

المركز العسكري المتقدم
للصيانة والإصلاح والعمره

ADVANCED MILITARY
MAINTENANCE REPAIR
OVERHAUL CENTER



REDEFINING MRO SERVICES





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INTRODUCTION

- KEEPING YOU FLYING
- EXPANDING THE BOUNDARIES OF MRO
- MRO IN NUMBERS
- AMMROC INDUSTRY RECOGNIZED CERTIFICATION



KEEPING YOU FLYING

World-Class Engineers and Facilities

AMMROC specializes in delivering world-class Maintenance, Repair, and Overhaul (MRO) services, supporting both military aircraft sustainment and civilian aviation operations. We are recognized as a key regional asset and a valuable global resource.

Our offerings cover full value chain of MRO, including:

- Depot-level inspections
- Engine, component, and airframe repairs and overhauls
- Upgrades and modifications
- Comprehensive engineering solutions
- Logistics support and parts supply

These capabilities are supported by a state of the art facility located in Al Ain, and is equipped with:

- Five versatile hangars
- Over 30 engineering back shops
- A specialized climate-controlled paint facility

At AMMROC, we take pride in providing tailored, efficient, and innovative solutions that meet the highest industry standards, ensuring the reliability and performance of our clients' aircraft fleets.



EXPANDING THE BOUNDARIES OF MRO

AMMROC ALAIN

- Our new MRO facility in Al Ain (MRO AA) is a comprehensive aviation sustainment center, designed to deliver depot-level MRO services with a steadfast commitment to the highest quality standards.

The brand-new, ultra-modern facility is strategically located on a 1 km² site within the Nibras Aerospace Park, near the Al Ain International Airport in Abu Dhabi, UAE.

The facility boasts a gross floor area of 140,000 m² providing ample space for comprehensive operations.

The site has a modular design approach to promote future expansion and currently includes five multi-purpose hangars, 30+ back shops and a dedicated climate-controlled paint facility.

The facility offers an unmatched regional capacity with over 36,500 m² of dedicated hangar space, making it one of the largest military and civil MRO hangar facilities in the region.

The project hangars provide a unique capability to isolate different customer aircraft, ensuring compliance with ITAR and country-specific export control regulations within secured hangar spaces.

- Project hangars isolate customer aircraft, ensuring compliance with ITAR and export control regulations.
- Supports MRO single-shift capacity for up to 1,000 staff with an electric load of over 100 MW for operational flexibility.
- Features a dedicated Black Hawk nose-to-tail depot, covering LRUs, blades, transmissions, engines, and sub-systems.
- Only regional facility with a dynamic blade test whirl stand and dedicated transmission test cells for rotary-wing aircraft.
- Provides extensive back shop infrastructure for comprehensive MRO services.
- Component repair shops include universal test stands for electromechanical, hydraulics, fuel systems, and pneumatic systems, serving rotary and fixed-wing aircraft

"A One-Stop Solution"

Supporting 35+ aircraft platforms for the UAE and regional markets, uniquely positioned to deliver comprehensive MRO services.

MRO IN NUMBERS

140,000 m² **1** km²

Gross Floor Area

Site

130,000 m² **400**

Code F Apron

Capacity HQ Building

1,000

Staff in MRO Single
Shift Capability

30 +

Back Shops

36,500 m²

Dedicated Space Inclusive of
Paint Shop

5

Hangars

AMMROC INDUSTRY RECOGNIZED CERTIFICATION

- LOCKHEED MARTIN HERCULES SERVICE CENTER (HSC)
- AS9110:C AND ISO 9001:2015 CERTIFIED QUALITY MANAGEMENT SYSTEM (QMS)
- ISO 22031 CERTIFIED BUSINESS CONTINUITY MANAGEMENT SYSTEM (BCMS)
- FEDERAL AUTHORITY OF NUCLEAR REGULATION (FANR) LICENSE HOLDER
- ADOSH / OSHAD & EAD APPROVED EHS MANAGEMENT SYSTEM

NDT SPECIALIZED SERVICES INCLUDING:

- LIQUID PENETRANT (PT)
- MAGNETIC PARTICLE (MT)
- EDDY CURRENT (ET)
- ULTRASONIC (UT)
- RADIOGRAPHY (RT)

DASSAULT AVIATION:

OEM RECOGNIZED CAPABILITY REPAIR & OVERHAUL OF:

- LANDING GEAR
- COMPONENTS

LOCKHEED MARTIN:

APPROVED REPAIR CENTER FOR:

- PDM
- PNEUMATIC TEST SYSTEMS
- BRAKE ASSEMBLY REPAIR & OVERHAUL

Supporting multiple aircraft types both fixed and rotary-wing, we provide:

TECHNICAL SUPPORT SERVICES

- FIELD SUPPORT SERVICES
- ENGINEERING SERVICES
- SUPPLY CHAIN SOLUTIONS
- INFORMATION TECHNOLOGY SERVICES
- PROGRAMME MANAGEMENT SERVICES
- TECHNICAL TRAINING SERVICES

AIRFRAME SERVICES & PAINTING

- NOSE TO TAIL STRUCTURAL CAPABILITIES
- AIRFRAME SERVICE CAPABILITIES
- PAINT SHOP COMMERCIAL STATEMENT

ROTARY SERVICES

- AIRFRAME
- BLADE SHOP
- ROTOR AND TRANSMISSION SHOP
- ARMING THE BLACK HAWK
- BLACK HAWK UH-60 WEAPONIZATION

ENGINE SERVICES

- STATE OF THE ART TESTING AND REPAIR
- ENGINE TEST CELL CAPABILITIES
- ENGINE CAPABILITIES

COMPONENT SERVICES

- COMPREHENSIVE COMPONENTS TESTING CAPABILITY
- ADVANCED ENGINEERING STRATEGIC PARTNERSHIPS
- HYDRAULIC, FUEL, ELECTROMECHANICAL & PNEUMATIC SHOP
- COMPONENT CAPABILITIES

SUPPORT SHOPS

- MACHINING SHOP
- SPECIAL PROCESS SHOP
- NDT SHOP
- STRUCTURE SHOP
- COORDINATE MEASUREMENT MACHINE
- CLEANING SHOP
- CALIBRATION SHOP





TECHNICAL SUPPORT SERVICES

- FIELD SERVICES
- ENGINEERING SERVICES
- MRO SUPPLY CHAIN SOLUTIONS
- INFORMATION TECHNOLOGY SERVICES
- PROGRAMME MANAGEMENT SERVICES
- TECHNICAL TRAINING SERVICES



TECHNICAL SUPPORT SERVICES

24/7 Support With A 360 Degree View

As an international center of excellence in aviation MRO engineering, we provide a comprehensive suite of advanced technical support services, continually evolving to meet future demands and capabilities.

1 FIELD SERVICES

The AMMROC Field Services team delivers global standards of engineering assistance and maintenance, supporting customers' aircraft with both scheduled and unscheduled maintenance as well as crash recovery.

This deployable capability offers skilled manpower and comprehensive planning to conduct inspection, maintenance, and repair activities at either the customer's site or their preferred maintenance facility.

2 ENGINEERING SERVICES

Led by industry SMEs, AMMROC field services support engineers are capable of answering comprehensive aircraft technical queries and are specialised in all major trades, such as avionics, power plants, aircraft systems, blades, rotors, transmissions and structures.

Technical Excellence

AMMROC leverages technical support agreements with major OEMs, ensuring direct access to OEM expertise for delivering unmatched technical support services.

ENGINEERING ADVANCED SOLUTIONS

At AMMROC, we undertake major and minor modifications and upgrades for a variety of fixed and rotary-wing aircraft, all tailored to our customers' operational demands, and all to the highest industry standards.

- Avionics modernisation programmes, hardware and software upgrades and installation.
- C-130 avionics suite upgrades and glass cockpit installations designed to extend the life of your aircraft. AMMROC is a Lockheed Martin approved C-130 Hercules service centre.
- Routine modifications and updates from service bulletins and TCTOs.
- Dedicated engineering team developing customer-focused solutions.
- Capable of integrating upgrades during Programmed Depot Maintenance (PDM).
- Complex modifications and upgrades such as Armed BLACK HAWK programme.
- UH-60L to V upgrades.
- Design and embodiment of custom requirements/modifications whilst capitalizing on our long-term OEM partnerships.
- Minor design modifications.
- Stand-alone Kit Installation.
- Partnership with certified solution providers to meet customer special requirements.

ENGINEERING DESIGN

AMMROC Engineering provides comprehensive support to customers across various design aspects, ranging from basic tooling design to the development of complex aircraft repairs. The Engineering team has expertise in methods and special process development, static and dynamic structural analysis, fatigue and stress evaluation, crack growth propagation predictions, deviation assessments, and independent compliance verification. Proficient in advanced tools such as CATIA, AutoCAD, ANSYS, NASGRO, NIGRAPHICS, CREAFORM Scanner, and THEODOLITE tools, AMMROC ensures precision and innovation in every project.

The team is also actively working towards obtaining a Design Organisation Approval (DOA) to further enhance its capabilities.

DESIGN & DEVELOPMENT

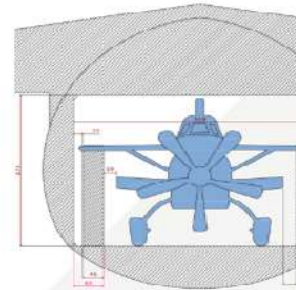
Design & Engineering include:

- Design and Development of specialized support equipment
- Stress, fluid dynamics & fatigue analysis
- Design & manufacturing of tools
- Modifications (instructions and drawings)
- Substitution solutions (form, fit, function)

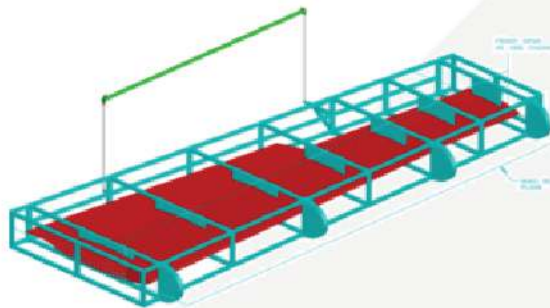


Engineering Software:

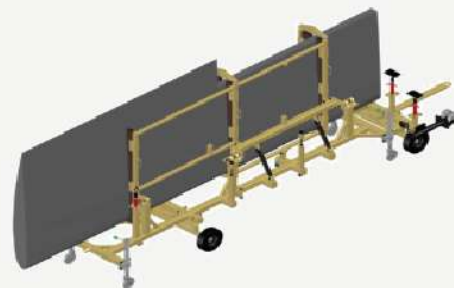
- ANSYS - NASGRO
- CATIA - AutoCAD



Simulation of Aircraft deployment in C-17



AutoCAD model of wing flip tool



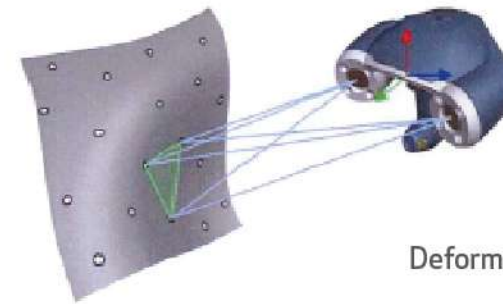
3D CAD model of Rapid Deployment Tool used for wing removal, installation and transportation.

MODELING

Full-scale modeling post 3D scan



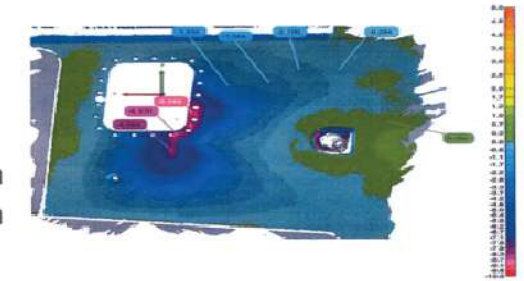
Hardware tools such as CREAFORM 3D scanner and THEODOLITE



Fuselage Skin Deformation Evaluation

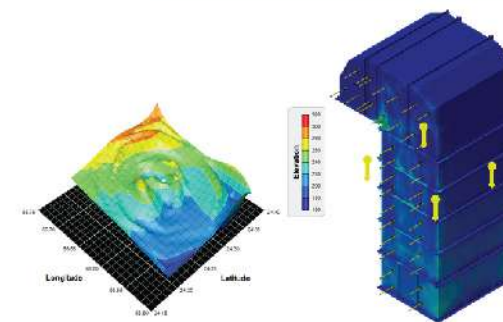


Full scale modeling post 3D scan



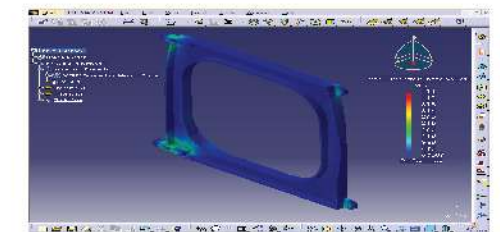
ENGINEERING ANALYSIS

Stress and Computational Fluid Dynamics (CFD) analysis



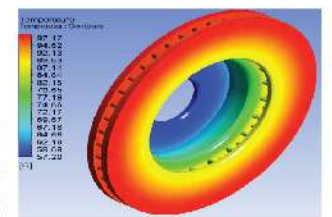
Example Project: Air Inlet Duct Analysis

- Conducted stress analysis to evaluate the structural suitability of the Air Inlet Duct.
- Utilized CATIA V5 for analytical design.
- Estimated site-specific peak wind velocity pressure using:
 - Google Maps API
 - Dubai Municipality wind code

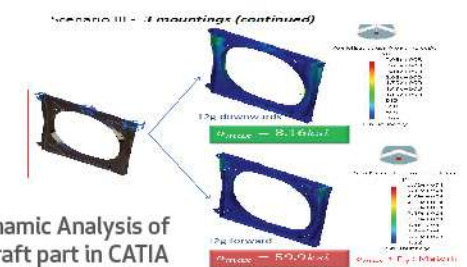


Full scale modeling post 3d scan

Computational Fluid Dynamics (CFD) analysis of aircraft part



Dynamic Analysis of aircraft part in CATIA



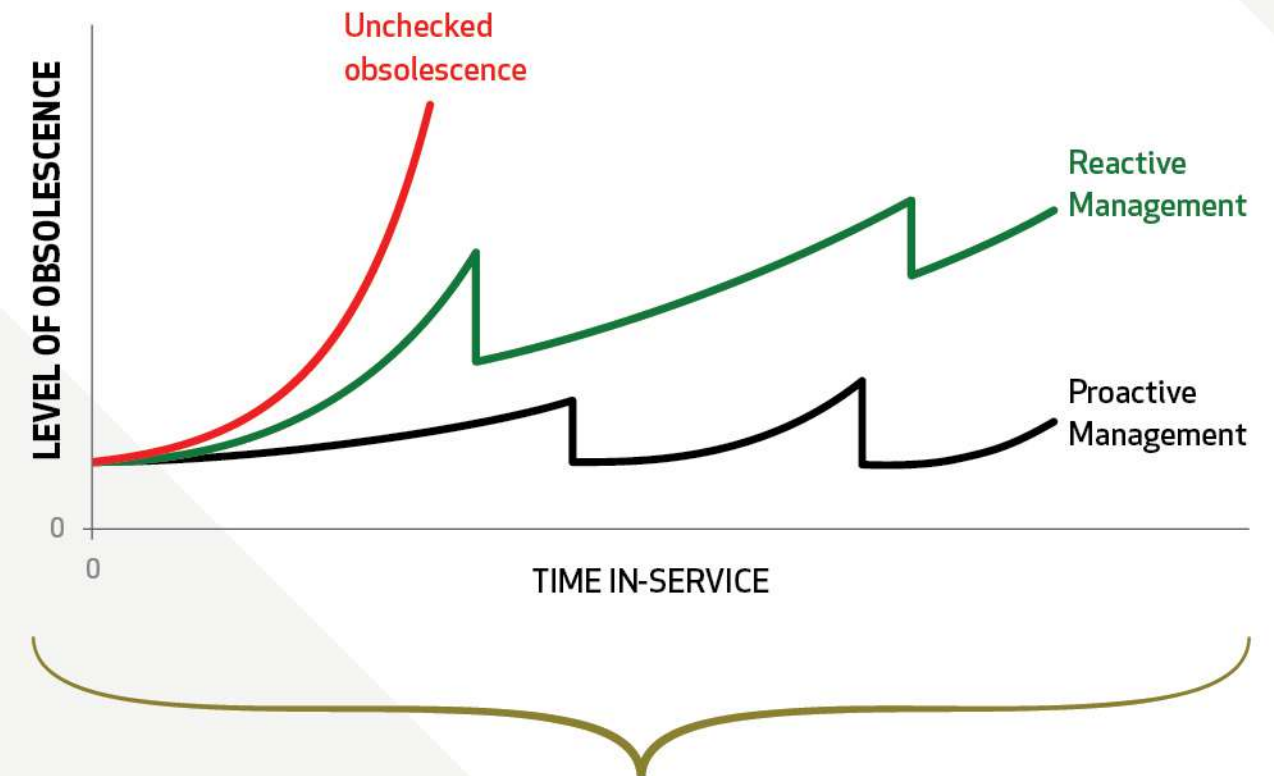
MAINTAINABILITY AND RELIABILITY

Our Reliability Program is designed to ensure aircraft safety, enhance aircraft availability, and meet mission requirements. In addition, the program ensures that the Aircraft Maintenance Program tasks are effective and that the periodicity is adequate.

- Continuous reliability monitoring and reporting (Reliability Reports)
- Failure Mode, Effect, and Criticality Analysis (FMECA)
- Advanced statistical analysis and prediction; Weibull and Poisson Analysis
- In-house developed prediction software



OBSOLESCENCE MANAGEMENT



AMMROC has a robust obsolescence management system based on international standards ensuring safety and availability of fleet to accomplish their mission.

AMMROC's capability includes:

- Proactive obsolescence / DMS management
- Maintain platform risk ledger
- Continuous obsolescence monitoring using DMS risk ledgers
- Forecasting / predictions
- Predict impact of obsolescence on fleet readiness

PUBLICATIONS MANAGEMENT

Through our robust process, we ensure that all technical publications are in good hands and being managed properly.

Real-time Integration

Transferring the OEM Interactive Library / web based technical publication to internal server that applies the restrictions per ITAR regulation

- ✓ Assessment and implementation of Service Documents and Technical Publications update

OEM Relationships

Established relationships with OEMs in providing technical publication sustainment.

- ✓ Tracking of subscriptions
- ✓ Full Management of Technical Publications from Ground Support to Aircraft up to component level



Security Compliance

Well established and secured networks with the restrictions per ITAR regulations.

- ✓ Control of ITAR and Non-ITAR documents: Storage and distribution of technical data through secured network while maintaining accuracy and currency, including web based / OEM interactive library.

Quality standards

Robust policies and procedures in compliance with AS9110 and military standards

- ✓ Management of different types of publications from different sources in a standardized and logical format

3 MRO SUPPLY CHAIN SOLUTIONS

AMMROC Supply Chain solution uses a combination of experienced workforce, global partner network agreements and advanced technologies to simplify customer supply chain need:

1. Inventory Optimization

- Accurately forecast demand to ensure availability of critical parts.
- Minimize excess inventory while maintaining operational readiness.
- Tailored solutions for line-level and depot-level MRO operations.

2. Procurement Optimization

- Streamline sourcing and ordering processes for efficiency.
- Reduce procurement lead time with automated workflows and strategic vendor partnerships.
- Ensure cost-effective purchasing while maintaining quality standards.

3. Supplier Management

- Gain end-to-end visibility across the supply chain.
- Engage and manage approved OEMs and vendors for quality assurance.
- Build strong supplier relationships to ensure timely delivery and compliance.

4. Transportation, Logistics, and Warehouse Solutions

- Efficiently manage the movement of parts and tools to reduce downtime.
- Ensure all new parts received at the HUB are compliant with no discrepancy
- Spare parts tracking and maintain wall-to-wall inventory accuracy
- Effective issuing of the material to fulfil operational requirement

4 INFORMATION TECHNOLOGY SERVICES

We offer integration and upgrade capabilities for complex MRO IT solutions, including ERP systems, customer-specific applications, and IT infrastructure, seamlessly functioning across multiple IT platforms and products.

5 PROGRAMME MANAGEMENT SERVICES

- Customer dedicated programme management office (PMO) with structured project governance and communication.
- Experienced in executing Air Force fleet-wide performance based logistics programmes with stringent KPIs.
- Continuous improvement programmes using lean six sigma, risk management and other contemporary tools to ensure best-in-class project management practices.

6 TECHNICAL TRAINING SERVICES

- AMMROC features a dedicated airside training academy capable of accommodating over 300 people.
- The academy offers a balanced mix of on-the-job training, instructor-led sessions, and computer-based simulated classroom training, leveraging AMMROC's industrial environment.
- Training programs are fully customized to cover a wide range of aviation industry disciplines, ensuring tailored learning experiences for participants.

```
int main()
{
    int squareSize, row, col;
    int maxLength;
    int strLen;
    char str[100];

    printf("Enter number for square size : ");
    scanf("%d", &squareSize);

    maxLength = ((squareSize-2) * 2)-1;
    rowInsert = squareSize / 2;

    printf("Enter string for insert to square (MAX=%d Char) : ", maxLength);
    scanf("%s", &str);
}
```

```
int main()
{
    int octagonSize;
    int r, s, i;

    printf("Enter number for Octagon size : ");
    scanf("%d", &octagonSize);

    for(r=0; r<octagonSize; r++)
    {
        for(s=0; s<=octagonSize-r; s++){
            printf(" ");
        }

        for(i=0; i<octagonSize; i++){
            if(r==0){
                printf("%s", str);
            }
            else if(r>0 && octagonSize == 2){
                printf("%s");
            }
            for(s=0; s<(octagonSize*2-3)+r*2; s++){
                printf(" ");
            }
        }

        printf("\n");
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    return 0;
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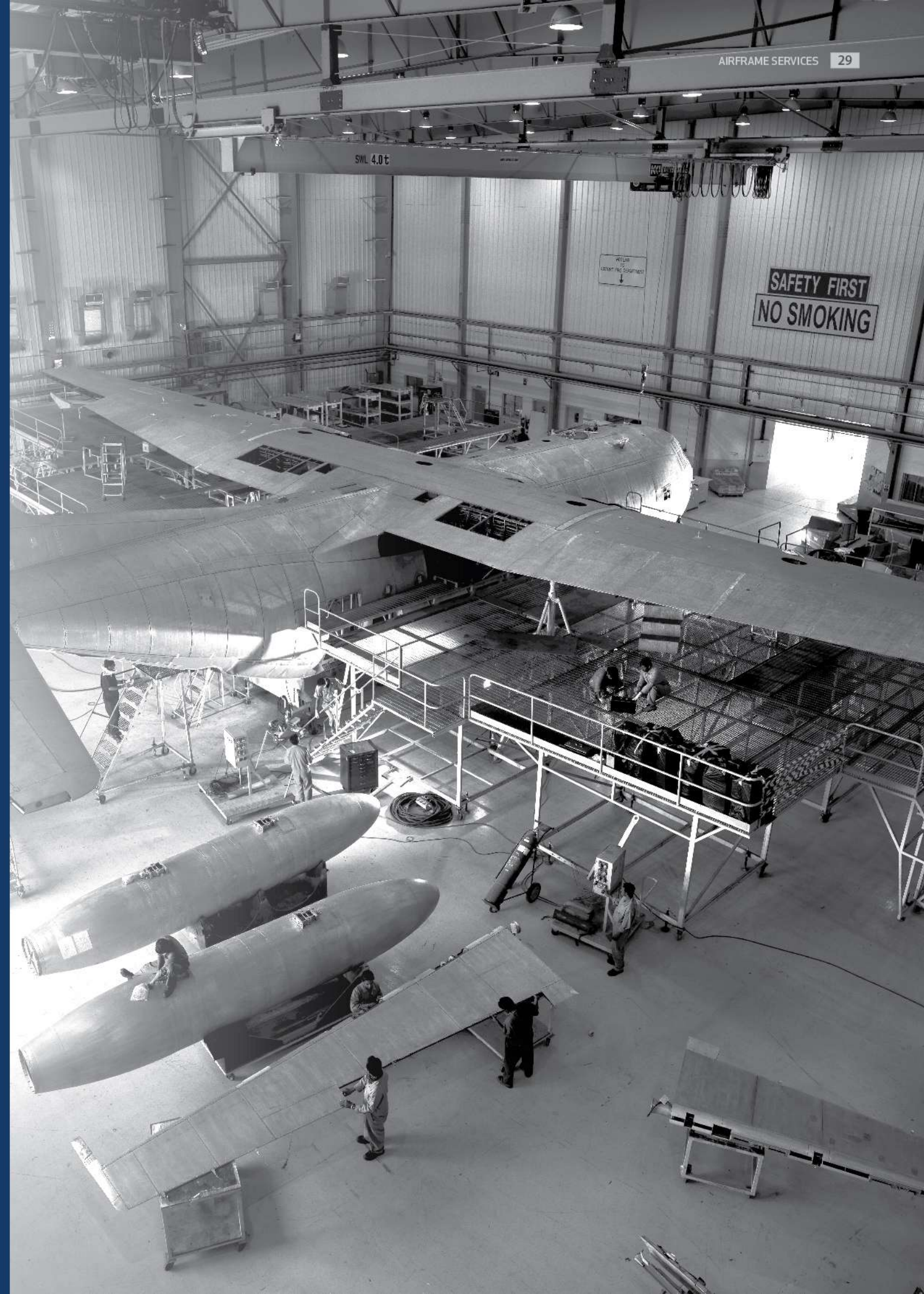
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    }

    return 0;
}
```




AIRFRAME SERVICES

- NOSE TO TAIL STRUCTURAL CAPABILITIES
- AIRFRAME SERVICE CAPABILITIES
- PAINT SHOP COMMERCIAL STATEMENT



AIRFRAME SERVICES

1 NOSE-TO-TAIL STRUCTURAL CAPABILITIES

We provide unrivalled airframe MRO services for a diverse range of rotary and fixed-wing aircraft platforms. We are a Lockheed Martin certified C-130/L-100 Service Centre for Middle East and North Africa.

Organisational & Intermediate Level Maintenance

For 35+ aircraft types.

Depot Maintenance

Check levels and comprehensive heavy maintenance on several aircraft types such as C-130, CN-235, A330 MRTT, C-295, F-16, Mirage 2000, UH-60, and Airbus helicopters.

Painting

For all aircraft types up to wingspan of 80m with dedicated paint hangar. Full suite of Back Shop Support Services.

Hangarage

With a high level of security to conduct special and multi-purpose projects.

MRO HANGARS (X5)

SPECIAL PROJECTS



HEAVY MAINTENANCE



PAINTING



2 THE FOLLOWING ARE SOME OF OUR AIRFRAME SERVICE CAPABILITIES:

- NOSE-TO-TAIL AIRCRAFT SERVICING
- AIRCRAFT PAINTING AND STRIPPING
- MAJOR AND MINOR STRUCTURAL REPAIRS
- PRIMARY AND SECONDARY FLIGHT CONTROL REPAIRS AND REPLACEMENTS
- CENTER AND OUTER WING REPLACEMENTS, REPAIRS AND MODIFICATIONS
- FUSELAGE NOSE & WING PANELS REPAIR AND REPLACEMENT
- STABILIZER REPLACEMENT
- ELEVATOR HAIL STORM REPAIR
- WING TRAILING EDGE SKIN REPAIR
- CENTRE (CTR) WING SPAR REPAIR
- END FITTING REPLACEMENT
- TRUSS MOUNT REPLACEMENT
- CHINE PLATE REPLACEMENT
- FLIGHT DECK CHINE REPLACEMENT
- WINDSHIELD FRAME REPAIR
- UPPER LONGERON REPLACEMENT
- RAINBOW FITTING REPLACEMENT
- BATTLE-DAMAGE AND CRASH-DAMAGE REPAIRS
- RING SEGMENT REPAIR
- BULKHEAD END FITTING
- SLOPING LONGERON REPLACEMENT
- FUSELAGE SKIN REPLACEMENT
- LG BEAM REPLACEMENT AND REPAIR
- EXTERNAL TANK REPAIR
- LG WHEEL WELL CAP REPLACEMENT
- CENTRE WING BOX REPLACEMENT
- RADOME REPAIR AND MODS
- DEPLOYABLE FIELD TEAMS

3 PAINT SHOP COMMERCIAL STATEMENT

AMMROC DEPOT-LEVEL PAINT HANGAR: COMPREHENSIVE CAPABILITIES

- State-of-the-art depot-level paint hangar delivering unparalleled aircraft coating services.
- Spans an impressive 4,500 m² of operational workspace.
- Fully temperature- and humidity-controlled to ensure precise curing conditions for all paints and primers.
- Designed for adaptability and efficiency, providing unmatched versatility to meet clients' unique requirements.



ADVANCED HANGAR CONFIGURATION

Our paint hangar can function in multiple configurations:

- **One Large Booth:** A single, expansive strip-and-paint booth for large-scale projects.
- **Two Booths:** Two operational booths allowing simultaneous stripping and painting processes.
- **Three Independent Booths:** Fully independent operations where spraying, stripping, and sanding can be performed concurrently, streamlining workflows and minimizing downtime.

This flexibility ensures optimized operations tailored to each project, enabling us to handle diverse tasks with precision and efficiency.

PLATFORM VERSATILITY

The hangar is capable of accommodating a wide range of platforms, including aircraft up to the size of an Airbus A340 or a Boeing 777-200. This broad capacity underscores our ability to support a variety of fleet requirements, from narrow-body to wide-body aircraft.

COMPREHENSIVE CAPABILITIES

■ Paint Operations:

In addition to strip-and-paint services, we offer specialized PLASTIC MEDIA BLASTING (PMB) applications, ensuring long-lasting and high-quality finishes.

■ Dedicated Graphics Suite:

Our graphics suite provides tailored solutions for aircraft livery. From standard maintenance stencils to bespoke customer-designed artwork, our team delivers precision and creativity to reflect your brand's identity.



QUALITY ASSURANCE

We operate to the stringent standards of AS9110, ensuring adherence to the highest levels of quality and safety in all our processes.

Our commitment to excellence, flexibility, and customer satisfaction sets us apart as a leader in aircraft painting and coatings. Whether you require routine maintenance, custom livery, or a complete overhaul, our facility is equipped to deliver superior results every time.





ROTARY SERVICES

- AIRFRAME
- BLADE SHOP
- ROTOR AND TRANSMISSION SHOP
- ARMING THE BLACK HAWK
- BLACK HAWK UH-60 WEAPONIZATION



ROTARY SERVICES



1 AIRFRAME

BLACK HAWK AIRFRAME STRUCTURAL REPAIR

AMMROC have invested on tools, equipment and knowledge to perform Black Hawk helicopter structural repairs. Utilizing its engineering reach back support facility with Sikorsky, AMMROC assures its customers that any minor or major structural repair are of top notch quality at par with OEM standards for continuous airworthiness.

Crash or Battle Damaged repair capability using a suite of airframe shoring tools and equipment to include a state of the art butt line laser alignment fixture to quickly and costs effectively restore damaged helicopters to flight-ready status.

BLACK HAWK MAINTENANCE

AMMROC is able to perform routine, scheduled and phase maintenance inspection (PMI) at its facility utilizing experienced and knowledgeable work workforce. Utilizing its engineering reach back support from Sikorsky, it is assured that all maintenance performed on the aircraft are as per OEM's standards.

UPGRADES AND MODIFICATIONS

With AMMROC's strategic partnership with OEMs and leading rotary service providers, AMMROC is able to assist its customer to implement upgrades to help extend the Black Hawks operational life and improve performance to support a more complex and challenging missions.

- Avionics modernization upgrade
- Defensive system upgrade
- Weapons integration and upgrade
- Structural upgrade

2 BLADE SHOP

UNIQUE DYNAMIC BLADE TESTING AND REPAIR SOLUTIONS

DEDICATED BLADE REPAIR CAPABILITY

AMMROC proudly operates one of the region's most advanced and expansive blade repair facilities, designed to provide complete maintenance solutions for UH60 Black Hawk Main & Tail rotor blades. Our facility is a one-stop shop where blades can be fully stripped, repaired, overhauled and tested and meets the highest standards of quality and performance.

Our blade shop is equipped with state-of-the-art tools and machinery that includes specialized equipment like full blade length x-ray, media blasting and shot peening machines, composite bonding autoclave, walk-in oven and extensive paint booth. The specialised tooling includes a large array of advanced composite repair tools enabling us to restore blades to optimal operational standards. While primarily focused on Black Hawk blades, the repair processes can be adapted to support blades from other platforms, such as the AH-64, CH-47, AW-139, and Airbus helicopters.

BLADE WHIRL-STAND FOR DYNAMIC TESTING

The WHIRL stand provides a reliable solution for dynamic testing of Black Hawk rotor blades. Unique to South Asia, the Middle East, and North Africa, this facility enables precise testing of main rotor blades under simulated operational conditions.

Equipped with a configurable rotor assembly head, the WHIRL stand can adapt to various helicopter models, ensuring compatibility with a wide range of rotor blade designs. By replicating operational forces and movements, it offers critical insights into blade performance, tracking, and pitching moments, enhancing overall safety and reliability.

This unique capability positions us as a leader in advanced blade testing offering in the region.



BLADE SHEATH SPREADER



UNIVERSAL DYNAMIC BLADE WHIRL-STAND



SPEED
UP TO 4,000 RPM



POWER
5,800 HP



BLADE LENGTH
UP TO 35 ft

3 ROTORS AND TRANSMISSIONS SHOP

COMPREHENSIVE MRO SERVICES FOR ROTARY-WING AIRCRAFT

AMMROC operates a highly capable Rotors and Transmission Shop (R&T Shop), designed to provide repair and overhaul services for all major rotor and transmission components of the UH-60 Black Hawk helicopter. The facility is equipped with advanced machinery and staffed by experienced operators, ensuring precision and quality in every task.

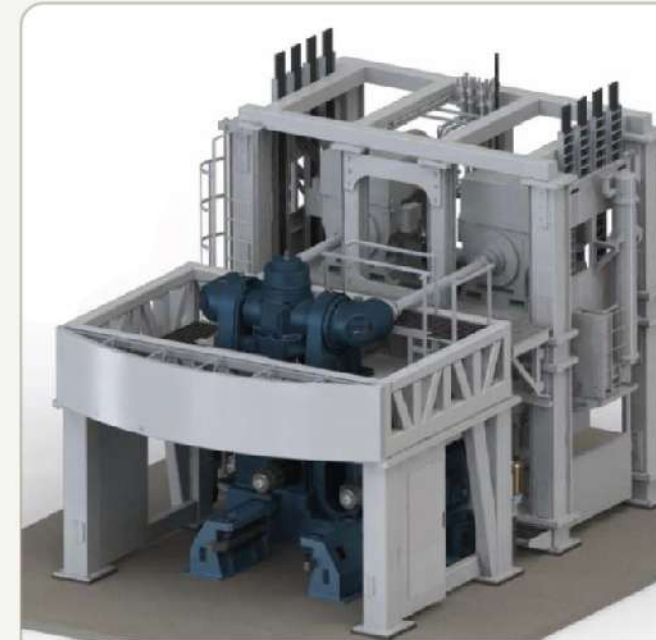
The shop handles a wide range of components, including gearboxes, hub assemblies, swashplates, shafts, landing gear struts & cylinders, shaft assemblies and several other components. The R&T shop is supported by several specialized back shops providing essential services such as stripping, cleaning, machining, heat treatment, painting, welding and other services. The integrated process flow ensures efficient and thorough maintenance.

TEST STANDS

Our transmission test cell with three test stands offers a unique capability in the region, combining advance technology and decades of OEM expertise. The test stands are designed to perform rigorous full-speed, full-load evaluation of gear patterns, lubrication systems, vibration, and assembly integrity of main, intermediate and tail gearboxes. While primarily supporting the Sikorsky UH-60 Black Hawk program, the test stands can be adapted for testing gearboxes from other platforms like the AH-64, AW-139, and Airbus helicopters.

The capability spans across multiple systems such as:

- Intermediate gearbox assembly, accessory gearbox assembly, and tail gearbox assembly.
- Hub sub assembly, bifilar assembly, and spindle assembly.
- Input module assembly, and main module assembly.
- Shaft assembly quill shaft and swashplate assembly.



MAIN GEAR BOX TEST STAND



SINGLE AND DUAL INPUT TRANSMISSION
UP TO 4,000 HP



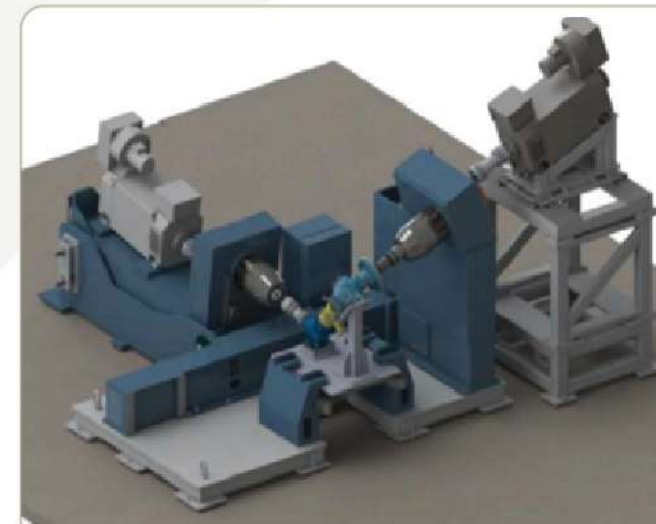
HIGH SPEED
21,000 RPM



MAX TORQUE
1,000 LB./FT.



LOW SPEED
1,400 RPM



INTERMEDIATE AND TAIL GEAR BOX TEST STAND



SINGLE AND DUAL INPUT TRANSMISSION
UP TO 400 kW



POWER
750 HP



MAX TORQUE
2,000 LB./FT.



SPEED
4,300 RPM

4 ARMING THE BLACK HAWK

In collaboration with Sikorsky (A Lockheed Martin Company), and working in close collaboration with our customers, we are the world's only authorised Armed BLACK HAWK integrator. We have advanced expertise in modifying the BLACK HAWK into a fully mission capable multi-role combat helicopter.

COMBAT READY

MISSION CAPABLE

■ GAU-19/B:

Lightweight and highly reliable 12.7mm calibre gatling gun capable of 1,300 rounds per minute; highly effective against area suppression and point targets in both air-to-air and air-to-ground missions.

■ Dillon M134D:

Six-barrel rotary 7.62mm calibre machine gun capable of 3,000 rounds per minute.

■ Hellfire® Missile:

Precision-guided weapon providing target flexibility; before and after lock-on capability.

■ Unguided and laser-guided rockets:

Supports 70mm hydra rockets; 7 / 19 shot pods allow for a maximum carrying capacity of 76 rockets; MIL-STD-1760 interface provides flexibility for carrying multiple laser-guided rockets.

5 BLACK HAWK (UH-60) WEAPONIZATION

MISSION READY

WEAPONS MANAGEMENT SYSTEM WILL ENABLE:

- Control and firing of various weapons
- Viewing and management of weapon inventory during flight
- Loading of pre-defined weapons configuration
- Target designations and target paging
- Weapons ballistic calculations

Optical features include:

- State-of-the-art optics used in missions ranging from surveillance to armed/reconnaissance.
- Thermal imaging with weapons data overlay, range finder, and laser designation.

Versatile:

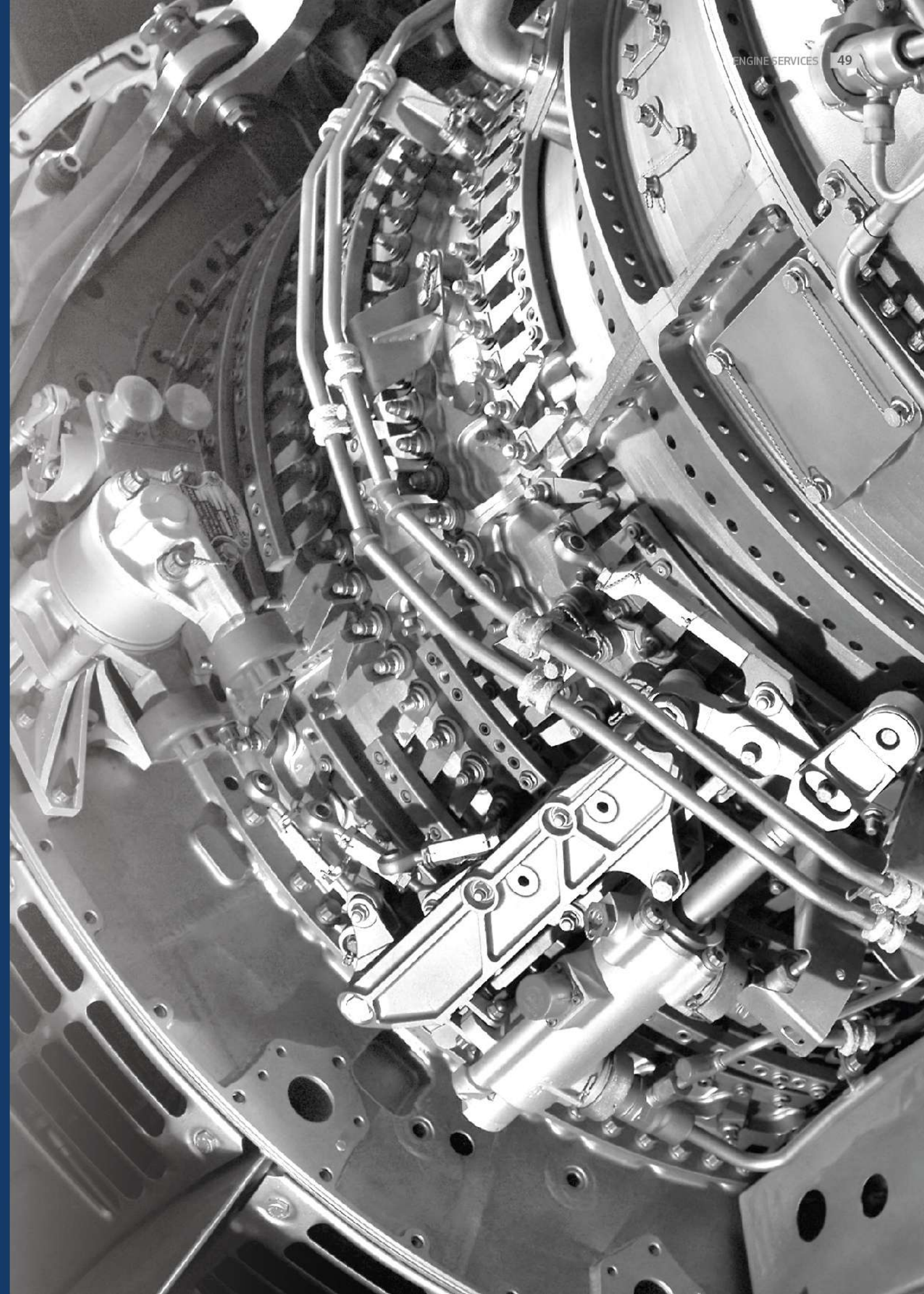
- Flexible firepower configuration to deal with any form of enemy fire
- Capability to transport armed vehicles (4,082 kilos or 9,000 pounds), and insert/extract teams
- Crashworthy and ballistically tolerant





ENGINE SERVICES

- STATE OF THE ART TESTING AND REPAIR
- ENGINE TEST CELL CAPABILITIES
- ENGINE CAPABILITIES

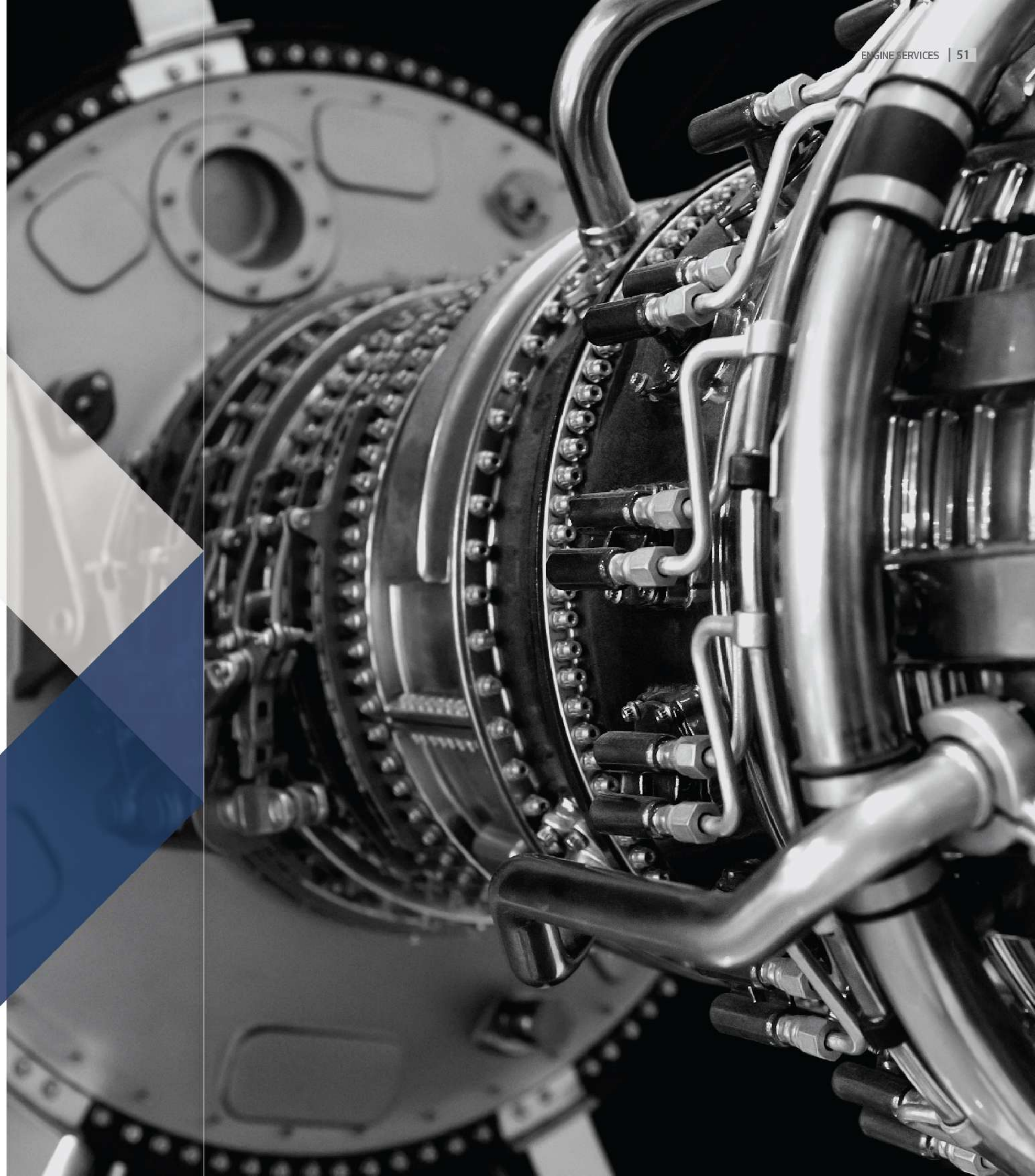


ENGINE SERVICES

At AMMROC, we offer in-depth engine expertise that ranges from turbo props, turbo fans and turbo shafts, to fighter jet engines, auxiliary power units (APU), quick engine change (QEC) components and accessories for maintenance inspection, overhaul and repairs.

Our capabilities span from module replacements and implementing modifications to complete piece part disassembly, repair, replace, overhaul, re-assembly, test and troubleshooting. At AMMROC, the engine repair shop complies with stringent OEM requirements, and is certified to the highest industry standards.

AMMROC is the first regional MRO facility to embody the Engine Structural Integrity Program (ENSIP) for GE F110 engines and have active capability for repair, overhaul and upgrade for the following engine types and components.



1 STATE-OF-THE-ART TESTING AND REPAIR

ENGINE CAPABILITIES INCLUDE:

- GE F110-132 (F-16)
- GE CT7-9C (CN-235)
- GE T700-701 C/D (AH-64, UH-60)
- SAFRAN M53-P2 (MIRAGE 2000)
- F-16 JET FUEL STARTER (JFS)
- MIRAGE 2000 TURBO STARTER

2 THE NEW ENGINE TEST CELL INSTALLED IS CAPABLE OF TESTING:

ENGINE	DEVELOPMENT
CT7-9B	Available
CT7-9C	Available
T700-701C	Available
T700-701D	Available
T55-L-712/714	Adaptable
PT6A-66B	Adaptable
PT6A-68B	Adaptable
M-250	Adaptable
ARRIEL-2	Adaptable
MAKILA 1A	Adaptable

TEST CELL RANGE:

NOMINAL SPEED

2,000 - 21,000 RPM

NOMINAL HP

1,000 - 5,000 HP



3 ENGINE CAPABILITY LIST

#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
1	F-16	9556M10G01	ENGINE ASSEMBLY, F110-132	●	●	●
2	F-16	160001-1100A	JET FUEL STARTER	●	●	●
3	M2000-9	304-821-802-0	M53-P2 MODULE 7	N/A	●	●
4	M2000-9	086-01-03	TURBOSTARTER	●	●	●
5	CN-235	6058T83G01	CT7-9B-9B1-9B2-9C-9C3-9D-9D2	●	●	●
6	UH-60 / AH-64	6071T24G01	T700-GE-701C	●	●	●
7	UH-60 / AH-64	5130T00G01	T700-GE-701D	●	●	●



COMPONENTS SERVICES

- COMPREHENSIVE COMPONENTS TESTING CAPABILITY
- ADVANCED ENGINEERING STRATEGIC PARTNERSHIPS
- HYDRAULIC, FUEL, ELECTROMECHANICAL & PNEUMATIC SHOP
- COMPONENT CAPABILITIES



AL AIN MRO COMPONENTS SERVICES

1 COMPREHENSIVE COMPONENTS TESTING CAPABILITY

At AMMROC's dedicated MRO facility in Al Ain, four main shops – hydraulic, fuel, electromechanical, and pneumatic – are equipped with multiple universal test stands.

These test stands provide the capability to test LRUs and SRUs across a wide range of fixed-wing and rotary-wing platforms, including:

- F-16, CN-235, C-130, C-17
- Hawk 61/102, MB-339, M2000, A330 MRTT
- King Air 350/C-90, PC-21, PC-7
- UH-60, AH-64, CH-47, AW-139
- Airbus helicopters, with adaptability for many other platforms



2 ADVANCED ENGINEERING STRATEGIC PARTNERSHIPS

Our extensive component repair and overhaul capabilities are supported by strategic partnerships with major defense manufacturers, enabling reduced parts lead times and faster repair turnaround times.

In addition to our dedicated BLACK HAWK nose-to-tail components capability, our shops feature universal test equipment for hydraulics, fuel, electromechanical, and pneumatic systems, accommodating multiple aircraft types with precision and efficiency.

We provide test, repair, and overhaul services for a wide range of :

UH-60 Line Replaceable Units (LRUs):

- **Blades: Main and tail rotor blades**

- **Rotors and Transmissions :**

- Swash plate assembly
- Intermediate, tail, and accessory gearbox assemblies
- Main/input module assembly
- Hub sub-assembly
- Bifilar assembly
- Spindle assembly
- Shaft assembly, including quill shaft

- **Other Components:**

- Hydraulic systems
- Electromechanical systems
- Avionic systems

F-16 Environmental Control System (ECS):

- Regulator valves
- Modulating valves
- Air cycle machine
- Cooling air shutoff valve
- Bleed air valve

Mirage 2000 Line Replaceable Units (LRUs):

- Hydraulic systems
- Landing gear
- Oxygen systems
- Electrical and electromechanical systems
- Wheels and brakes

Additional Capabilities :

- Electrical and avionics systems for multiple aircraft
- Wheels and brakes
- Oxygen systems
- Battery repair and maintenance

Repair-Chain Management :

- Handles an extensive list of LRUs across 35+ platform types, leveraging a worldwide integrated supply chain for efficient turnaround and reliability.

3 HYDRAULIC SHOP

The Hydraulic Shop is equipped with five universal test stands and equipment for the following components families:

- Engine Driven Pumps
- Main Hydraulic Pumps
- Power Transfer Units
- Motors
- Valves
- Accumulators
- Filters
- Fuses
- Actuators
- Reservoirs
- Servo Actuators



PRESSURE



up to **5,000 PSIG**

FLOW



90 GPM

4 FUEL SHOP

The Fuel Shop is equipped with six universal test stands and equipment for the following product families:

- Fuel Control Unit
- Main Engine Control
- Hydromechanical Unit
- Pressurising and Dump Valves
- Augmenter / After burner manifolds
- Main Fuel Pump
- Engine Mounted Fuel Pump
- Engine Driven Pump Assembly (with Fuel control unit installed)



PRESSURE



up to **2,000 PSIG**

FLOW



160,000 PPH

5 ELECTROMECHANICAL SHOP

The Electromechanical Shop is equipped with 4 universal test stands and equipment for the following components families:

- Constant Speed Drives (CSD)
- Integrated Drive Generators (IDG)
- AC Generators
- DC Generators
- Variable Frequency Generators
- Locking
- Hatch / Compartment
- Landing gear
- Flight Control
- AC / DC motorised winches and hoists



HIGH SPEED



3000 RPM AT 336 IN-LB

LOW SPEED



UP TO 300 RPM AT 3750 IN-LB

SPEED



UP TO 30-INCH STROKE AT 6,000 IN-LB

6 PNEUMATIC SHOP

The current testing capability includes the following product families:

- Cooling air shutoff valve assembly
- Water separator
- Regulator valve, cabin
- Relief and dump valves, cabin
- Modulating valve
- Valve, priority
- Equipment cooling modulating valve
- Hot air temp control set
- Valve, ejector
- Air cycle machine
- Valve, regulator shutoff - EPU
- Valve, modulating - water separator, anti-ice control
- Valve, inerting system flow
- Valve, fuel tank pressure and vent control
- Valve, variable air pressure regulator and shutoff
- Regulator, variable pressure

- Regulator, pressure, bleed air
- Valve, shutoff, ejector
- Ram air shutoff valve
- Valve, shutoff, flap drive bay
- A dorsal bay cooling air shutoff valve
- Cooling air shutoff valve assembly
- Halon shutoff solenoid valve
- Temp control valve
- Valve, bleed air - EPU
- Valve, air pressure regulator and shutoff



7 COMPONENT CAPABILITY LIST

#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
1	M2000-9	462260	VALVE, REGULATING, FLUID PRESSURE	●	●	●
2	M2000-9	467805	REGULATING	●	●	●
3	M2000-9	021134-02	DRIVE, CONSTANT SPEED	●	●	●
4	M2000-9	021140-04	SLAT MOTOR REDUCTOR	●	●	●
5	M2000-9	021141-04	SHOCK CONE MOTOR REDUCTOR	●	●	●
6	M2000-9	029025-05	TANK, HYDRAULIC FLUID, AIRCRAFT	●	●	●
7	F-16	04-1001-16	COOLING AIR SHUTOFF VALVE ASSEMBLY	●	●	●
8	M2000-9	046-08-02	OIL PUMP	●	●	●
9	M2000-9	066-08-01	ELECTRO FUEL PUMP	●	●	●
10	M2000-9	086-01-018	BLOCK, FUEL	●	●	●
11	M2000-9	086-01-018-02	BLOCK, FUEL	●	●	●
12	M2000-9	086-01-030	RAMP, INJECTOR	●	●	●
13	M2000-9	086-01-055	TANK, DRAINAGE	●	●	●
14	M2000-9	086-08	PUMP, FUEL, ELECTRICAL	●	●	●
15	F-16	102108-18-1	AIRCRAFT CABIN AIR PRESSURE REGULATOR	●	●	●
16	M2000-9	103111-06	SERVOCYLINDER	●	●	●
17	M2000-9	103111R01	GEARCASE-MOTOR	●	●	●
18	F-16	103146-7-2	CABIN AIR PRESSURE RELIEF DUMP VALVE	●	●	●

#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
19	M2000-9	108033-14	VALVE, SOLENOID	●	●	●
20	M2000-9	108034-05	VALVE, SOLENOID	●	●	●
21	M2000-9	108060-03	BY-PASS, AUTOMATIC	●	●	●
22	M2000-9	108096-04	VALVE, LINEAR, DIRECT	●	●	●
23	M2000-9	108113-02	BOX, REGULATING	●	●	●
24	M2000-9	108119-03	BLOCK, CONNECTION (LH)	●	●	●
25	M2000-9	108119-04	BLOCK, CONNECTION (RH)	●	●	●
26	M2000-9	108120-02	ELECTRO-DISTRIBUTOR	●	●	●
27	M2000-9	108120-03	ELECTRO-DISTRIBUTOR	●	●	●
28	M2000-9	111003-35	MOTOR, HYDRAULIC	●	●	●
29	M2000-9	111003-36	MOTOR, HYDRAULIC	●	●	●
30	M2000-9	111008-04	MOTOR, HYDRAULIC	●	●	●
31	F-16	11214-1	COOLING FLOW MOD CONTROL VALVE	●	●	●
32	F-16	11216-1	VALVE, PRIORITY, ELECTRONIC EQUIPMENT COOLING SET	●	●	●
33	F-16	11274-1	COOLING MODULATING VALVE	●	●	●
34	F-16	13C13602E01	EJECTOR SHUTOFF VALVE	●	●	●
35	M2000-9	171703-01	HARNESS AUTOMATIC RETRACT	●	●	●
36	F-16	229255-4	SOLENOID ACTUATED VALVE	●	●	●

COMPONENT CAPABILITY LIST

#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
37	F-16	2750023-101	HOT AIR MODULATING VALVE	●	●	●
38	F-16	3215846-1-1	REGULATOR VALVE	●	●	●
39	F-16	3215846-1-2	SECS VAR PRESS REGULATOR VALVE	●	●	●
40	F-16	3215876-1-1	BLEED AIR PRESSURE REGULATOR VALVE	●	●	●
41	F-16	3215876-2-1	BLEED AIR PRESS REG (BAPR) VALVE	●	●	●
42	F-16	3215876-3	SECS BAPR VALVE	●	●	●
43	F-16	3291668-1-1	EJECTOR S/O VALVE	●	●	●
44	F-16	3291670-1-1	ADD HEAT VALVE	●	●	●
45	F-16	3291670-2-1	ADD HEAT VALVE	●	●	●
46	M2000-9	406066-1	EMERGENCY SUPPLY UNIT	●	●	●
47	M2000-9	409404-3	REGULATOR, OXYGEN, DILUTER DEMAND	●	●	●
48	M2000-9	409526-3	BOX ,AIR CONTROL	●	●	●
49	M2000-9	409527-2	ANTI-G VALVE	●	●	●
50	M2000-9	461280-1	VALVE, COMBINED	●	●	●
51	CN-235	5034T11P05	PUMP, LUBE AND SCAVENGE	●	●	●
52	F-16	503600-1	RAM AIR SHUTOFF VALVE	●	●	●
53	CN-235	5074T51G10	PROPELLER GEAR BOX	●	●	●
54	CN-235	5074T51G11	BRAKE UNIT STRUCTURE ASSEMBLY	●	●	●

#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
55	F-16	513900-1	RAM AIR COOLING SHUTOFF VALVE	●	●	●
56	F-16	767600-1	EXTERNAL FULL TANK VENT PRESSURIZATION VALVE	●	●	●
57	M2000-9	90CD1-10	MOTOR, ENGINE STARTER, ELECTRICAL	●	●	●
58	C130/L100/M2000-9	9560685-1	BRAKE ASSY, MLG	●	●	●
59	F-16	979196-2-1	HOT AIR TEMPERATURE VALVE	●	●	●
60	F-16	979198-1-1	CABIN TEMPERATURE CONTROL VALVE	●	●	●
61	F-16	979290-4-1	EPU MODULATING VALVE	●	●	●
62	M2000-9	A25300015	PUMP, SELF - REGULATING	●	●	●
63	M2000-9	A25300015-B	PUMP, SELF REGULATING	●	●	●
64	CN-235	AHA1802	BRAKE ASSY	●	●	●
65	M2000-9	C20043300-3	BRAKE ASSY	●	●	●
66	M2000-9	C20041000	WHEEL, LANDING GEAR	●	●	●
67	M2000-9	C20042000	MAIN WHEEL ASSY	●	●	●
68	M2000-9	C20042000-1	WHEEL, LANDING GEAR	●	●	●
69	M2000-9	C20042001	MAIN WHEEL ASSY	●	●	●
70	M2000-9	C20042001-1	WHEEL, LANDING GEAR	●	●	●
71	M2000-9	C20042001-2	WHEEL, LANDING GEAR	●	●	●
72	M2000-9	C20042002	MAIN WHEEL ASSY	●	●	●

COMPONENT CAPABILITY LIST

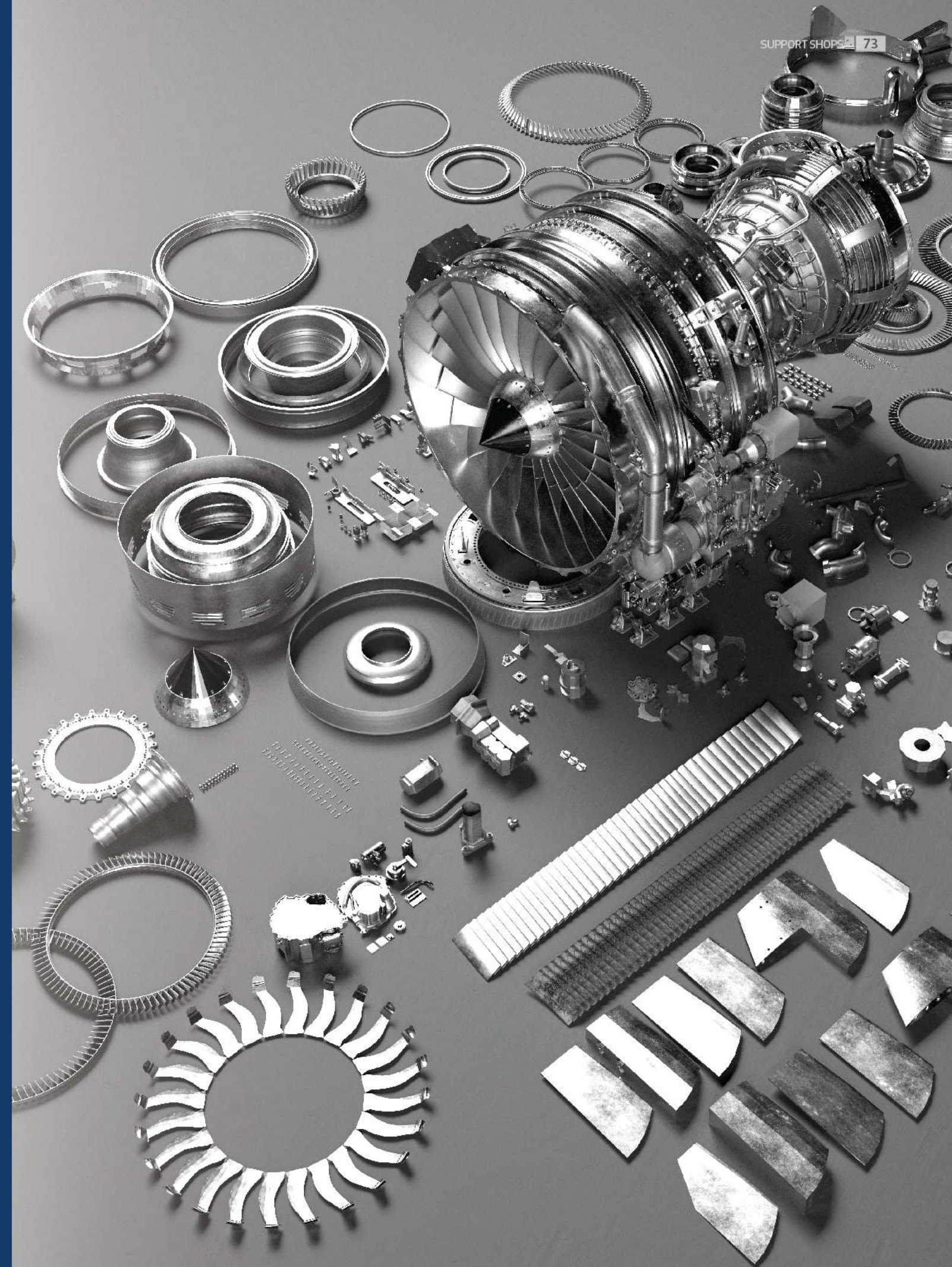
#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
73	M2000-9	C20042002-1	WHEEL, LANDING GEAR	●	●	●
74	M2000-9	C20042003	WHEEL	●	●	●
75	M2000-9	C20042003-1	WHEEL, LANDING GEAR	●	●	●
76	M2000-9	C20042003-2	WHEEL, LANDING GEAR	●	●	●
77	M2000-9	C20043001	BRAKE ASSY	●	●	●
78	M2000-9	C20043001-1	BRAKE ASSY	●	●	●
79	M2000-9	C20043200-1	BRAKE ASSY	●	●	●
80	M2000-9	C20043300-1	BRAKE ASSY	●	●	●
81	M2000-9	C20067	PISTON, RETURN, BRAKE	●	●	●
82	M2000-9	D22158000	ACCUMULATOR	●	●	●
83	M2000-9	D22158011	ACCUMULATOR, HYDRAULIC	●	●	●
84	M2000-9	D22158011-1	ACCUMULATOR, HYDRAULIC	●	●	●
85	M2000-9	D22159000	ACCUMULATOR	●	●	●
86	M2000-9	D22159000-1	ACCUMULATOR, HYDRAULIC	●	●	●
87	M2000-9	D22159000-2	ACCUMULATOR	●	●	●
88	M2000-9	D22159011	ACCUMULATOR, HYDRAULIC	●	●	●
89	M2000-9	D22159011-1	ACCUMULATOR, HYDRAULIC	●	●	●
90	M2000-9	D22159011-2	ACCUMULATOR, HYDRAULIC	●	●	●

#	AIRCRAFT	PART NUMBER	DESCRIPTION	TEST	REPAIR	OVERHAUL
91	M2000-9	DH77A	SAFETY HARNESS BUCKLE	●	●	●
92	M2000-9	DH77B	BUCKLE	●	●	●
93	F-16	RYLB-53201	9TH STAGE BLEED AIR REG SOV	●	●	●
94	F-16	RYLB-53202-1	BLEED AIR PRESSURE LIMITATION S/O VALVE	●	●	●
95	F-16	RYLB-53202-2	BLEED AIR VARI PRESS REG SOV	●	●	●
96	M2000-9	C20043300-3-AMDTB	BRAKE, SEGMENTED ROTOR	●	●	●
97	M2000-9	C20122000-3	BRAKE UNIT STRUCTURE ASSEMBLY	●	●	●
98	M2000-9	C20122000-3-AMDTB	BRAKE UNIT STRUCTURE ASSEMBLY	●	●	●
99	M2000-9	A25300014	PUMP, SELF - REGULATING	●	●	●



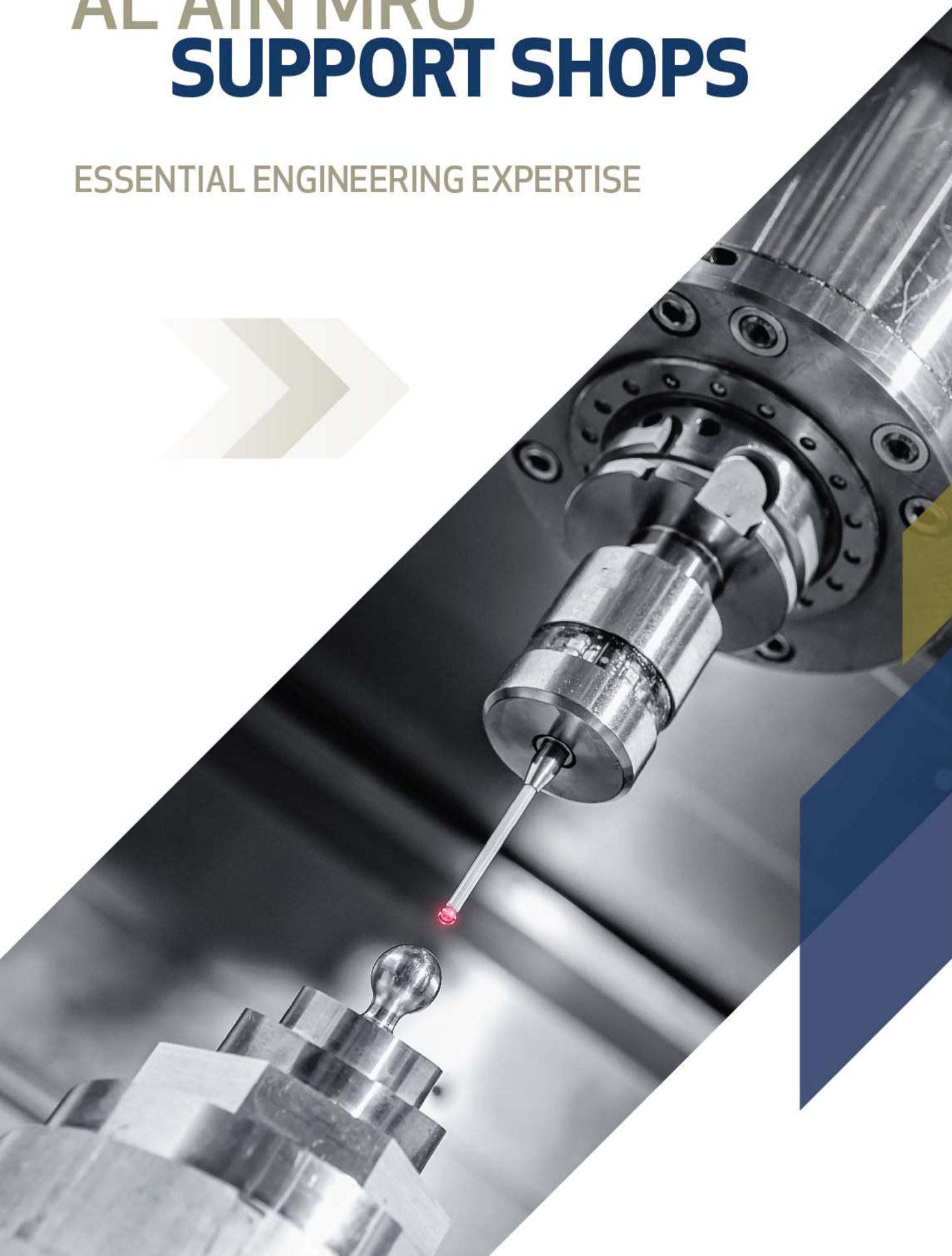
SUPPORT SHOPS

- MACHINING SHOP
- SPECIAL PROCESS SHOP
- NDT SHOP
- STRUCTURE SHOP
- COORDINATE MEASUREMENT MACHINE
- CLEANING SHOP
- CALIBRATION SHOP



AL AIN MRO SUPPORT SHOPS

ESSENTIAL ENGINEERING EXPERTISE



1 MACHINE SHOP

The machine shop is designed and equipped to handle both simple and complex repair requirements. Spanning an area of 1,734 m², it features state-of-the-art equipment, including multi-axis lathe and milling machines, as well as equipment for drilling, boring, honing, grinding, deburring, sawing, sanding, polishing, lapping etc. The shop is capable of handling tasks ranging from machining oversize bushings to the intricate process of grinding compressor and turbine blades. Most of the metal removal equipment is CNC-controlled, and the facility is supported by an advanced CAD/CAM system, enabling it to address diverse and challenging production scenarios with precision and efficiency.



INTER 5-AXIS MILLING MACHINE

2 SPECIAL PROCESS SHOP

To achieve self-reliance in high-demand special process capabilities such as Vacuum heat treatment, a dedicated Special Process Shop spanning 835 m² has been established at MRO AA. This shop is equipped with advanced technologies, including heat treatment furnaces and ovens, grit blasting, plasma coating, thermal spray, water jet cutting, stripping, sealing, and shot peening capabilities, ensuring comprehensive support for specialized repair and manufacturing needs of our customers.



VACUUM HEAT TREATMENT FACILITY

3 NDT SHOP

Nondestructive testing capability is a specialised knowledge area for AMMROC. The NDT shop at MRO AA spreads across a 384 m² area and offers all major NDT capabilities, including:

- X-ray: range from 50 KV to 200 KV.
- Fluorescent particle inspection (FPI): sensitivity level (level 3 and 4) only surface cracks.
- Magnetic particle inspection (MPI): ferromagnetic material on surface and sub-surface DC current or AC current range - 2,000 amps to 10,000 amp.
- Eddy current: conductive material frequency range - 500 KHz (manual scanning) to 2 MHz (automatic scanning).
- Ultrasonic testing: frequency range 2.5 MHz to 25 MHz.

4 STRUCTURE SHOP

The Structure Repair Shop, covering an area of 592 m², is equipped with a wide range of tools and equipment necessary for sheet metal repair work, including shearing, polishing, drilling, hammering, spot welding, riveting, pressing, water jet cutting, sawing, rolling, forming, and bending. This facility is fully capable of managing even the most complex structural repair requirements with efficiency and precision.



5 COORDINATE MEASUREMENT MACHINE

MRO AA has a large, wirelessly controlled, dedicated coordinate measuring machine (CMM). It is run by Calpso software and is loaded with turbine blade and gear software. It also has an interface with Siemens NX Manufacturing environment software.



6 CLEANING SHOP

The Cleaning Shop is an essential part of MRO operations, providing a wide range of cleaning capabilities, including alkaline cleaning, ultrasonic cleaning, steam cleaning, vapor degreasing, paint stripping, wet and dry media blasting. Spanning an area of 194 m², the facility features two cleaning lines, large wash cabinets, booths with containment systems, a media blasting line, and other advanced equipment. These capabilities ensure thorough and efficient cleaning, meeting the highest standards of maintenance and repair.



7 CALIBRATION SHOP

AMMROC has developed a state-of-the-art Calibration Shop capable of delivering a wide range of calibration services. These include torque calibration, dimension calibration, force calibration, gas detection flow, mass calibration, pressure calibration, RPM calibration, temperature calibration, weight calibration, and flow calibration, as well as multi-parameter calibrations classified under Level-4 calibration type. This comprehensive capability enables AMMROC to meet the majority of its customers' calibration needs entirely in-house.





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