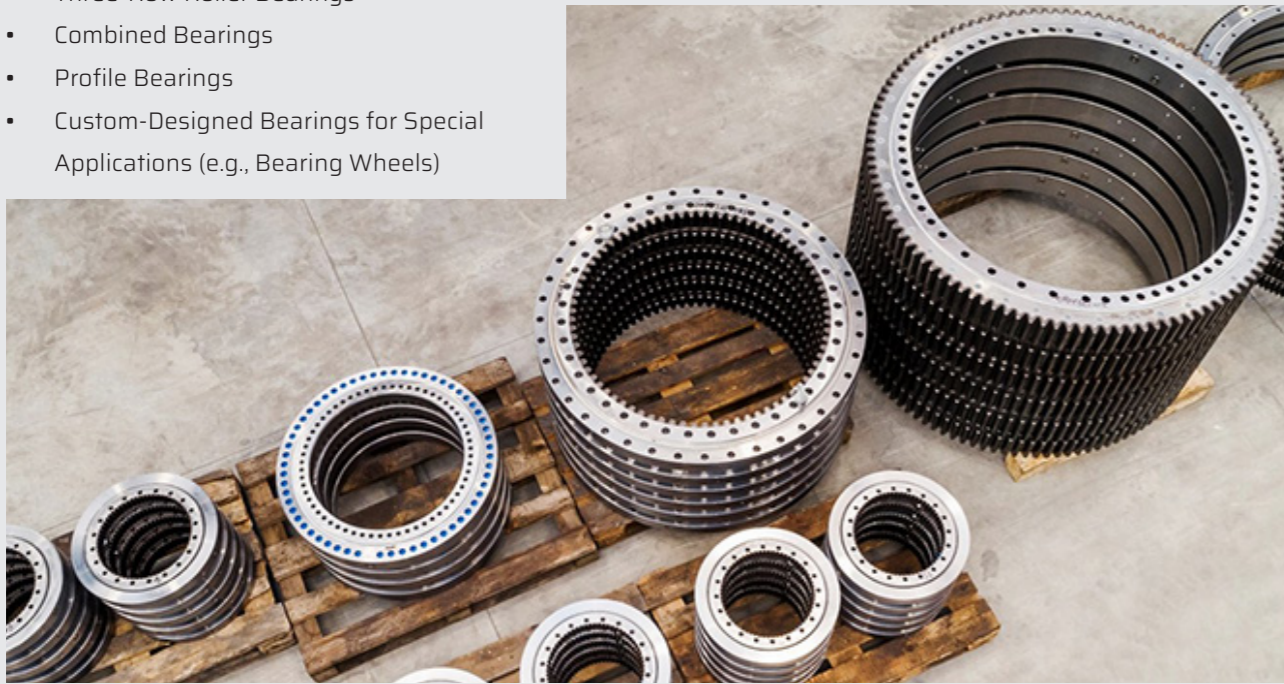
Integral and Segmented Gears

Integral and Segmented Rings

Forged Shafts

Special Forged Products

Welded Overlays



## IN-HOUSE PROCESSES

**Design:** In-house Design, Stress, Static & Fatigue Calculations and Finite Element Analysis

**Forging:** Billet Cutting, Heating, Forging, Rolling

**Heat Treatment:** Quenching and Tempering, Normalising, Material Qualification Tests

**Manufacturing:** Machining, Induction Hardening, Non-Destructive Testing, Gear Cutting, Gear Grinding, Boring-Tapping, Finishing

**Assembling:** Assembly, Zinc Spray, Painting, Greasing, Dimensional Checks, Testing, Rust Protection

**Packing, and Delivery**

**Certification:** Our forged products are ISO19025 certified, ensuring the highest quality standards. Our facilities manage any contractual proof with witnessing inspectors from Certification Bodies such as Lloyds Register, DNV, BV, TÜV, API, etc.



## KEY FEATURES AND CONSIDERATIONS FOR SLEW BEARINGS

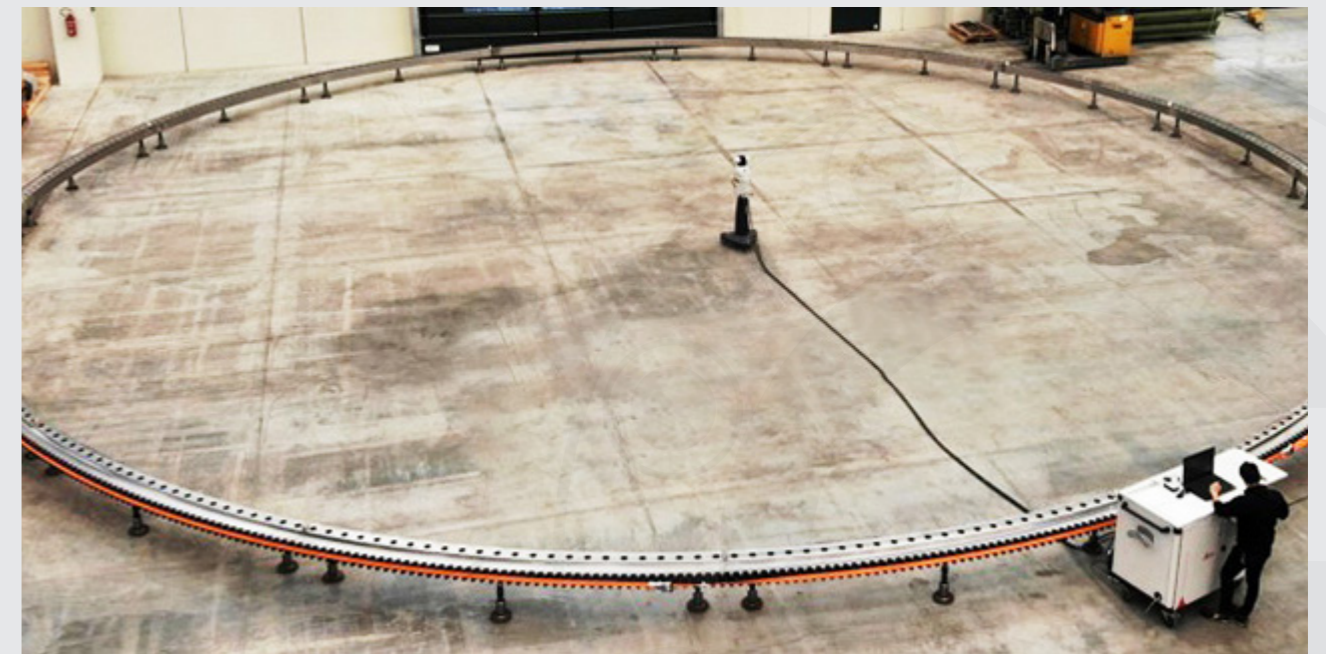
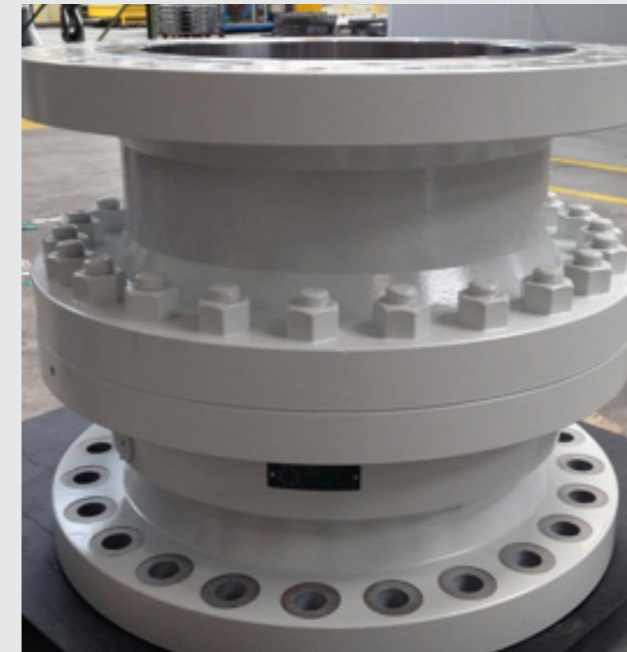
**Load Capacity:** Must handle high axial, radial, and moment loads.

**Durability:** Resistant to harsh environments, including extreme temperatures, high pressures, and corrosive conditions.

**Maintenance:** Designed for ease of maintenance with proper sealing and lubrication to ensure long-term reliability.

**Precision:** Provide accurate and smooth rotational movement essential for the efficient operation of machinery.

**Safety:** Critical for ensuring the safe operation of equipment, preventing failures that could lead to accidents or operational downtime.



## OUR STRENGTHS

**Comprehensive Product Range:** Our wide range of Slewing Bearings, Geared Rings and Special Forged Products provide a single-source solution.

**Specialised Forged Products:** We specialise in customised forged products for demanding applications.

**In-House Manufacturing:** All manufacturing processes, including forging, heat treatment, machining, and painting, are conducted in-house, ensuring optimal control at every stage.

**Specification Compliance:** We conduct thorough specification reviews to ensure complete compliance with all requirements.

**Quality and Traceability:** Our commitment to high quality and superior customer service includes full traceability of materials back to the raw source.

**Ongoing Support:** We provide ongoing solutions, advice, and recommendations throughout the entire lifespan of your plant.

**Global Sourcing:** We source superior quality products from globally renowned manufacturers, all of whom are ISO 9001 certified.

**Material Selection:** Our meticulous material selection process ensures extended facility longevity.

**Consistent Delivery:** Renowned for our consistent delivery of high-quality products

**Prompt Responses:** Rely on us for prompt and precise responses to your inquiries.

**Comprehensive Project Management:** Our services cover order management, technical queries, documentation, expediting, logistics, and more.

**Expert Guidance:** Receive expert guidance to ensure accurate installation, maintenance, and sustained functionality.

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“Bringing the manufacturer to the client” is the principle that drives our success. AFF offers a comprehensive, globally competitive supply chain, delivering innovative and cost-effective solutions tailored to client specifications. Our goal is to be the preferred supply partner, consistently ensuring that our product quality exceeds client expectations.



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