AIRPORTS & AVIATION
Commercial and Military
Mission critical power solutions

Nothing protects quite like Piller
pillar.com
Piller headquarters, Osterode, Germany.

Airports & aviation

About Piller
Found in Hamburg, Germany over 100 years ago by Anton Piller, the company has a long history in the manufacturing of high quality electrical machines and power quality equipment. Today, Piller is a world leader and innovator in a number of power technology areas, especially UPS systems for mission critical applications and Frequency Converters for Aircraft Ground Power amongst other uses. Piller UPS systems are found in applications where continuous high quality power is paramount such as airports, data centres, financial institutions, broadcasting, telecommunications, healthcare facilities and continuous process production sites.

Piller Frequency Converters and related products are in widespread use across both military and civil applications providing 400Hz ground power systems to airports, ship-to-shore supplies in ports and onboard power systems for both submarine and surface vessels.

Mission-critical power solutions
The efficient day-to-day operation of a modern airport totally relies upon the continuous availability of quality power whether it is a 400Hz or 28VDC power for aircraft, runway lighting, terminal buildings or maintenance hangars, instrument landing systems and electronic display boards. It may only be a matter of seconds between power going down and standby generators coming on line, but that short delay could cause catastrophic results. As one of the world’s leading UPS and frequency conversion suppliers, Piller understands the need to maintain power at all times, especially in times of utility outages or other crises, ensuring power is always available to aircraft at civil or military installations.

Piller is located in Osterode, near Hanover in Germany with regional offices in Asia, the Americas and in a safety-certified subsidiary of the UK based industrial group, Langley Holdings plc.

Proven technology

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Power solutions

Piller provides its customers with a complete line of rotary and static (solid state) frequency converters and UPS systems as well as gate boxes, distribution panels and accessory equipment such as cable hoists and retrievers.

Many varieties and configurations of special problem solving systems are also available to ensure clients get the best technical solution and equipment for their particular application. Piller is dedicated to client satisfaction by providing total support during the design stage, installation and especially after commissioning. Piller has a team of many trained technicians strategically located around the world to support its many products.

The diagram illustrates typical applications using Piller equipment to protect critical airport systems and provide quality power to aircraft at the boarding gates and maintenance hangers.

Critical to safety and on-time take off

Piller Gate Box.

Piller Gate Box.

Central system with Piller Motor-Generator Sets.

Central system with Piller Motor-Generator Sets.

Central (MG Set) Decentral (APOJET) Tower UPS APOSTAR UPS UNIBLOCK™ Diesel UNIBLOCK™

Building Management System UPS APOSTAR, UPS UNIBLOCK™, Diesel Rotary UPS UNIBLOCK™

Building Management System UPS APOSTAR, UPS UNIBLOCK™, Diesel Rotary UPS UNIBLOCK™

BUILDING MANAGEMENT SYSTEM UPS APOSTAR, UPS UNIBLOCK™, Diesel Rotary UPS UNIBLOCK™

Piller Rotary Diesel UPS systems UNIBLOCK™ for air side protection of runway lighting and navigation aids.

Piller central systems are installed at several international airports. Installations include multiple 315kVA auto load sharing and paralleled Rotary APOJETS with distribution switchgear and regulated gate boxes.

Piller’s A/P (line voltage regulator) has been selected by airlines to provide constant voltage without having to replace existing cables from the central power system.

Piller equipment is supporting assembly and test facilities for commercial aircraft manufacturers around the world.

Piller builds low profile units in 28VDC as well as 20kVA to 315kVA 400Hz units that can be mobile or staked at the point of use for individual aircraft.

Piller Solutions:

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Piller Solvoll Slide connection APOJET AJS.
# Piller products

**Modular Type** | **kVA ratings**
--- | ---
**UNIBLOCK™** | Rotary and Diesel UPS System from 400kVA - 50MVA.
**APOJET AJR** | Static UPS Systems from 20kVA - 400kVA.
**Solid State 400Hz Units** | All units can be paralleled and used in centralised systems.
**APOJET AJS** | Compact: 40, 80, 120, 150, 180, 200kVA
| Flat Pack: 120, 190, 220kVA
**APOJET AJS Combi** | 200kVA
| Small Compact: 400kVA and 600kVA
**Rotary 400Hz units** | APOJET AJS Combi: Compact 40 - 90kVA 400Hz and 28VDC / 600A
**MG Sets for centralised systems** | 250, 315, 380kVA
**Automatic Voltage Regulators 400Hz** | All units can be paralleled and used in centralised systems.
**APOJET AJT** | Gate-Box: 90 - 150kVA with or w/o step-down transformer.
**Auxiliary Equipment** | APOCOIL: Bridge or Ground up to 28m single jacketed cable storage.
**APOPOWER** | Bridge: Economical cable handling system.
**400Hz Distribution Panel** | Engineered and customised multi-output, kVA ratings on request.

Other units and equipment available on request.

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## Unrivalled after sales service

Across the globe the Piller network is committed to delivering world-class service resources and Piller centre unrivalled by other manufacturers. A highly qualified team of service and support technicians are there to uphold the very best standards of customer care.

Services range from installation and commissioning to predictive analytics, emergency calls, spare parts, planned maintenance and training. A direct link to Piller engineers and technicians through Piller’s advanced digital control technology is available on every unit (rotary and static) offering 24/7 Remote Monitoring and Support with total diagnostics and 1,200 event memory.

- **Maintenance**
- **Technical support**
- **Operator training**
- **24-hour call-out**
- **Tempary UPS systems**
- **Comprehensive spares**
- **Remote monitoring**
- **Worldwide service organisation**

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[Image of Piller products]

[Image of Unrivalled after sales service]