



WHO WE ARE

SKILLED TEAM MEMBERS



 Provide engineered products and solutions for fixed and rotary wing platforms

WE SOLVE PROBLEMS



 Proven track record of introducing new, customized solutions to meet end-user objectives and needs

INDUSTRY LEADER



 Pioneered mission-critical and life-saving solutions for the MEDEVAC, CASEVAC and HEMS community

TOTAL CUSTOMER FOCUS



• Broad range of global commercial and military end-users

PRODUCT LINES









STRETCHER SYSTEMS



LAVATORY











PLATFORMS











ARMOR MANUFACTURING

Pinette 7000T Press

- Top of the line press
- Pressures beyond 10,000 PSI
- Process up to 160 square feet of material per cycle (ten cycles/day)
- Vertical integration has resulted in significant material lead time reductions (from months to weeks)
- Enables implementation of AS9100 quality standards for armor material consolidation







ARMOR QUALIFICATION TESTING

Ballistics Range

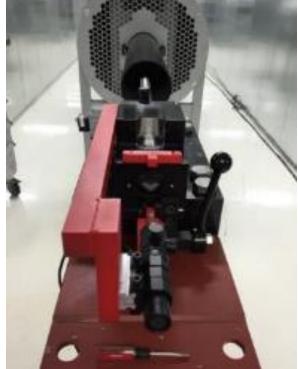
DEDICATED BALLISTIC TEST RANGE

Current ballistic capability:

- 9 mm Luger
- .44 Magnum
- .30-06 Springfield
- 5.45x39 mm
- 5.56x45 mm
- 7.62x39 mm
- 7.62x51 mm
- 7.62x54R mm
- .50 Caliber











ARMOR DEVELOPMENT

DESIGN

LifePort engineers work with end-users to understand their requirements, including threats, configurations and installation constraints.

ENGINEERING

LifePort's Advanced Materials team identifies the ideal solution to meet the customers requirements and timelines and develops a solution in partnership with the end-user.

IN-HOUSE & Outside Ballistic Testing

Testing is completed in LifePort's Ballistic Test Range located on the LifePort campus.

IN-HOUSE MANUFACTURING

After supply chain has sourced the materials from strategic LifePort suppliers, all manufacturing is completed at LifePort with state of art autoclaves, and high pressure presses.

QUALIFICATION

LifePort's team of armor engineers work with the end-user and/or industry experts (i.e NIJ) to qualify the solution to the threat.

CERTIFICATION

LifePort's team of engineers work with the required certification agency (i.e. FAA, EASA, US Army) to certify the final solution and approve for use in the end-users platform.



US Manufactured Armor Acquisition Paths

DCS

FMS

Direct Commercial Sales (DCS) with TAA

- Direct sale of defense articles, services, or technology by U.S. defense contractors to foreign buyers.
- Subject to ITAR regulations and requires U.S. Department of State approval.
- Distinct from FMS (government-to-government sales), DCS involves direct negotiation between contractors and foreign entities.
- Typically used for non-complex systems, upgrades, or services.
- Can procure from Helicopter OEM or directly with Manufacturer of Armor

Potentially Lower Cost

Longer Timeline

Allows for Greater Customization



US Manufactured Armor Acquisition Paths

DCS

FMS

Direct Commercial Sales (DCS) with TAA Cost & Time:

Engineering & Qualification Cost: \$400,000

Timeline for 15 Month DCS Armor Delivery

Engineering: 90 days

Prototype: 30 Days

Qualification: 180 Days

First Article: 90 Days

1st shipset Delivery: 60 days



US Manufactured Armor Acquisition Paths

DCS

FMS

Foreign Military Sales (FMS) Government to Government Agreement

- Government-to-government sale of defense equipment and services, managed by the **U.S. Department of Defense**.
- Subject to U.S. government regulations and oversight to ensure compliance with foreign policy and national security.
- Typically involves larger, complex defense systems or full military capabilities.
- U.S. government facilitates the contract, including pricing, logistics, and delivery.
- Preferred for long-term strategic partnerships with allied nations.

Potentially Higher Cost

Faster Timeline

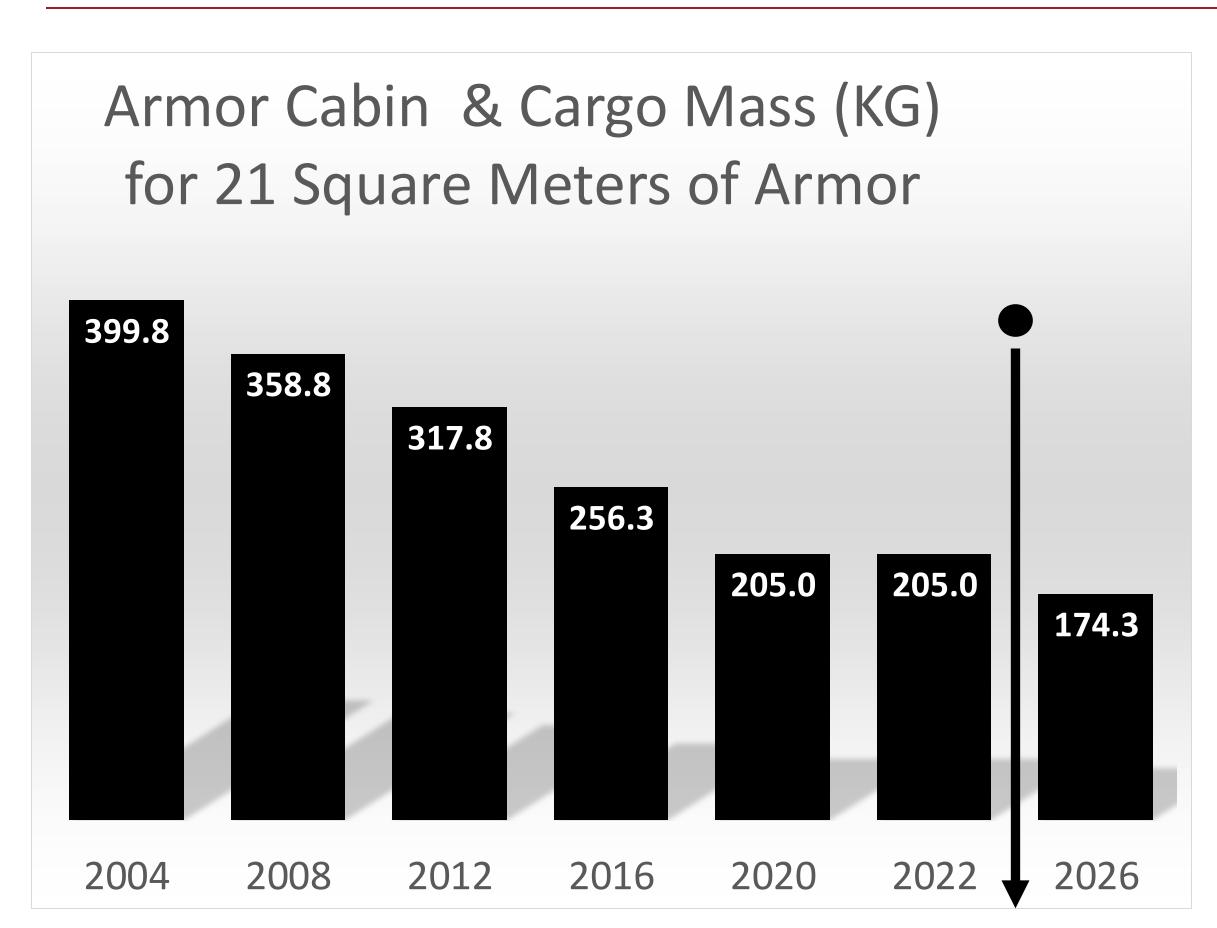


Case Study: Heavy Lift Helicopter

7.62 Ball @ Muzzle Velocity

~15% Reduced weight every 4 years

~1050 KG Steel Armor





Calculate the cost to remove 1KG of weight From your platform

Compare the cost across multiple platform sub sytems

Platform weight savings Calculator:

Input:

- -Procurement Costs (Based on Acquisition Strategy)
- -Platform Technical Information
- -Alterative Weight Saving Program Options



Helicopter Weight Savings and Cost	Analysis									
Component	Purcha	se Cost (€)	Qualifica	tino Cost (€) 🔻	In	ternal Cost (€ 🔻	Total Cost (€	Weight Savings (KG	Cost to lower we	ight by 1 KG (€/K
Armor Upgrade	€	572,582.40	€	400,000.00	€	-	€ 972,582.40	236.09	€	4,119.4
Airframe Upgrade	l€	5,000,000.00	€	7,000,000.00	€	-	€ 12,000,000.00	500	€	24,000.0
Avionics Upgrade	€	500,000.00	€	3,000,000.00	€		€ 3,500,000.00	100	€	35,000.0
Engine Upgrade	€	1,000,000.00	€	7,000,000.00	€		€ 8,000,000.00	200	€	40,000.
Fuel System Upgrade	ē	400,000.00	€	3,000,000.00	_	_	€ 3,400,000.00	75	€	45,333.
Landing Gear Upgrade	ě	200,000.00	€	3,000,000.00			€ 3,200,000.00	50	€	64,000
Total	€	7,672,582.40		23,400,000.00			€ 31,072,582.40	1161.09352	\$	212,452.
rotal	 	7,072,302.10		25,100,000.00			C 31,072,302.10	1101.03552	Ψ	212,132
Helicopter INPUTS			€ 70,000.00)		Cost to R	emove 1 KG f	rom the aircraft	(Euros/KG)	
Maximum Takeoff Weight (KG) (MTOW)		22,680.00								€ 64,000.00
Helicopter Empty weight (KG)		10,185.00								
Fuel Capacity (L)		14,764.00	€ 60,000.00)						
Baseline Fuel Burn rate(L/hr)		1,893.00								
Fuel Burn rate with No payload (L/hr)		1,514.00	€ 50,000.00	,						
Fuel Cost per Liter	€	1.50							€ 45,333.33	
MaxRange (Nautical Miles)		450.00						€ 40,000.00		
Total Payload Capacity (KG)		12,495.00	€ 40,000.00)			€ 35,000.00			
KG of loaded Fuel		11,811.20					€ 35,000.00			
Remaining Payload Capacity after Fuel	1	683.80	€ 30,000.0	,						
Fuel Burn Reduction Rate per Kilogram (FBRR/kg)		0.030332133	€ 30,000.0	'		€ 24,000.00				
Mission Duration and Frequency			€ 20.000.0)						
Average Mission Duration (hours)		7.00								
Average Missions per Week		7.00								
Average missions per Week Average missions per Month		28	€ 10,000.00	.						
Average missions per Year		336		€ 4,119.48						
			6.							
				Arm or Upgrad	le	Airframe Upgrade	Avionics Upgrade	Engine Upgrade	Fuel System Upgrade	Landing Gear Upgrade
OUTPUTS		Weight Savings		Fuel Savings per Hour (€)		l Fuel Savings per Mission (€)	Mission Range Increase Estimate (Nautical Miles)	Percentage Weight Reduction of usable payload (%)	Fuel Savings / Year	
Armo	r s	236.09	€	10.74	€	75.19	11.92	35%	\$	25,264
Airframe		500.00				159.24	25.24	73%	\$	53,505
Avionic	\$	100.00	€	4.55	€	31.85	5.05	15%	\$	10,701
Engine	\$	200.00		9.10		63.70	10.09	29%	\$	21,402
Fuel Systen	1 \$	75.00	€	3.41	€	23.89	3.79	11%	\$	8,025
Landing Gea	rl \$	50.00	€	2.27	I€	15.92	2.52	7%	Ś	5,350

Output:

- 1. Total Weight Saved on your platform
- 2. Cost to remove 1KG of mass from the platform
- 3. Calculate Weight, Fuel, and Payload trade options

THANK YOU!

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