



OFFERING
SMART & FUTURISTIC GSE
FOR YOUR AIRCRAFTS



TRUSTED GSE BRAND FOR
FOUR DECADES IN
40+ COUNTRIES



SOLID STATE GROUND POWER UNIT



AIR START UNIT



AIR CONDITIONING UNIT



AIR+MAK INDUSTRIES INC.

11154, Wildwood Drive, Olive Branch, MS-38654, USA

www.airmak.com

ABOUT US

HISTORY

AIR+MAK Industries Inc., Olive branch, USA, was established in 1997 as part of MAK group to specialise in manufacturing aviation ground support equipment(GSE) on a global scale and deliver unrivaled products across the globe.

Air+Mak is a leading manufacturer of reliable, up-to-date digital GSE for diverse requirements arising in civil and military aviation.

Air+Mak is poised to expand its presence in aviation and defense sectors through its continual R&D efforts towards bringing leading edge technology to our GSE.

MILESTONES - A GLIMPSE

Few of the milestones projects executed by Air+MAK are designing and building a Ground Power units for the US Army, customized Air Start Unit for GE90-115B engine testing, aircraft hydraulic system testing rig and specialised GSE for Boeing, USA..

OBJECTIVE

Air+MAK Group aspires to carve a niche name across the aviation and defense sector. It aims to have major international airlines and defense organisations use MAK GSE and desire to partner with leading defense organisations across the world to significantly contribute towards major defense projects through unique innovation & modern technology.

INFRASTRUCTURE

Air+MAK boasts of an advanced manufacturing set-up in Olive branch, USA to build its complete aviation GSE range that cater to commercial airlines, FBOs and numerous non-scheduled operators.

Further, a skilled workforce to build the units with uncompromising precision and quality along with dedicated engineers to provide quick and effective customer support make MAK GSE the best choice.

RESEARCH & DEVELOPMENT

All products are conceptualised and developed in-house at our Department of Scientific & Industrial Research (DSIR, GOI) recognised research & development center.

R&D being core activity at MAK, we take pride in designing and manufacturing GSE to unrivaled standards meeting challenging operational requirements.

Notable R&D efforts are focused on Automation, embedded systems, Internet of things (IoT), Power electronics and Pneumatic and hydraulics equipment.

The mechanical structure of products are analysed and validated on a professional

software on FEA & CFD, where real time operating conditions are simulated. This helps us ascertain material strength and effect of various stresses acting on the structure.

In short, Air+MAK ensure safety factors exceed industrial standards considering demanding operational requirements of the products.

Air+MAK design & manufacture shelters for defense applications as large as 40 feet that are ready for deployment on road, rail, marine and applications as Mobile power units, communication shelters and so on..



DESIGN:

Air+MAK's versatile team of highly-qualified designers ensures our products design conforms to stringent standards such as AHM, MIL and JSS Penta five (JSS 55555). Incorporated design elements ensure products are robust, dependable and ergonomic. Designer's efforts are aided by competent software to visualise products in their operating conditions and simulate user behavior under varied stages of operation & maintenance.

QUALITY ASSURANCE:

Extensive quality testing begins right from component selection, manufacturing process regulation, stage inspection and up to final Factory acceptance testing with customers.

Air+MAK utilize our full-scale computerised testing facility, including Environmental Stress Screening Climatic test chamber, Thermal shock chamber, vibration tester, rain test facilities conforming to MIL standards.

BRANCH OFFICES:

MAK's offices have been set-up across the Asia Pacific region with authorised distributors across North America, South America and Europe, adequate spare parts inventory primarily to carry out AMC activities, ad-hoc servicing of MAK equipment and to take care of business and to generate mutually beneficial local business.

GROUND SUPPORT EQUIPMENT



40/60/90/140/180 KVA 400 Hz A.C & 28.5V DC
(OTHER MODELS AVAILABLE ON REQUEST)

GROUND POWER UNIT

Air+MAK diesel engine/electric motor driven Ground power units comply to latest EPA regulations with low noise levels and are compact in size to avoid cluttering around aircraft.

It comes with a digital control system - touch screen panel for monitoring of operational parameters with MAK RDMS, a unique optional feature.

Available in Towable Trailer mounted / Truck Mounted / Self propelled configurations.



40kw to 140kw 400Hz AC & 28.5V DC

SOLID STATE GROUND POWER UNIT

Air+MAK Static Ground Power Units (SGPU) are compact and movable to any where in the airport and ensure no clutter around the aircraft's vital areas.

Boast of latest semi-conductor technology to ensure maximum efficiency (>95%) and low THDi (<3%) across full load cycle. SGPU comes with user friendly control panel and data logging features.

Available in Fixed / Trolley mounted / Jet bridge mounted configurations



5TR/30TR/65TR/70TR/120TR/140TR/150TR
(OTHER MODELS AVAILABLE ON REQUEST)

AIR CONDITIONING UNIT

Air+MAK direct / electric driven Air Conditioning Units provide quick cooling or heating to an aircraft's cabin on ground.

Provides fully automated temperature control via digital control system (touch screen) with MAK RDMS, a unique optional feature.

Available in Towable Trailer mounted / Truck Mounted / Self propelled configurations.

AIR START UNIT



100PPM/120PPM/180PPM/250PPM/300PPM/400PPM
(OTHER MODELS AVAILABLE ON REQUEST)

Air+MAK Air Start Units are capable of starting aircraft engines up to GE 90, the world's most powerful commercial jet engine to date.

Auto adjusted airflow depending on aircraft requirement via digital control system with MAK RDMS, a unique optional feature.

Design and manufacture storage type air starter units as well.

Available in Towable Trailer mounted / Truck Mounted / Self propelled configurations.

APRON TRACTOR



MAK AT20(E)

Air+MAK tow tractors are designed to tow baggage, GSE equipment on the tarmac with a drawbar pull of 4,000lbs.

Power steering and power brakes with in-built regenerative braking system to recharge batteries on the drive.

LOAD BANK



45/80/100/120/140 KVA 400Hz A.C
28.5V 1500A/2000A/2500A ESS DC

Portable resistive load banks for 400HZ AC and 28V DC to test aircraft GPUs and SFCs.

Digital touch screen control panel with option for Data logging via USB

Light in weight and stroller mounted to carry anywhere in the world just like a suitcase.

MAK's SPECIAL PROJECTS FOR DEFENSE APPLICATION

PSU FOR RADAR



POWER CONDITIONING UNIT



SELF PROTECTED PSU FOR RADAR



12MW CONTAINERISED PSU



DUAL RECTIFIER CENTER



POWER SUPPLY DETACHMENT



FEW OF OUR PRESTIGIOUS CUSTOMERS

Boeing, USA
GE Aviation, USA
U.S. Army
Million Air, USA
Delta Air lines, USA
Prime Flight, USA
United Airlines, USA
Kalitta Air, USA

Scaled Composites, USA
Huntington Tri-State Airport, USA
Houston aircraft international, USA
Endeavour air, USA
ATS, USA
Mexicana MRO, Mexico
Air Corridor, South Africa
GDC, Middle East

Brazilian Air Force
SAGS
Yemen Airforce
Qantas, Australia
Colombia Air, Brazil
GOL Airlines, Argentina
Florence Airport, Italy
AVDA spa(Aosta), Italy

Egypt Air
GATE, France
Air Asia
Singapore Airlines
Singapore Civil
-Defense force
Malaysian Airlines
and much more...

ONE STOP DESIGN AND SYSTEM INTEGRATION HOUSE FOR ALL YOUR ENGINEERING NEEDS

AIR+MAK INDUSTRIES INC., USA

11154, Wildwood Drive, Olive Branch, MS-38654, USA



+1 662 893 3444



info@airmak.com



www.airmak.com

BRANCH OFFICE:

KUALA LUMPUR, MALAYSIA

Phone : +601 23281487

Email : makkul@airmak.com