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AUTHORIZED REPRESENTATIVE APPOINTMENT

To whom it may concern,

We are pleased to officially acknowledge that TAMAGAWA AERO SYSTEMS is an authorized representative of **LANGA INDUSTRIAL SA** in JAPAN for Military and Civil Projects.

This authorized representative acknowledgement is conformed to the representation agreement signed between Langa Industrial S.A. and the representative. This agreement is has validity of one year and therefore may be renewed yearly, with the formal approval by written by both parties and considering the sales performance/ commercial and marketing activity of the Representative.

Sincerely,

José Luis Langa
CEO and Managing Director



Ground
Support
for Flying



AIRBUS
AN AIRBUS COMPANY

LANGA INDUSTRIAL is officially AIRBUS
Hydraulic Jacks Source Approved



www.langaindustrial.com



Aircraft Maintenance Equipment

HYDRAULIC JACKS - TRIPOD



TRIPOD JACKS FOR JETS, FIGHTERS AND HELICOPTERS. From 3 to 30 Tons.



TRIPOD JACKS. NARROW AND WIDE BODY AIRCRAFT TYPE AND FOR REGIONAL JETS. From 3 to 150 Tons.

i JACK© - Jacking level monitoring



PORTABLE UNIVERSAL JACK TESTER for PART-145 checkings



AUTOMATIC JACKING CONTROLLING



Automatic PLC Controlled System - HELPS for Jacking / Leveling and Weighing. Optional automatic safety nuts operation. Semiautomatic Electrohydraulic powerpack

HYDRAULIC JACKS - AXLE



AXLE JACKS. ALLIGATOR TYPE. From 3 to 150 Tons.



AXLE JACKS AND FLYAWAY JACKS From 3 to 30 Tons.

LANGA INDUSTRIAL Hydraulic Jacks are the main part of our core business, and are the result of the Lessons Learned during more than 45 years of Designing and Manufacturing this product for a wide range of Aircraft, from the Airbus / Boeing Large Commercial Airplanes up to the Medium Airbus Defence / Bombardier / Embraer / ATR ones, or military Fighters and Helicopters. Outstanding technical advantages like: hard chrome plating cylinders, ball joint ground plates, mechanical safety lock system, electrical pump or spring balanced wheels are included in our Designs.

TRANSPORT CARTS



MULTISERVICE CARTS



JACK TRANSPORT CART

MOBILE MAINTENANCE CRANES



MOBILE MAINTENANCE CRANES. Lightweight, foldable, portable and airtransportable for maintenance tasks on field deployment missions.

MAINTENANCE PLATFORMS & STAIRS



MAINTENANCE PLATFORMS & STAIRS
Towable or self-propelled



NITROGEN & OXYGEN CARTS



NITROGEN & OXYGEN CARTS

Hangar and ramp towable type, high pressure (380 bar) and low pressure (25 bar). 1, 2, 4, 6 bottles configuration and optional booster. Also available 24 bottle truck mounted.

AIRCRAFT WEIGHING SYSTEM



AIRCRAFT WEIGHING SYSTEM

WHEEL DOLLY CHANGERS



WHEEL DOLLY CHANGERS

TOWBARS



HEATERS



HEATERS. Multipurpose units with different versions including extremely powerful one for wide body aircrafts.

LOADERS



LOADERS. several models suitable for Civil and Military (Air-transportable).

DEICERS / WASHERS



DE-ICERS. self-propelled and towable options, designed for providing service at medium size airports for narrow body and regional aircrafts.

HELICOPTER HANDLERS



HELICOPTER HANDLERS. Helitrailers and helimovers towable or electrical self-propelled equipments for transporting Helicopters on even or uneven surfaces.

TAILOR MADE SOLUTIONS & SPECIAL PROJECTS

Focused on Aerospace and Defence sector, LANGA INDUSTRIAL has developed a wide range of Industrial Solutions for our customers as an evidence of its notable Design and Innovation Capabilities.



A330 MRTT Refuelling Boom System Cradle and Trolley



Eurofighter Docking System

OTHERS

Towing Tractors
Other Lifting Solutions
Test Benches
Tools



Jacking Fixtures
Load Tests & Maintenance

MAINTENANCE, TECHNICAL SUPPORT

"INCREASE THE RELIABILITY AND LIFE OF YOUR OLD EQUIPMENTS"

Overhaul-Repair-Calibration-Upgrading-Rebuilding-Safety Regulations (i.e. CE) adaptations
LANGA INDUSTRIAL not only provides Products but Services and Support. We maintain a notable stock of spare parts for your Operation needs and provide support worldwide.

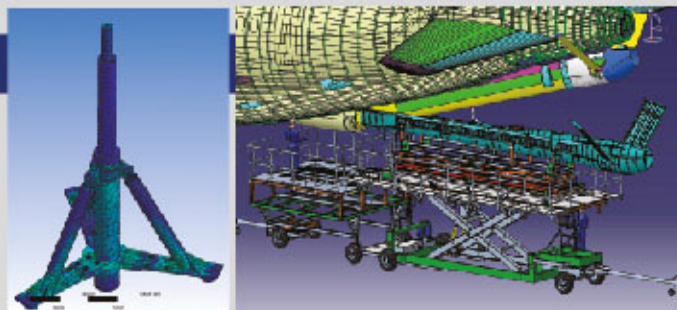
Langa Industrial S.A. a Spanish Private Corporation founded in 1971, is the Leading Company in Spain for the Design and Manufacturing of Ground Support and Maintenance Equipment. LANGA INDUSTRIAL Headquarters are located in Madrid, 40 minutes from Madrid International Airport. This facility has a ground area of 6500 m² and is equipped with the most modern and advanced resources.

LANGA INDUSTRIAL has a worldwide reputation for providing cost effective equipments and solutions for most kind of existing airplanes and helicopters.

Our equipments are operating in more than 60 countries.

Design

Our own team of highly-skilled engineers, combined with the use of the best design and structural analysis tools in the market, like CATIA, Solid Edge or ANSYS, allow us to perform best fit and tolerance stacking tests or motion modeling simulations, in order to achieve accurate results. Therefore, aspects such as design safety, stresses, deformations, frequency along with ergonomics or risks concerns, are taken into consideration through every stage of the design and development phase.



Manufacture

Our workshop plant has been thoroughly analyzed, so production standards are maximized to the highest. LANGA INDUSTRIAL is equipped with state-of-art computerized off-line machinery. Our significant expertise in computer controlling systems, allows us to install control software for diverse mechanical, pneumatic and hydraulic applications.



Quality

LANGA INDUSTRIAL is certified as per ISO 9001 and the Defence NATO AQAP-2110 (NCAGE 1777B) certifications. LANGA INDUSTRIAL has the approvals of the main Aircraft Manufacturers like, Airbus, Airbus Defence & Space, Eurofighter, BAE Systems, ATR, etc. We have the most advanced means for Quality Inspection including a Load Test Bench for loads up to 300 Tons.

CIVIL References

111 REPAIR LLC - ABC Contact EOOD - Abu Dhabi Aircraft Technologies - ADA International General Trading LLC - Aerlyper - Air Arabia Maroc S.A. - Air Asia X - Air Baltic - Air Europa - Air Nostrum - Air Philippines Express - AIR VIA Bulgarian Airways - AIRBUS - AIRBUS Defence&Space - AIRBUS Helicopters - AIR-RAIL - ALESTIS - Aerospace - ALS-EUROPE - AMAC Aerospace - AMMROC - APS Airparts Support Inc. - Aurigny - Bahrain Airport Services - Binter Canarias - Brussels Airlines - CESA - Conviasa - Corjet Maintenance - STRONGHOLD - Cygnus Air - DAS Handling - DHL - Dnata - Donavia - ECA SINTERS/ATR - EMIRATES - Ethiopian Airlines - European Air Transport - FINNAIR Technical Services LTD - FL - Technics - Flightcare - FlyDubai - Fraport - GESTAIR - Globalia - Groundforce - GTL Lot - GUADAIIRA Aircraft Maintenance S.A. - Airport - IBERIA - INAER/Hispacopter - Indonesia Aerospace - INDRA - INTAA - ITP JET Aircraft Services, S.L. - Kuwait Airways - Lease Fly - Line TAirways - Lease Fly - Line - Lublin Airport - Luxair - Malaysian Airlines - OJSC Taimyr Airlines-Nordic - Oman AIR - Orbest - OY NORDIC Airport Services AB - PLATA, Aeropuerto de Teruel - Indonesian - Aerospace - PULLMANTUR AIR S.A. - SABENA Technics - Saudi Airlines - Servisair - SIA Engineering Company - Singapore Airlines - Engineering Philippines - South African Airways - ST Aerospace Engineering - Strategic Aviation - Swift Global Logistics - Swiftair - Swissport - Tarmac Aerosave - TAROM - TNT - Tway Air - TWay Airlines - UAB Baltic Ground Services - UtAir - Volga Dnepr Group - Yamal Airlines - Austrian Airline Technik Bratislava - LLC Nord-Technik - Portway handling Portugal - SR Technics

DEFENCE References

Airbus Defence - Algeria MoD - AMMROC - Australia MoD - BAE Systems - Brazil MoD - Chile MoD - Colombia MoD - Czech Republic MoD - Egypt MoD - Eurofighter GMBH - Finland MoD - France MoD - General Dynamics - Germany MoD - Ghana MoD - Indonesian - Italy MoD - Libya MoD - Malaysia MoD - Morocco MoD - Navantia - OMAN MoD - Pakistan MoD - Patria - Philippines MoD - Poland MoD - Saudi Arabia MoD - Spain MoD - UAE MoD - UK MoD - Venezuela MoD - Kazajistan MoD - Ecuador MoD - Bahrain MoD - NSPA / NATO



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AIRCRAFT GROUND SUPPORT & MAINTENANCE EQUIPMENT LANGA INDUSTRIAL PRODUCT RANGE:

GSE & MAINTENANCE EQUIPMENT

- Hydraulic Axle Jacks
- Hydraulic Tripod Jacks
- Jack tester
- Automatic Jacking Controlling Systems
- Nitrogen / Oxygen Servicing Carts
- Wheel / Brake Changers
- Aircraft Weighing System
- Multiservice Carts
- Maintenance Platforms / Stairs
- Staging Platforms
- Mobile Maintenance Cranes
- GSE and Tooling in General
- Stands / Stanchions

HANDLING EQUIPMENTS

- Towbars
- Heaters
- De-Icers / Washers
- Loaders
- Helicopter Handlers

TAILOR MADE SOLUTIONS & SPECIAL PROJECTS FOR AEROSPACE AND DEFENCE INDUSTRY

MAINTENANCE. TECHNICAL SUPPORT

- Overhaul
- Calibration
- Upgrading
- Rebuilding
- CE adaptation

Local Representative

