

Engines Investor Event Trollhättan

18 October 2023Joakim AnderssonPresident, GKN Engines





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The revenue and profit numbers included in this presentation are calculated using a foreign exchange rate of USD:GBP of 1.25:1 and, unless otherwise stated, growth metrics are at constant currency. Unless otherwise stated, metrics refer to adjusted measures as described in the glossary to the Melrose Industries PLC 2023 Interim Financial Statements and considered by the Board to be a key measure of performance.



Key messages

- GKN Engines has OEM-level capability and responsibility for selected engines which gives more technical and commercial advantages than normal for a Tier 1 supplier
- Leading independent Tier 1 partner to all major engine OEMs with lucrative and diverse RRSP¹ portfolio, providing balance and resulting opportunities
- Strong long-term demand for GKN proprietary breakthrough technologies which will shape new ways for the industry to improve

Trading ahead of plan with the 2023 full year Engines margin guidance raised to 24% Significantly underpinning the 28% margin in 2025 and >30% beyond



Who we are

£1.3bn SALES **4,000+** EMPLOYEES

POWERING

90%

OF ALL FLIGHTS¹

90+
YEARS OF
FULL ENGINE
CAPABILITY

INDEPENDENT
PARTNER
TO ALL MAJOR
ENGINE OEMS

2 ENGINEERING & TECHNOLOGY CENTRES





GKN Aerospace Engines Leadership Team

300+ years of combined experience in aerospace

From all OEMs, markets and regions

MAKING THINGS FLY



Market and customers





Our markets

Sales ~70%

Sales ~25%

Sales ~5%

Civil



\$50 billion market

Regional, narrowbody and widebody

Defence



\$10 billion market

Fighter engines

Adjacent



\$4 billion market

Launcher engines and aero-derivatives

Strong core markets in civil and defence aerospace



Our customers

Sales ~70%





Sales ~25%





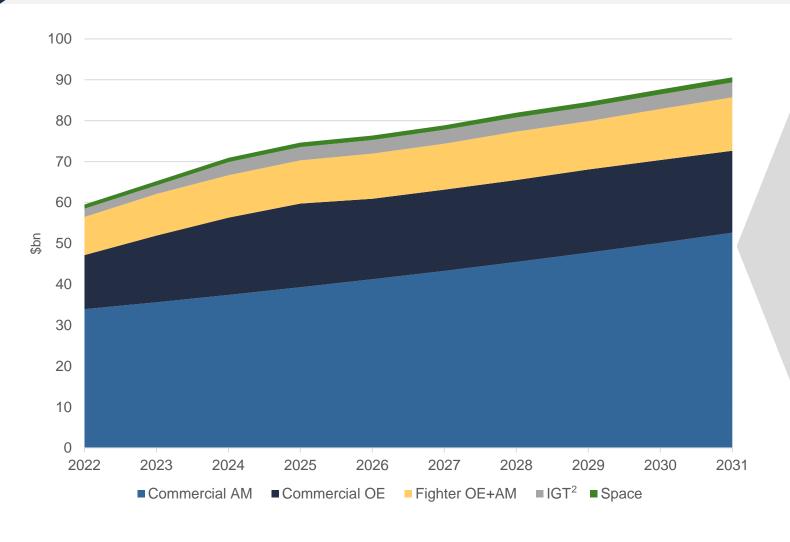
Sales ~5%







Engines market structural growth¹



Key drivers

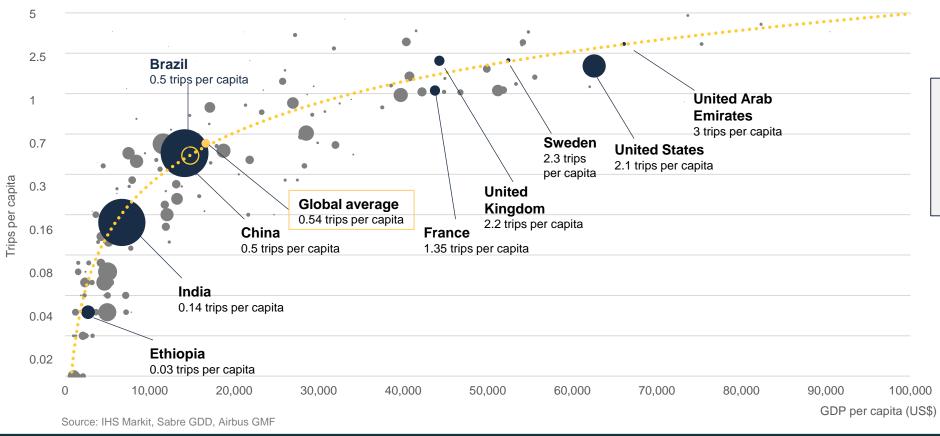
- Increasing flying hours, especially in Asia
- Current fleet needs to fly for many years to come with increasing aftermarket support required
- Over next two decades global fleet set to double

- 1. External projection for markets in which GKN Aerospace operate. GKN Engines defined market; civil aircraft >100 passengers, western fighter engines, space launcher engines and aerospace derivative IGT²
- 2. IGT = Industrial gas turbine



1 Increasing flights, especially in Asia

GDP per capita vs flights per capita

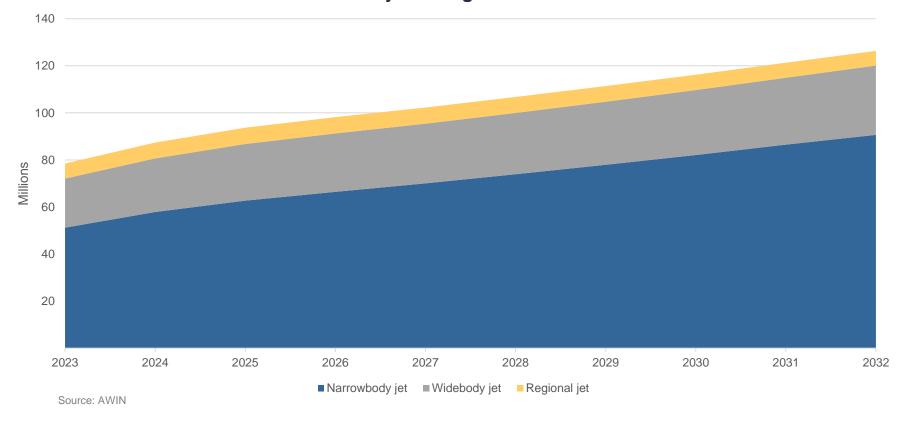


- Economic growth leads to increased flights
- Rapid growth in emerging markets



1 Flight hours growing strongly

Projected flight hours



>75% growth in narrowbody flying hours over next decade, widebody >40%

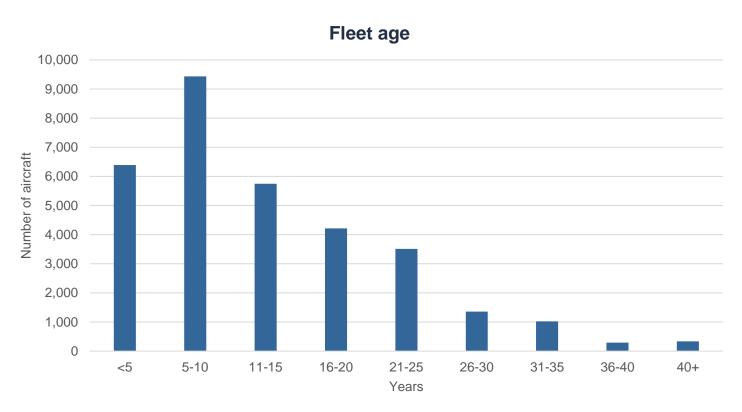
> 2023 – 2032 CAGR 5%

> 2023 – 2032 narrowbody CAGR 7%

~60% increase in flight hours in the coming decade



2 Current fleet to fly for many years to come



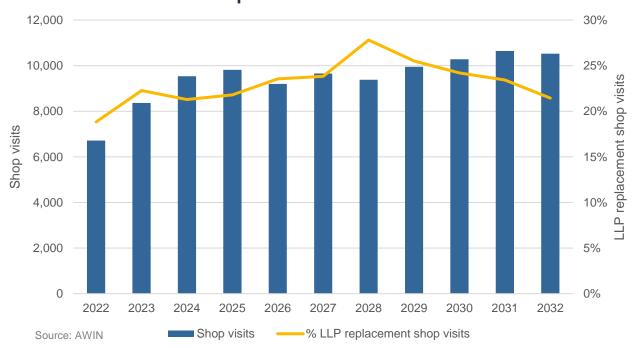
- Aircraft in service are relatively young and have many years flying to come
- Aircraft flying for longer due to constrained OEM deliveries
- > Resulting in more aftermarket

Source: AWIN



2 Growing fleet aftermarket support

Shop visits & share LLPs¹

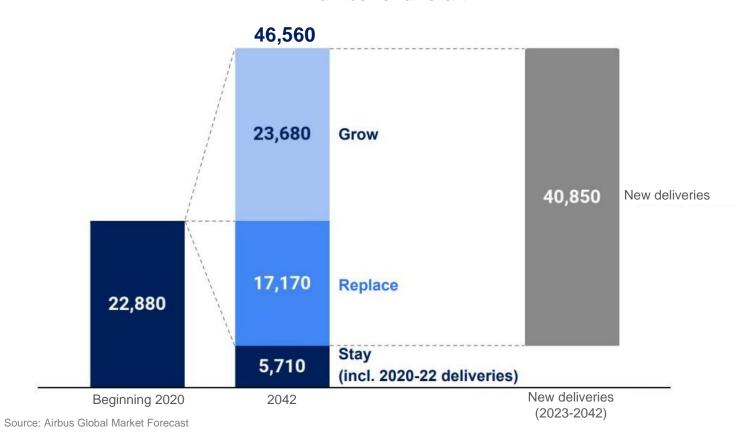


- Significant number of aircraft sold from 2009 to 2019 requiring maintenance now and in future
- Growing aftermarket driven by:
 - increased shop visits and higher percentage of LLP¹ replacements (which necessitate a heavy shop visit)
 - OEM service agreements and spare part price increases



3 Strong demand for continually growing fleet

Number of aircraft



- >40,000 new deliveries expected over next 20 years, mostly with current engine programmes
 - GTF, LEAP, XWB, GEnx
- Significant portion of current fleet need to fly for many years to come
 - V2500, CFM56, CF6, T700

Global fleet set to double in next two decades



Multiple business models provide a balanced portfolio

Sales 55% **Civil RRSP partnerships** Provides entitlement to aftermarket revenue and profit Original equipment + **Aftermarket**









Key customers per business model



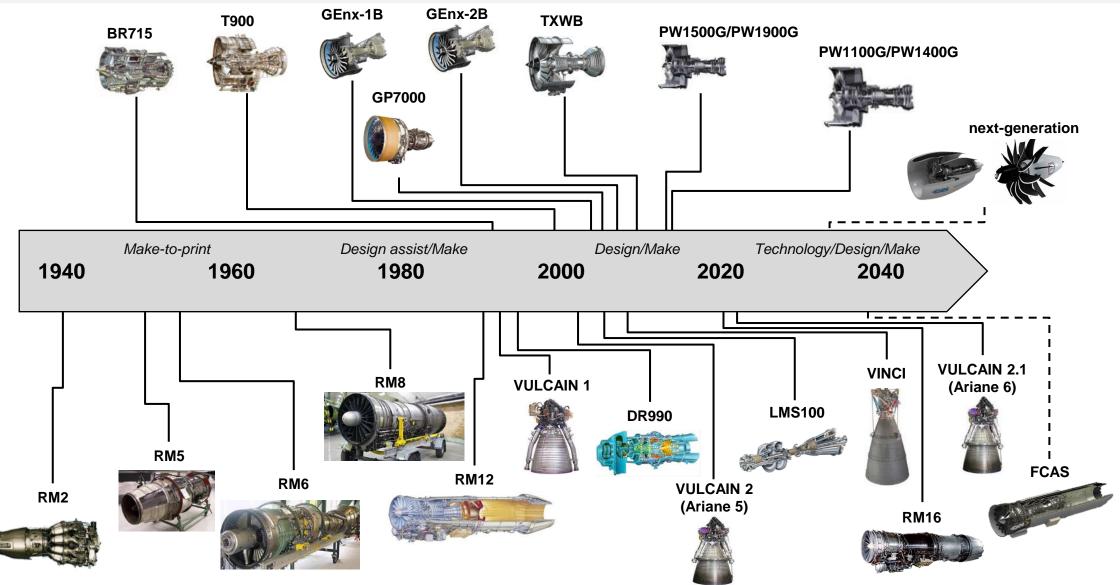






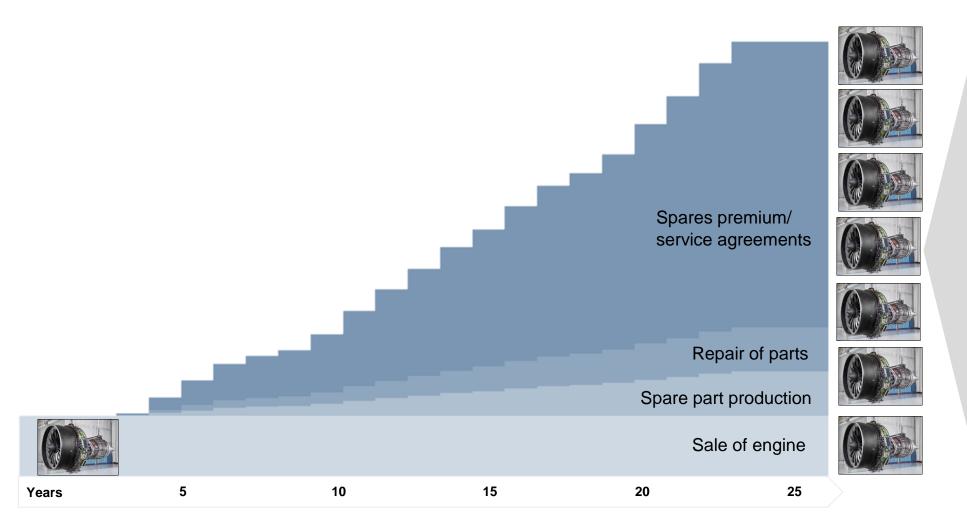


Example of our partnership legacy – life cycle ownership





Partnership entitlement



- Engines typically sold to the customer by the OEM at lower or even breakeven margin
- OEM recoup investment in the aftermarket phase
- Aftermarket service agreements exclusive to OEMs and their partners
- Annual price escalations on aftermarket content are typically 2x the increase in price on new engine sales



RRSPs entering 'sweet spot'

Scheduled shop visit activity for key GKN RRSP engines¹

	Before first shop visit	1 shop visit complete	2+ shop visits complete
CFM56	47%	27%	26%
V2500	30%	35%	35%
GEnx	38%	59%	3%
XWB-84k	67%	33%	-
P&W GTF 24k	95%	5%	-
P&W GTF 30k	90%	10%	-

Significant shop visits ahead

- Aftermarket profits are made through shop visits and flight hour compensation
- Three or more planned shop visits during the life of an engine, with 5-10 years between each visit
- > ~50% of CFM56 and 30% of V2500 have not had first shop visit

Vast majority of GKN engines have high-value shop visits ahead (LLPs²)

- 1. Shop visit data from AeroDynamic Advisory, April 2023
- 2. Life-limited parts



Way of working - business areas

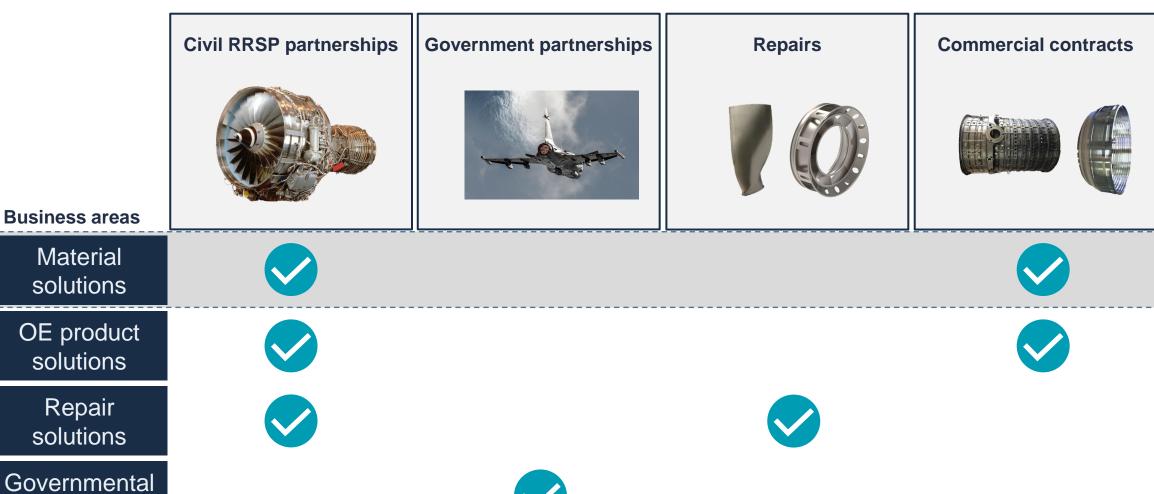




solutions

Engines business overview

Business models





Desired alternatives to large castings and forgings

Conventional

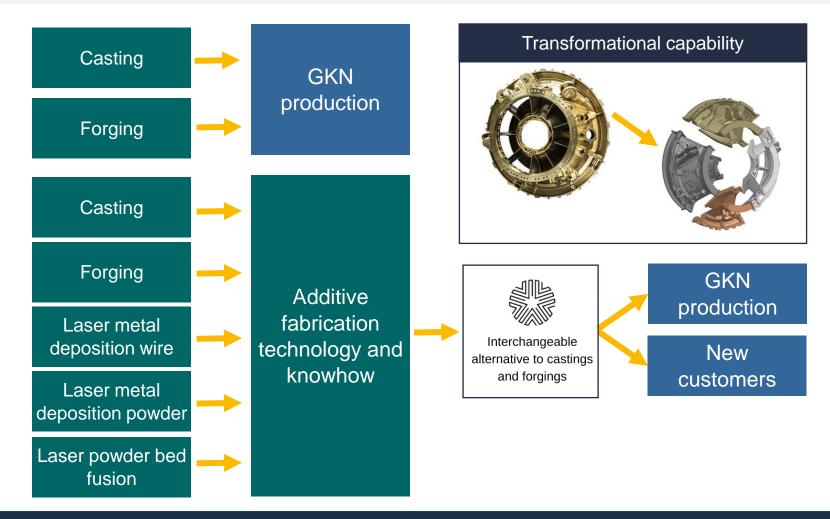
Production starts with large castings and forgings

Additive fabrication

- Multiple smaller parts are combined into a more complex lighter component
- Built on decades of expertise and experience

Benefits of additive fabrication

- Lower cost, improved quality and enhanced design flexibility
- Lower weight and reduced waste; much improved buy-to-fly ratio
- Reduced reliance on supply chain and delivery lead times
- Opportunity to supply to new customers



Game-changing unique additive fabrication capability provides fundamental improvements



20+ years of additive fabrication technology coming to fruition

2000 - 2015

Research phase



- First Laser Metal Deposition (LMD) cell
- Partnership with Permanova
- Extensive research and testing

2005 - 2015

Start of production on simple applications



Multiple complex demonstrators



- > First launch in 2008
- Additive manufacturing of complex features
- > No load-bearing functionality
- > 2 parts in production

- > Extensive test campaigns
- > Extensive material characterisation

2015 - 2023

Start of production on 'load-bearing' structures



- GTF engine mount rings (A220 and E195) enter production (2023)
- Permanova acquisition (2022)
- Introducing LMD on multiple products
- > Significant pull from customers



Engines business overview

Business models









Business areas

Material solutions







OE product solutions





Repair solutions





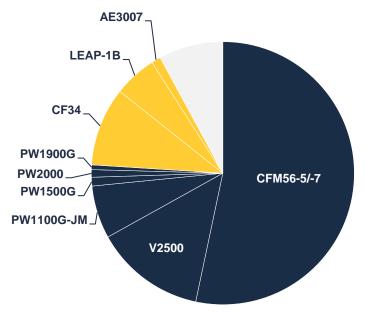
Governmental solutions





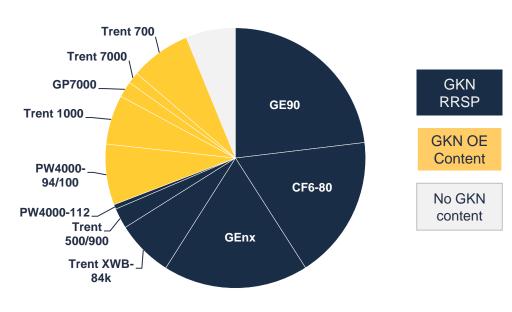
Civil product offerings powering 90% of the fleet

Narrowbody / Regional



GKN RRSP on 75% of global narrowbody/ regional flight hours

Widebody



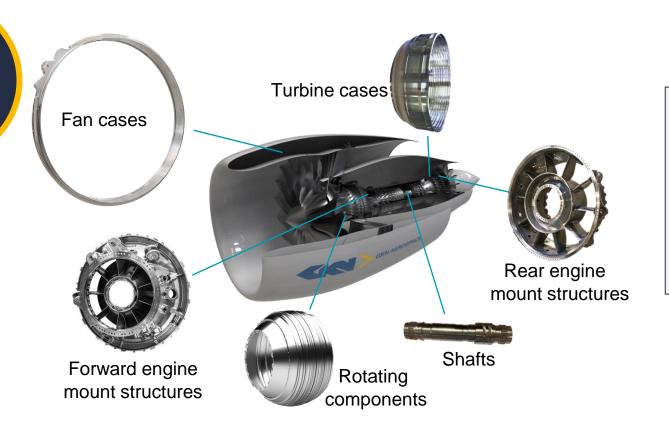
GKN RRSP on 70% of global widebody flight hours

Source: AWIN; based on 2022 global flying hours



Technology driven product specialisation

Parts typically last life of engine



- Customer aligned product offerings
- Focus on design/make with unique manufacturing IP
- > Both civil & military product offerings
- Mainly structural parts designed to last the life of the engine



OE product centres





Engines business overview

Business models









Material

Business areas

Material solutions





OE product solutions







Repair solutions



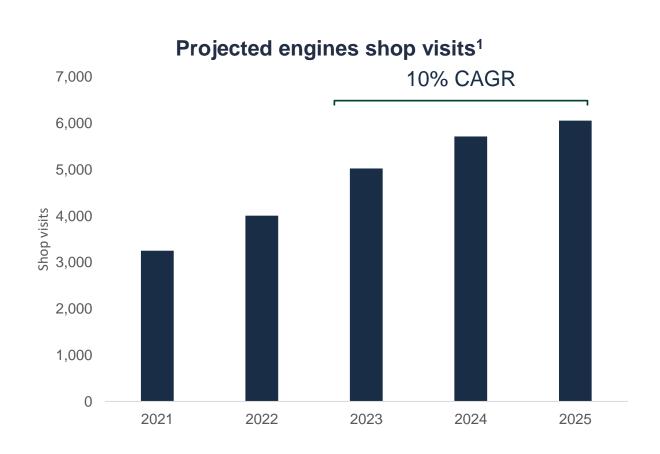


Governmental solutions





Outstanding growth opportunity in parts repair



Highlights

- Shop visits are growing rapidly, driven by flight hour recovery
- OEMs keen to develop cost effective repair capability (versus replacement) as they are responsible for maintenance guarantees
- Flight-critical nature of GKN products creates high barriers to entry and long lead time for new capacity to reach the market (3+ years)
- GKN's unique position is built on investment in global repair capacity and certification, and strong OEM relationships
- GKN's advanced technology capabilities seen as problem-solving solutions for hard-to-repair parts

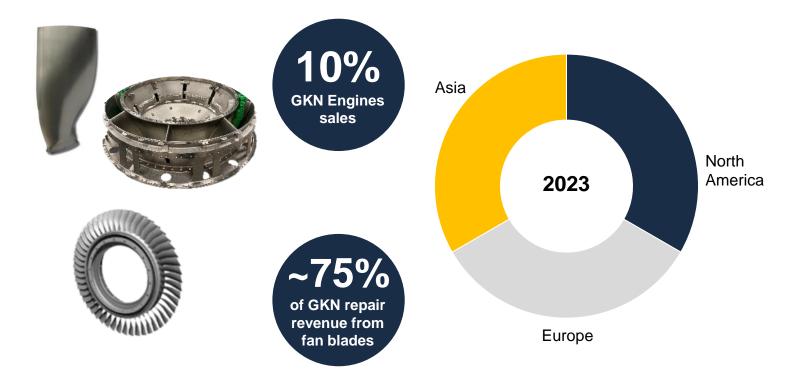
GKN repair business expected to double sales from 2023 to 2025



A certified global repair capability today

GKN Aerospace repair portfolio

GKN Aerospace repair sales¹



GKN Aerospace unique capability

- > 80+ years in repair business
- > 3 sites globally (one new since 2022)
- Certifications from EASA², FAA², CAAC², and key OEMs (2+ years to achieve per site)
- Established worldwide customer base of over 500 customers
- £65 million capex investment in repair business under Melrose ownership

Certification, scale and customer relationships are substantial barriers to entry

- 1. Sales by end market region
- 2. EASA = European Union Aviation Safety Agency. FAA = Federal Aviation Administration. CAAC = Civil Aviation Administration of China



Expanding repair capacity, capability and portfolio

Footprint expansion

Expanded Sweden 2021 10,000 m²



Moving to new site US 2024 15,000 m²



New site Malaysia 2022 10,000 m²



Portfolio expansion

Parts Market share

Fan blades ~40%

Fan disks <10%

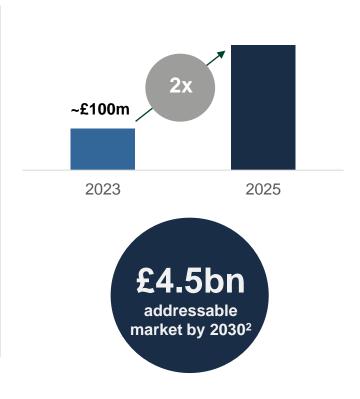
Cases and Structures <10%

Composite parts <10%

Blisks/IBR¹ Starting 2023

Leveraging manufacturing technology

Revenue growth



Doubling sales from 2023 to 2025 - more upside beyond

^{1.} Integrally bladed rotors

^{2.} Projected market by 2030. Source: AeroDynamic Advisory Market Research



Engines business overview

Business models







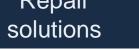


Business areas

Material solutions

OE product solutions

Repair















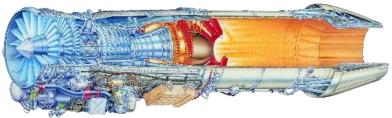






90-year strategic relationship with the Swedish Air Force





'OEM-level' scope of responsibility

- > Research and technology leadership
- > Demonstrators
- > Design / Product developments
- Systems engineering
- > Production
- Engine testing
- > Upgrades
- > Product support / Aftermarket / Life tracking system

Business growing from £100 million to £140 million by 2025

- National interests require competent domestic capability and capacity
- Upfront funded, long-term and stable business (over time and cycles)
- Capability investments funded by Government



Potential for additional combat air support



- Swedish authorities are working on a potential combat air support package including information and training on the Gripen C/D system
- In October 2023, as part of a wider range of Swedish military support for Ukraine, the Swedish government presented an assignment to the Swedish Armed Forces to analyse and report on the conditions for providing a transfer of Gripen aircraft to Ukraine
- Supply of aircraft is conditional on Sweden obtaining NATO membership
- GKN Engines continues to operate under the existing contractual relationship and is currently supporting the authorities by answering any queries they have

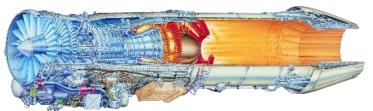


Full engine capability















Truly diverse technology-driven, class-leading business

Material solutions

OE product solutions

Repair solutions

Governmental solutions

1)OEM-level capability

Our full engine understanding and capabilities gives us a competitive edge from design for manufacturing to improving performance of our customers' engines

RRSPs portfolio with all major engine OEMs

Long-term partnerships with all major engine OEMs gives GKN Engines unmatched abilities to introduce our key technologies and grow our business with the right customer for the right product & programme

Proprietary GKN breakthrough technologies

Decades of research & development, skilled people and fabrication expertise has placed GKN Engines in pole position to meet industry challenges, based on our proprietary material solutions