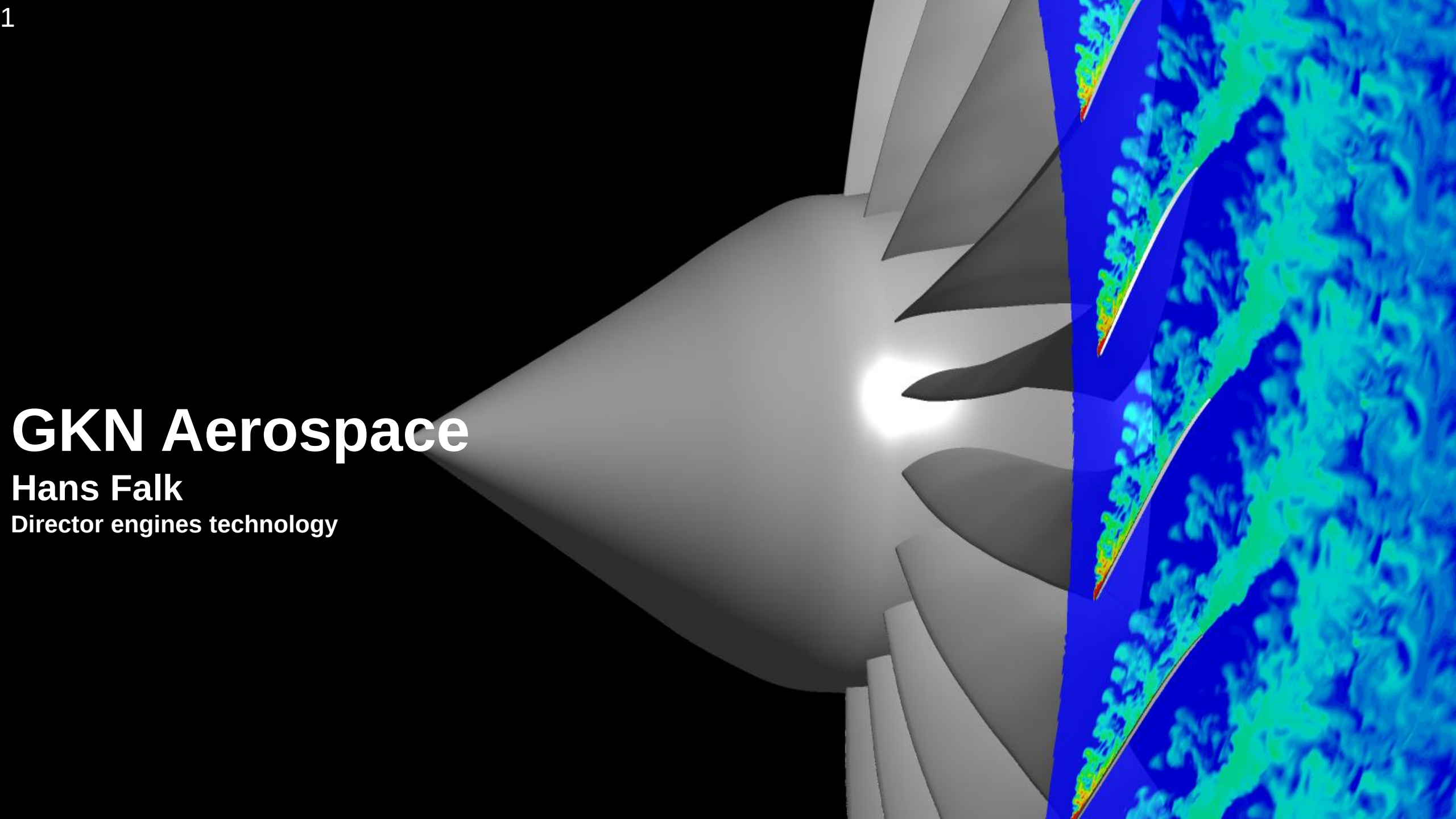
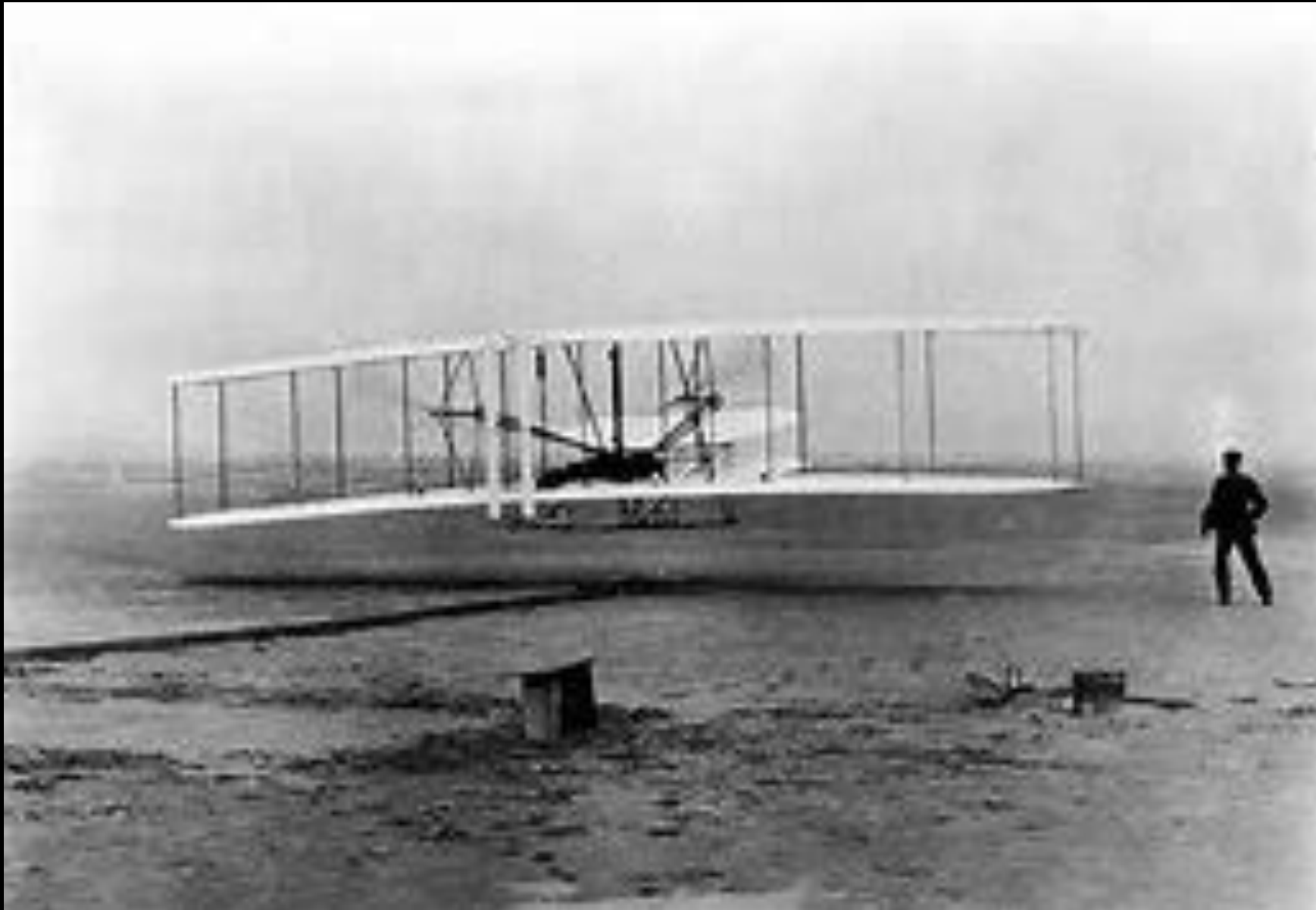




GKN Aerospace

Hans Falk

Director engines technology



GKN Aerospace: A leading global tier 1 Aerospace supplier

Strong focused businesses, sales £3.53 billion (2018), 18,000 employees.

Aerostructures
63% - £2.2bn



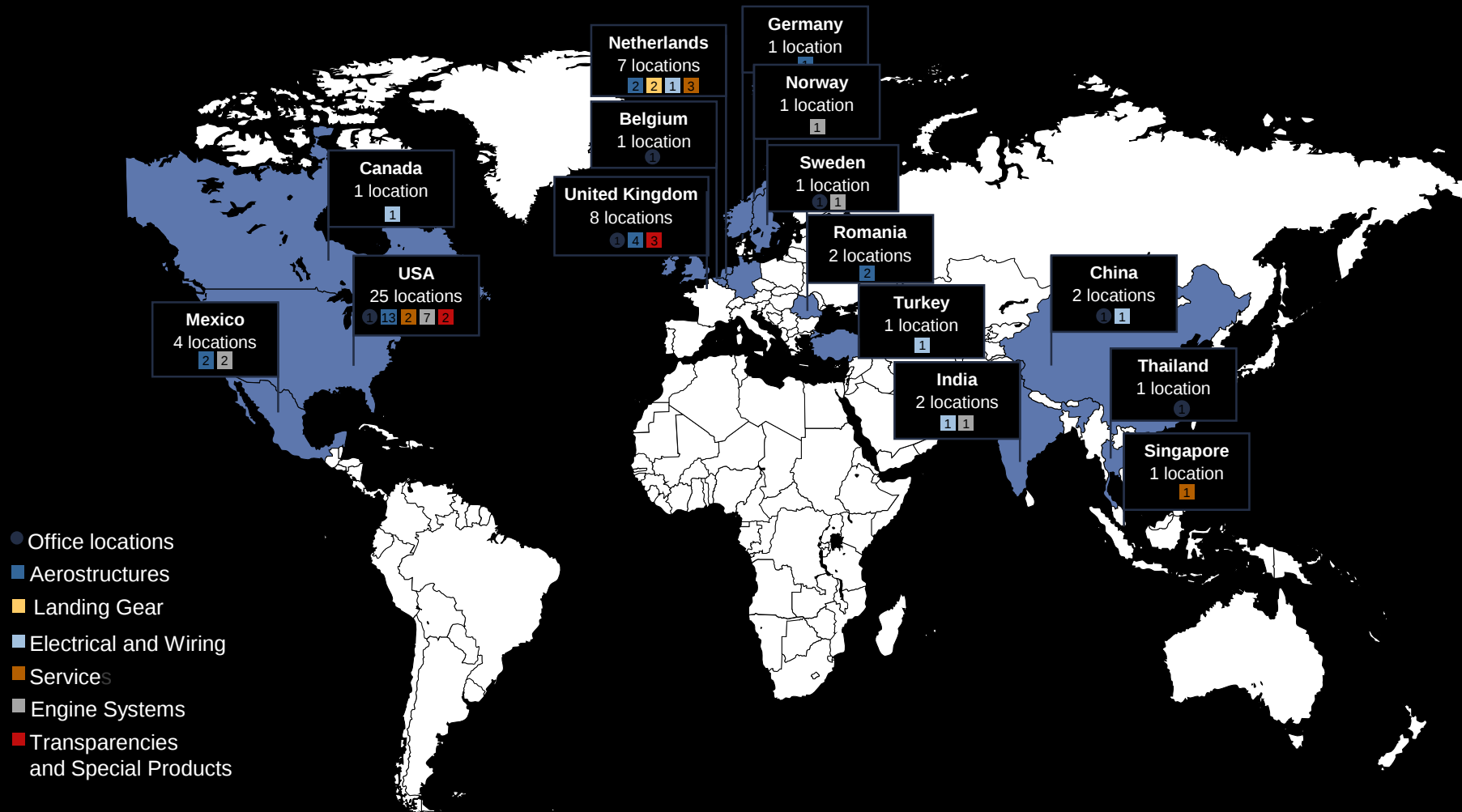
Engine Systems
32% - £1.1bn



Special Technologies
5% - £0.2bn



A global footprint



Number of employees
18,000

2018 sales
£3.53 billion

Number of manufacturing locations
51 in 15 countries



Widest capabilities of any Tier 1

AEROSTRUCTURES



- > Fuselage, wing, nacelle & pylon
- > Inflight opening doors and empennage (tails)

ENGINE SYSTEMS



- > Static & rotating structures
- > Titanium engine inlet parts

SPECIAL PRODUCTS



- > Transparencies
- > Ice protection systems
- > Flotation devices
- > Fuel tanks

WIRING INTER-CONNECT SYSTEMS



- > Electrical Wiring Interconnection Systems (EWIS) for aircraft & aircraft engines

LANDING GEAR



- > Helicopter landing gear
- > Composite load carrying landing gear components (drag brace)

GLOBAL SERVICES



- > Availability services, MRO, conversion and completion for mature and legacy aircraft

GLOBAL NO. 2

GLOBAL NO. 2

GLOBAL NO. 1

GLOBAL NO. 3

GLOBAL
BRAND

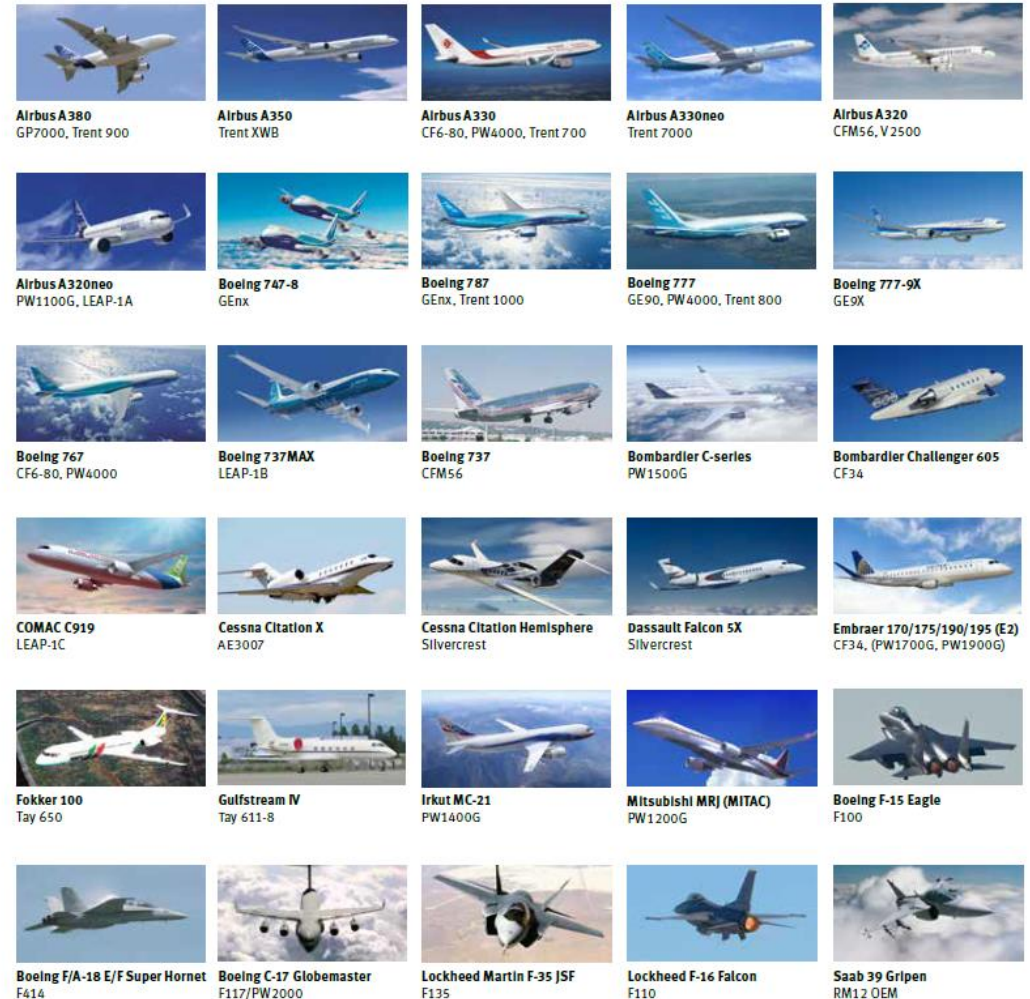
GLOBAL
BRAND

Engine Systems has a strong presence in today's aircraft fleets

More than 90 percent of all new large commercial aircraft engines use our components.

For these aircraft we provide:

- > Engine components
- > Engine technology
- > Engine technical support
- > Engine MRO services
- > Parts Repair



Military market – on the right platforms

F35 JSF
Rate Readiness phase



A400M Atlas
In production



F15
FMS



C130J
US multi-year
and FMS



F18 Super Hornet
Rate Stable



V22
Multi-year



Gripen C/D
Product Support



Blackhawk
US multi-year
and FMS



What does GKN do in Space?

Europe



Ariane 5



Oxygen Turbine



Hydrogen Turbine



Nozzle

US



Stage structures



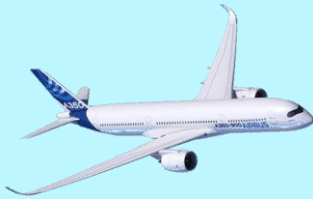
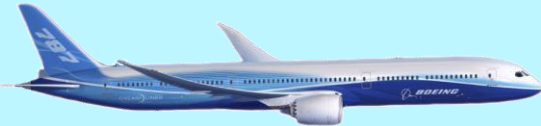
Space Shuttle
Nozzle Jacket

Payload
Fairings

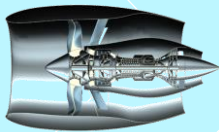


Application driven innovation

Product
Application

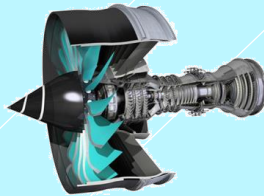
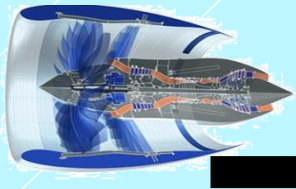


Development
Programs



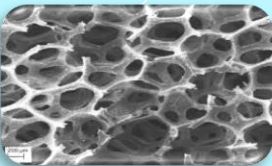
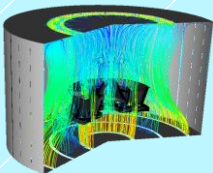
TRL 9
VERIFIED
TECHNOLOGY

International
Collaborative
Programs



TRL 6
DEMONSTRATOR

Seeding
Projects



TRL 3
TECHNOLOGY



Make it light

