



STAVATTI AEROSPACE BRIEFING



NEW AIRCRAFT



Stavatti Aerospace Ltd is a new aircraft manufacturer focused upon the design, production and support of next generation military and civil aircraft.

SM-150 2 Place Sportplane

SM-27 Machete Close Air Support

SM-28 Machete Close Air Support

SM-31 Stiletto Trainer & Light Fighter









SM-47 Super Machete
Air Defense Fighter

SM-26 Sleek Performance Sportplane

SM-36 Stalma Multi-Role Fighter

SM-39 Razor Air Dominance Fighter









LEADERSHIP TEAM





Chris Beskar President & CEO



Bill McEwen COO



Jeffrey A. Gongoll Secretary



John R. Simon Chief Strategic Development and Asset Officer



Norman Edwards
Director of
Finance



Richard E. Guild Director of Military Aerospace



Wendell Maddox Vice President DoD Marketing



Jeff Peer Director of Flight Testing



Adarsh Deepak
Director of
Aerosciences



Robert C. Sugarman
Director of
Human Factors



Stuart E. Cart Director of Innovation



Dimitriy Giebeler Executive VP



Steve Hargan Senior Strategic Advisor



Wyman Howard Director of Performance



Vlad Boryshpolov Director of Aviation Safety



Deane Joyce Advisor



John Lu VP of Business Asia



Sergiy Tsikhotsky Director Of Stavatti Ukraine

STRATEGIC VISION



Stavatti is now developing a variety of new Aerospace Vehicles including:

Military Aircraft General Aviation Aircraft Commercial Aircraft Spacecraft & Launch Vehicles

Stavatti's Strategic Vision includes the following vehicles and systems:

Military Aircraft	Commercial Aircraft	General Aviation	Spacecraft	
Fighters and AttackTrainersBombersReconnaissance/ISRMilitary Transports	 Narrowbody Airliners Widebody Airliners Regional Airliners High Speed Transport Cargo Transports 	 Light Sport Aircraft Single Engine Land Multi Engine Land Multi Engine Amphibious Business Jets 	SpacelaunchICBM/SLBMInterplanetaryInterstellarSpace Fighters	

Stavatti will Enter the Market with the introduction of the SM-66, SM-150 and SM-26 sportplanes, the SM-31 Stiletto as a Supersonic Trainer and Light Fighter and the Machete series as a Premier CAS solution. Stavatti's new line of aircraft will then include the SM-36 Stalma and SM-39 Razor fighters, followed by transports, a commercial airliner and many other aircraft in the decades to come.

STAVATTI AEROSPACE

SM-150 SPORTPLANE



SM-150 Turbo Axial Piston or Electric 2 Place Sportplane



135 KTAS 575 lb Useful Load 850 nm Range

The SM-150 is a Next Generation two seat Sport Aircraft. Stylish and affordable, this advanced sportplane will introduce a new generation to aviation. Prototype First Flight Anticipated in 2021-2022.



SM-27 Machete Turboprop Attack/Close Air Support



400 KTAS 8,000 lb Warload 870 nm Radius

The SM-27 Machete is a Turboprop Attack and Close Air Support (CAS) aircraft. The Machete will replace A-1s, OV-10s, AT-6Bs and A-10s. Prototype First Flight Anticipated in 2021 followed by Flight Testing & Qualification.



SM-28 Machete Turbofan Attack/Close Air Support



570 KTAS 12,000 lb Warload 670 nm Radius

The SM-28 Machete is a Turbofan Attack and Close Air Support (CA) aircraft. The Machete will replace A-10s, Su-25s, A-7s and A-4s. Prototype First Flight is Anticipated in 2022 followed by Flight Testing & Qualification

SM-31 STILETTO



SM-31 Stiletto Afterburning Turbofan Supersonic Trainer and Light Fighter



1.5+ Mach 7,100 lb Warload 2,300 nm Range

The SM-31 Stiletto is a 5th Generation Supersonic Trainer and Light Fighter to replace F-5, T-38 and MiG-21 aircraft worldwide. Prototype First Flight Anticipated in 2022 followed by Flight Testing & Qualification.

SM-47 SUPER MACHETE



SM-47 Super Machete Afterburning Turbofan Air Defense Fighter



2.0+ Mach 12,000 lb Warload 625 nm Radius

The SM-47 is a single engine Air Defense Fighter, Strike Fighter and Trainer. A super-maneuverable aircraft with Forward Swept Wings, the SM-47 replaces F-16 ADFs, F/A-18A/Bs, Mirage 2000s and JAS 39 Gripens.



SM-36 Stalma Afterburning Turbofan Multi-Role Fighter



Mach 2.6+ 20,000 lb Warload 900 nm Radius

The SM-36 Stalma is a 6th Generation Multi-Role Fighter designed to replace F-35A/Cs, F/A-18E/Fs, Rafales and MiG-29s. Prototype First Flight Anticipated in 2025 followed by Flight Testing & Qualification.

SM-100 TRANSPORT



SM-26 Sleek Turbocharged Piston or Turboprop High Performance Sportplane



330 KTAS 1,150 lb Useful Load 1,100 nm Range

The SM-26 is Stavatti's two seat tandem High Performance Sportplane and Basic Military Trainer. The SM-26 is a 2/3rds Scale Machete inspired Sportplane that will be FAR 23 certified. Prototype First Flight Anticipated in 2022.





SM-39 Razor Twin Afterburning Turbofans Air Dominance Fighter



Mach 4+ 25,000 lb Warload 1,300 nm Radius

The SM-39 Razor is a 6th Generation Air Dominance Fighter designed to replace F-22s, F-15s, F-14s, F-111s, Su-27s and Su-57s. Prototype First Flight Anticipated before 2030 followed by Flight Testing & Qualification.





In May 2016 Stavatti Aerospace Ltd Established a Prototype and Production Center in San Bernardino, CA



Airframe Structures, Landing Gear, Oil Tools & Turbines

1M PLANT



- Stavatti's Proposed 1M Plant will have a footprint of 1 Million sq ft and provide over 2 Million sq ft of combined office and aircraft manufacturing and assembly space.
- The 1M Plant is designed to manufacture 3 or more Stavatti aircraft models simultaneously under one roof and could serve as Headquarters to Stavatti Aerospace.
- The 1M Plant will employ 10,000 or more workers for a minimum of 20 years.







- Stavatti's has begun the site selection process for the 1M Plant and is evaluating more than 20 potential candidate sites at which to establish this facility.
- Ground-Breaking on the iconic 1M Plant is planned for 2022-2025.

ENABLING TECH



Key Enabling Breakthrough and Disruptive Technologies that Stavatti is Developing or Has Licensed For Direct Applications include:

AIRCRAFT

Novel Vehicle Configurations Internal Compression Air Intakes Wave Drag Reducing Configurations Channel Wing STOL Configurations Circulation & Boundary Layer Control Inertial Propulsion

AIRCRAFT SYSTEMS

Power-By-Wire Flight Controls Compact Electromechanical Actuators Piezo-Electric Deicing

AIRFRAME

Novel Structural Configurations Foam Metal Sandwich Structures Nano-Corrosion Control

ARMOR

Foam Metal Sandwich Armor Beskar Steel™ Alloy Armor HMWPIB Reactive Armor Molecular Chromium Plate

AUTONOMY

Active Synthetic Intelligence (ASI)™

BATTERIES & CAPACITANCE

Lithium-Graphene-Silicon Anode Battery

CREW PROTECTION

Standard Armor G-Suite (STAGS) Modular Armored Cockpit (MAC)

COCKPIT & HUMAN FACTORS

Proprietary Ejection Seats
Proprietary Flight and Throttle Grips

COMPUTING

HyperKnowledge[™]
Photonic Processors
EtherForth[™] and GreenArrays[™]

DISPLAYS

Canopy Embedded Display (CED)™ Holographic Multi-Functional Display (HMFD) Full Panel Active Displays

ENERGY & POWER

K-Capture Electron™ Modulated Interference Fusion (MIF)™ Thermo-Alpha Radio-Isotope Fuel Cell Economical Synthesis of Radioisotopes

MANUFACTURING TECHNOLOGIES

Directed Light Fabrication
Explosive Forming and Joining
Laserwelding and Friction Stir Welding
Laserforming of Titanium
Femtosecond Laser Machining

MATERIALS

Non-Carbothermic Titanium Diboride Scandium Aluminum & Titanium Boron, Basalt & Graphene Fiber Composites US5670574 High Temperature Resin Beskar Steel™ High Performance Alloy

POWERPLANTS

Variable Pitch Contra-Rotating Propellers
TB2 Supercharged Diesel Rotary Engine
Variable Cycle Turbojet Powerplants
MagnetoHydrodynamic Energy Bypass (MHEB)
Bladeless Boundary Layer Turbines
Radioisotope Gas Turbines
Hi ISP Plasma Rockets and Ion Engines
Wet Steam Geothermal Power
Integrated MicroGrid Solutions (IMGS)

ROBOTICS

Autonomous Flight Droid

SENSOR & AVIONICS

Micro AESA Sensor Technology Charge Telescope Stavatti Avionics System Architecture (SASA)

SOFTWARE

Stavatti Proprietary CAD/CAM/PLM Solution

STEALTH & LOW OBSERVABILITY

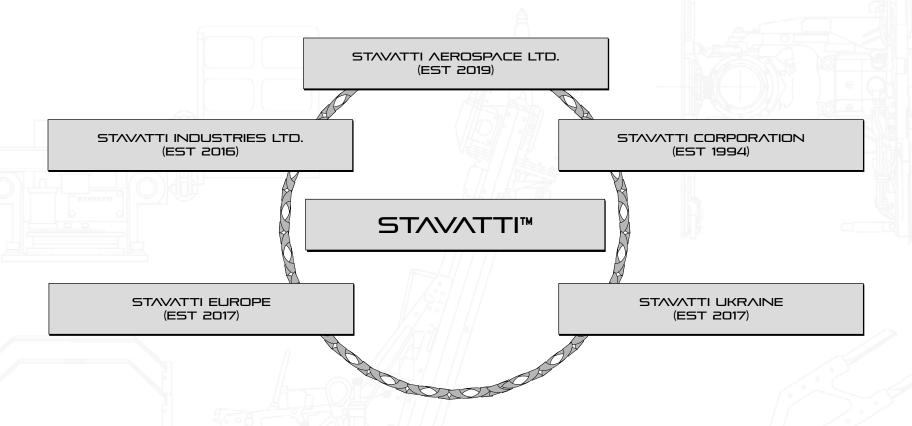
Active Wave Attenuation (AWA) Active Plasma Cavity Stealth (APCS) Ceramic-Metal Radar Absorbent Material Nano-Stealth

WEAPON SYSTEMS

Gas Dynamic Directed Energy Weapons Positron Warhead™ Compact Air-To-Air Missile Next Generation 20mm and 30mm Cannon Systems

STAVATTI COMPANIES

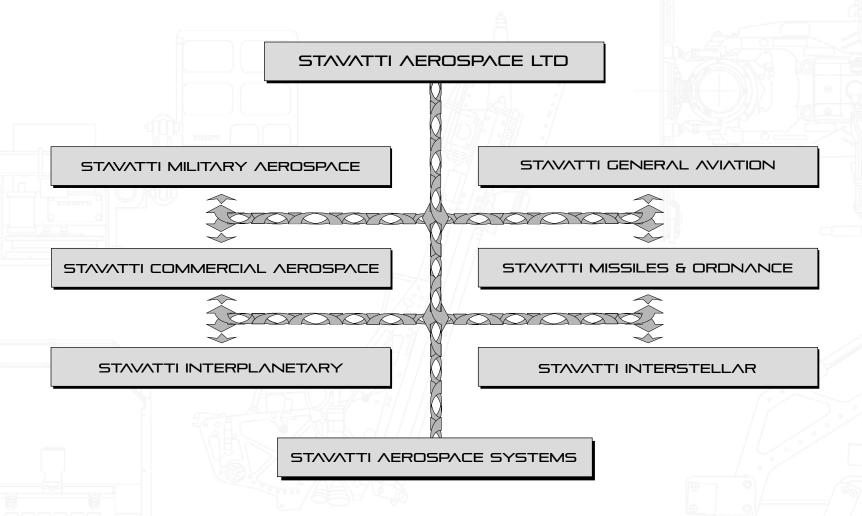




STAVATTI AEROSPACE

AEROSPACE ORG

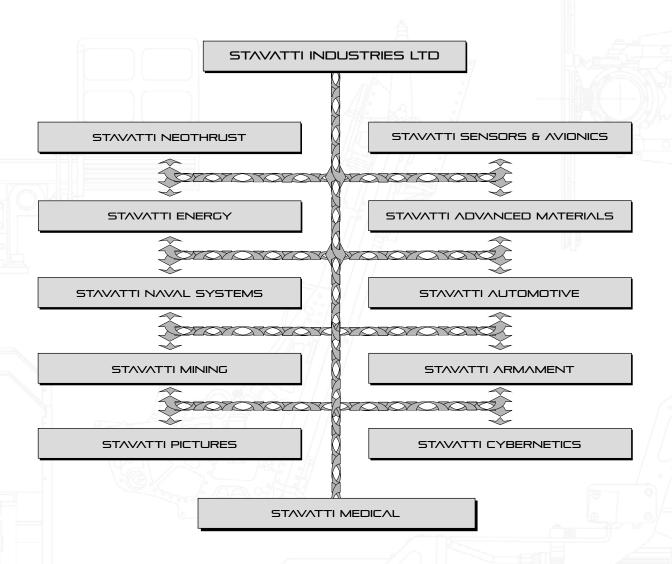




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INDUSTRIES ORG

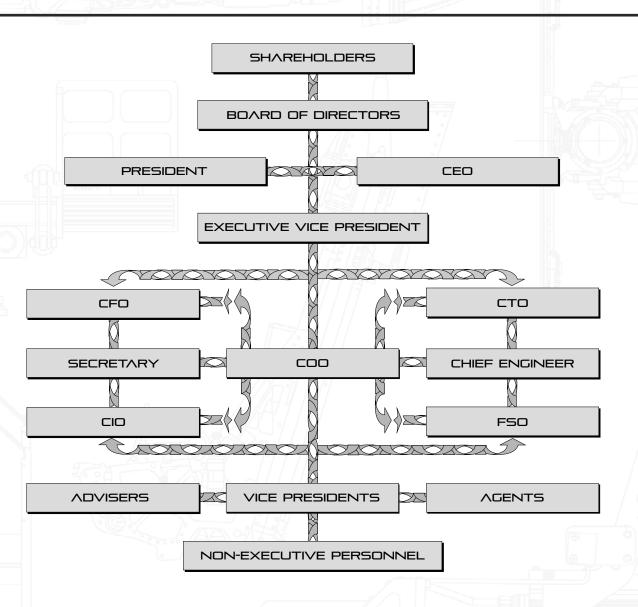




STAVATTI AEROSPACE-







STAVATTI AEROSPACE

CORE VALUES



Stavatti business practices adhere to distinct Core Values including...

- Best-in-Class Products
- Customer Success
- Mission Focus
- Responsibility and Patriotism
- Commercial Best Practices
- Employee Achievement and Success
- Revenue Creation
- Absolute Quality
- Leadership with Strategic Vision
- Individual Ability
- Continuous Learning, Improvement and Innovation

RDT&E FUNDING

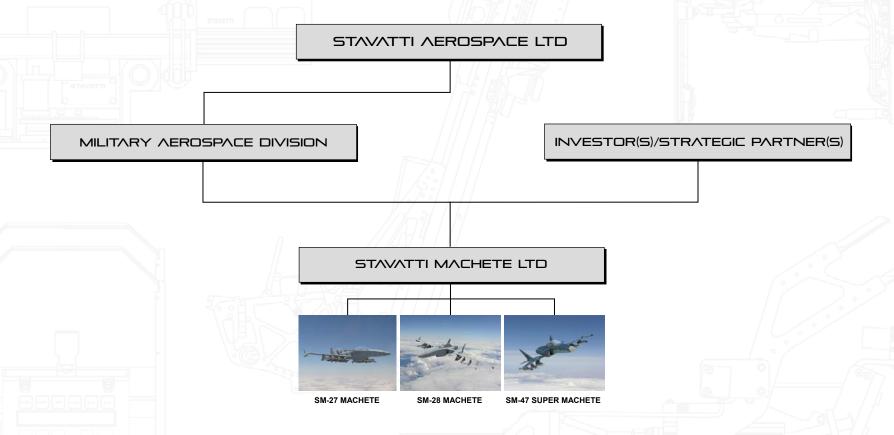


- New Aircraft Development Programs are funded by the internal resources of Stavatti Aerospace and strategic investment partners through equity and debt financing as well as a combination of sources.
- Investors include accredited investors, institutional investors, corporations, industry team members or government entities.
- Investors fund a portion or all of the development costs of a program in exchange for an equity or royalty position in the joint venture company, a direct royalty from the revenues of a specific aircraft product line or a value added interest payment.
- All funding is provided in phases including a risk reducing Demonstration and Validation (Dem/Val) phase, followed by Full Scale Development (FSD) and finally Low Rate Initial Production (LRIP).
- Alternatively, certain programs, in particular special access development programs, are funded entirely by end-user customers under contract, such as the SM-39 Razor which may be funded under a USAF/DoD contract.

PROGRAM STRUCTURE



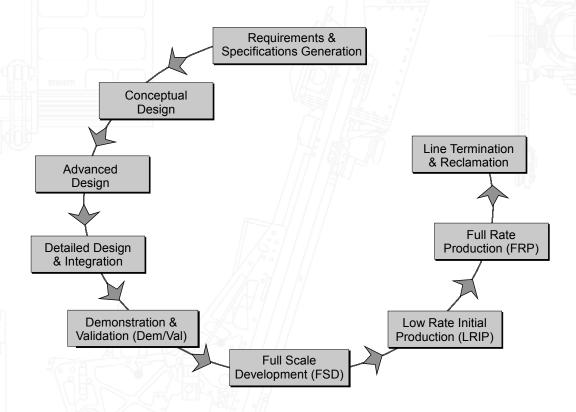
Each Aircraft Program is typically structured as a stand-alone joint venture company owned by Stavatti Aerospace Ltd and Investors and/or Strategic Partners. Joint venture companies are named after their associated program. Programs are managed by an appropriate division of Stavatti Aerospace Ltd. Example aircraft program organizational structures include:



PROGRAM PROCESS



Stavatti aerospace programs follow a streamlined, design, development, production and customer support process unique to the industry...



Implementing this process, Stavatti develops and delivers entirely new, advanced aircraft without sacrificing quality, performance or value.

ENGINEERING



Stavatti conducts all engineering and design in-house using CAD tools including SolidWorks Premium and CATIA





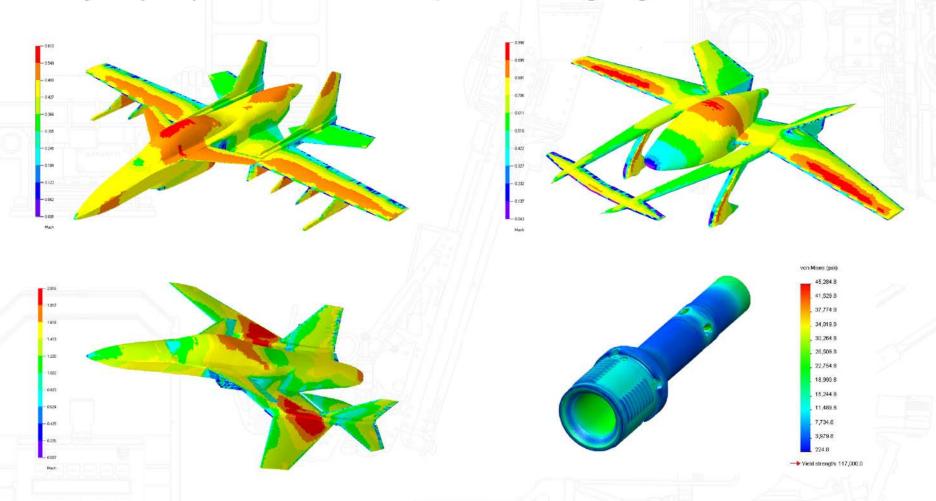


S SOLIDWORKS

CFD & FEA



Stavatti performs Computational Fluid Dynamics (CFD) and Finite Element Analysis (FEA) of all airframes and parts with ongoing simulation 24/7.



STAVATTI AEROSPACE

CERTIFICATION



- Stavatti aircraft will undergo extensive flight and operational testing to achieve Military Qualification and/or FAA Type and Production Certification
- Military aircraft will be flight tested at the Air Force Flight Test Center (AFFTC), Edwards AFB to ensure military qualification.
- Additional US DoD facilities, including China Lake, will be employed throughout the Stavatti weapon system testing effort.



- General Aviation aircraft undergo a complete FAA Type and Production Certification program, such as FAR Part 23, including flight testing at centers in California. Team Members including AESI will provide support.
- Stavatti will utilize Vehicle Systems Simulators (VSS or 'Iron Birds') for lifetime fatigue testing as well as Full Mission Simulators for crew training.

LOGISTICAL SUPPORT



- Stavatti customers will benefit from full Contractor Logistical Support (CLS) of a comprehensive aerospace defense enterprise.
- Stavatti can provide CLS directly or can work with customers to establish organic logistical support.
- Stavatti will provide total procurement packages, including ground support systems, ordnance, spares and delivery.
- Stavatti will provide complete aircrew flight/combat training services as well as maintenance instruction.
- All aircraft will have a 2,000 Hour Noseto-Nozzle Manufacturers Limited Warranty on all new aircraft and 24/7 worldwide customer assistance.



CERTIFICATIONS

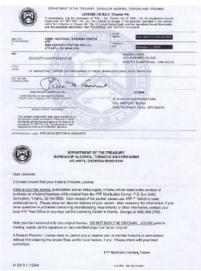


- Stavatti now has the infrastructure to service essential customer aircraft and defense needs now and for decades to come.
- Stavatti has been registered with the State Department-Office of Defense Trade Controls as a manufacturer & exporter of US munitions list items.
- Stavatti sites have been licensed by the ATF and state DOTs. Stavatti is registered with the SAM and has CAGE codes 7C5S4, 1DRG1 and 8GT89.









NAICS CODES



• North American Industry Classification System Codes (NAICS Codes)
Applicable to Stavatti Aerospace Ltd and Stavatti Industries Ltd Include:

33	6411	Aircraft Manufacturing
33	6412	Aircraft Engine and Engine Parts Manufacturing
33	6413	Other Aircraft Parts and Auxiliary Equipment Manufacturing
48	8190	Other Support Activities For Air Transportation
33	6414	Guided Missile and Space Vehicle Manufacturing
33	6415	Missile and Space Vehicle Propulsion Unit Manufacturing
33	6419	Missile and Space Vehicle Auxiliary Equipment Manufacturing
33	6111	Gas Turbines Except Aircraft Manufacturing
33	2995	Aircraft Artillery Manufacturing
33	2993	Ammunition Except Small Arms Manufacturing
33	2994	Small Arms, Ordnance, and Ordnance Accessories Manufacturing
33	3132	Oil and Gas Field Machinery and Equipment Manufacturing
33	3131	Mining Machinery and Equipment Manufacturing
33	2710	Machine Shop
33	3249	Other Industrial Machinery Manufacturing
33	2117	Powder Metallurgy Part Manufacturing
54	1618	Other Management Consulting Services

CONTACT



Contact Stavatti today at:

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