

TOOL & GSE SERVICES



#MUCHMORETHANTOOLS





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WHY TOOL & GSE SERVICES BY DEDIENNE AEROSPACE?

YOUR TOOLING SERVICES, ANYWHERE AT ANYTIME



WORLDWIDE
SERVICE
CENTERS



ONE STOP SHOP
FOR ALL TOOLING



OFFICIAL
OEM LICENSEE



SHORT
TAT



HIGH
QUALITY



#PROXIMITY #OTD PERFORMANCE #SHORT TAT #EXPERTISE #QUALITY #INSURANCE

WE KEEP YOUR TOOLING ALWAYS SERVICEABLE



YOUR BENEFITS FROM REGULAR MAINTENANCE DONE BY A CERTIFIED SOURCE LIKE DEDIENNE AEROSPACE



**YOUR TOOL
SERVICEABLE
WHEN NEEDED**



**REDUCED
OWNERSHIP COSTS**



**EXTENDED
TOOLING LIFE
DURATION**



**CONFORMITY TO ALL
REGULATIONS
& STANDARDS**



**WORLDWIDE
MOBILE TEAMS**



**EXCELLENCE IN ALL
AEROSPACE TOOLING**



**FULL ASSET MANAGEMENT:
FROM LOGISTICS TO SERVICES**



PERIODIC CERTIFICATION

- PRECISION EQUIPMENT CALIBRATION
- DYNAMOMETER CALIBRATION
- ELECTRONIC CALIBRATION
- PERIODIC LOAD TESTING

1

PRECISION EQUIPMENT CALIBRATION

Dynamometers, comparators & manometers are industrial components mounted on tooling for accurate readings of critical values (e.g., pressure, deformation, force).

Calibrating these components is the first but not the only step in a **complete tooling recertification**. It should always be followed by tests (e.g., load test, pressure test) for the overall certification of the tool.



MANOMETER 0-250 BARS



FULL TOOL PN	636-3000-13GSE
TOOL DESCRIPTION	PUMP OPEN-THRUST REVERSER
GAUGE	MANOMETER 0-250 BARS
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• TECHNICAL DIAGNOSTIC• MANOMETER CALIBRATION• PRESSURE TEST

MANOMETER 0-120 BARS



FULL TOOL PN	636-3000-13GSE
TOOL DESCRIPTION	MANUAL HYDRAULIC OPENING SYSTEM A320NEO
GAUGE	MANOMETER 0-120 BARS
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• TECHNICAL DIAGNOSTIC• MANOMETER CALIBRATION• PRESSURE TEST

GAUGE CALIBRATION



FULL TOOL PN	J27079-38
TOOL DESCRIPTION	INSPECTION EQUIPMENT B777
GAUGE	COMPARATOR +/-0,002
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• TECHNICAL DIAGNOSTIC• MANOMETER CALIBRATION• PRESSURE TEST

DYNAMOMETER CALIBRATION

In order to reduce TAT, all dynamometer calibrations are done in our certified laboratories at any of our worldwide facilities.

The calibrated dynamometers are then mounted on the relevant tool for load testing and final certification.

A calibrated dynamometer is the first step, and not the only one, for full certification of a tool.



CERTIFICATION B737 MAX BOOTSTRAP



FULL TOOL PN	C71029-1
TOOL DESCRIPTION	B737 MAX BOOTSTRAP
DYNAMOMETER	3 T
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• HOISTS MAINTENANCE• DYNAMOMETER CALIBRATION• LOAD TEST• DIMENSIONAL CONTROL

CERTIFICATION GE90 ENGINE BOOTSTRAP



FULL TOOL PN	J71043-131_J
TOOL DESCRIPTION	GE90 ENGINE BOOTSTRAP
DYNAMOMETER	3 T
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• HOISTS MAINTENANCE• DYNAMOMETER CALIBRATION• LOAD TEST• DIMENSIONAL CONTROL

ELECTRONIC/ ELECTRIC CALIBRATION

In our workshop or with our partners, we are able to carry out electric/electronic calibration: continuity tests, calibration of electronic measuring equipment, and calibration of digital gauges and load cells.

Electric/electronic calibration is not the only step in certifying a tool. Additional calibrations or tests may be necessary.

Only a professional tooling expert knows how to complete the full certification and guarantee the safe serviceability of a tool.



TEST EQUIPMENT B737



FULL TOOL PN	C32051
TOOL DESCRIPTION	TEST EQUIPMENT BRAKE SYSTEM PRESSURE CHECKING B737
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• TECHNICAL DIAGNOSTIC• ELECTRONIC CALIBRATION OF THE BOX• PRESSURE & LEAKAGE TESTS

TEST UNIT SENSOR



FULL TOOL PN	38-368-02
TOOL DESCRIPTION	TEST UNIT SENSOR
FOR FULL CERTIFICATION	<ul style="list-style-type: none">• TECHNICAL DIAGNOSTIC• ELECTRONIC CALIBRATION

PERIODIC LOAD TESTING

Most GSE and tooling require mandatory periodic load testing or recertification after repair or upgrade. Due to its OEM licenses and partnerships, Dedienne Aerospace has all the necessary test jigs to carry out the required load tests.

Our France 0-200T test bench allows us to extend our load test capacities to heavy and large toolings such as engine stands and tripod jacks.

As official OEM licensee, Dedienne Aerospace has all test jigs and dummy engines that represent the real environment. Some tests can also be done on customer's site.

TEST JIGS

COLUMN TEST TRACTION/COMPRESSION	0-250 T
TEST BENCH LATERAL	0-50 T
OCONESS 1 SERIES	FOR ENGINE STANDS
OCONESS 2 SERIES	FOR BOOTSTRAPS
OCONESS 3 SERIES	LIFTING EQUIPMENT
D070UT0001	PORTABLE TEST JIGS FOR AXLE & TRIPOD JACKS <45T
D070UT0009	PORTABLE TEST JIGS FOR AXLE & TRIPOD JACK >45T

TRIPOD JACK LOAD TESTING



FULL TOOL PN	D07TRJ00006
TOOL DESCRIPTION	A320/B737 TRIPOD JACK WING
USED TEST DEVICE	0-200 T COLUMN TEST OR MOBILE TEST JIGS
FOR FULL CERTIFICATION	• FULL CHECK • HYDRAULIC CHECK • LOAD TEST

LIFTING EQUIPMENT LOAD TESTING



FULL TOOL PN	636-1100-1GSE_G
TOOL DESCRIPTION	INLET COWL SLING A320 NEO
USED TEST DEVICE	OCONESS 0050
FOR FULL CERTIFICATION	• FULL CHECK • PERIODIC MAINTENANCE OF HOISTS • PROOF LOAD TEST

ENGINE STAND LOAD TESTING



FULL TOOL PN	D71CRA00004
TOOL DESCRIPTION	V2500 ENGINE STAND
USED TEST DEVICE	DEDICATED DUMMY ENGINE
FOR FULL CERTIFICATION	• FULL CHECK • FUNCTIONAL CHECK • CLEANING & GREASING • LOAD TEST WITH DUMMY ENGINE

B737 MAX BOOTSTRAP LOAD TESTING



AVERAGE
LEAD TIME
2 WEEKS

FULL TOOL PN C71029-1

TOOL
DESCRIPTION B737 MAX BOOTSTRAP

USED TEST
DEVICE OCONESS 83

FOR FULL
CERTIFICATION

- FULL CHECK
- DYNAMOMETERS CALIBRATION
- HOISTS PERIODIC MAINTENANCE
- LOAD TEST
- DIMENSIONAL CONTROL

TRENT 7000 APS LOAD TESTING



AVERAGE
LEAD TIME
1 WEEK

FULL TOOL PN RRT095052

TOOL
DESCRIPTION TRENT 7000 APS

USED TEST
DEVICE OCONESS 028

FOR FULL
CERTIFICATION

- FULL CHECK
- HYDRAULIC CHECK
- LOAD TEST

TRENT XWB LOAD TESTING



AVERAGE
LEAD TIME
1 WEEK

FULL TOOL PN RRT089134

TOOL
DESCRIPTION BASIC STAND TRENT XWB

USED TEST
DEVICE OCONESS 029

FOR FULL
CERTIFICATION

- FULL CHECK
- HYDRAULIC CHECK
- LOAD TEST





REPAIR

- REPAIR/PERIODIC & PREVENTIVE MAINTENANCE
- HYDRAULIC & PNEUMATIC REPAIR
- ENGINE STANDS REPAIR & MAINTENANCE

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REPAIR/PERIODIC & PREVENTIVE MAINTENANCE

As a major OEM licensee and partner, Dediennne Aerospace has all the required technical data and drawings to repair damaged tools according to standards and specifications. All our repairs are validated by functional and mechanical load tests, or by pressure tests for hydraulic/pneumatic tooling.

We combine our skills in mechanics, hydraulics, pneumatics and electrics to take charge of the full repair of a tool and not partial repair. To decrease TAT, all strategic and critical spare parts are always kept in stock.

For AOG situations that can arise anywhere and anytime, we are supported by our internal supply chains and our worldwide suppliers network.



CFM56 ENGINE STAND ARMS REPLACEMENT



TOOL CATEGORY	ENGINE STANDS
REPAIR OPERATIONS	ARMS REPLACEMENT
DETAILED OPERATIONS	<ul style="list-style-type: none">• GREASING & CLEANING• DAMAGED CABLES REPLACEMENT• FUNCTION & MECHANICAL CHECK• ARMS REPLACEMENT• LOAD & DIMENSIONAL TEST WITH DUMMY ENGINE

JACKS PISTONS & SEALS REPLACEMENT



TOOL CATEGORY	TRIPOD & AXLE JACKS
REPAIR OPERATIONS	PISTONS & SEALS REPLACEMENT
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• PISTONS REPLACEMENT• SEALS REPLACEMENT• LOAD TEST

LEAP TOOLING OVERALL INSPECTION



TOOL CATEGORY	LEAP TOOLING
REPAIR OPERATIONS	OVERALL PERIODIC INSPECTION
DETAILED OPERATIONS	<ul style="list-style-type: none">• GREASING & CLEANING• DIMENSIONAL INSPECTION• LOAD TEST

HYDRAULIC/ PNEUMATIC REPAIR

Hydraulic tools require periodic maintenance, careful usage, routine adjustments and calibration to guarantee a long life of reliable, top-quality performance.

Dedienne Aerospace has the expertise for diagnostic, maintenance and repair of all hydraulic & pneumatic tooling, from single flexible to complete assemblies.

All repairs are validated by pressure and leakage tests to confirm the safety of the tool. All major critical components and spares (manometers, flexibles, connectors) are on stock to ensure close TAT.



EXTRACTOR BOLT VERTICAL STABILISER



AVERAGE
LEAD TIME
5 DAYS

TOOL CATEGORY	AIRCRAFT TOOLING
REPAIR OPERATIONS	HYDRAULIC ASSEMBLY REFURBISHMENT
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• FLEXIBLES REPLACEMENT• MANOMETER CALIBRATION• LOAD TEST• PRESSURE TEST

TRIPOD JACK HYDRAULIC ASSEMBLY REPAIR



AVERAGE
LEAD TIME
1 WEEK

TOOL CATEGORY	TRIPOD JACKS
REPAIR OPERATIONS	HYDRAULIC ASSEMBLY REFURBISHMENT
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• FLEXIBLE REPLACEMENT• TEST OF THE PUMP• LEAKAGE TEST• LOAD TEST

ENGINE STAND



AVERAGE
LEAD TIME
3 WEEKS

TOOL CATEGORY	ENGINE STANDS
REPAIR OPERATIONS	HYDRAULIC & PNEUMATIC ASSEMBLY MAINTENANCE & CHECK
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• CALIBRATION OF THE VALVES• CALIBRATION OF THE PRESSURE LIMITERS• PRESSURE/LEAKAGE TEST• LOAD TEST

ENGINE STAND REPAIR & MAINTENANCE

Engine stands are critical assets since they are used for engine transportation. Any failure in an engine stand can be serious. Thus, engine stands must be regularly followed up, checked and maintained by engine stand manufacturers and experts like Dedienne Aerospace.

As a leading worldwide engine stand manufacturer, Dedienne does not only deliver stands but also ensures the maintenance and repair of your stands fleet.

Dedienne knows what parts need to be periodically replaced and what checks are necessary to make your engine's journey safer. All engine stands repairs are followed by functional & mechanical load tests with a dummy engine mounted on a stand.

For unlicensed tooling, Dedienne Aerospace always purchase the original parts from the OEM or licensed sources.



SHOCK ABSORBERS REPLACEMENT



TOOL CATEGORY	ENGINE STANDS
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• SHOCK ABSORBERS REPLACEMENT• STATIC LOAD TEST• DYNAMIC LOAD TEST

SKID PALLET REPLACEMENT



TOOL CATEGORY	ENGINE STANDS
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• PALLET EXCHANGE• STATIC LOAD TEST• DYNAMIC LOAD TEST

WHEELS ASSEMBLY REPLACEMENT



TOOL CATEGORY	ENGINE STANDS
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• WHEELS ASSEMBLY REPLACEMENT• STATIC LOAD TEST• DYNAMIC LOAD TEST



FULL REFURBISHMENT

- CFM56-5A/5B ENGINE STAND
- CF6-80 ENGINE STAND

3



BEFORE



AFTER



BEFORE



AFTER

CFM56-5A/5B ENGINE STAND

DETAILED LIST OF OPERATIONS

- FULL DIAGNOSTIC OF THE STAND
- FULL DISMANTLE OF THE STAND
- SURFACE TREATMENT REWORK OF RUSTED COMPONENTS
- CASTERS REFURBISHMENT
- PAINT REMOVAL FROM CRADLE & TROLLEY
- SAND BLASTING OF CRADLE & TROLLEY
- SHOCK ABSORBERS REPLACEMENT
- CRADLE & TROLLEY PAINTING
- STAND RASSEMBLING
- CABLES REPLACEMENT
- FLEXIBLES REPLACEMENT
- MARKING REWORK
- LOAD TEST USING DUMMY ENGINE

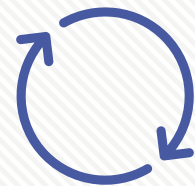
AVERAGE
LEAD TIME
1 MONTH

CF6-80 ENGINE STAND

DETAILED LIST OF OPERATIONS

- FULL DIAGNOSTIC OF THE STAND
- FULL DISMANTLE OF THE STAND
- SURFACE TREATMENT REWORK OF RUSTED COMPONENTS
- CASTERS REFURBISHMENT
- PAINT REMOVAL FROM CRADLE & TROLLEY
- SAND BLASTING OF CRADLE & TROLLEY
- CRADLE & TROLLEY PAINTING
- SHOCK ABSORBERS REPLACEMENT
- STAND RASSEMBLING
- CABLES REPLACEMENT
- FLEXIBLES REPLACEMENT
- MARKING REWORK
- LOAD TEST USING DUMMY ENGINE

AVERAGE
LEAD TIME
1 MONTH



UPGRADE

- NACELLE TOOLING UPGRADE
- LEAP TOOLING UPGRADE
- AIRCRAFT TOOLING UPGRADE

4

UPGRADE / MODIFICATIONS / VARIANT INTEGRATION

Thanks to our major OEM licenses and partnerships, Dedienne Aerospace has access to all necessary drawings and technical modifications. We are thus able to upgrade most of your tooling according to the latest index. We are also able to modify existing tools by integrating new variants for multi-usage (example: adding a V02 variant to an existing V01 bootstrap).

An upgrade or modification does not only consist of a simple tool modification, but also includes a full recertification of the modified tool to the upgraded or modified index.

Upgrade kits are managed in stock in order to decrease lead time (TAT).



NACELLE TOOLING UPGRADE



TOOL CATEGORY	NACELLE TOOLING
TOOL UPGRADE	FROM A TO C
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• UPGRADE• DIMENSIONAL CONTROL• LOAD TEST

LEAP TOOLING UPGRADE



TOOL CATEGORY	ENGINE TOOLING
TOOL UPGRADE	FROM G01 TO G02
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• UPGRADE• DIMENSIONAL CONTROL• LOAD TEST

B737 MAX BOOTSTRAP UPGRADE



TOOL CATEGORY	AIRCRAFT TOOLING
TOOL UPGRADE	FROM B TO F
DETAILED OPERATIONS	<ul style="list-style-type: none">• FULL DIAGNOSTIC• UPGRADE• DIMENSIONAL CONTROL• LOAD TEST



LOAN

5

LOAN

For maintenance or transportation, short term or long term requirements, or AOG needs, get the right tool at the right time, while saving money with Dedienne Aerospace loan solutions.

We have at our disposal a strategic tooling stock able to be dispatched from our worldwide facilities. This stock includes Engine Stands, Engine tooling, Aircraft tooling, Ground Support Equipment, or Engine Change Kits.

All tools are delivered with all of their compliance certificates.



ENGINE STANDS



GROUND SUPPORT EQUIPMENT



ENGINE TOOLING



CONTAINERS



AIRCRAFT TOOLING



ENGINE CHANGE KIT





TRAINING

- NITROGEN BACKPACK
- TRENT 7000 ENGINE STAND
- TRIPOD JACKS

6

TRAINING

Who better than Dedienne Aerospace to help you with the use of our tooling? Whether for Engine tooling, Aircraft Tooling, Engine Stand, or Ground Support Equipment, our training capabilities are as broad as our tooling portfolio references. Our dedicated training teams are mobile and carry out training on and off-site.

Design, use, safety; any and all questions can be shared with confidence during these tailor-made training sessions. The trainings will allow your teams to optimize the use of tools and gain in performance and efficiency.

All trainees receive a training certificate upon validation.



NITROGEN BACKPACK



PN	D12PUM00005G00
TOOL DESCRIPTION	FASTER NITROGEN SERVICING FOR AIRCRAFT DOORS NITROGEN ACCUMULATORS
TRAINING PURPOSE	AirAsia trained its A320 team to charge the aircraft hydraulic accumulators in less than 5 minutes and with only one operator for servicing

TRENT 7000 ENGINE STAND



PN	RRT095052-2_A
TOOL DESCRIPTION	ALL PURPOSE TRANSPORTATION STAND TRENT 7000, A330NEO
TRAINING PURPOSE	TAP technicians trained on the usage and the functionality of the TRENT 7000 APS

TRIPOD JACKS



PN	D07TRJ00006G01
TOOL DESCRIPTION	POLYVALENT TRIPOD JACK ABLE TO LIFT AIRCRAFT
TRAINING PURPOSE	Lufthansa Technik Puerto Rico trained the operators to use polyvalent tripod jacks on B737 and also A320



SPARE PARTS

7

SPARE PARTS

Dedienne Aerospace's roots lie in tooling manufacturing. This means we operate in alliance with our supply chain, our worldwide suppliers, and other partners.

Consequently, all strategic and consumable spare parts are always on hand (e.g., engine stand shock absorbers, bootstrap pins, seals, guides, axle jacks & tripod jack pistons etc.). Based on our repair statistics, data is regularly analyzed to identify the most replaced spare parts in order to update stock.

All spare parts are delivered with Dedienne Aerospace original quality documents (COC, test certificates, etc.). For unlicensed tooling, Dedienne Aerospace always purchases original parts from the OEM or qualified sources.



SEALS



WHEELS



SHOCK MOUNTS



TOW BARS





SERVICES SHOWROOM

- BOOTSTRAP CERTIFICATION
- TRIPOD JACK CERTIFICATION
- ENGINE STAND CERTIFICATION

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BOOTSTRAP CERTIFICATION

Picture shows one step in a bootstrap full certification: load test phase. This phase is preceded by calibration of dynamometers and maintenance of hoists. It is followed by dimensional verification to ensure that no permanent deformation occurs during the load-test.

There is no better provider than Dedienne Aerospace to guarantee the safety of your bootstrap.



LIST OF DELIVERED DOCUMENTS

- DIAGNOSTIC SHEET
- DYNAMOMETER CALIBRATION CERTIFICATES
- HOISTS MAINTENANCE CERTIFICATES
- LOAD TEST CERTIFICATES
- DIMENSIONAL CONTROL REPORT
- CERTIFICATE OF SERVICEABILITY
- CERTIFICATE OF CONFORMITY
- CE CERTIFICATE (IF TOOL IS CE)
- TEST PHOTOS
- TECHNICAL REPORT

CHECKLIST DETAILS

- COMPLETE TOOL CHECK
- CHECK FOR DAMAGED ITEMS
- CHECK FOR RUSTED ELEMENTS
- CABLES CHECK
- PAINTING VIDEO CHECK
- IDENTIFICATION PLATE CHECK
- MARKING CHECKS
- USER MANUAL CHECK

TRIPOD JACK CERTIFICATION

Picture shows periodic load test of tripod jack using a Dedienne column test. Within the scope of full recertification, there is first a full diagnostic, greasing, cleaning, and level one maintenance. If the load test is successful, it is followed by dimensional control to ensure that no permanent deformation has occurred.

To avoid high repair costs (e.g., blocked pistons that need replacing, hydraulic assembly failures...), it is recommended to entrust your tripod certification to a competent entity: Dedienne Aerospace is your best partner.



LIST OF DELIVERED DOCUMENTS

- DIAGNOSTIC SHEET
- STATIC LOAD TEST CERTIFICATE
- DYNAMIC LOAD TEST CERTIFICATE
- CERTIFICATE OF SERVICEABILITY
- CERTIFICATE OF CONFORMITY
- CE CERTIFICATE (IF TOOL IS CE)
- TEST PHOTOS
- TECHNICAL REPORT

CHECKLIST DETAILS

- FLEXIBLES CHECK
- PUMP CHECK
- CASTERS ASSEMBLY CHECK
- FINAL APPROACH SCREW CHECK
- SECURITY NUTS CHECK
- LEAKAGE CHECK
- MARKING CHECK
- USER MANUAL CHECK
- IDENTIFICATION PLATE CHECK

ENGINE STAND CERTIFICATION

Picture shows validation test done after an engine stand major repair. A dummy engine is installed on the stand: static and dynamic load tests are carried out to verify the mechanical resistance of the stand and the integrity of the hydraulic circuit.

Make Dedienne Aerospace your preference for a full Load Test. Our full load tests are compliant with OEM and Regulations thanks to our Dummy Engines and Test Jigs. Without suitable Dummy equipment, a proof load test has no legal value and cannot cover your liability.



LIST OF DELIVERED DOCUMENTS

- DIAGNOSTIC SHEET
- STATIC LOAD TEST CERTIFICATE
- DYNAMIC LOAD TEST CERTIFICATE
- PRESSURE LEAKAGE TEST CERTIFICATE
- CERTIFICATE OF SERVICEABILITY
- CERTIFICATE OF CONFORMITY
- CE CERTIFICATE (IF TOOL IS CE)
- TEST PHOTOS
- TECHNICAL REPORT

CHECKLIST DETAILS

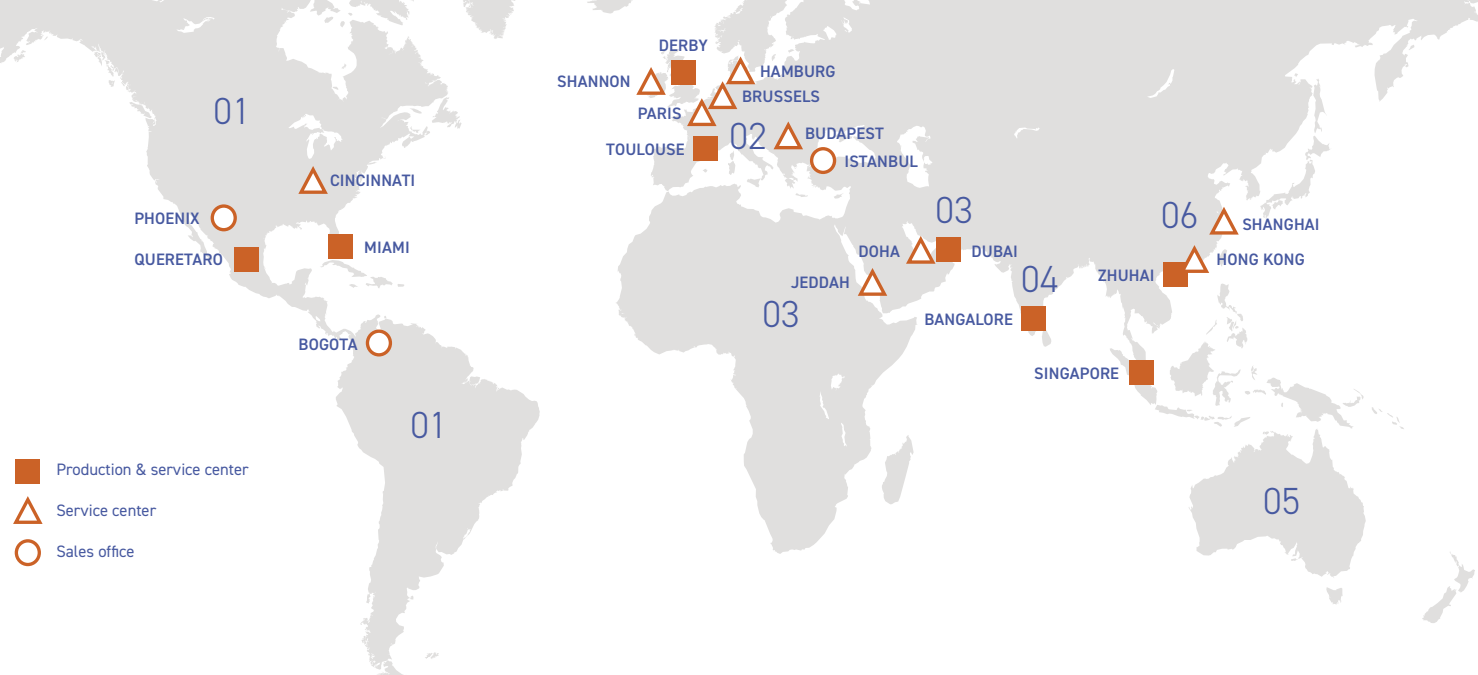
- ARMS CHECK
- BRAKING SYSTEM CHECK
- CASTERS ASSEMBLY CHECK
- SHOCK ABSORBER VALIDITY CHECK
- CHECK FOR RUSTED ELEMENTS
- CHECK FOR MISSING ELEMENTS
- ENGINE MOUNT CHECK
- HYDRAULIC ASSEMBLY FULL CHECK
- MARKING CHECK
- USER MANUAL CHECK
- IDENTIFICATION PLATE CHECK



CONTACT

- SALES & TECHNICAL SUPPORT
- PRODUCTION FACILITIES & SALES OFFICES
- WEBSITES & SOCIAL MEDIAS

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