



Sliprings Division

Air Precision is a leader in the design and manufacture of electrical sliprings (also named slip ring assemblies - SRA) which allow an electrical link between a rotating and a stationary part.

Our range of sliprings, either standard or custom-built, covers most applications (μA to kA , μV to kV , DC to 500 MHz, mW to MW). We can also provide and integrate other functions ; microwave joint, rotary joint, hydraulic joint, encoder, fibre optic.

Technical skills, the activity to design and innovate are the strengths of Air Precision. More than 25% of our workforce works in these areas to guarantee reliability and high performance.

Applications :

- Defence
- Aerospace
- Space
- Industry
- Naval
- Offshore
- Radar
- Standard



Air Precision's sliprings use stacked technology as basic design. This allows 100% modularity and accessibility of the conducting rings. Stacked designs allow the use of PTFE insulation materials and advanced gold plating technologies for extended lifetime and high reliability.

Defence

Sliprings for defence applications often use different technologies. With robust mechanical design, they are built to withstand strong vibrations. Sliprings for turrets of armoured vehicles for example, transmit high power but also signals (databus, radio, multiplex). Some also contain an NBC air channel and / or an encoder.



Aerospace



Sliprings for aerospace use are designed to be as light as possible. They are often extremely compact whilst meeting stringent aerospace requirements in terms of reliability and safety. Their operating environment is severe which makes choice of materials and techniques all-important.

Space

Sliprings for use in space are extremely light and use carefully chosen materials. They are assembled in a controlled, clean environment. Air Precision uses the latest technologies in this type of sliprings to meet the exacting requirements of space applications.



Industry



These sliprings are especially robust and reliable. They contain special protections against the often harsh environments in which they operate. Channels transmitting signals (CANBUS, Interbus, Modulnet....) and power are specially adapted to their conditions of use.

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Naval

This range of sliprings is primarily designed for military naval applications. Special care is taken to ensure they are watertight (up to IP 66 for surface vessels and IP 68 for submarines). They can transmit all types of signals and power.



Offshore



These sliprings for use in oil exploration are designed for continuous maintenance-free operation over 20 years. They are made of rustproof materials and are designed to withstand a harsh marine environment.

Radar

Radar applications demand the longest lifetimes (a surveillance radar operates 24 hours a day, 7 days a week).

Direct maintenance cost is also crucial since the operational life of a radar unit can be as long as 20 or 30 years.

We use technology guaranteeing long lifetime and minimum maintenance.

These sliprings are generally linked to a high frequency rotary joint and therefore have hollow shafts.



Standard



Air Precision also has a range of standard sliprings, EEG, T13 and T20.

They use the same "gold" technology as custom-built sliprings and therefore possess excellent electrical qualities and are easily adaptable thanks to interchangeable mechanical interfaces. Derivates of standard sliprings are also available.

Quality

Since 1946, AIR PRECISION works in conformity with our customer requirements from aerospace and defence sector (EUROCOPTER, THALES, EADS, GIAT, SBM ...).

More than ever, the quality is our main target. The quality assurance department is involved at each stage of the life cycle of our equipments, from the development to the manufacturing. It permanently assume the Quality improvement by an organisation baking up on ISO 9001 procedures.

The Quality department disposes for that of highly qualified people and large up to date technical means.