

MUCH MORE THAN TOOLS



Tribute to Antoine de Saint-Exupéry "What we have to say to Men"

DEDIENNE
AEROSPACE



THE TOOLING JOURNEY

Dedienne Aerospace is a family-owned company with over 70 years of experience in design and construction of aerospace tooling and GSE.

Over many years we have established a worldwide footprint and strong partnerships with OEMs, Airlines and MROs across the globe.

We are the market leader thanks to our tooling expertise, and we pride ourselves on supplying the right tool at the right time to all our customers.



1

We are the OEM licensee company

Thanks to the trust of our partners, and reliable industry relationships, we have built tailor-made tooling solutions for our customers who have benefited from our expertise and experience.

10
LICENSES

2

We design your tooling

Our know-how in Research & Development, design, product validation, and CE management allows us to provide optimized, reliable, robust and user-friendly tooling solutions.



3

We support your tooling requirements

With our recommendations, tooling management becomes very easy. Our experts will help you to prepare entry/reentry-into-service according to your implicit and explicit needs analysis.



4

We build your tooling with excellence

With over 50 000 tools manufactured annually, we ensure that each individual product meets the very highest quality standards of each country, across every supply channel, and according to OEM requirements.

5

We guarantee the highest quality level

Civil and Defense Tooling products are critical and require the highest degree of quality. Our quality management systems comply with all relevant regulations and standards, and meet the most stringent of OEM's expectations.

EN/AS
9100

AQAP
2110

ISO
9001



6

We deliver your tooling everywhere and on time

Meeting our customers' expectations and delivery requirements is our top priority. With scheduled and unscheduled maintenance operations (like AOG), we supply our customers with the right tool at the right time. Our locations are close to our customers and contribute to the logistic costs and carbon footprint reduction.



7

We keep your tooling serviceable

Dedienne Aerospace is your maintenance tooling expert and is here to provide you with a large range of tooling services. Our Customer Services Team is ready to help, wherever you are in the world.



THE TOOLING VISION



1 WE THINK **GLOBAL**
WE ACT **LOCAL**

2 WE SUPPORT ALL
YOUR EQUIPMENT NEEDS

3 WE KEEP YOUR
EQUIPMENT SERVICEABLE

**HELICOPTER
TOOLING**

**GROUND SUPPORT
EQUIPMENT**

**AIRCRAFT
TOOLING**

**NACELLE
TOOLING**

**DEFENSE
TOOLING**

SERVICING
CARTS

AXLE
JACKS

LANDING
GEAR
TOOLING

TRIPOD
JACKS

WHEELS
& BRAKES
TOOLING

GPU / HPU

**SHIPPING
CONTAINERS**

**ON-WING
SUPPORT
TOOLING SOLUTIONS**

**ENGINE TOOLING
& ENGINE STANDS**

**TOOLING
SERVICES**

ACCESS
PLATFORMS

WE DESIGN YOUR PRODUCT

Our engineers are one of the pillars of our excellence and development. They bring tooling knowledge to another dimension that gives us the trust of our customers.

Using the latest technologies, they develop state-of-the-art tooling to optimize your process and reduce TAT.

Thanks to their expertise, they are able to propose smart tooling solutions that will improve your maintenance tasks management and organization.

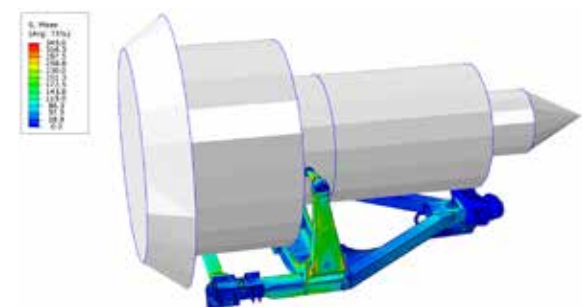


EXPERIENCED ENGINEERING TEAM

- > 20 engineers with an average experience of 7 years
- > Awarded with excellence rate by BV (2021)

ENGINEERING SKILLS

- > Mechanical system
- > CAD: Catia, Nx
- > Stress Calculation
- > Project Management
- > Integration automated system
- > Plastic, hydraulic, textil
- > Testing R&D fitcheck



ENGINEERING TASKS

- > Design OEM IP
- > Design Dedienne Aerospace IP
- > Manufacturing engineering
- > Configuration, obsolescence management



TOOLING RECOMMENDATION

The maintenance workscope includes several tooling lists and it is sometimes difficult to get the right tool for the right task. Tooling lists are always different depending on the aircraft, the AMM or the ESM.

Depending on the workscope you work on, Dedienne Aerospace can propose you accurate provision tooling lists (ESM provision for MROs and EIS tooling lists for airlines).

All your scheduled and unscheduled maintenance operations can easily be performed with our tooling recommendation.



EXPERIENCED TEAM

- > Expertise from product specialists
- > Direct OEM support
- > Provisionning support & recommendations preparing EIS and maintenance events

TECHNICAL RECOMMENDATION

- > Technical advisory maintenance workscope
- > Justified compliance with OEM manuals
- > Commonalities with existing tooling fleet
- > Technical advisory shop layout



BUDGETARY

- > New capabilities
- > WIP increase
- > SB/ AD campaigns
- > Financial customized solution
- > Tooling procurement phasing



AIRCRAFT TOOLING

First-class tooling from line maintenance to heavy maintenance



Whether single-aisle or wide-body aircraft, whether an A-Check or a C-Check – regardless of the aircraft type you work with, and regardless of the maintenance tasks involved – our extensive array of aircraft tooling will cover all your maintenance requirements.

Our experience and knowledge in the Aviation Industry allows us to offer tested and proven products and services to our extensive international client base.



✂ MAINTENANCE TASKS	🔧 PRODUCTS	⚙ LICENSES
<ul style="list-style-type: none">• On-Wing support• Line maintenance• Heavy maintenance• Dismantling	<ul style="list-style-type: none">• Bootstrap• Cover• Electric & Pressure• Safety collar• Zero stress• R/I tools• Fly kit ...	<ul style="list-style-type: none">• Boeing

NACELLE TOOLING

We are Collins Aerospace's exclusive nacelle tooling licensee



Dedienne Aerospace is the best nacelle tooling specialist on the market. Sole exclusive licensee of Collins Aerospace, we have all the tooling for each part of your nacelle systems: Inlet Cowl, Fan Cowl, Thrust Reverser, Nozzle & Center Body or Engine Mount.

We have the capability to provide you all recommended GSE quantities based on the Aircraft Maintenance Manual (AMM) for your EIS (Entry-into-Service) program, and all your maintenance operations.



⚙ CATEGORIES	🔧 PRODUCTS	⚙ LICENSES
<ul style="list-style-type: none">• Inlet cowl• Fan cowl• Thrust reverser• Nozzle & center body• Engine mount	<ul style="list-style-type: none">• Sling• Dolly• Cover• Tooling	<ul style="list-style-type: none">• A320neo Collins• A350 Collins• A220 Collins• E190-E2 Collins• A220, E2, E190, MRJ• V2500, PW4000, CFM56, CF680E1/E2, CF34, RB211, and Trent 700

ENGINE TOOLING

For all maintenance operations, from line maintenance to shop visits



At Dedienne Aerospace, we are the Engine Tooling specialists for production, maintenance and overhaul of aircraft engines.

Thanks to our OEM licenses, we meet all OEMs' specifications and comply with all Service Bulletins.

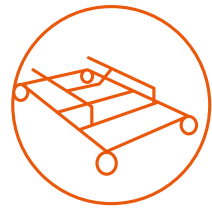
From engine installation/removal to shop equipment, Dedienne Aerospace will provide you with all the engine maintenance tooling you need within critical time frames, and at the right cost and quality.



✂ MAINTENANCE TASKS	⚙ PRODUCTS	⚙ LICENSES
<ul style="list-style-type: none">• On-Wing support• Line maintenance• Engine Shop• Quick Turn• Overhaul	<ul style="list-style-type: none">• R/I tools• Build & strip tooling• Engine transportation• Container• Torque/Wrench ...	<ul style="list-style-type: none">• CFM56• CFM LEAP• Rolls-Royce• Pratt & Whitney• Ge9X

ENGINE STANDS

The best choice for engine stands, from removal/installation to transportation



Thanks to our broad array of OEM licenses, we are one of the leading engine stands company.

Our engine stands guarantee safety and reliability during the transportation, installation and removal of your engines. Dedienne Aerospace engine stands are designed and qualified

with Engine OEMs and meet all of the specific requirements of transportation and removal/installation operations.

Just take a look at our large inventory of engine stands and our worldwide stock, and get the right tools at the right time to keep your fleet in good condition.



✂ PRODUCTS	⚙ LICENSES
<ul style="list-style-type: none">• CFM56-5A/5B• CFM56-5C• CFM56-7B• CFM56-3• CFM56-5A/5B & V2500• V2500• LEAP-1A• LEAP-1B• LEAP-1C• PW1100 GTF• PW4000-100• TRENT XWB Basic stand• TRENT XWB WES• TRENT XWB SES• TRENT 700• TRENT 800• TRENT 7000• RB211• GE9X	<ul style="list-style-type: none">• CFM56• CFM LEAP• Rolls-Royce• Pratt & Whitney• Ge9X• International Aero Engine

GROUND SUPPORT EQUIPMENT



Taylor-made GSE solutions for your daily maintenance

User-friendly, reliable, and multi-purpose, our large range of Ground Support Equipment is customer-oriented. Tripod-jacks, axle-jacks, tow bars, servicing carts, fluid dispensers, access platforms and nitrogen/oxygen solutions, at Dedienne

Aerospace you will find all the GSE you need for your daily maintenance use. For special needs, our engineering department will design the state-of-the-art solution you are looking for.



PRODUCTS

- Axle Jack
- Tripod Jack
- Tow Bar
- Access Platform
- Fluid Dispenser
- Nitrogen Solution
- Landing Gear tooling
- Servicing Cart
- Wheels & Brakes tooling
- HPU/ GPU



PROGRAMS

- Airbus
- Boeing
- Embraer
- ATR

ON-WING SUPPORT TOOLING SOLUTIONS



On-Wing support tooling solutions to optimize your operations

Thanks to our airframe and engine OEM licenses, Dedienne Aerospace is the right partner for all your On-Wing support operations. Whether it's an engine change, a major module or a minor module, we have the right solution, fitted to your needs,

to keep your tooling in an organised manner. Our Engineering Department can also tailor make your OWS tooling solution for all your maintenance requirements.



PRODUCTS

- Bulk
- Engine Change Kit
- Major Module Change Kit
- Pedestal & lifting beam



PROGRAMS

- CFM
- GE

SHIPPING CONTAINERS



Innovative solutions for high quality shipping containers

Especially designed for your sensitive components like low pressure turbines, low pressure compressors, accessories gearboxes, fans, combustion chambers or otherwise, Dedienne Aerospace's containers will ensure that your products remain completely safe.

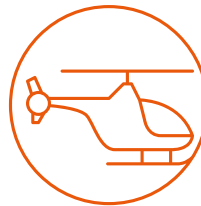
Designed in collaboration with OEMs and aerospace companies, our containers are manufactured to meet standards ATA300 and SAE/ARP1840. The use of high-grade steel and aluminum, as well as composite-material technology, allows us to offer one of the widest ranges of shipping containers on the market.



PRODUCTS

- LPT Container
- HPT Container
- HPC Container
- LPC Container
- AGB Container
- Fan Container
- Core Container
- Gearbox Container

HELICOPTER TOOLING



Take off for your helicopter maintenance

From Maintenance, Overhaul, or Engine Tooling to Ground Support Equipment, discover our robust and user-friendly helicopter tooling selection designed hand-in-hand with the most prestigious helicopter OEMs.



PRODUCTS

- Ground Support Equipment
- R/I Tools
- Engine Change & transportation
- Covers
- Engine Tooling



PROGRAMS

- H125
- H130
- H135
- H145
- H155
- H160
- H175
- H215
- NH90
- Tiger

DEFENSE TOOLING

Your Air Force tooling expert, close to your defense operations

Since 2001, Dedienne Aerospace has been providing aerospace maintenance tooling as well as all GSE services and support for defense and air force industries around the world.

Based at strategic sites, Dedienne Aerospace is one of the leaders in maintenance tooling for defense aviation, as well as support for defense aircraft and helicopters.



AIRCRAFT GROUND SUPPORT EQUIPMENT

- Trailers
- Fuel pod skids
- System integration tooling
- Aircraft part storage dolly



ARMAMENT WEAPON SUPPORT EQUIPMENT

- Armament Support Equipment (ASE)
- Weapon Support Equipment (WSE)
- Logistic Support Equipment (LSE)



GROUND SUPPORT EQUIPMENT

- Trucks
- Trailers
- Tripod Jacks
- Axle Jacks
- Tow Bars
- Servicing carts
- Platforms



ENGINE TOOLING & TRANSPORTATION

- Engine Stands
- Engine removal/installation fixtures
- R/I tools
- Build & strip tooling
- Engine transportation
- Engine preservation
- Containers



ADVANCED AIR FORCE TOOLING SERVICES

- Periodic Certification
- Repair
- Full refurbishment
- Upgrade & modifications
- Spare Parts
- Loan & leasing solutions
- Training

TOOLING SERVICES

We keep your tooling always serviceable



Dedienne Aerospace Tooling Services supports OEM, Airline and MRO maintenance activities by providing flexible and reliable services.

If you need periodic certification, repairs, calibration, tests, tool upgrades and optimizations, training, full refurbishment, or spare-parts, our worldwide customer services team is the answer to all your queries and questions.



IN 2021

300
ON SITE
REPAIRS

7000
CALIBRATIONS

200
UPGRADES



PERIODIC CERTIFICATION

- Precision Equipment Calibration
- Dynamometer Calibration
- Electronic Calibration
- Periodic Load Testing



REPAIR

- Repair/periodic & preventive maintenance
- Hydraulic & pneumatic maintenance
- Engine stands repair & maintenance



UPGRADE

- OEM Upgrades
- Full Diagnostic
- Dimensional Control
- Load Testing



FULL REFURBISHMENT

- Full Diagnostic
- Full Dismantling & Rassembling
- Parts Replacement
- Surface Treatment Rework
- Marking Rework
- Load Testing



SPARE PARTS

- Seals
- Shock mounts
- Wheels
- Tow bars
- ...



TRAINING

- Engine Stands
- Engine Tooling
- Nacelle Tooling
- Aircraft Tooling
- Ground Support Equipment
- On-Wing Support
- Shipping Containers
- Helicopter Tooling
- Defense Tooling

DIGITAL SERVICES

The tooling inventory is one of the most strategic aspects of maintenance centers and MROs. The tools are used by different people, stocked in different locations and the data obsolescence becomes the nightmare of every tooling manager.

Having the tooling park up to date and finding the right tool

at the right time can be a big challenge for the operational team. ToolLive® has created a digital platform where you can easily follow, track, add and update your tooling inventory.

With ToolLive®, all your tooling data are centralized in one app! With real time information, the management of your tooling becomes easy, user-friendly and intuitive.



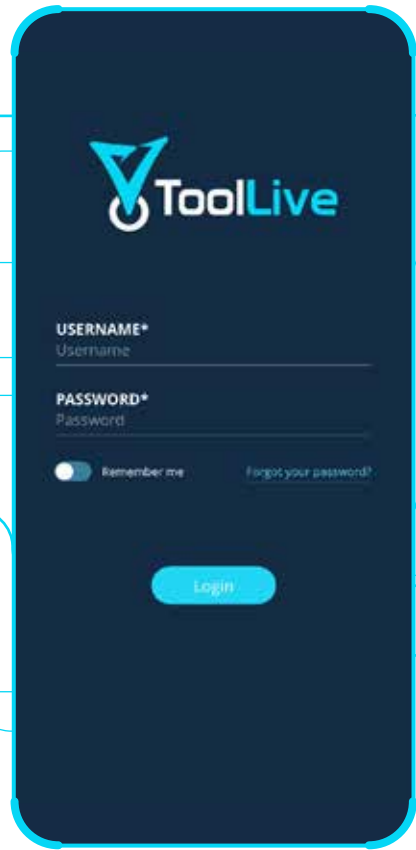
Free download registration and service is subject to Dedienne Aerospace approval.



Get a real time information with **THE COCKPIT**



Track your assets anywhere at anytime with the **TOOL TRACKING**



Manage your assets with the **TOOL PARK**



Loan & Lease tooling when needed with the **TOOL LEASING**



Keep your tooling serviceable with the **TOOL SERVICE**



DIGITAL SMART MANAGEMENT

- > A technical solution that connects users of aeronautical tools with their equipment park
- > Live reporting - Real time tooling inventory
- > Predictive maintenance
- > Tasks scheduling



TRACKING SOLUTIONS

- > Tools visibility at any time
- > Indoor/outdoor solutions
- > Real time tracking
- > Data analysis
- > Incidents detection
- > Predictive maintenance



LEASING SOLUTIONS

- > Loan stock availability
- > Lease your assets: cost to cash
- > Real time tooling inventory
- > Worldwide logistic network
- > Storage capacities close to aero-hubs

GET IN TOUCH

Your Dedienne team always available

SALES SUPPORT

01 SALES AMERICAS

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NACELLETOOLING.COM



LEAPTOOLING.COM

SOCIAL MEDIAS



LINKEDIN.COM/COMPANY/
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PRODUCTION FACILITIES & SERVICE CENTERS

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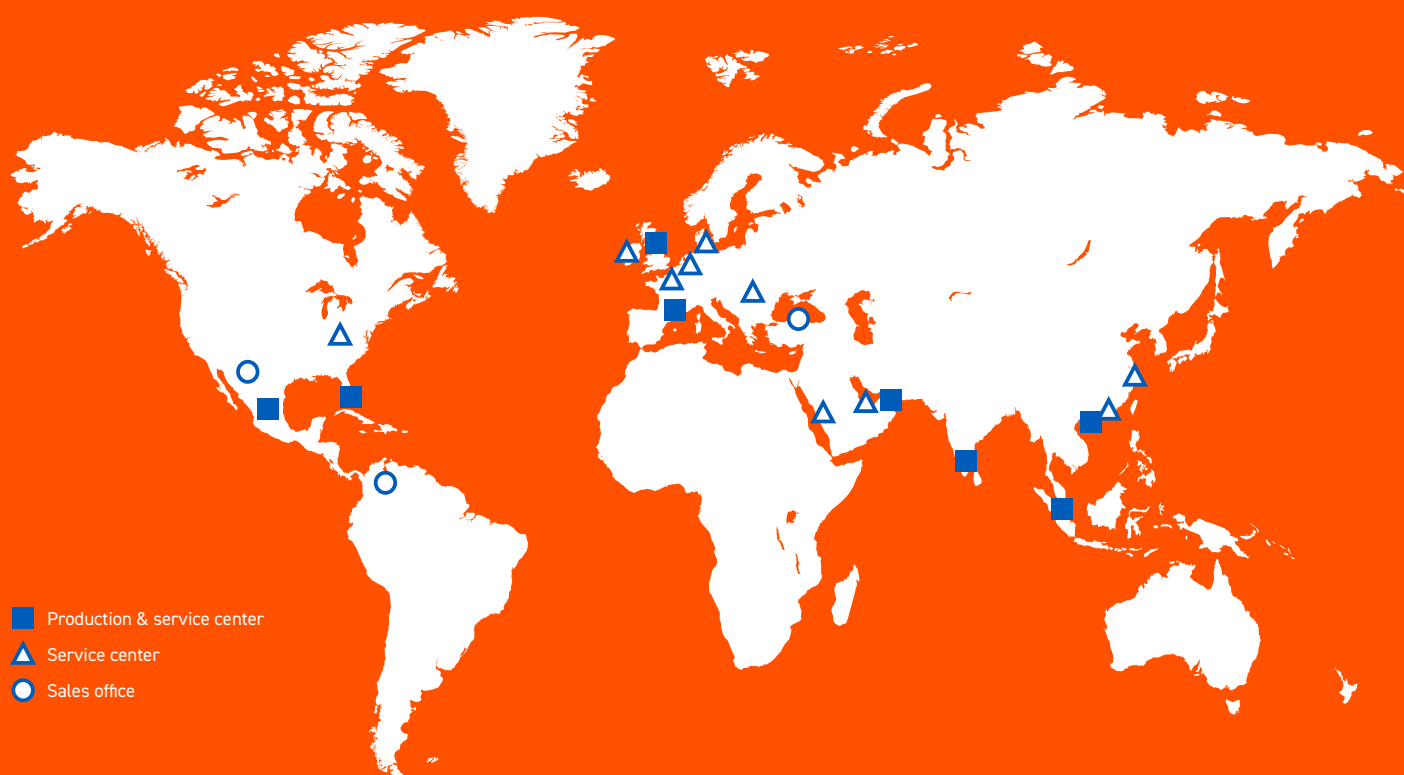
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*"As for the future, your task
is not to foresee it, but to enable it."*

ANTOINE DE SAINT-EXUPÉRY



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