



ENGINEERING THAT FLIES

Engineering from concept
to certified aerospace products.



ENGINEERING



MANUFACTURING



PRODUCTS



ABOUT FAAW

YOUR ENGINEERING PARTNER FOR AEROSPACE

We turn your ideas into certified aerospace products. From concept and engineering to manufacturing support and certification, we are with you at every step.

“

From concept to certified product.

One engineering partner.



WHY FAAW?



AEROSPACE EXPERTISE

Certified aerospace development



INTEGRATED ENGINEERING

Design, analysis and manufacturing



FASTER DEVELOPMENT

Rapid iterations and engineering support



PRODUCTION READY

Designed for manufacturing and certification

OUR PROCESS



IDEA

Requirements & concept



ENGINEERING

Mechanical design



ANALYSIS

CFD
FEM



PROTOTYPE

Testing & validation



MANUFACTURING

Production & tooling



CERTIFICATION

Documentation & compliance



DELIVERY

Production support

ENGINEERING SERVICES

From concept development and engineering analysis to certification.



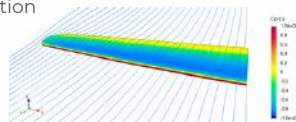
DESIGN

- Parts & assemblies
- Composite structures
- Reverse engineering
- Weight optimization



ANALYSIS

- FEM /FEA
- CFD simulations
- Structural analysis
- Weight optimization



CERTIFICATION

- PART 21
- UL aircraft
- Technical documentation
- Compliance support



TOOLING

- Tooling & fixtures
- Manufacturing optimization
- Assembly support
- Prototype preparation



MANUFACTURING

Manufacturing solutions from prototype to serial production.



ADDITIVE MANUFACTURING

- MJF, FDM, SLA, SLS
- Functional prototypes
- Low-volume production
- Complex geometries



METAL MANUFACTURING

- CNC machining
- Laser & milling
- Surface Finishing
- Part Identification & Labeling





UC-1 ATHENA

Autonomous Cargo UAV Platform

UAV platform for long-range cargo transport and special mission applications.

500 km (max.) RANGE Up to 250 km *	5 kg PAYLOAD Up to 5 kg	up to 6 h ENDURANCE Up to 3 h *	AUTONOMOUS GNSS-DENIED CAPABLE	LEVEL 5 WIND RESISTANCE Up to 11 m/s
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PROJECT VISION

UC-1 ATHENA is being developed as an autonomous cargo UAV platform developed for long-range logistics and humanitarian missions.

The project combines aerodynamic design, lightweight structures and scalable system architecture for future applications.

KEY DESIGN PRINCIPLES

- ✓ Long endurance
- ✓ Modular architecture
- ✓ Autonomous operation
- ✓ Low operating costs
- ✓ Easy maintenance
- ✓ High reliability

TECHNOLOGY AREAS

Flight Mechanics	Aerodynamics
Electric Propulsion	Structures
Avionics	Manufacturing

MISSION APPLICATIONS



CARGO
TRANSPORT



EMERGENCY
RESPONSE



AGRICULTURE



WILDFIRE
OPERATIONS

TYPICAL MISSION PROFILE (Example)



ENGINEERING HIGHLIGHTS

- | | |
|---|--------------------------------------|
| ✓ Lightweight aluminium & polymer structure | ✓ Flight-optimized design |
| ✓ Optimized aerodynamics | ✓ Additive manufacturing integration |
| ✓ Electric propulsion | ✓ Robust redundant architecture |
| ✓ Autonomous navigation | ✓ CS/FAR - 23 methodology |
| ✓ GNSS-denied operation capability | ✓ STANAG 4703 compliance |

TECHNICAL SPECIFICATIONS

PERFORMANCE

Cruise speed	~27 m/s (= 52 knots)
Range	Up to 500 km (max.) Up to 250 km *
Endurance	Up to 6 h (max.) Up to 3 h *
Wind resistance	Up to 11 m/s (Level 5)

* Performance at 27 m/s and a payload 5 kg

PAYLOAD

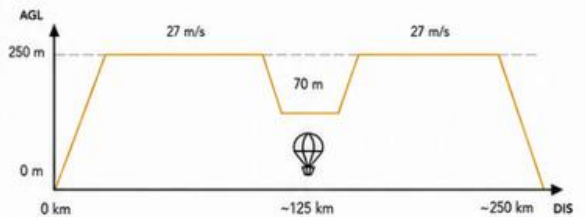
Payload capacity	Up to 5 kg
Cargo compartment (L x W x H)	240 x 200 x 500 mm
Payload integration	Modular Quick-change

AIRFRAME

Wingspan	3.0 m
Length	2.42 m
Height	0.65 m
MTOW	15 kg

OPERATIONS

Launch	Runway take-off
Recovery	Runway landing
Propulsion	Electric
Load factor	Up to 4.3 g
Operational temp.	-20 °C to +45 °C
Compliance	CS/FAR - 23 STANAG 4703





FAAW PRODUCTS

PITOT-STAT PROBE

THREE FUNCTIONS.
ONE COMPACT PROBE.

One compact solution for Ptot, Pstat and Angle of Attack (AoA) measurement – designed with integration, weight and operational reliability in mind.

KEY BENEFITS



INTEGRATED

Pitot + Static + AoA



LIGHTWEIGHT

Monolithic construction



INTEGRATED HEATING

Anti-icing system ready (max 4W)



EASY INSTALLATION

Direct connection with 6 mm fitting



RELIABLE

High vibration resistance



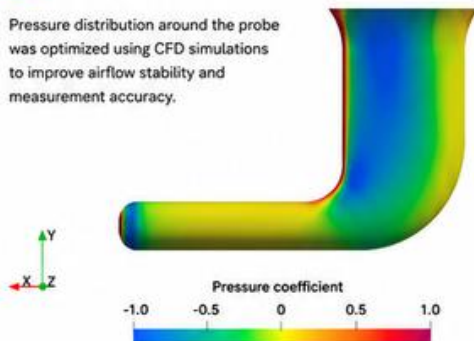
ADDITIVE MANUFACTURING

Optimized for functional integration



CFD OPTIMIZED DESIGN

Pressure distribution around the probe was optimized using CFD simulations to improve airflow stability and measurement accuracy.



TECHNICAL PARAMETERS

	TYPE	Pitot-static probe with AoA measurement
	FUNCTION	Ptot, Pstat, AoA
	SPEED	up to 400 km/h
	TEMPERATURE RANGE	-40 °C to +55 °C
	HEATING	Integrated electric heating (max 4W)
	WEIGHT	189 g
	APPLICATION	CS/FAR 23 and LSA

BOTTOM VIEW



FLIGHT CONTROL GRIPS

Choose the solution that best fits your aircraft and project.

FAAW GRIPS STANDARD

Ready-to-install grips for fast integration.

Ideal for standard cockpit applications.



Fixed
configuration



Proven
electronics



Fast
delivery



Cost-
effective

→ **See Standard Series**
Pages 6–7

FAAW GRIPS MODULAR

Fully configurable grip system.

Select handle, head
and controls.



Modular
design



Multiple head
options



Custom
branding



Compatible
with Ray Allen

→ **Explore Modular Series**
Pages 8–9

STANDARD GRIPS

FEATURE

MODULAR GRIPS

Ready to install



CONFIGURATION

Fully configurable

Fixed electronics and switches



ELECTRONICS

Configurable electronics and controls

Fast integration



IMPLEMENTATION

Tailored to your needs

Lower complexity



FLEXIBILITY

Maximum flexibility

Cost-effective solution



INVESTMENT

Premium, configurable solution

FAAW GRIPS STANDARD

Proven grip designs
for aircraft integration.

- ✓ Standardized solution
- ✓ Proven ergonomics
- ✓ Chemical Smooth finish
- ✓ Standard push-button option

1 CHOOSE YOUR GRIP

Choose the grip shape.



GRIP SERIES 4

Compact
for basic applications



GRIP SERIES 5

Balanced
for general use



GRIP SERIES 6

Maximum control
for demanding missions

2 COLOR VARIANTS

Choose the color that matches your aircraft and cockpit.



BLACK
Standard



SCARLET



PETROL



**NAVY
BLUE**

3 CUSTOM OPTIONS

Make your grip match your aircraft and your brand.



BRANDING

Custom labeling and branding available. Your logo. Your identity.



ELECTRONICS

Simple and reliable push button switch for function control.



FAAW GRIPS MODULAR

Designed around
your mission.

- ✓ Hybrid heads
- ✓ Custom electronics
- ✓ Expandable options
- ✓ Built for aircraft



1 CHOOSE YOUR GRIP

Choose the grip shape.



GRIP SERIES 4

Compact · Universal fit



GRIP SERIES 5

Ergonomic · Balanced control



GRIP SERIES 6

Firm grip · High control

2 HEAD

Choose electronics and controls.



SIMPLE

- PTT switch
- top switch



BASIC

- PTT switch
- 2-way / 4-way switch



ADVANCED

- PTT switch
- 2-way / 4-way switch
- 2x additional



FULL CONTROL

- PTT switch
- 2-way / 4-way switch
- 4x additional

3 COLOR VARIANTS

Choose the color that matches your aircraft and cockpit.



BLACK
Standard



SCARLET



PETROL



NAVY BLUE

**Designed to match
your aircraft.**

Four colors.
Multiple head configurations.
Built for demanding pilots.

4 CUSTOM OPTIONS

Customize your grip.



COMPATIBLE
WITH RAY ALLEN HEADS



BRANDING

Custom labelin
and branding
available.
Your logo.
Your identity.



LEATHER WRAP

Premium
leather wrap
option for
comfort and a
professional
look.



Designed
around
your brand.



Branding
Make it yours.



Leather wrap
Premium comfort.



Ray Allen compatibility
Built to fit.

ENGINEERING THAT DELIVERS.

FAAW develops engineering solutions, aerospace components and manufacturing tools for demanding aviation projects. From first concept to certified product, we support every stage of development.



ENGINEERING



MANUFACTURING



CERTIFICATION

CUSTOM
PRODUCTS

LET'S BUILD YOUR NEXT PROJECT

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FAAW Engineering



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Engineering partner for:

- OEM manufacturers
- UL aircraft
- General Aviation
- Prototype development