## ᄃロMPANY PRロFILE

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## பAS PILடS



## ᄃபSTロMERS

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## ロபR ADDED VALபE

UAS added value \& differentiator consists in the capability of providing valuable contribution since the conceptual stage in each of the design \& development phases taking responsibility of the results. UAS Engineers have long time experience in most of the worldwide Aircraft programs and deep aviation knowledge

Our team is able to apply an integrated \& make it work approach covering the entire product development life cycle following guidelines of ARP 4754

## Product Development Process \& Drganization

## Requirements <br> Definition

```
        Design
```

Preliminary Design

In Service Operational Support \& Training

## Qualification \& <br> Certification

Detailed Design

## ロபR PRロCESSES

## 1 －ENGINEERING DESIGN

3D mechanical design，hydraulic，
electronic design（DO254）and SW
coding（DO178），coupled with
performances，reliability and safety
analysis（ARP4767）．

## 2－ロUPLIFICATION <br> \＆CERITIFCATIUN

## Performance，endurance，fatigue

environmental and EMI／EMC tests in compliance with RTCA－DO160 and MIL－STD－ 810.

Test benches design and manufacturing， qualification procedures and test reports．


## 4 －LロGISTIC SUPPORT

We take care of the maintenance， repair and replacement of the products we supply to our customers．Warehouse storage and ready to ship services．

ヨ－MANபFACTURING \＆ロபRLITY

Fully traceable serialized products，First Article Inspection Report，Certificate of Conformity，Sub－supplier management，obsolescence monitoring，hazardous materials monitoring，critical parts management． Assembly，acceptance tests and quality inspection． Supply chain management \＆testing．In compliance with EN9100．

## APPLICATIDNS: ᄃivil Programs



APPLICATIDNS: Military Programs


## APPLICATIDNS: Fdvanced Rir Mobility

UAS is well engaged also in the Advanced Air Mobility market and has several ongoing discussion with different Manufacturers;


## PRODLCTS

## Rctuation Systems

- Electromechanical system for Landing Gear
- Wheel Braking System
- Nose Wheel System



## Electro mechanical Actuators

- Linear, Rotary and SMART

Actuators

- Mechanically and Electronically Redundant Electromechanical Actuators
- Low/HIGH power Electromechanical Actuators



## Hudraulic Sustem

- Power generation and Hydraulic Power Management System (Pumps, Filter, valves etc.)
- Hydraulic Actuation System



## Electranic Cantral பnits

- Remote Sensor Acquisition electronics (Remote Electronic Unit)
- Remote Primary Actuation Control Electronics (Remote Control Unit)



## Actuation System



Complete brakes systems composed by wheels, brakes and corresponding controls including electronic control units, embedded software and antiskid according to ARP1070.
Brake system architectures according to Customer requirements: e.g., electromechanics or hydraulic brake-by-wire systems.
The maximum Design Assurance Level (DAL A) achievable by our systems. Full collaboration during ground testing of the aircraft.

## Electromechanical Actuatars



Complete flap systems including pilot command, electronic control unit, power drive unit, transmission shafts, screwjack and asymmetry sensors. Smart Electromechanical Actuators with integrated electronic control unit and embedded software (up to DAL A). Redundant architectures with double brushless motors and up to triplex position sensors, clutch-declutch, torque limiter and end stroke devices.

## Hydraulic System



Complete Hydraulic Power Systems: Bootstrap Reservoirs, Filter Packages, Accumulators and Hydraulic Pumps.

## Electranic Сantral பnits



Electronic Control Units design and production. HW design, protyping, qualification testing and production. Firmware and application SW coding with independent validation and verification process to assurance the highest level of assurance required.

## ロப円LIFICATIDN \& ᄃERTIFICATIDN

Final Certification

```
RTCA-D0160
MIL-STD-810
EUROCAE
```



## PRロロபடTIDN TEST 日ENCH

Hydraulic bench

Qualification．Climatic Chambers for extreme temperature



Quelification vibration test sustern


םualification impulse test hudraulic bench

## MANபFACTLRING \& ロபALITY



## 머ALITY

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## 므﹎ITY -

## A CaRPロRATE PRERDGATIVE

The implementation of aeronautical systems is a sector in which quality is a fundamental requirement to guarantee the reliability of the product. The UAS Quality Management System is equipped with all the necessary certifications required to be able to meet the needs of international markets in both the civil and military sectors

The certifications are constantly updated through periodic audits of our customers and of the bodies in charge.

Our quality system complies with:

- EN 9100:2018
- UNI EN ISO 9001:2015
- Experienced in POA Part 21G


## RI/ R

CERTIFICATO N. 44235/23/
CERTIFICATE NO.
UMBRIA AEROSPACE SYSTEMS S.P.A.






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$\qquad$

AS91000 $/$ EN $9100: 2018$ In




Number


## WHERE WE PRE

Website: Www.uas-group.com
Email: sales@uas-group.com
Tel: 0759888222

Your Reliable \& Agile Partner for Rerospace Inmavative \& Complex Sustems

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