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Aerospace & Defense

Where Creativity, Innovation and Design Take Flight!

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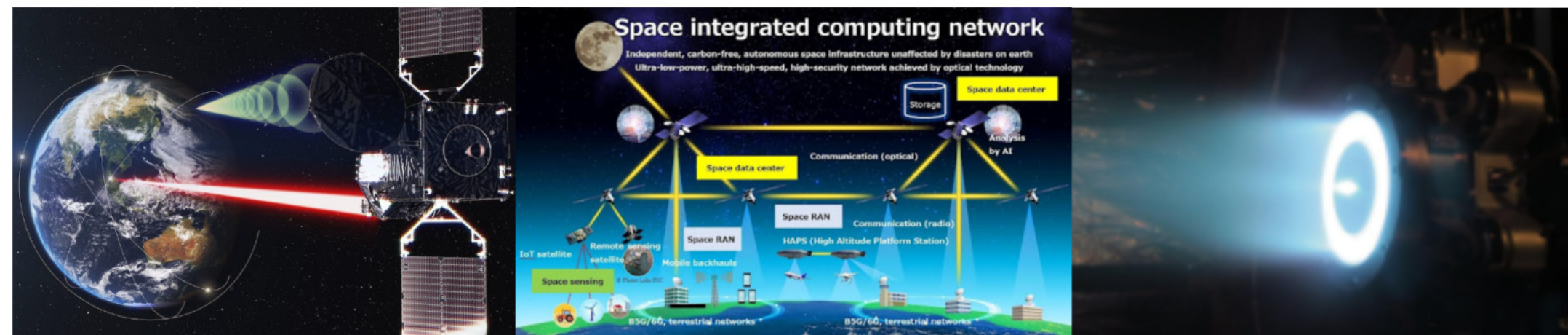


JAD - Overview

JENSEN Aerospace & Defense is an ODM manufacturer of advanced Aerospace and Defense solutions.

We cover everything from original thought to design, engineering, advanced architecture, manufacturing and full scale production.

In addition JAD has access to TNG Cloud Engine technologies including Advanced photonics based AI solutions to help create tomorrow's technologies today.



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JAD was selected by stealth aerospace company as part of a Joint Effort with TNG Sovereign Groups to build the world's first EV powered Helicopter based on TNG MagDrive technologies and advanced aerospace materials.

This EV Helicopter will be the first green helicopter not requiring any fuel. This EV Helicopter can fly indefinitely enhancing any the capabilities of any military unit flying this craft containing 85% less parts than today's helicopters.



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The **VIPER-XDE** is the world's first Dynamic EV Direct Energy Weapon Capable Attack Helicopter power by TNGSG MagDrive technology. This platform carries the 2500lb Light-saber - MASER Direct Energy Weapon Pod. With its 360⁰ x 180⁰ circle of fire can destroy both ground and aerial targets. Accuracy is beyond exceptional, able to hit a cigarette at 30,000ft over 2 miles away.

It carries an array of missiles in its wing pods able to tackle an array of missions and roles. Its range of 2,000 Nautical miles at over 760 knots and 87DB makes it one of the fastest, quietest attack helicopters on the planet.

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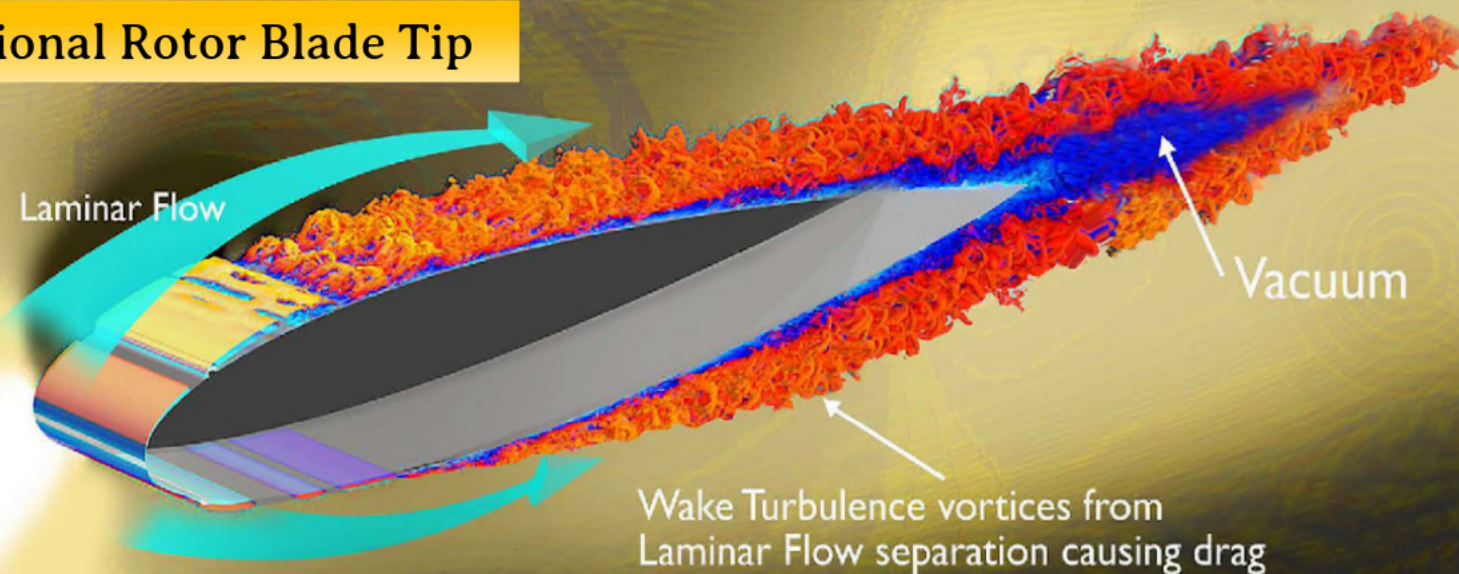
JAD - AIR PRESSURE JET TECHNOLOGY DRIVE SYSTEM

JAD takes our commitment to new approaches, ideas, and technology seriously. We are committed to constantly searching for innovative and more efficient ways to build everything we design. When we started our clean sheet design we had two objectives make the helicopter fully electric, and make it the safest in the world. JAD - Air Pressure Jet Technology makes both possible.

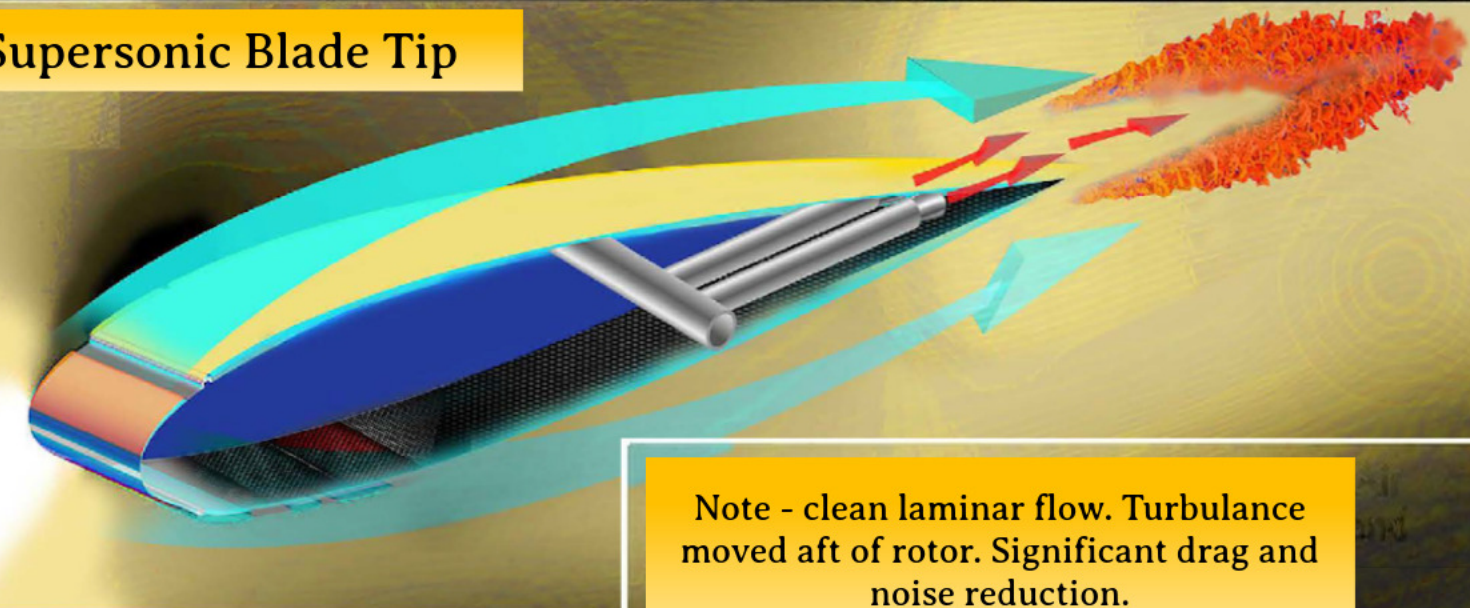
Air Pressure Jet Technology (APJ) is a simple solution to eliminating many of the issues in legacy helicopters. One of the biggest issue is that of torque, the APJ eliminates it completely. As a result of rotating the rotors from the tips, there is no shaft torque and the gyroscopic effect of the rotors is amplified. The APJ system has no rotor drive shaft, the rotors are powered by compressed air that is pumped through the rotor hub and through the Titanium Rods in the blades . The air emerges through the tips at supersonic speed. This has a few benefits, first the air from the tips is released into the vacuum where the blade separated the air as it spins through it, this eliminated the sound by 82%. The air to fill the vacuum is replaced with supersonic air which not only propels the blade forward but also provides cohesion (fluid dynamics) for the Laminar flow to adhere to the rotor and extend three times normal this almost eliminates drag completely.

APJ Technology has enhanced stability of the rotors, eliminated drag, reduced noise, and eliminated torque all while providing an elegant energy efficient way to drive the rotors. To control Yaw the APJ system runs pressurized air to the tail to change direction, with forward movement above 30mph the rudder is used. The system is built with a quadruple redundancy as the electric motors compressors and batteries are separately wired and paired

Traditional Rotor Blade Tip



JAD Supersonic Blade Tip



Air Pressure Jet Technology (APJ) makes the need for a tail rotor obsolete, they cause 47% of all helicopter accidents. The rotors can rotate 25% faster then legacy helicopters, with the added performance faster speeds and higher altitudes are possible. The Electric motors only have one moving part so maintenance virtually eliminated. The APJ Rotors are also heated to eliminate icing on the blades, the leading edge is made of titanium. The APJ drive uses 9% the amount of energy a shaft driven I.C.E. system uses.

* Naturally Stable, (built in gyroscopic stability), Stable in hovering flight due to lack of torque. No Fuselage Vibration.

* Lighter weight, weighs 113rd of similar aircraft in its class.

* Less expensive to produce/own parts replacement.

* Less expensive to maintain and operate- no Fuel cost and 90% less maintenance.

* Improved performance ...can lift twice the payload of a regular aircraft in it's class.

* Faster warm-ups. Faster take off. Electric motors Provide instant power regardless of outside temperature.

* Reduced per-flight check time. APJ eliminates need for Oil and Fuel, and thousands of parts from I.C.E.!

* No centrifugal loads on the hub, No Torque. Regenerative energy capture in hub and Electric Motors.

* Emergency jump capabilities 0-100ft in 2 seconds for Tactical Operations in a straight vertical climb.

* No heat Signature- perfect for stealth mode.

* Not susceptible to EMP attacks- using our Veactor patented tech.

* Less noise... 85% quieter then conventional helicopters.

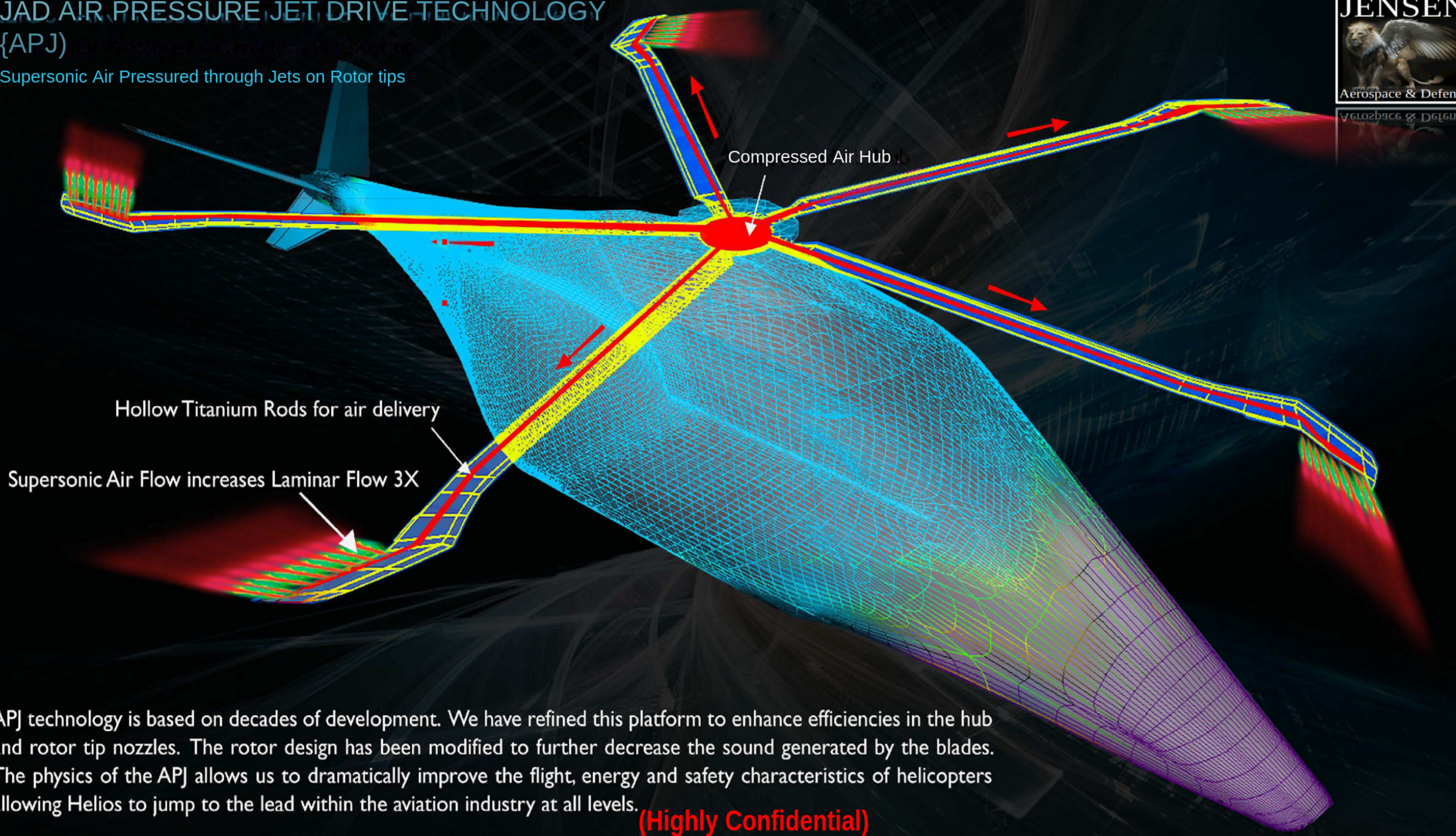
* Increased inertial rotor energy (maintains RPM) in power off descent

* Wider allowable RPM rotor speed and more HP. Helios rotors can rotate up to 450 Revolutions per minute.

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JAD AIR PRESSURE JET DRIVE TECHNOLOGY {APJ}

Supersonic Air Pressured through Jets on Rotor tips



APJ technology is based on decades of development. We have refined this platform to enhance efficiencies in the hub and rotor tip nozzles. The rotor design has been modified to further decrease the sound generated by the blades. The physics of the APJ allows us to dramatically improve the flight, energy and safety characteristics of helicopters allowing Helios to jump to the lead within the aviation industry at all levels.

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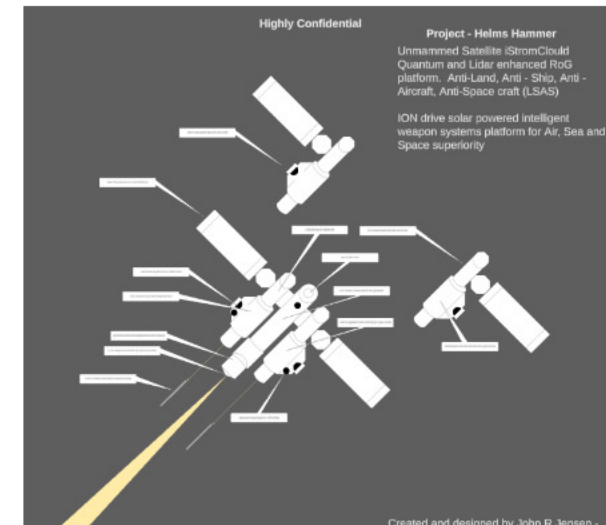


Defense

JAD develops advanced directed energy weapon systems and kinetic systems to overcome any situation our clients may encounter. These range from handheld devices to space based platforms.

We developed the Chaos system for the soldier to adapt and overcome large superior forces. This system is part of the NLS 360 Armor solution set.

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NLS 360 Armor

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Advanced Armor 101

Advanced Materials

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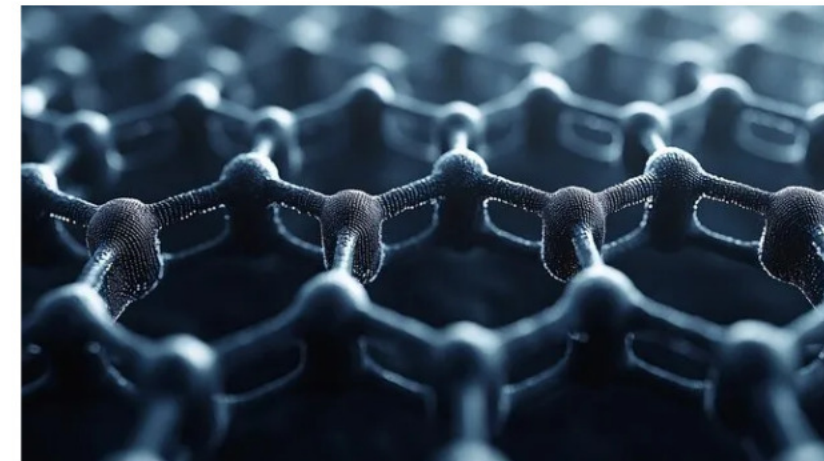
NLS 360 Armor

Carbon Nano-tubes (CNT)

Dr. Zhang (of the Centre for Advanced Materials Technology of the University of Sydney in Australia) has researched the ballistic applications of single-walled carbon nano-tubes.

Testing individual fibers, Zhang and his colleagues confirmed that these nanotubes can repel projectiles that are several times faster and more energetic than conventional bullets. Testing shows carbon nano-tubes totaling about 600 micrometers thick, thinner than a light t-shirt—would repel a shot from a .357 Magnum.

Carbon nano-tubes have round, and hollow, beehive-like structures that are synthetically identified with graphite. The nano-tubes' structure is framed with hexagonal rings of carbon and contains a "cap" toward the finish of every chamber. The length-distance across the proportion of a nanotube is significant, with the length being a great many occasions more prominent than the diameter and a 100X stronger than steel.



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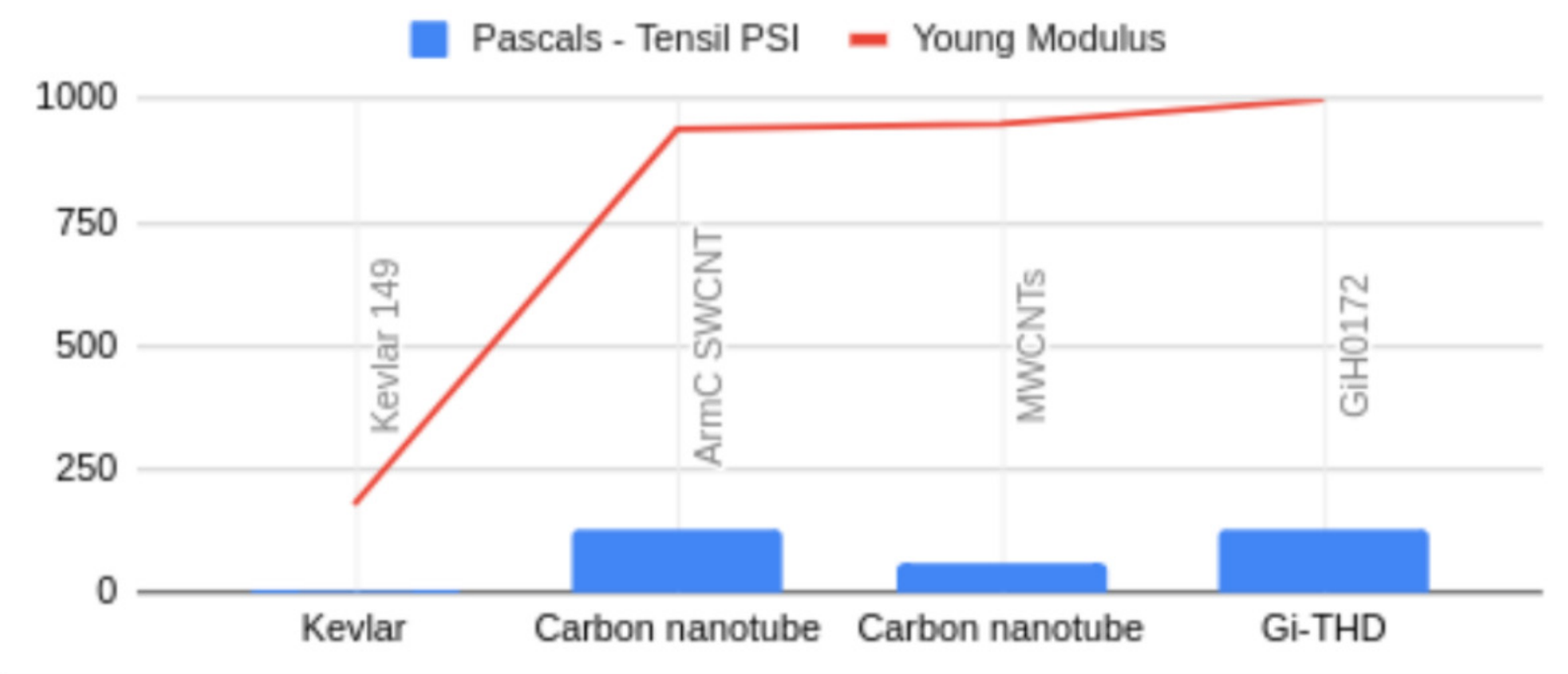


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Gi-THD "Patent Pending"

Note Kevlar is inferior to Carbon nanotube Single and Multi wall, in turn neither set of materials match the capabilities of JAD's Gi-THD Material. In addition; Gi-THD is able to withstand flash temperatures in excess of 3500 degree Fahrenheit. In addition to superior ballistic resistance, it is resistant to energy weapons fire.

Material Name	Material Type	Tensil PSI	Pascal	Modulus	Pascal
Kevlar	Kevlar 149	3.62	Gpa	179	Gpa
Carbon nanotube	ArmC SWCNT	126.2	Gpa	940	Gpa
Carbon nanotube	MWCNTs	63	Gpa	950	Gpa
Gi-THD	GiH0172	130	Gpa	1000	Gpa



HEMP
↓
GRAPHENE
↓
DIAMOND

GRAPHENE
The Material of the Future

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Titanium Armor

Typical Ti-6Al-4V α/β micro-structure seen with consolidated Armstrong powder.



Ballistic Tests of P/M Ti



Ballistic Properties of P/M Ti

Front and back of V50 test plate made by solid state vacuum hot pressing of Armstrong Ti-6Al-4V powder. Ballistic performance of P/M Ti-6Al-4V plate was shown to be equivalent to standard wrought armor plate vs. 30 cal APM2 threat.

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Polymer Armor -UHMWP

UHMWP (*ultra high-molecular-weight polyethylene*) works by use of high modulus fibers with unusually strong tensile strength. Those fibers prevent or create less back-face deformation, which means the bullet's energy is diffused and dispersed much more efficiently by the plate system compared to other rifle plate technologies like ceramic or steel or Kevlar plates.

UHMWP also has a significant advantage when considering its strength to weight ratio. Not only is it strong and can potentially take more hits than ceramic or steel plates, but it's also much lighter.

UHMWP works great for use in body armor because of its reaction to the spinning bullet. When you fire a round, it spins. This spinning—when it hits body armor—causes friction. That friction is essential because it's what causes polyethylene to melt. When polyethylene melts, it grabs the bullet, cools down, hardens back up, and prevents further penetration. This is especially important for back-face deformation, which I wrote in our previous blog, [Back-face Deformation](#). UHMWP works by use of high modulus fibers with unusually strong tensile strength. Those fibers prevent or create less back-face deformation, which means the bullet's energy is diffused and dispersed much more efficiently by the plate system compared to other rifle plate technologies like ceramic or steel.”



NLS 360 Armor

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NLS 360 Armor Summary

Using advanced 3D printing technology, science and expertise in advanced materials JAD combines these advanced materials and our Patent pending Gi-THD into the world's most advanced armor and aerospace materials.

Each layer lends to the other layers to ensure the wearer of this armor is protected from all threats on the battlefield or urban settings. The majority of combat injuries are areas where the soldier is wounded outside of the torso. Typically arm, hand, legs, head and or multiple areas including the groin. Our NLS 360 Armor solution ensures the soldier survives the fight and overcomes the enemy and live to tell the tale to the next generation.

This advanced armor is designed to survive energy weapons, kinetic weapons and sharp edged weapons.

Why would you send your troops into battle with anything less?

Give your soldiers the confidence to engage and overcome the enemy.

NLS 360 Armor, designed for the Next Battlefield of the future!

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NLS 360 Armor Suit



JAD NLS 360 Armor is a complete 360 degree Level 4+ Ballistic Armor built to exceed Level IV criteria. Engineered to eliminate 90% of combat injuries over standard armor. Made of Gi-THD Blend, with our special Titanium alloy, Graphene infused Fiber and Polymer back-plate gives the wearer a bullet resistant and fragment resistance skin. Able to withstand Ballistic, blunt force trauma and knife attacks from any angle of attack.



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NLS 360 Advanced Armor Helmet

Thermal Day/Night Vision
Detection Range 2500M
Laser Range Finder - 800M

Noise Reduction rating (NRR)
of 26. 4 hi-gain
omni-directional microphones
-360 degree detection

Advance Gi-THD Ballistic Armor
Completely Shock proof and
Waterproof.

Complete Integration into the NLS360
Upper Armor Jacket system -
Complete neck protection

Extended RF Antenna - NSA Radio
Encryption - 60 Mile Range

3500 Lumen LED/ 700 Lumen LEP
Tactical light - 6 modes of
operation - AER-05 Remote Switch
- Cast light to 1600 Meters

Advanced 360 degree Heads Up
display - 4 cameras - IFF -
Integrated Targeting Display
with the M7RHS Chaos System

Advance air filtration system
with Bio Filter, compatible with
Hydration system



JAD NLS 360 Helmet is a the world's most advanced tactical ballistic resistant helmet. It provides the user with 360 Degree information on thermal friendly and unfriendly targets. Detections ranges up-to 2500 meters in complete darkness or daylight. Laser range finder to 800 meters. Ability to light up the night with 2800 Lumen of light to a range of 380 meters. Hands-free secure communications with 60 mile range and complete ballistic protection in any weather day or night.



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NLS 360 ARMOR - 2024 List Pricing

*All information and technology within is considered highly confidential and is not to be used or distributed to any countries on the [ITAR list](#).

*All pricing is subject to change and all quotes are valid for 30 days only from submit date.

- NLS 360AAS - Advanced Armor Suit (includes upper jacket and lower protective pants) advanced Kinetic and Energy weapon resistant armor. Level V * currently undergoing certification.
 - Level V
 - \$19,975.00 complete suits only.
 - Custom sizes available
 - Not sold separately

- NLS 360UGCA - 12 layer under garment CNT Armor. Provides gap protection and fire protection from high energy weapons or kinetic energy weapons to ensure the user has multiple layers of protection against such devices.
 - Level 4
 - \$499.00 long sleeve top and pants bottom.
 - Custom sizes available
 - Not sold separately

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NLS 360 ARMOR - 2024 List Pricing

- NLS 360ACB - Advanced Armor combat boots. advanced Kinetic and Energy weapon resistant armor. Provides critical foot protection from explosives, kinetic weapons and/or energy weapons. Level V * currently undergoing certification.
 - Level V
 - \$599.00 per pair
 - Custom size available
- NLS 360ACG - Advanced Combat Glove with nano diamond coating. Protect soldiers hands from small arms fire, energy and kinetic weapons.
 - Level 4+
 - \$299.00
 - Custom size available
- NLS 360AACH - Advanced Armor Combat Helmet with Gen 5 night vision optics, with friend or foe heads up display and weapons targeting display. Advanced movement detection @2500 meters with range and ballistics information slaved to weapons mounted system. *Part of CWS Chaos Weapons System. Helmet is made up of advanced armor plating that is kinetic and energy weapon resistant.
 - Level 5 Advanced Armor
 - \$24,975.00
 - Custom size available.
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NLS 360 Armor

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NLS 360 ARMOR - 2024 List Pricing

- NLS 360CPP - Combat Power Pack, 10k Watt Continuous Power Advanced Armored backpack. For use with NLS360 AACH and Chaos Weapons solutions. Provides a continuous energy source to power up energy weapons and/or defensive mechanisms as part of the NLS 360 armor system.
 - Level 5 Armor
 - \$49,999.00
 - One size, adjustable for all
 - includes hydration pack
 - 900 Cubic Inches of storage.
 - Multiple attachment points.
 - Weigh 26 lbs without additional gear

Armor and associated devices are under testing and certification at this time. Pre orders can be made in advance to ensure your orders are FiFo (first in first out.)



NLS 360 Armor

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