



OFFERING SMART &  
FUTURISTIC GSE FOR  
YOUR AIRCRAFTS



TRUSTED GSE BRAND  
FOR FIVE 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](http://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.

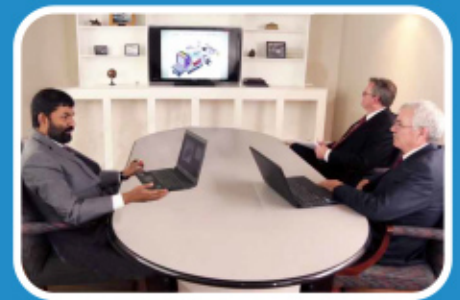
Notable R&D efforts are focused on Automation, embedded systems, Internet of things (IoT), Power electronics and Pneumatic and hydraulics equipment.

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



60/90/140/180 kVA 400 Hz AC & 28.5V DC

## GROUND POWER UNIT

Our 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 in-built MAK RDMS - a feature rich fleet management software.

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



2kW to 140kW 400 Hz AC & 28.5V DC

## STATIC FREQUENCY CONVERTOR

Our Static Ground power units (SGPU), is compact and movable to anywhere in the airport and ensure no clutter around the aircraft's vital areas.

Latest semi-conductor technology to ensure maximum efficiency (>95%) and low THDI (<3%) across full load cycle. Come with user friendly control panel with data logging features.

Available in Fixed / Trolley mounted / Jet bridge mounted configurations



100PPM/120PPM/180PPM/250PPM/300PPM/400PPM

## AIR START UNIT

Our Air start units are capable of starting aircraft engines up to GE 90, the world's most powerful commercial jet engine to date, made with screw compressors that are the most efficient in the market.

We design and manufacture Storage type air starter units as well. Auto adjusted air flow depending on aircraft requirement via digital control system and in-built MAK RDMS.

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

## AIR CONDITIONING UNIT



5TR/15TR/24TR/30TR/65TR/115TR

Our direct/electric driven Air conditioning units provide quick cooling or heating to an aircraft's cabin on ground. We manufacture ACUs for all types of aircraft.

Provide fully automated temperature control via digital control system (touch screen) and in-built MAK RDMS.

Option: Shore power transfer switch/ 28.5V DC output

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

## MAK 28V DC STATIC GROUND POWER UNIT



28V SGPU 600

Meets MIL, AHM & ARP standards

Output DC voltage independent of 10% input voltage variations

Output current limit setting is adjustable over the range of 200 to 2000 amps.

Convenience receptacle for lights, electric drill, or test instruments

## LOAD BANK



45/80/100/120/140/kVA 400Hz AC 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.

Available in Stroller mounted configuration



## 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