

STAVATTI™



STAVATTI AEROSPACE BRIEFING



STAVATTI AEROSPACE

This Presentation does not constitute an offer to sell or the solicitation of an offer to sell Significant Military Equipment or Export Controlled Military 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-100
STOL Intermodal Transport*



*SM-36 Stalma
Multi-Role Fighter*



*SM-39 Razor
Air Dominance Fighter*



LEADERSHIP TEAM

STAVATTI™



Chris Beskar
Chairman,
President & CEO



Bill McEwen
COO
& Director



Charles W. Moore Jr.
Director



John R. Simon
CEO Stavatti Niagara
CSD & A & Director



Richard E Guild
Director of
Military Aerospace



Jeffrey A. Gongoll
Secretary
& Director



Norm Edwards
CFO & Director
of Finance



Robert C. Sugarman
Chief Scientist
& Director of HF



Wendell Maddox
Senior
Vice President



David Wilcock
Director of
Advanced Technology



Michael J. Green
Director of
Next Gen Aerospace



Stuart E. Cart
Director of
Innovation



Jeff Peer
Previsionary Director
of Flight Testing



Dimitriy Giebeler
Executive
Vice President



Steve Hargan
Senior Strategic
Advisor



Carl Hunking
COO
Stavatti Industries



Wyman Howard
Director of Performance
Leader Development



John Lu
VP of Business
Development Asia



King R. Lee III
Executive
Advisor



Sergiy Tsikhotsky
Director of
Stavatti Ukraine



Vlad Boryshpolov
Director of
Aviation Safety

STAVATTI AEROSPACE

- Stavatti Aerospace Ltd (“Stavatti”) was founded in April 2014 in Eagan, Minnesota
- Stavatti was reorganized as a Wyoming C corporation in December 2019
- Stavatti acquired the former USARC facility (SNAPPER) at the Niagara Falls International Airport (KIAG) on 30 October 2020. Totalling 173,358 sq ft on 19.8 acres this facility now serves as Stavatti Headquarters and Prototype Development Center.



SM-27 MACHETE

STAVATTI™

The SM-27 Machete is a Next Generation Turboprop Attack and Close Air Support (CAS) aircraft. Heavily armored and with a 30mm cannon, the Machete series will provide a dedicated Close Air Support (CAS) aircraft, replacing A-1s, OV-10s, AT-6Bs, Super Tucanos and A-10s. Satisfying the need for a future Close Air Support Aircraft, the SM-27 will have a maximum level speed of 400 KTAS, a tactical radius of over 870 nm and an external warload of over 8,000 lbs.

SM-27 Machete
Turboprop
Attack/Close Air Support



400 KTAS
8,000 lb Warload
870 nm Radius

\$20 Million Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$2,563

STAVATTI AEROSPACE

SM-27 MACHETE

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SM-27 MACHETE SPECIFICATIONS

Aircraft: SM-27S/T Machete
Unit Flyaway Cost: \$20,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Single (S) or Two Seat (T)
Seating MK16 or MK18 Ejection Seats

Powerplant

Number 1
Type Turboprop
Model PW150 Derivative
Manufacturer P&W Canada
Max SHP 4,000
Prop Type Countra-Rotating
Prop Diameter 120 in
Number of Blades 8/6

Dimensions

Max Wingspan 53 ft 0 in
Max Length 38 ft 6 in
Max Height 12 ft 11 in
Wing Area 354
Wing Aspect Ratio 8.4
Wing LE Sweep 4.25°

Weights

Empty 15,000 lbs
Max Internal Fuel (JP-8) 5,000 lbs
Max External Warload 8,000 lbs
Typical Combat (TCW) 25,300 lbs
Max Take-Off (MTOW) 30,000 lbs

Loadings

Wing Loading-TCW 71.4 lbs/sq ft
Wing Loading-MTOW 84.2 lbs/sq ft
Power Loading-TCW 6.3 lbs/shp
Power Loading-MTOW 7.5 lbs/shp
Design Load Factor-TCW +8.8/-4.4
Design Load Factor-MTOW +7.5/-3.7

Armament

Fixed Internal 1 x 30mm GAU-8/A
Ammunition 1,000 rds
External Hardpoints 8
Max External Warload 8,000 lbs

Avionics & Electronic Warfare

Radar (opt) Vixen 500E or RACR
EO/IR (opt) MX-10D or MX-15D
HUD CED, HMD or LiteHUD
Comm AN/ARC-210 Gen V
IFF AN/APX-125
Data Link TACR-16DL
GPS/INS FALCN
TACAN AN/ARN-153(V)
RF ECM (opt) AN/ALQ-211A(V)4
MAWS (opt) AN/AAR-58
SPJ (opt) AN/ALQ-214(V)4/5
Chaff/Flare 14 x AN/ALE-47

Performance

Max Level Speed @ SL 351 Ktas
Max Level Speed @ FL200 401 Ktas
Typical Cruise Speed @ SL 270 Ktas
Typical Cruise Speed @ FL350 300 Ktas
Typical Cruise Speed @ FL400 300 Ktas
Takeoff Speed; MTOW 118 Ktas
Stall Speed; MTOW 108 Ktas
Approach Speed; TLW 84 Ktas
Stall Speed; TLW 76 Ktas
Max Climb Rate @ SL 4,275 ft/min
Service Ceiling 45,000 ft
Max Speed Range, IF 2,089 nm
Max Speed Radius, IF 1,034 nm
Typical Cruise Range, IF 2,534 nm
Typical Cruise Radius, IF 1,214 nm
Typical Cruise Ferry Range 3,803 nm
Takeoff Ground Roll, TTW 1,995 ft
Landing Ground Roll, TLW 480 ft

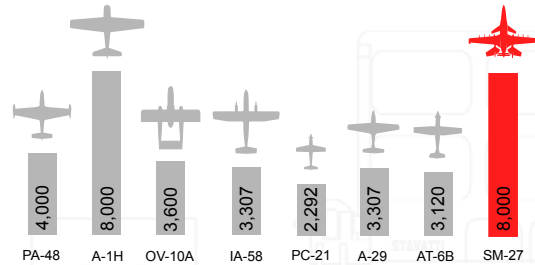


STAVATTI AEROSPACE

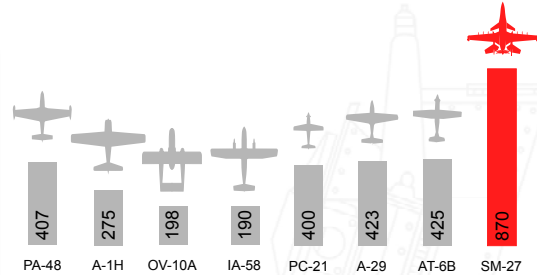
SM-27 COMPARISON

STAVATTI™

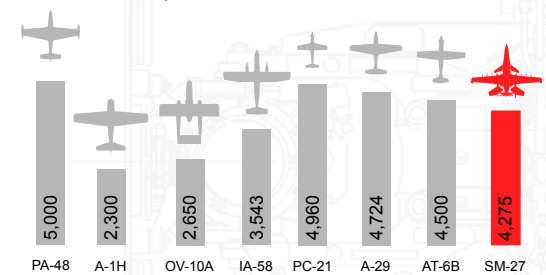
Maximum Warload (lbs)
With Maximum Internal Fuel



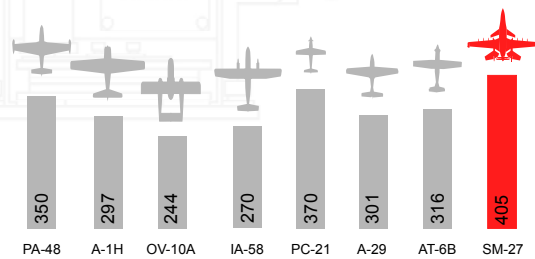
Tactical Radius (nm)
With Maximum Internal Fuel



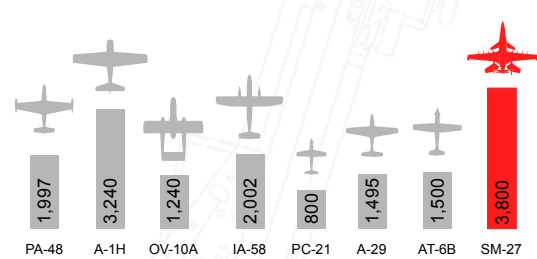
Maximum Climb Rate (ft/min)
At Sea Level, Standard Day



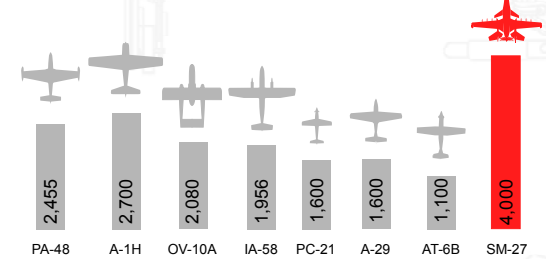
Maximum Level Speed (KTAS)
Aircraft in Clean Configuration



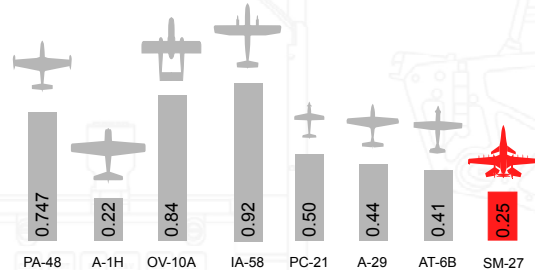
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



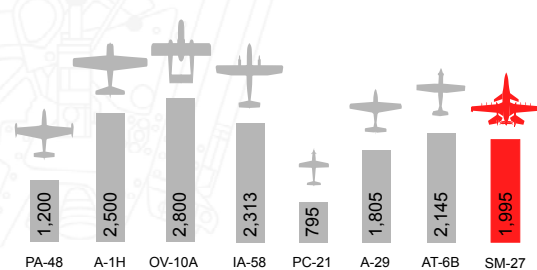
Maximum Power (SHP)
Maximum Sea Level Power



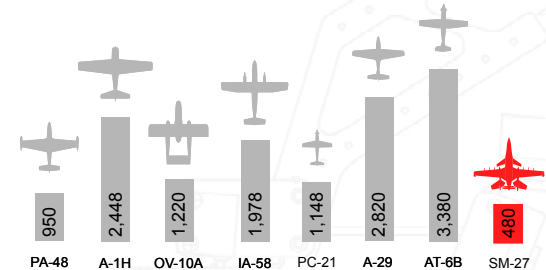
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Landing Distance (ft)
Over 50 ft Obstacle or as Published

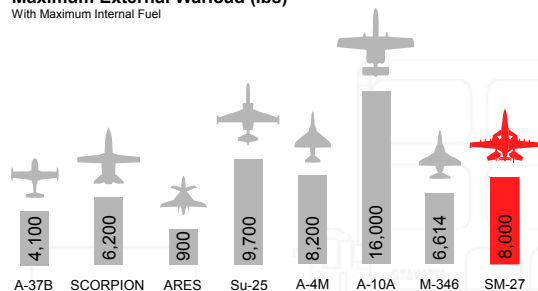


STAVATTI AEROSPACE

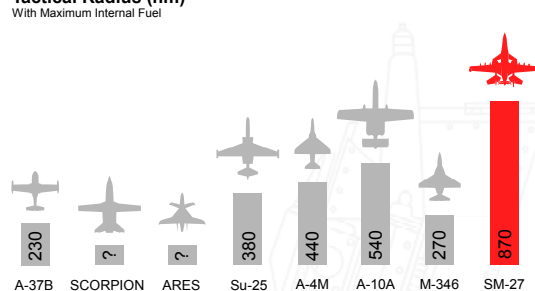
SM-27 COMPARISON

STAVATTI™

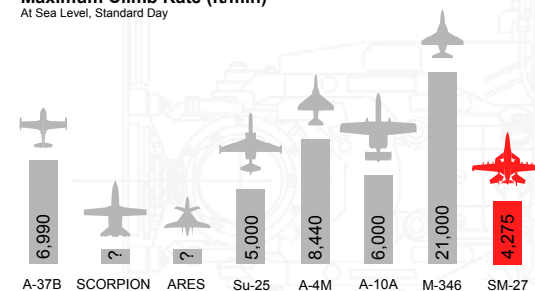
Maximum External Warload (lbs)
With Maximum Internal Fuel



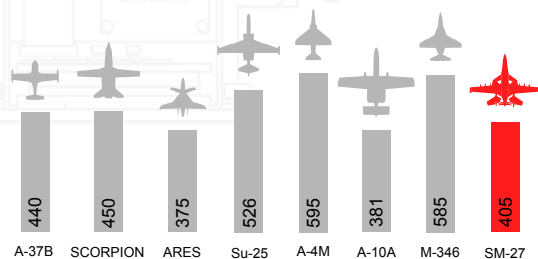
Tactical Radius (nm)
With Maximum Internal Fuel



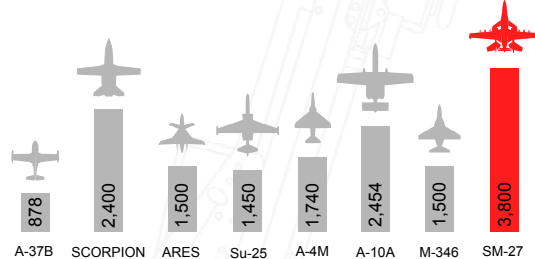
Maximum Climb Rate (ft/min)
At Sea Level, Standard Day



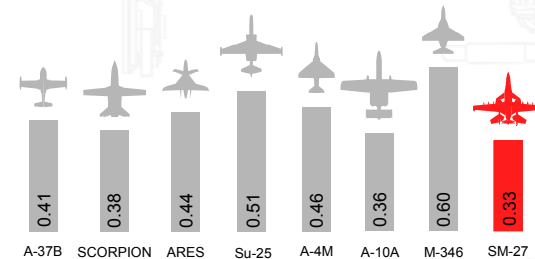
Maximum Level Speed (KTAS)
Aircraft in Clean Configuration



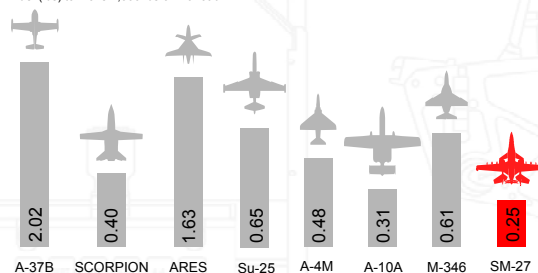
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



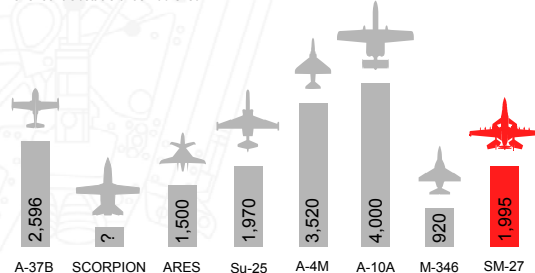
Thrust-to-Weight (t/w)
Maximum Sea Level Thrust/MTOW



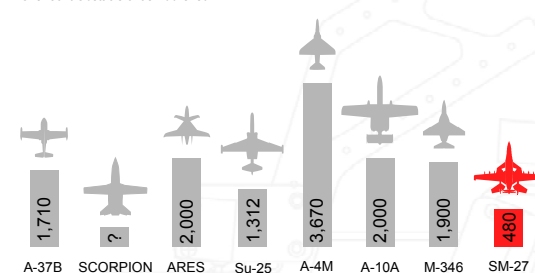
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Landing Distance (ft)
Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-28 MACHETE

STAVATTI™

The SM-28 is a single engine non-afterburning turbofan powered Close Air Support and Lead-In Trainer. Armed with a 30mm cannon and able to carry 12,000 lbs of stores, the SM-28 has a maximum speed of over 0.90 Mach and a tactical radius of over 700 nm on internal fuel. Heavily armored, the SM-28 can replace A-10 and all other subsonic CAS aircraft with greater effectiveness, efficiency and survivability.

SM-28 Machete
Turbofan
Attack/Close Air Support



0.85+ Mach
12,000 lb Warload
700 nm Radius

\$25 Million Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$3,385

STAVATTI AEROSPACE

SM-28 MACHETE

STAVATTI™

SM-28 MACHETE SPECIFICATIONS

Aircraft: SM-27S/T Machete
Unit Flyaway Cost: \$25,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Single (S) or Two Seat (T)
Seating MK16 or MK18 Ejection Seats

Powerplant

Number 1
Type Non-Afterburning Turbofan
Model F414 Derivative
Manufacturer GEAE
Max Thrust (lbs) 14,756
Air Inlets Bifurcated Pitot Shock
Nozzle Fixed With Chevrons

Dimensions

Max Wingspan 53 ft 0 in
Max Length 38 ft 6 in
Max Height 12 ft 11 in
Wing Area 354
Wing Aspect Ratio 8.4
Wing LE Sweep 4.25°

Weights

Empty 16,000 lbs
Max Internal Fuel (JP-8) 6,000 lbs
Max External Warload 12,000 lbs
Clean Takeoff (TPW) 24,860 lbs
Typical Combat (TCW) 26,800 lbs
Max Take-Off (MTOW) 36,000 lbs

Loadings

Wing Loading-TCW 75.7 lbs/sq ft
Wing Loading-MTOW 101.7 lbs/sq ft
Thrust-to-Weight-TCW 0.55 to 1
Thrust-to-Weight-MTOW 0.41 to 1
Design Load Factor-TCW +10.0/-5.0
Design Load Factor-MTOW +7.5/-3.7

Armament

Fixed Internal 1 x 30mm GAU-8/A
Ammunition 1,000 rds
External Hardpoints 8
Max External Warload 8,000 lbs

Avionics & Electronic Warfare

Radar (opt) Vixen 500E or RACR
EO/IR (opt) MX-10D or MX-15D
HUD CED, HMD or LiteHUD
Comm AN/ARC-210 Gen V
IFF AN/APX-125
Data Link TACR-16DL
GPS/INS FALCN
TACAN AN/ARN-153(V)
RF ECM (opt) AN/ALQ-211A(V)4
MAWS (opt) AN/AAR-58
SPJ (opt) AN/ALQ-214(V)4/5
Chaff/Flare 14 x AN/ALE-47

Performance

Max Level Speed @ SL 0.90 Mach
Max Level Speed @ FL350 0.90 Mach
Typical Cruise Speed @ SL 0.80 Mach
Typical Cruise Speed @ FL100 0.80 Mach
Typical Cruise Speed @ FL350 0.80 Mach
Takeoff Speed; MTOW 130 Ktas
Stall Speed; MTOW 118 Ktas
Approach Speed; TLW 95 Ktas
Stall Speed; TLW 79 Ktas
Max Climb Rate @ SL 17,000 ft/min
Service Ceiling 55,000 ft
Max Speed Range, IF 1,067 nm
Max Speed Radius, IF 518 nm
0.85 Mach Range, IF 1,394 nm
0.85 Mach Radius, IF 677 nm
0.85 Mach Ferry Range 3,830 nm
Takeoff Ground Roll, TTW 1,765 ft
Landing Ground Roll, TLW 2,063 ft

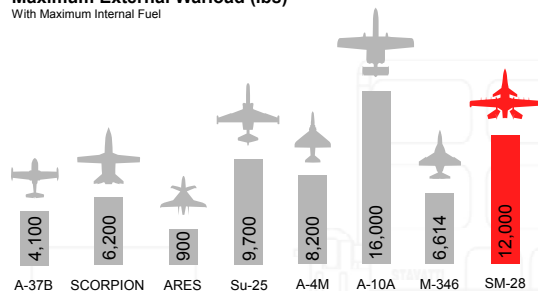


STAVATTI AEROSPACE

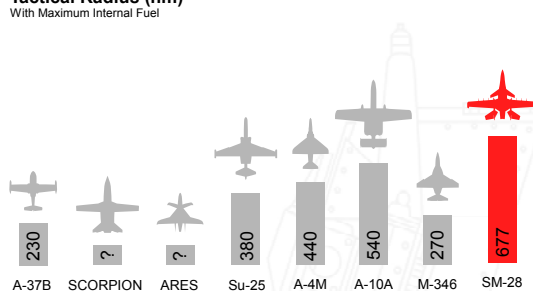
SM-28 COMPARISON

STAVATTI™

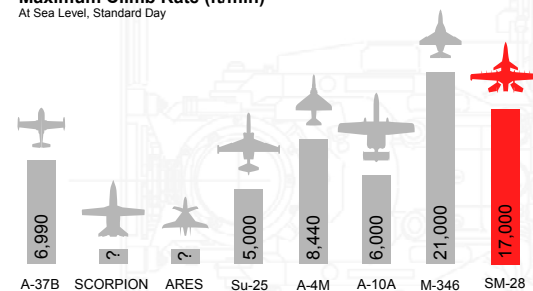
Maximum External Warload (lbs)
With Maximum Internal Fuel



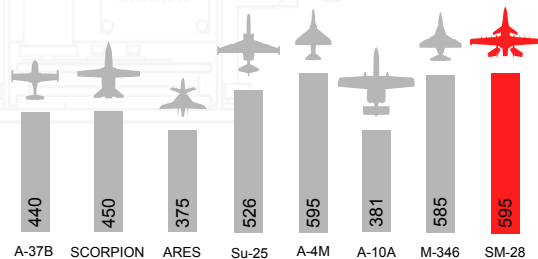
Tactical Radius (nm)
With Maximum Internal Fuel



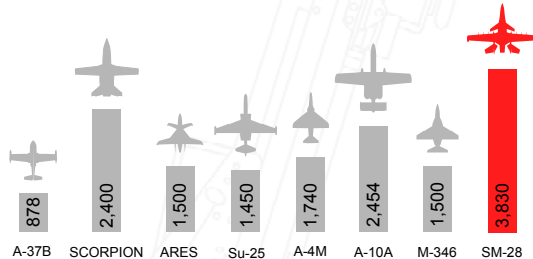
Maximum Climb Rate (ft/min)
At Sea Level, Standard Day



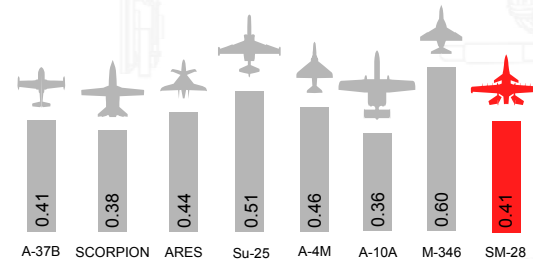
Maximum Level Speed (KTAS)
Aircraft in Clean Configuration



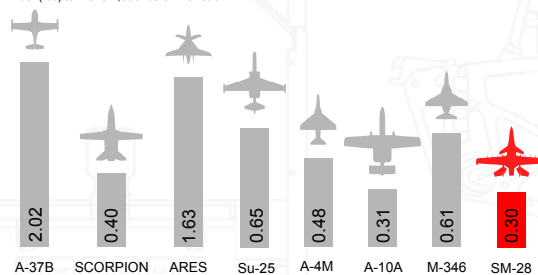
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



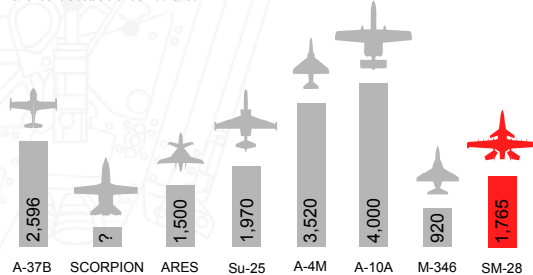
Thrust-to-Weight (t/w)
Maximum Sea Level Thrust/MTOW



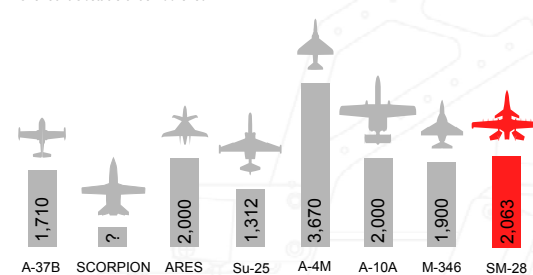
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Landing Distance (ft)
Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-150 SPORTPLANE

STAVATTI™

The SM-150 is a Next Generation two seat Sport Aircraft. Stylish and affordable, this advanced sportplane will introduce a new generation to aviation. A three-surface aircraft, the SM-150 has forward swept wings, canard foreplanes, twin V-tails and inverted vertical stabilizers. Constructed from advanced aluminum foam metal sandwich materials, the SM-150 will be produced in turbodiesel and hybrid powered variants as well as eVTOL personal air vehicle configurations.

**SM-150
Turbo-Piston
2 Seat Sportplane**



**135 KTAS
575 lb Useful Load
850 nm Range**

\$85,000 Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$46.50

STAVATTI AEROSPACE

SM-150 SPORTPLANE

STAVATTI™

SM-150 SPECIFICATIONS

Aircraft: SM-150 Sportplane
Unit Flyaway Cost: \$85,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Two Seat Side-By-Side
Seating Crashworthy Sport Seats

Internal Dimensions

Cabin Length 67.0 in
Cabin Width-Max 60.0 in
Cabin Height-Max 41.7 in

Powerplant

Number 1
Type Turbo Axial Piston Engine
Model NeoThrust 100
Manufacturer NeoThrust
Max HP 100
Prop RPM 2,300
Prop Type FP Scimitar
Prop Diameter 72 in
Number of Blades 3

Avionics & Displays

HUD Canopy Embedded Display (CED)
HDD SD346 LED Primary Display
COMM/GPS Dual WASS GPS/COMM/NAV
IFF ADS-B Out & In Transponder
Autopilot All-Axis Digital Autopilot
FCS Digital Power-By-Wire
Audio Panel Digital Bluetooth® Audio Panel
ELT/ULB 406 MHZ ELT & ULB

Dimensions

Max Wingspan 36 ft 0 in
Max Length 24 ft 0 in
Max Height 8 ft 8 in
Wing Area 137 sq ft
Wing Aspect Ratio 9.45
Wing LE Sweep 5.00°

Weights

Empty 1,000 lbs
Max Internal Fuel 156 lbs
Max Payload 444 lbs
Useful Load 600 lbs
Typical Landing (TLW) 1,600 lbs
Max Take-Off (MTOW) 1,600 lbs

Loadings

Wing Loading (MTOW) 11.7 lbs/sq ft
Power Loading (MTOW) 16.0 lbs/hp
Design Load Factor (MTOW) +4.4
Ultimate Load Factor (MTOW) +6.6

Performance

Max Level Speed @ SL 125 Ktas
Max Level Speed @ FL50 131 Ktas
Max Level Speed @ FL100 138 Ktas
Max Level Speed @ FL150 145 Ktas
Max Level Speed @ FL200 154 Ktas
Max Cruise Speed @ SL 113 Ktas
Max Cruise Speed @ FL100 125 Ktas
Max Cruise Speed @ FL200 138 Ktas
Typical Cruise Speed @ FL100 106 Ktas
Typical Cruise Speed @ FL200 116 Ktas
Takeoff Speed; MTOW 45 KTAS
Stall Speed; MTOW 41 KTAS
Max Climb Rate @ SL 1,243 ft/min
Service Ceiling 20,000 ft
Max Speed Range @ SL 539 nm
Max Speed Range @ FL100 592 nm
75% Cruise Range @ SL 616 nm
75% Cruise Range @ FL100 671 nm
50% Cruise Range @ FL100 850 nm
Takeoff Ground Roll, TTW 526 ft
Takeoff over 50 ft, TTW 605 ft
Landing Ground Roll, TLW 232 ft
Landing over 50 ft, TLW 267 ft



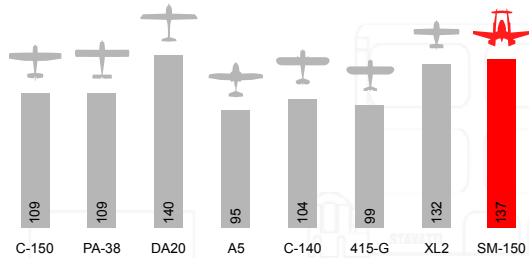
STAVATTI AEROSPACE

SM-150 COMPARISON

STAVATTI™

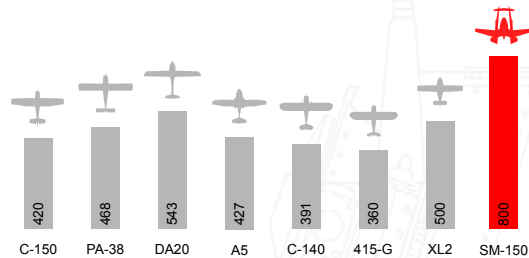
Maximum Level Speed (KTAS)

Aircraft at Optimum Altitude for Maximum Speed



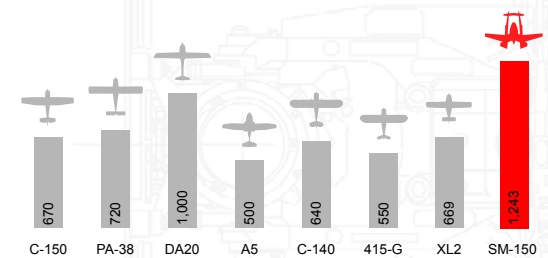
Maximum Range (nm)

With Maximum Internal Fuel



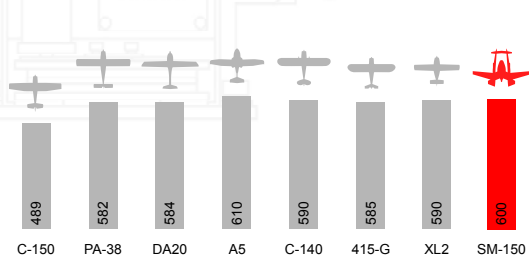
Maximum Climb Rate (ft/min)

At Sea Level, Standard Day



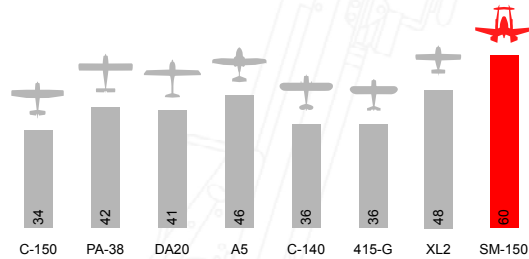
Maximum Useful load (lbs)

Aircraft at MTOW



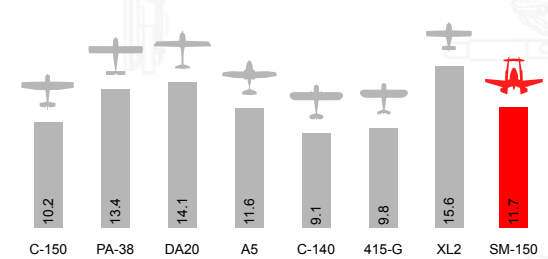
Cabin Width (in)

Maximum Interior Cabin Width



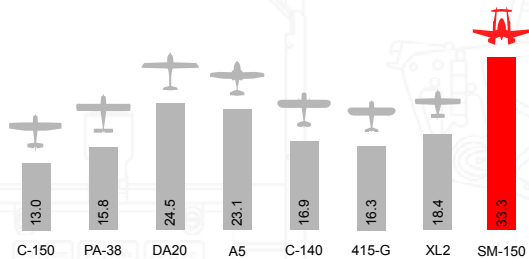
Maximum Wing Loading (lbs/sq ft)

Aircraft at MTOW



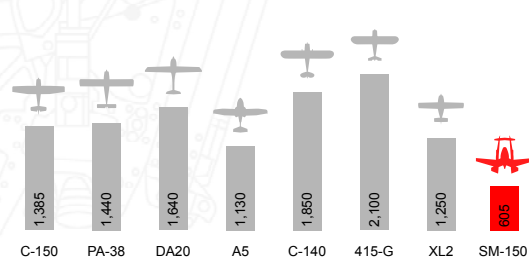
Nautical Miles Per Gallon (nmpg)

Maximum Range as Attained with Maximum Internal Fuel



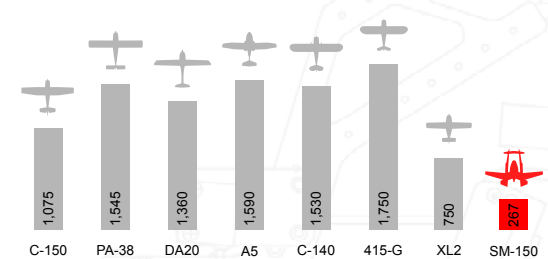
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft) Comparison

Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-26 SLEEK

STAVATTI™

The SM-26 is a High Performance Sportplane that delivers fighter handling, agility and style to general aviation. Produced in both turbocharged as well as turboprop variants, the SM-26 will be the world's fastest FAR 23 certified piston powered aircraft. Available as a civil sportplane as well as a military trainer and light attack aircraft, the SM-26 is a 66% scale replica of its CAS cousin, the SM-27 Machete.

SM-26 Sleek
Turbo Piston/Turboprop
High Performance Sportplane



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

\$850,000 Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$331

STAVATTI AEROSPACE

SM-26 SLEEK

STAVATTI™

SM-26 SLEEK SPECIFICATIONS

Aircraft: SM-26 Sleek Sportplane
Unit Flyaway Cost: \$850,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Two Seat Tandem
Seating Crashworthy Sport Seats

Internal Dimensions

Cabin Length 114.0 in
Cabin Width-Max 27.0 in
Cabin Height-Max 44.0 in

Powerplant

Number 1
Type Turbodiesel or Turboprop
Model NT750
Manufacturer NeoThrust
Max HP 750
Prop RPM 2,057
Prop Type CS Scimitar
Prop Diameter 96 in
Number of Blades 5

Avionics & Displays

HUD Canopy Embedded Display (CED)
HDD SD224 LED Primary Display
COMM/GPS Dual WASS GPS/COMM/NAV
IFF ADS-B Out & In Transponder
Autopilot All-Axis Digital Autopilot
FCS Digital Power-By-Wire
Audio Panel Digital Bluetooth® Audio Panel
ELT/ULB 406 MHZ ELT & ULB

Dimensions

Max Wingspan 36 ft 0 in
Max Length 25 ft 8 in
Max Height 8 ft 6 in
Wing Area 156.6 sq ft
Wing Aspect Ratio 8.4
Wing LE Sweep 4.25°

Weights

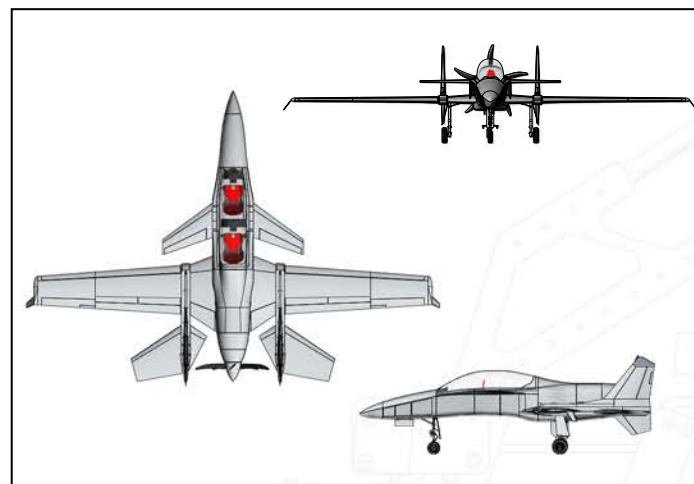
Empty 2,550 lbs
Max Internal Fuel 660 lbs
Max Baggage 130 lbs
Useful Load 1,150 lbs
Typical Landing (TLW) 3,140 lbs
Max Take-Off (MTOW) 3,700 lbs

Loadings

Wing Loading (MTOW) 23.6 lbs/sq ft
Power Loading (MTOW) 4.9 lbs/hp
Design Load Factor (MTOW) +6.50
Ultimate Load Factor (MTOW) +9.75

Performance

Max Level Speed @ SL 268 Ktas
Max Level Speed @ FL50 282 Ktas
Max Level Speed @ FL100 296 Ktas
Max Level Speed @ FL200 330 Ktas
Max Level Speed @ FL300 311 Ktas
Max Cruise Speed @ SL 233 Ktas
Max Cruise Speed @ FL100 257 Ktas
Max Cruise Speed @ FL200 285 Ktas
Typical Cruise Speed @ FL100 219 Ktas
Typical Cruise Speed @ FL200 242 Ktas
Takeoff Speed; MTOW 65 KTAS
Stall Speed; MTOW 52 KTAS
Max Climb Rate @ SL 5,081 ft/min
Service Ceiling 40,000 ft
Max Speed Range @ SL 440 nm
Max Speed Range @ FL300 887 nm
Eco Cruise Range @ SL 575 nm
Eco Cruise Range @ FL100 681 nm
Eco Cruise Range @ FL300 1,019 nm
Takeoff Ground Roll, TTW 226 ft
Takeoff over 50 ft, TTW 659 ft
Landing Ground Roll, TLW 597 ft
Landing over 50 ft, TLW 1,023 ft



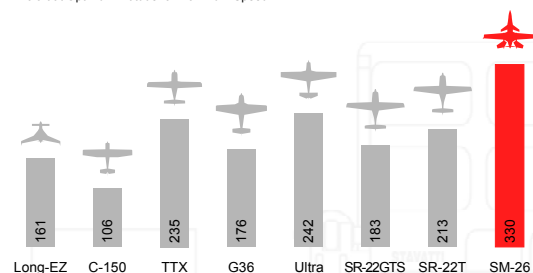
STAVATTI AEROSPACE

SM-26 COMPARISON

STAVATTI™

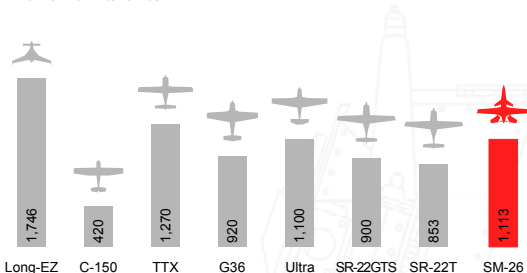
Maximum Level Speed (KTAS)

Aircraft at Optimum Altitude for Maximum Speed



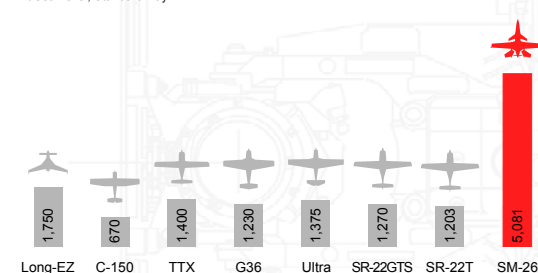
Maximum Range (nm)

With Maximum Internal Fuel



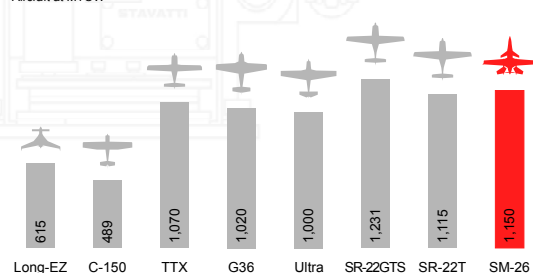
Maximum Climb Rate (ft/min)

At Sea Level, Standard Day



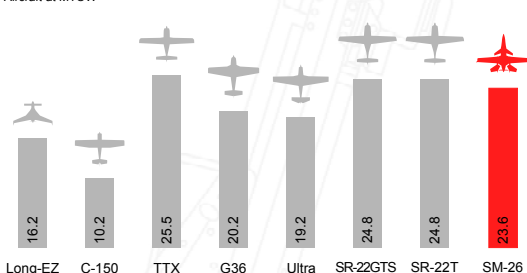
Maximum Useful load (lbs)

Aircraft at MTOW



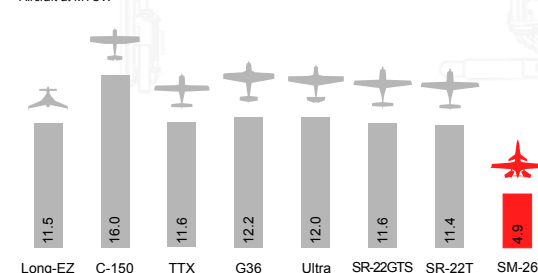
Maximum Wing Loading (lbs/sq ft)

Aircraft at MTOW



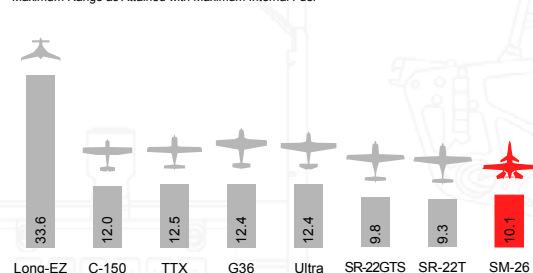
Maximum Power Loading (lbs/hp)

Aircraft at MTOW



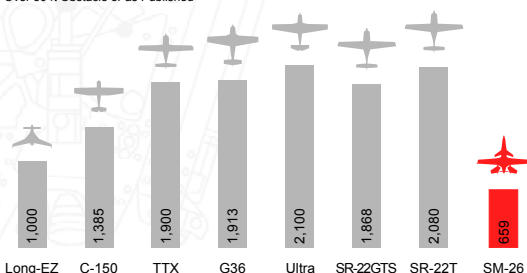
Nautical Miles Per Gallon (nmpg)

Maximum Range as Attained with Maximum Internal Fuel



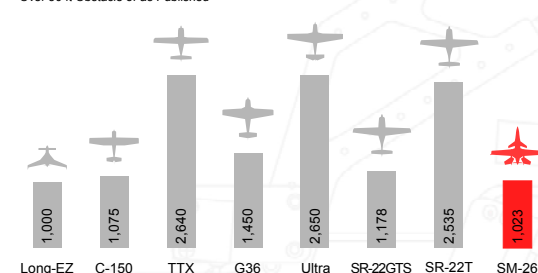
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft)

Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-31 STILETTO

STAVATTI™

The SM-31 Stiletto is an advanced, 5th Generation Supersonic Trainer and Light Fighter. Produced in single seat (SM-31S) and two seat (SM-31T) configurations, the SM-31 is a stealthy, single engine aircraft with an internal weapons bay. The SM-31 will replace F-5, T-38, T-50, Boeing T-7A and MiG-21 Aircraft worldwide.

SM-31 Stiletto
Afterburning Turbofan
Trainer and Light Fighter



1.5+ Mach
7,000 lb Warload
2,000+ nm Range

\$21 Million Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$3,204

STAVATTI AEROSPACE

SM-31 STILETTO

STAVATTI™

SM-31 STILETTO SPECIFICATIONS

Aircraft: SM-31 Stiletto
Unit Flyaway Cost: \$21,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Single (S) or Two Seat (T)
Seating MK16 or MK18 Ejection Seats

Powerplant

Number 1
Type Afterburning Turbofan
Model F125X
Manufacturer Honeywell
Afterburning Thrust (lbs) 12,250
Military Thrust (lbs) 8,120
Air Inlets Bifurcated Pitot Shock
Nozzle VG Thrust Vectoring

Dimensions

Max Wingspan 24 ft 0 in
Max Length 41 ft 8 in
Max Height 9 ft 0 in
Wing Area 176 sq ft
Wing Aspect Ratio 3.27
Wing LE Sweep 30°

Weights

Empty 8,700 lbs
Max Internal Fuel (JP-8) 3,800 lbs
Typical Takeoff (TTW) 13,400 lbs
Mid-Mission Weight (MMW) 11,500 lbs
Max Take-Off (MTOW) 20,500 lbs

Loadings

Wing Loading-MMW 65.3 lbs/sq ft
Wing Loading-MTOW 116.5 lbs/sq ft
Thrust-to-Weight-MMW 1.07 to 1
Thrust-to-Weight-MTOW 0.60 to 1
Design Load Factor-MTOW +9.0
Ultimate Load Factor-MTOW +13.5

Armament

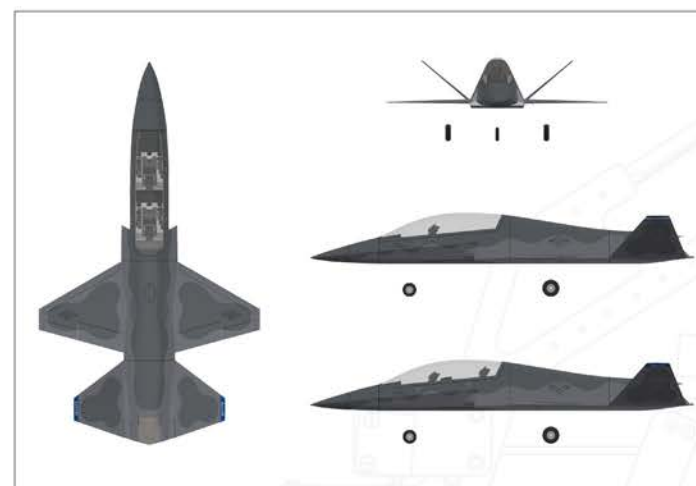
Fixed Internal 1 x 20mm M61A2
Ammunition 500 rds
Stores Stations (Internal & External) 8
Max Warload 7,100 lbs

Avionics & Electronic Warfare

Radar (opt) RACR
IRST IRST 21
HUD CED, HMD or LiteHUD
Comm AN/ARC-210 Gen V
IFF AN/APX-125
Data Link TACR-16DL
GPS/INS FALCN
TACAN AN/ARN-153(V)
RF ECM (opt) AN/ALQ-211A(V)4
MAWS (opt) AN/AAR-58
SPJ (opt) AN/ALQ-214(V)4/5
Chaff/Flare AN/ALE-47

Performance

Max Level Speed @ SL 1.22 Mach
Max Level Speed @ FL350 1.72 Mach
Max Cruise Speed @ SL 0.90 Mach
Max Cruise Speed @ FL350 0.90 Mach
Typical Cruise Speed @ FL350 0.80 Mach
Takeoff Speed; MTOW 177 Ktas
Stall Speed; MTOW 150 Ktas
Approach Speed; TLW 127 Ktas
Stall Speed; TLW 106 Ktas
Max Climb Rate @ SL 39,554 ft/min
Service Ceiling Exceeds 50,000 ft
1.72 Mach Range, IF 220 nm
1.72 Mach Radius, IF 103 nm
0.90 Mach Range, IF 1,327 nm
0.90 Mach Radius, IF 452 nm
Ferry Range 1,982 nm
Takeoff Ground Roll, TTW 1,370 ft
Landing Ground Roll, TLW 1,490 ft

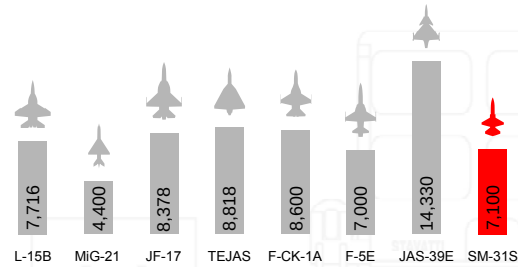


STAVATTI AEROSPACE

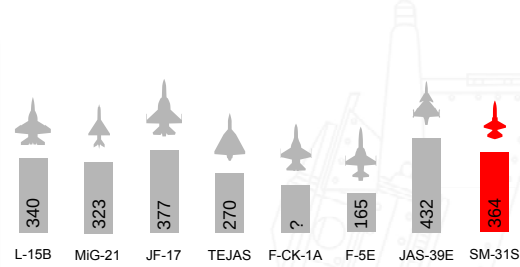
SM-31S COMPARISON

STAVATTI™

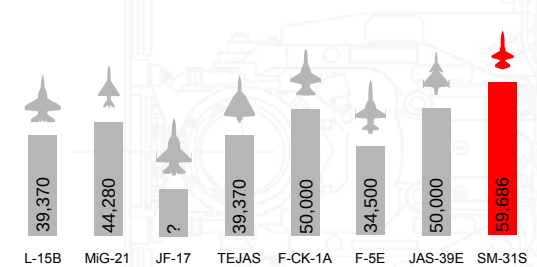
Maximum Warload (lbs)
With Partial Internal Fuel



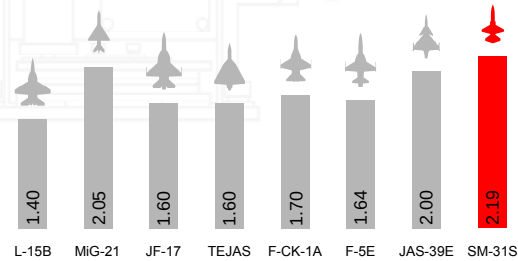
Tactical Radius (nm)
With Maximum Internal Fuel or As Published



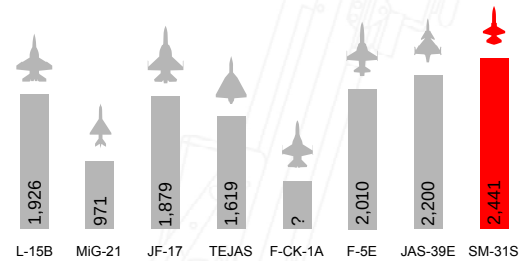
Maximum Climb Rate (ft/min)
Typical Combat Weight @ Sea Level, Standard Day



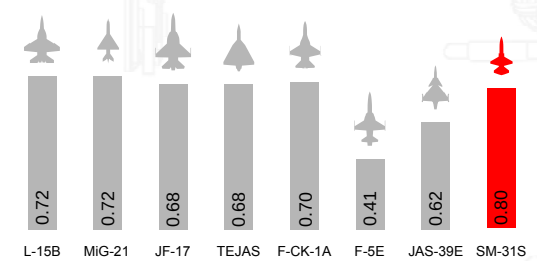
Maximum Level Speed (MACH)
Aircraft in Clean Configuration @ Altitude



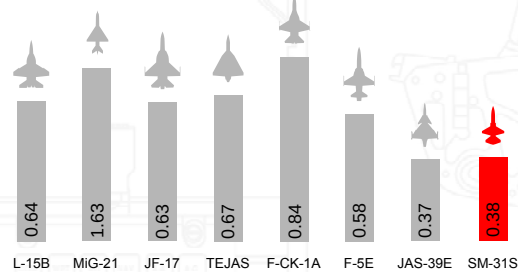
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



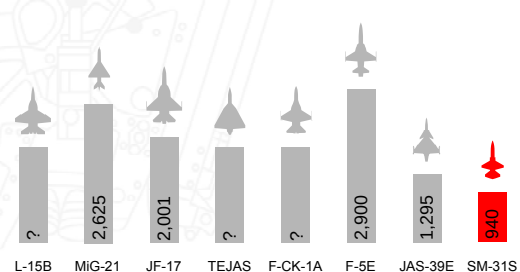
Thrust-to-Weight Ratio
MTOW @ Maximum Power



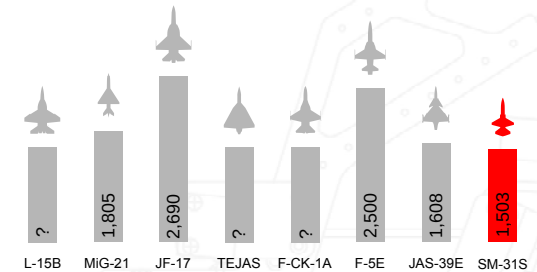
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
Over 50 ft Obstacle or As Published



Landing Distance (ft)
Over 50 ft Obstacle or As Published



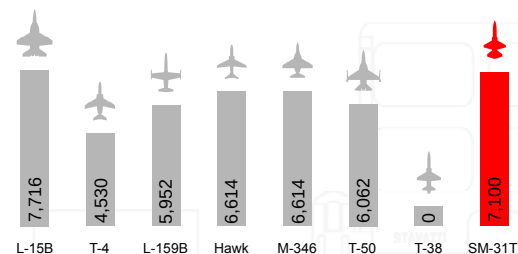
STAVATTI AEROSPACE

SM-31T COMPARISON

STAVATTI™

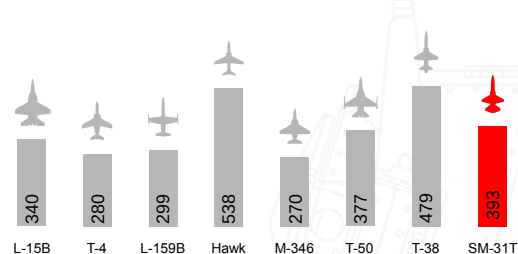
Maximum Warload (lbs)

With Maximum Internal Fuel or As Published



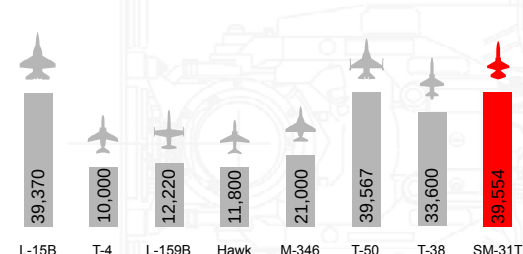
Tactical Radius (nm)

With Maximum Internal Fuel



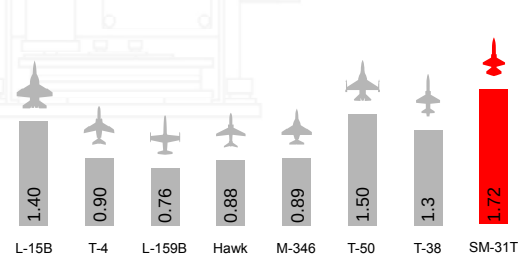
Maximum Climb Rate (ft/min)

Typical Combat Weight @ Sea Level, Standard Day



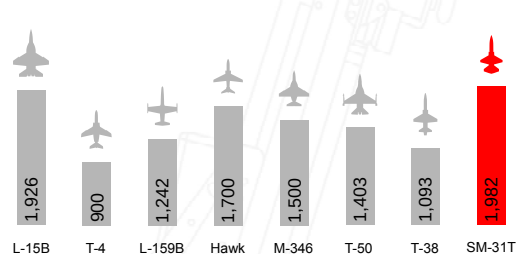
Maximum Level Speed (MACH)

Aircraft in Clean Configuration @ Altitude



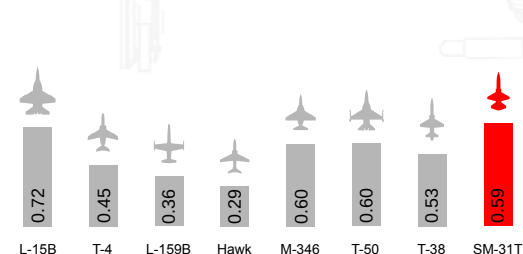
Maximum or Ferry Range (nm)

With Maximum Internal + Maximum External Fuel



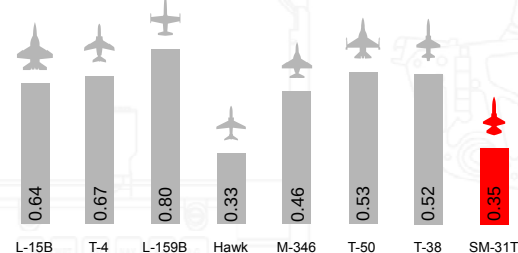
Thrust-to-Weight Ratio

MTOW @ Maximum Power



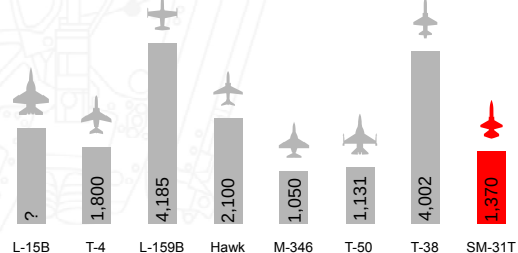
Relative Fuel Burn Ratio

Fuel (lbs) to move 1,000 lbs of Warload 1 nm



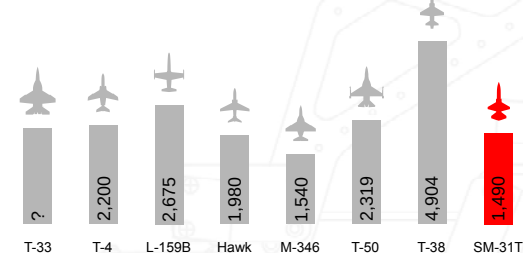
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft)

Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-47 SUPER MACHETE

STAVATTI™

The SM-47 is a single engine afterburning turbofan powered Air Defense Fighter, Strike Fighter and Trainer. A super-maneuverable aircraft with Forward Swept Wings, the SM-47 has a Mach 2.2 maximum level speed and a tactical radius on internal fuel of 800 nm. Armed with a 20mm cannon and 9 external hardpoints to carry 12,000 lbs, the SM-47 replaces F-16 ADFs, F/A-18A/Bs, Mirage 2000s and JAS 39 Gripens.

**SM-47 Super Machete
Afterburning Turbofan
Air Defense Fighter**



**2.0+ Mach
12,000 lb Warload
625 nm Radius**

\$30 Million Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$3,858

STAVATTI AEROSPACE

SM-47 SUPER MACHETE

STAVATTI™

SM-47 SUPER MACHETE SPECIFICATIONS

Aircraft: SM-47 Super Machete
Unit Flyaway Cost: \$30,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Single (S) or Two Seat (T)
Seating MK18 or ACES 5 Ejection Seats

Powerplant

Number 1
Type Afterburning Turbofan
Model F414-EPE
Manufacturer GEAE
Afterburning Thrust (lbs) 26,600
Military Thrust (lbs) 16,232
Air Inlets Bifurcated Pitot Shock
Nozzle VG Thrust Vectoring

Dimensions

Max Wingspan 33 ft 4 in
Max Length 42 ft 0 in
Max Height 12 ft 4 in
Wing Area 308 sq ft
Wing Aspect Ratio 3.74
Wing LE Sweep -35°

Weights

Empty 16,000 lbs
Max Internal Fuel (IF) 7,000 lbs
Max External Warload 12,000 lbs
Typical Combat (TCW) 23,700 lbs
Max Take-Off (MTOW) 36,000 lbs

Loadings

Wing Loading-TCW 76.9 lbs/sq ft
Wing Loading-MTOW 116.9 lbs/sq ft
Thrust-to-Weight-TCW 1.12 to 1
Thrust-to-Weight-MTOW 0.74 to 1
Design Load Factor-TCW 13.7
Design Load Factor-MTOW 9.0

Armament

Fixed Internal 1 x 20mm M61A2
Ammunition 1,000 rds
External Hardpoints 8
Max Warload 12,000 lbs

Avionics & Electronic Warfare

Radar (opt) RACR
IRST IRST 21
HUD CED, HMD or LiteHUD
Comm AN/ARC-210 Gen V
IFF AN/APX-125
Data Link TACR-16DL
GPS/INS FALCN
TACAN AN/ARN-153(V)
RF ECM (opt) AN/ALQ-211A(V)4
MAWS (opt) AN/AAR-58
SPJ (opt) AN/ALQ-214(V)4/5
Chaff/Flare AN/ALE-47

Performance

Max Level Speed @ SL 1.23 Mach
Max Level Speed @ FL350 2.27 Mach
Max Cruise Speed @ SL 1.00 Mach
Max Cruise Speed @ FL350 1.10 Mach
Typical Cruise Speed @ FL350 0.85 Mach
Takeoff Speed; MTOW 172 Ktas
Stall Speed; MTOW 156 Ktas
Approach Speed; TLW 133 Ktas
Stall Speed; TLW 111 Ktas
Max Climb Rate @ SL 47,700 ft/min
Service Ceiling Exceeds 55,000 ft
Max Speed Range, IF 230 nm
Max Speed Radius, IF 105 nm
0.85 Mach Range, IF 1,420 nm
0.85 Mach Radius, IF 694 nm
Ferry Range 2,051 nm
Takeoff Ground Roll, TTW 1,543 ft
Landing Ground Roll, TLW 2,073 ft



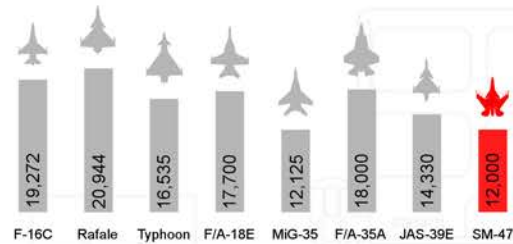
STAVATTI AEROSPACE

SM-47 COMPARISON

STAVATTI™

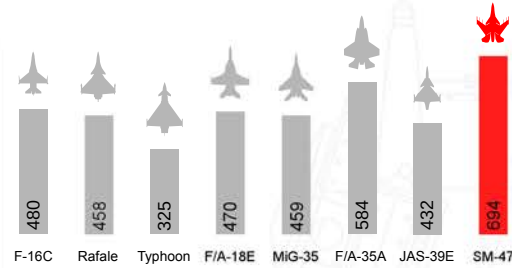
Maximum Warload (lbs)

With Partial Internal Fuel



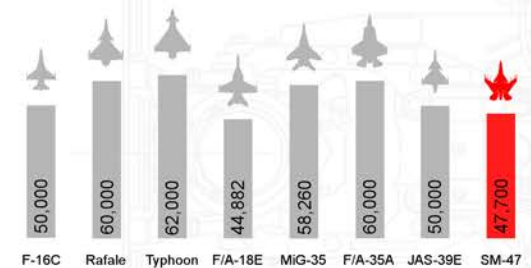
Tactical Radius (nm)

With Maximum Internal Fuel



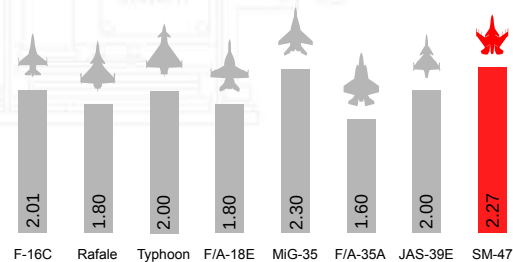
Maximum Climb Rate (ft/min)

Typical Combat Weight @ Sea Level, Standard Day



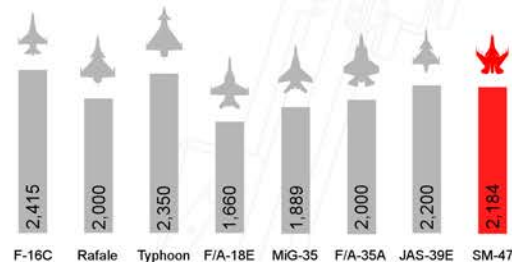
Maximum Level Speed (MACH)

Aircraft in Clean Configuration @ Altitude



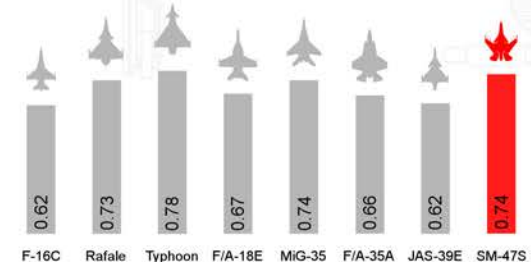
Maximum or Ferry Range (nm)

With Maximum Internal + Maximum External Fuel



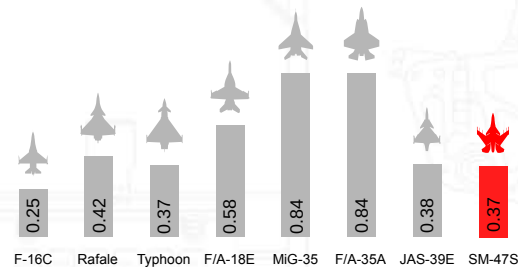
Thrust-to-Weight Ratio

MTOW @ Maximum Power



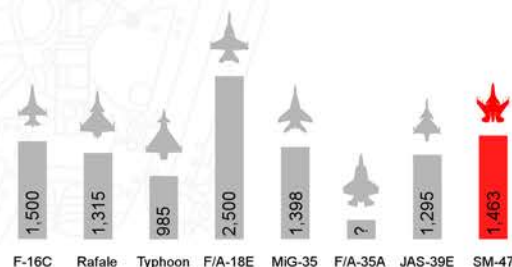
Relative Fuel Burn Ratio

Fuel (lbs) to move 1,000 lbs of Warload 1 nm



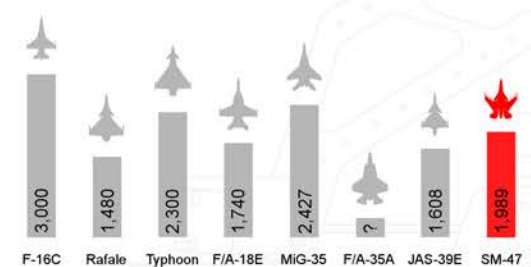
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft)

Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-100 TRANSPORT

STAVATTI™

The SM-100 is a twin engine transport designed to carry 25,000 lbs to 35,000 lbs of cargo in a 35 ft long cargo bay that is 10 ft high and 11.82 ft wide. With a 310 knot cruise speed and a range of nearly 3,000 nm while transporting a 12.5 ton load, the SM-100 can operate from short unprepared runways. A rugged airlifter, the SM-100 will be suitable for all transport missions. The SM-100 will be produced in turboprop, hybrid electric, electric and hydrogen powered variants.

**SM-100
Twin Turboprop
Transport**



**390 KTAS
25,000 lb Payload
3,000 nm Range**

\$36 Million Flyaway Cost
Cost Per Flight Hour (CPFH): \$2,902

STAVATTI AEROSPACE

SM-100 TRANSPORT

STAVATTI™

SM-100 SPECIFICATIONS

Aircraft: SM-100 Transport
Unit Flyaway Cost: \$36,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew 2
Seating 72

Powerplant

Number 2
Type Turboprop
Model PW150 Derivative
Manufacturer P&W Canada
Max SHP 6,000
Prop Type Scimitar Prop Fan
Prop Diameter 162 in
Number of Blades 8

Dimensions

Max Wingspan 100 ft 0 in
Max Length 86 ft 0 in
Max Height 21 ft 4 in
Wing Area 900 sq ft
Wing Aspect Ratio 11.1
Wing LE Sweep 0.0°

Weights

Empty 42,000 lbs
Max Internal Fuel (JP-8) 22,000 lbs
Max Fuel Payload 26,000 lbs
Max Payload 35,000 lbs
Useful Load 48,000 lbs
Typical Landing (TLW) 70,200 lbs
Max Take-Off (MTOW) 90,000 lbs

Loadings

Wing Loading (TLW) 78.0 lbs/sq ft
Wing Loading (MTOW) 100.0 lbs/sq ft
Power Loading (TLW) 5.6 lbs/shp
Power Loading (MTOW) 7.5 lbs/shp
Design Load Factor (MTOW) 2.5 g

Payload Configurations

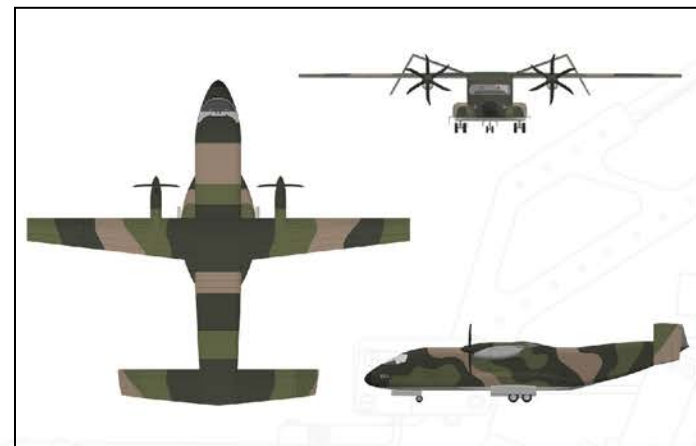
20 ft Sea-Land Containers 1
LD-3 Containers 6
88" x 108" 463L Pallets 4
HMMWVs (Humvees) 2
Economy Seats @ 31 in Pitch 72
Business Seats @ 31 in Pitch 50
Max Combat Troops 84
Max Para Troops 60
Max Litter Patients 63

Internal Dimensions

Cargo Hold Length 35 ft 0 in
Cargo Hold Max Width 11 ft 10 in
Cargo Hold Max Height 10 ft 0 in
Cargo Hold Floor Area 395 sq ft

Performance

Max Level Speed @ SL 342 Ktas
Max Level Speed @ FL150 390 Ktas
Max Level Speed @ FL300 328 Ktas
Continuous Speed @ FL150 374 Ktas
Continuous Speed @ FL250 343 Ktas
Typical Cruise Speed @ FL150 350 Ktas
Typical Cruise Speed @ FL250 310 Ktas
Takeoff Speed @ MTOW, SL 116 Ktas
Approach Speed @ TLW, SL 118 Ktas
Stall Speed @ TLW, SL 91 Ktas
Max Climb Rate @ SL 2,664 ft/min
Service Ceiling >35,000 ft
Max Range @ FL150 2,703 nm
Max Range @ FL200 2,949 nm
Max Range @ FL250 2,986 nm
Max Payload Range @ FL150 1,243 nm
Max Payload Range @ FL250 1,355 nm
Ferry Range with Roll-On Tank 5,300 nm
Takeoff Ground Roll, TTW 1,787 ft
Takeoff Over 50 ft, TTW 2,595 ft
Landing Ground Roll, TLW 1,190 ft
Landing Over 50 ft, TLW 2,316 ft



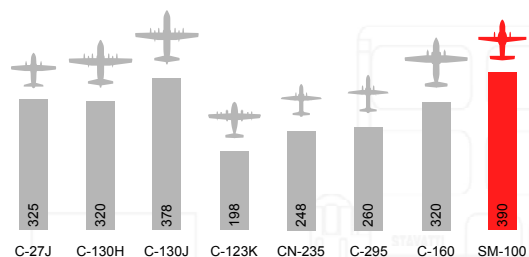
STAVATTI AEROSPACE

SM-100 COMPARISON

STAVATTI™

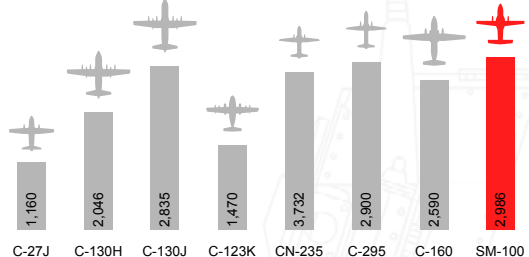
Maximum Level Speed (KTAS)

Aircraft at Optimum Altitude for Maximum Speed



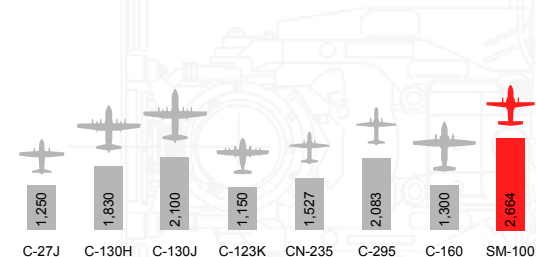
Maximum Range (nm)

With Maximum Internal Fuel and Payload



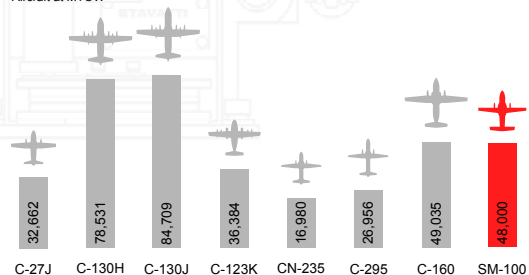
Maximum Climb Rate (ft/min)

At Sea Level, Standard Day



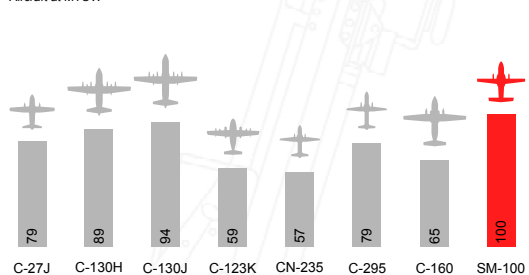
Maximum Useful load (lbs)

Aircraft at MTOW



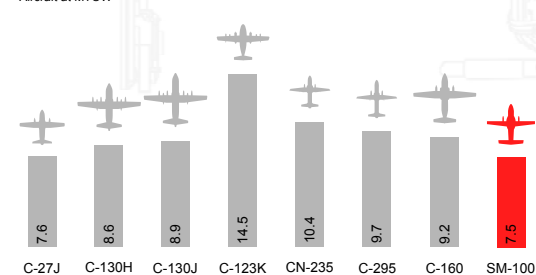
Maximum Wing Loading (lbs/sq ft)

Aircraft at MTOW



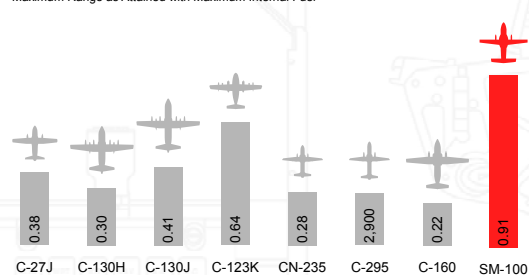
Maximum Power Loading (lbs/hp)

Aircraft at MTOW



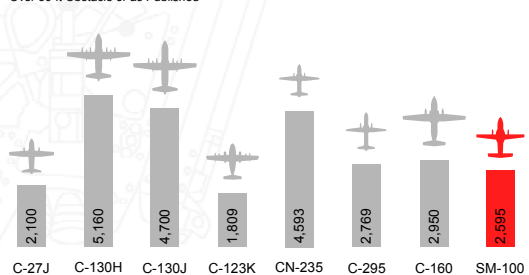
Nautical Miles Per Gallon (nmpg)

Maximum Range as Attained with Maximum Internal Fuel



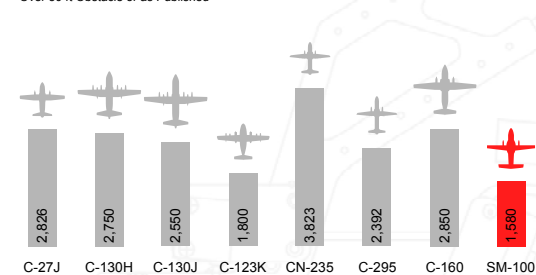
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft)

Over 50 ft Obstacle or as Published



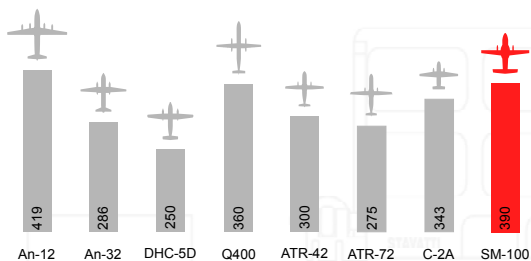
STAVATTI AEROSPACE

SM-100 COMPARISON

STAVATTI™

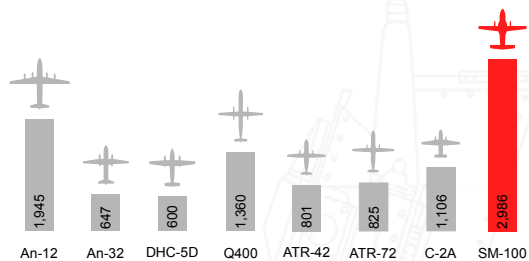
Maximum Level Speed (KTAS)

Aircraft at Optimum Altitude for Maximum Speed



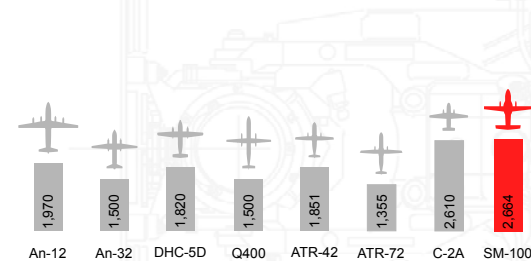
Maximum Range (nm)

With Maximum Internal Fuel



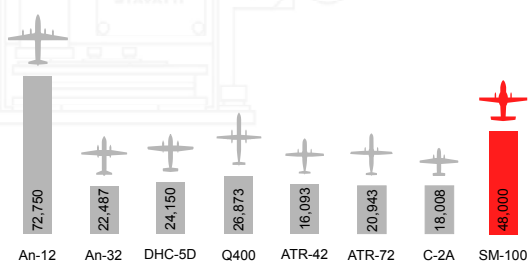
Maximum Climb Rate (ft/min)

At Sea Level, Standard Day



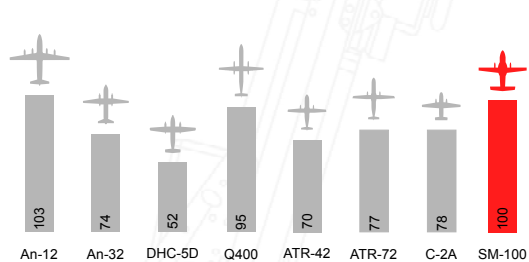
Maximum Useful load (lbs)

Aircraft at MTOW



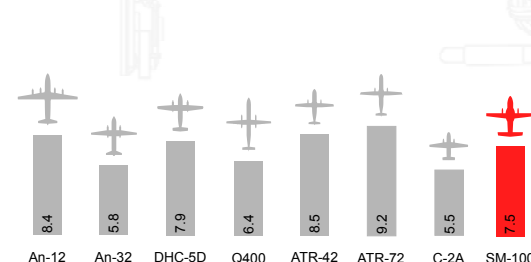
Maximum Wing Loading (lbs/sq ft)

Aircraft at MTOW



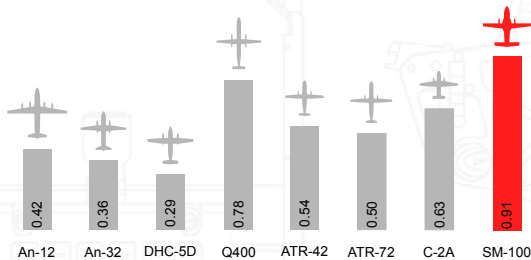
Maximum Power Loading (lbs/hp)

Aircraft at MTOW



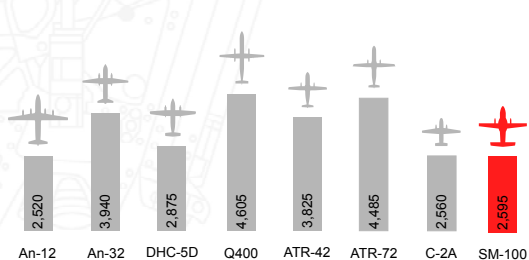
Nautical Miles Per Gallon (nmpg)

Maximum Range as Attained with Maximum Internal Fuel



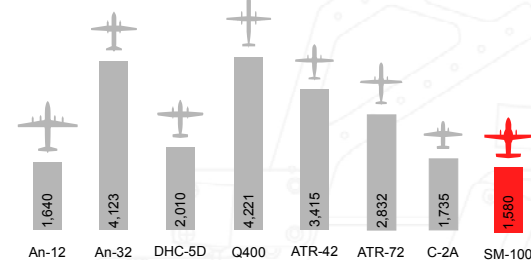
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft)

Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-100AT AIRTANKER

STAVATTI™

SM-100AT SPECIFICATIONS

Aircraft: SM-100AT Airtanker & Water Bomber
Unit Flyaway Cost: \$36,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew 2
Seating 72

Powerplant

Number 2
Type Turboprop
Model PW150 Derivative
Manufacturer P&W Canada
Max SHP 6,000
Prop Type Scimitar Prop Fan
Prop Diameter 162 in
Number of Blades 8

Dimensions

Max Wingspan 100 ft 0 in
Max Length 86 ft 0 in
Max Height 21 ft 4 in
Wing Area 900 sq ft
Wing Aspect Ratio 11.1
Wing LE Sweep 0.0°

Weights

Empty 43,550 lbs
Max Internal Fuel (JP-8) 22,000 lbs
Max Retardant Payload 35,000 lbs
Max Fuel with Retardant 10,500 lbs
Useful Load 46,450 lbs
Typical Landing (TLW) 46,075 lbs
Max Take-Off (MTOW) 90,000 lbs

Loadings

Wing Loading (TLW) 51.2 lbs/sq ft
Wing Loading (MTOW) 100.0 lbs/sq ft
Power Loading (TLW) 3.8 lbs/shp
Power Loading (MTOW) 7.5 lbs/shp
Design Load Factor (MTOW) 2.5 g

Retardant Delivery (RADS)

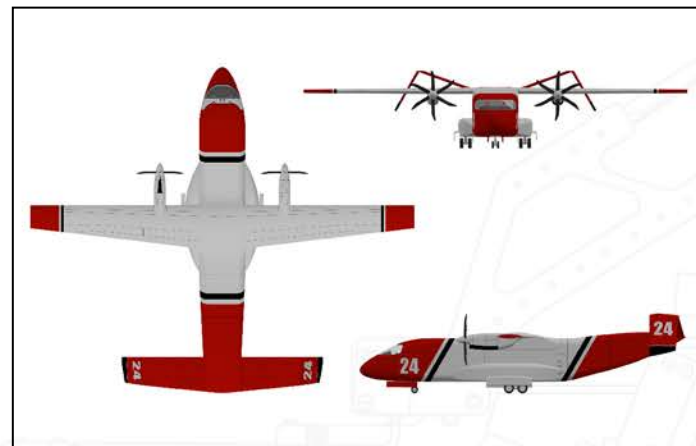
RADS Manufacturer Coulson
RADS Model RADS-XXL
RADS Capacity (USG) 4,200
RADS Capacity (lbs) 35,000
RADS Flow Rate (gpm) 1,600
RADS Net Weight (lbs) 2,760
RADS & Retardant (lbs) 37,760
Max Fuel with Retardant (lbs) 10,500

Internal Dimensions

Cargo Hold Length 35 ft 0 in
Cargo Hold Max Width 11 ft 10 in
Cargo Hold Max Height 10 ft 0 in
Cargo Hold Floor Area 395 sq ft

Performance

Max Level Speed @ SL 342 Ktas
Max Level Speed @ FL150 390 Ktas
Max Level Speed @ FL300 328 Ktas
Continuous Speed @ FL150 374 Ktas
Continuous Speed @ FL250 343 Ktas
Typical Cruise Speed @ FL150 350 Ktas
Typical Cruise Speed @ FL250 310 Ktas
Takeoff Speed @ MTOW, SL 116 Ktas
Approach Speed @ TLW, SL 118 Ktas
Stall Speed @ TLW, SL 91 Ktas
Max Climb Rate @ SL 2,664 ft/min
Service Ceiling >35,000 ft
Max Range @ FL150 2,703 nm
Max Range @ FL200 2,949 nm
Max Range @ FL250 2,986 nm
Max Payload Range @ FL150 1,243 nm
Max Payload Range @ FL250 1,355 nm
Ferry Range with Roll-On Tank 5,300 nm
Takeoff Ground Roll, TTW 1,787 ft
Takeoff Over 50 ft, TTW 2,595 ft
Landing Ground Roll, TLW 1,190 ft
Landing Over 50 ft, TLW 2,316 ft

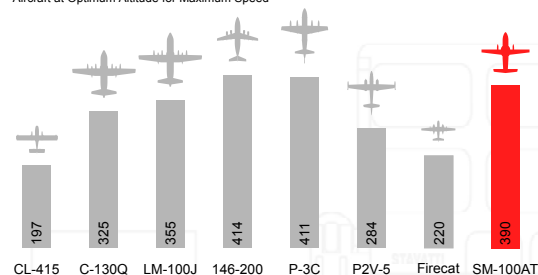


STAVATTI AEROSPACE

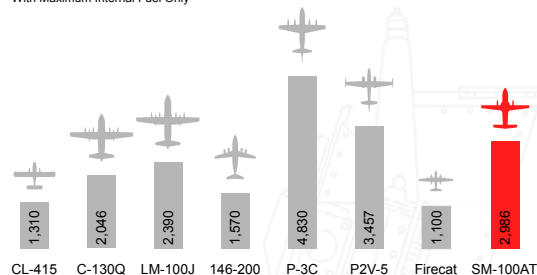
SM-100AT COMPARISON

STAVATTI™

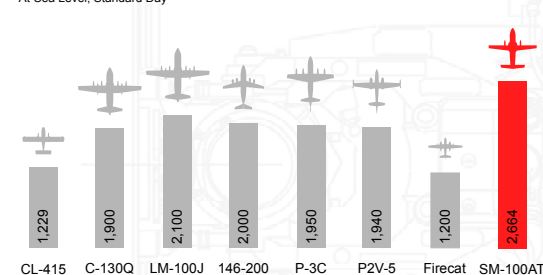
Maximum Level Speed (KTAS)
Aircraft at Optimum Altitude for Maximum Speed



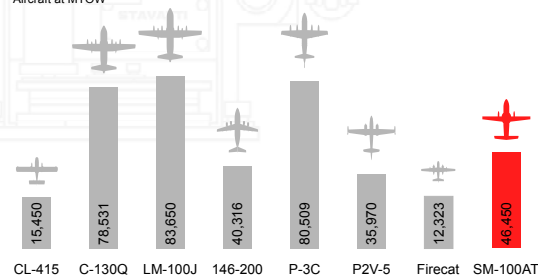
Maximum Range (nm)
With Maximum Internal Fuel Only



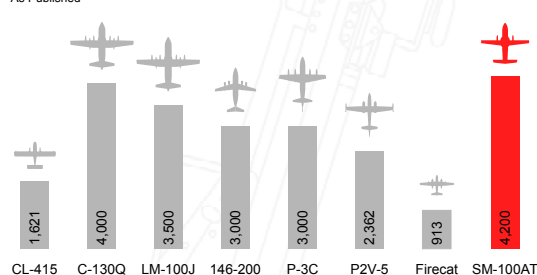
Maximum Climb Rate (ft/min)
At Sea Level, Standard Day



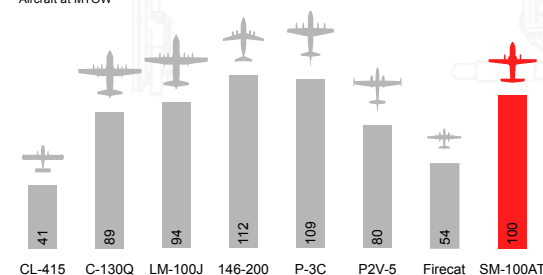
Maximum Useful load (lbs)
Aircraft at MTOW



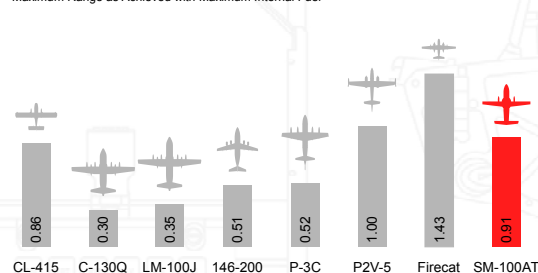
Retardant Capacity (USG)
As Published



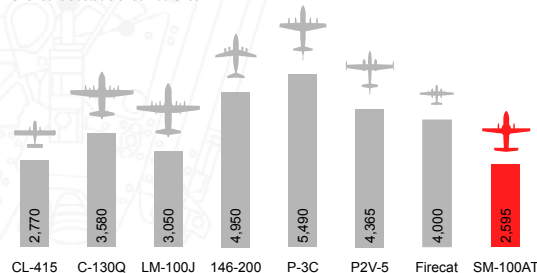
Maximum Wing Loading (lbs/sq ft)
Aircraft at MTOW



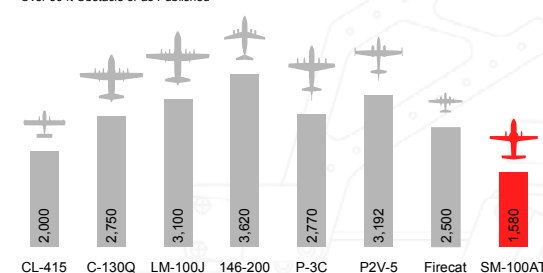
Nautical Miles Per Gallon (nmpg)
Maximum Range as Achieved with Maximum Internal Fuel



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Landing Distance (ft)
Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

The SM-36 Stalma is a single engine, afterburning turbofan powered, Lo-Observable Air Superiority and Multi-Role Fighter. Equipped with variable geometry swing wings, canard foreplanes, internal weapons carriage and thrust vectoring exhaust nozzles, the SM-36 is a Mach 2.6, super-maneuverable, 6th generation, STOL supercruise fighter intended to replace F/A-18E/Fs and F/A-35s.

SM-36 Stalma
Afterburning Turbofan
Multi-Role Fighter



Mach 2.6+
20,000 lb Warload
900 nm Radius

\$50 Million Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$5,682

SM-36 STALMA SPECIFICATIONS

Aircraft: SM-36 Stalma
Unit Flyaway Cost: \$50,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Single (S) or Two Seat (T)
Seating MK18 or ACES 5 Ejection Seats

Powerplant

Number 1
Type Afterburning Turbofan
Model ACE/E1400 VCE
Manufacturer GE/Stavatti
Afterburning Thrust (lbs) 50,000
Military Thrust (lbs) 42,000
Air Inlets Internal Compression
Nozzle LO VG Thrust Vectoring

Dimensions

Max Wingspan 64 ft 0 in/34 ft 9 in
Max Length 58 ft 0 in
Max Height 13 ft 6 in
Wing Area 580 sq ft
Wing Aspect Ratio 7.4/2.2
Wing LE Sweep 5°/70°

Weights

Empty 24,000 lbs
Max Internal Fuel (IF) 20,000 lbs
Max External Warload 21,000 lbs
Typical Combat (TCW) 37,000 lbs
Max Take-Off (MTOW) 65,000 lbs

Loadings

Wing Loading-TCW 63.8 lbs/sq ft
Wing Loading-MTOW 112.1 lbs/sq ft
Thrust-to-Weight-TCW 1.41 to 1
Thrust-to-Weight-MTOW 0.80 to 1
Design Load Factor-TCW 12.5
Design Load Factor-MTOW 7.5

Armament

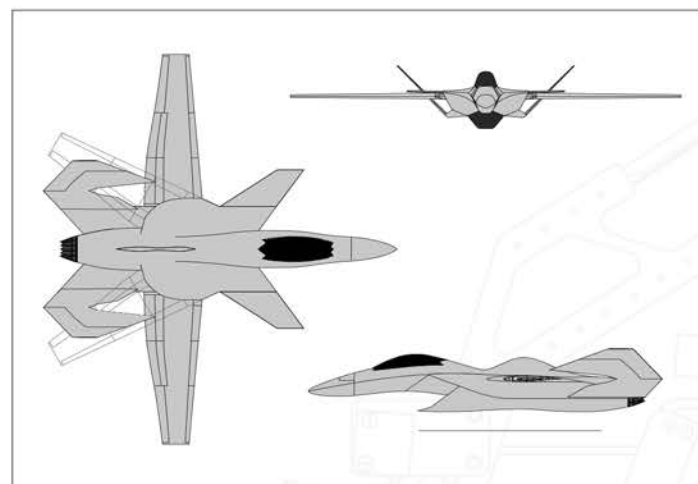
Fixed Internal 1 x 20mm M61A2 or DEW
Ammunition 1,000 rds
Stores Stations (Internal & External) 8
Max Warload 21,000 lbs

Avionics & Electronic Warfare

Radar APG-81 or ARACR
IRST EOTS or AEOTS
HUD CED or HMD
Comm AN/ASQ-242 or ACNI
IFF AN/ASQ-242 or ACNI
Data Link AN/ASQ-242 or ACNI
GPS/INS FALCN
RF ECM AN/ASQ-239 or AFIDEWS
MAWS AN/ASQ-239 or AFIDEWS
DAS AN/AAQ-37 or AFIDEWS
SPJ AN/ASQ-239 or AFIDEWS
Chaff/Flare AN/ALE-52

Performance

Max Level Speed @ SL 1.25 Mach
Max Level Speed @ FL350 2.60 Mach
Supercruise Speed @ SL 1.20 Mach
Supercruise Speed @ FL350 1.80 Mach
Typical Cruise Speed @ FL350 0.85 Mach
Approach Speed; TLW 118 Ktas
Stall Speed; TLW 97 Ktas
Max Climb Rate @ SL 75,000 ft/min
Service Ceiling 75,000 ft
Max Speed Range, IF 422 nm
Max Speed Radius, IF 201 nm
Supercruise Range, IF 1,577 nm
Supercruise Radius, IF 775 nm
0.85 Mach Range, IF 2,324 nm
0.85 Mach Radius, IF 1,142 nm
0.85 Mach Ferry Range 3,400 nm
Takeoff Ground Roll, TTW 1,543 ft
Landing Ground Roll, TLW 1,312 ft

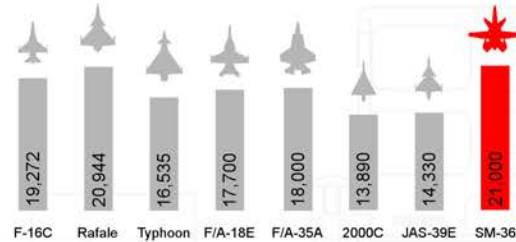


SM-36 COMPARISON

STAVATTI™

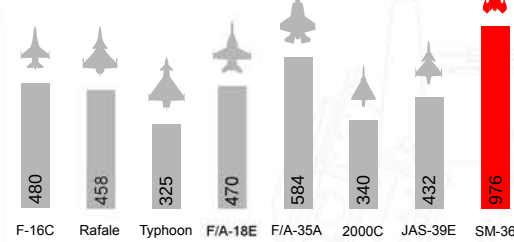
Maximum Warload (lbs)

With Partial Internal Fuel



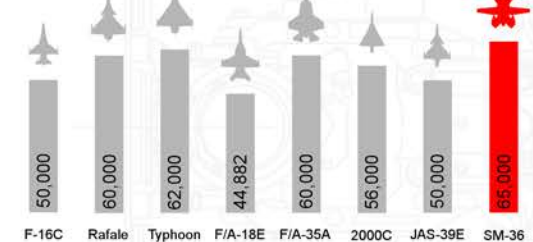
Tactical Radius (nm)

With Maximum Internal Fuel



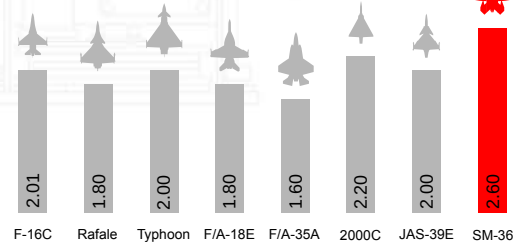
Maximum Climb Rate (ft/min)

Typical Combat Weight @ Sea Level, Standard Day



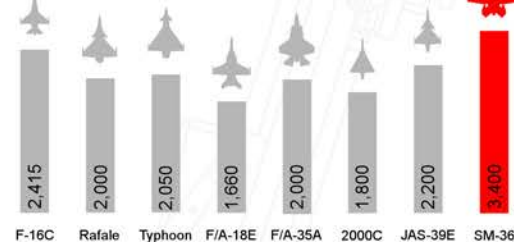
Maximum Level Speed (MACH)

Aircraft in Clean Configuration @ Altitude



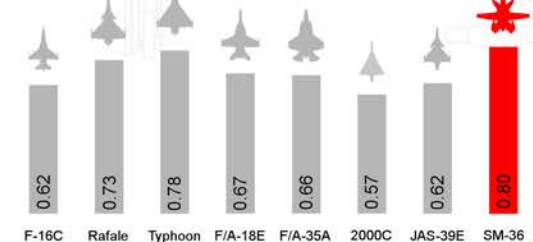
Maximum or Ferry Range (nm)

With Maximum Internal + Maximum External Fuel



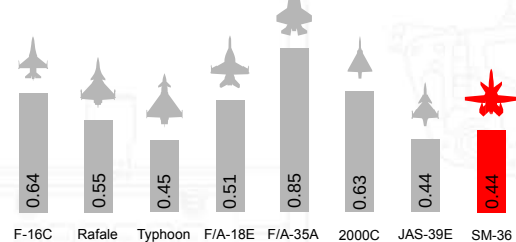
Thrust-to-Weight Ratio

MTOW @ Maximum Power



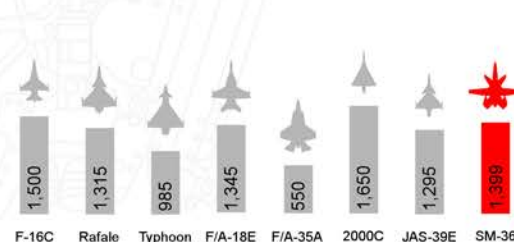
Relative Fuel Burn Ratio

Fuel (lbs) to move 1,000 lbs of Warload 1 nm



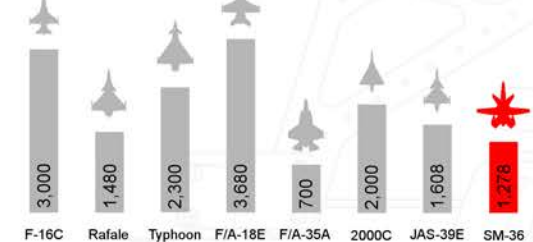
Takeoff Distance (ft)

Over 50 ft Obstacle or as Published



Landing Distance (ft)

Over 50 ft Obstacle or as Published

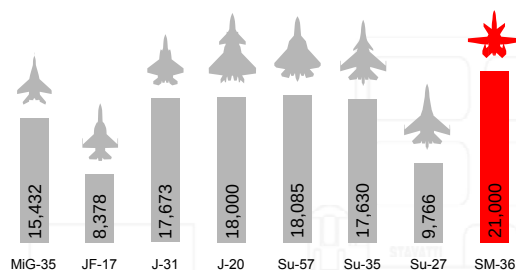


STAVATTI AEROSPACE

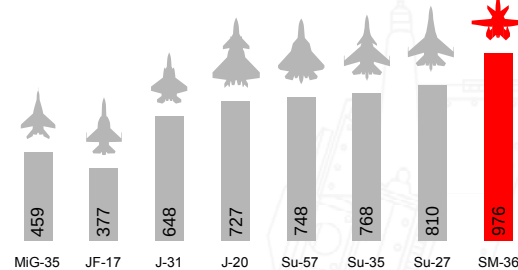
SM-36 COMPARISON

STAVATTI™

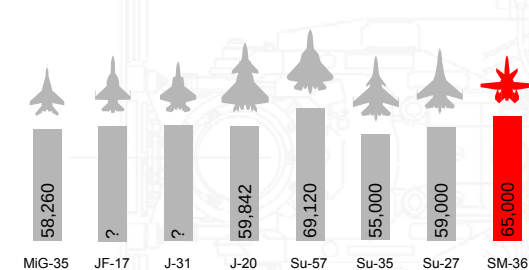
Maximum Warload (lbs)
With Partial Internal Fuel



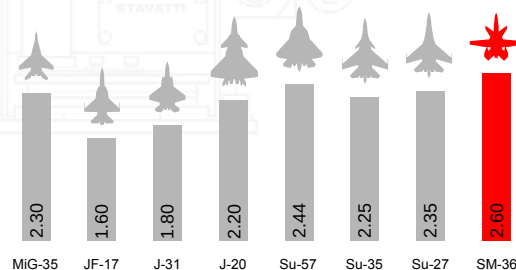
Tactical Radius (nm)
With Maximum Internal Fuel



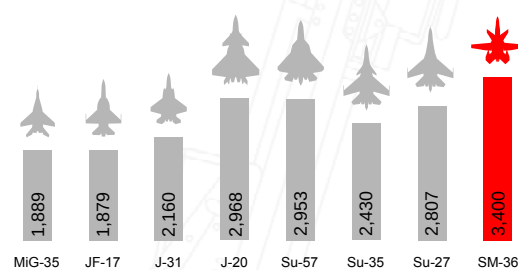
Maximum Climb Rate (ft/min)
Typical Combat Weight @ Sea Level, Standard Day



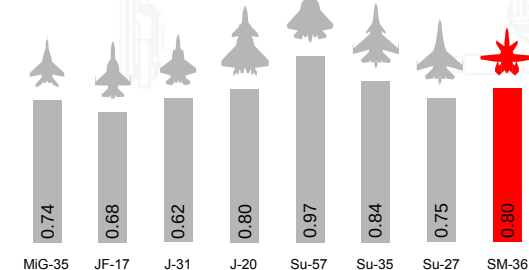
Maximum Level Speed (MACH)
Aircraft in Clean Configuration @ Altitude



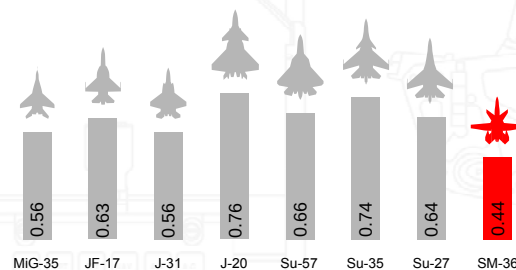
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



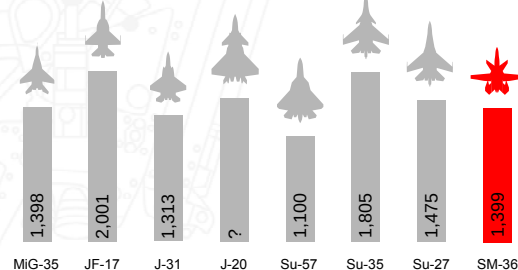
Thrust-to-Weight Ratio
MTOW @ Maximum Power



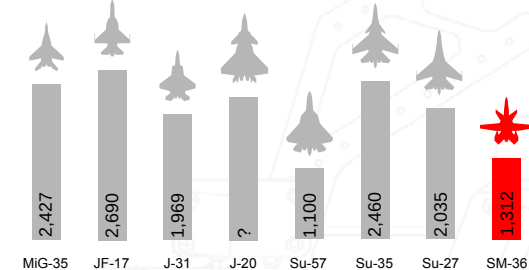
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Landing Distance (ft)
Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

SM-39 RAZOR

STAVATTI™

The SM-39 Razor is a 6th generation twin engine Air Superiority and Air Dominance Fighter designed for both land and carrier based operations. Powered by two next generation variable cycle afterburning turbofans, the SM-39 will have a maximum level speed in excess of Mach 4.0, a tactical radius greater than 1,300 nm, internal weapons carriage and super-maneuverability. The SM-39 will replace F/A-22, F-15, F-14, Su-27 and Su-57 aircraft.

SM-39 Razor
Afterburning Turbofans
Air Dominance Fighter



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

\$90 Million Unit Flyaway Cost
Cost Per Flight Hour (CPFH): \$10,117

STAVATTI AEROSPACE

SM-39 RAZOR

STAVATTI™

SM-39 RAZOR SPECIFICATIONS

Aircraft: SM-39 Razor
Unit Flyaway Cost: \$90,000,000

Manufacturer: Stavatti Aerospace Ltd
First Flight: Contact Stavatti

Accommodation

Crew Single (S) or Two Seat (T)
Seating MK18 or ACES 5 Ejection Seats

Powerplant

Number 2
Type Afterburning Turbofan
Model ACE; E1400-NT-520
Manufacturer GEAE; NeoThrust
Afterburning Thrust (lbs) 52,000
Military Thrust (lbs) 40,000
Air Inlets Internal Compression
Nozzle LO VG Thrust Vectoring

Dimensions

Max Wingspan 54 ft 6 in
Max Length 78 ft 6 in
Max Height 13 ft 8 in
Wing Area 1,132 sq ft
Wing Aspect Ratio 2.62
Wing LE Sweep 50.0°

Weights

Empty 46,000 lbs
Max Internal Fuel (IF) 30,000 lbs
Max External Warload 25,000 lbs
Typical Combat (TCW) 65,000 lbs
Max Take-Off (MTOW) 100,000 lbs

Loadings

Wing Loading-TCW 57.4 lbs/sq ft
Wing Loading-MTOW 88.3 lbs/sq ft
Thrust-to-Weight-TCW 1.60 to 1
Thrust-to-Weight-MTOW 1.04 to 1
Design Load Factor-TCW 11.2 g
Design Load Factor-MTOW 7.5 g

Armament

Fixed Internal 1 x 20mm M61A2 or DEW
Ammunition 1,000 rds
Stores Stations (Internal & External) 6
Max Warload 25,000 lbs

Avionics & Electronic Warfare

Radar ARACR AESA
IRST EOTS or AEOTS
HUD CED or HMD
Comm AN/ASQ-242 or ACNI
IFF AN/ASQ-242 or ACN
Data Link AN/ASQ-242 or ACN
GPS/INS FALCN
RF ECM AN/ASQ-239 or AFIDEWS
MAWS AN/ASQ-239 or AFIDEWS
DAS AN/ASQ-239 or ADAS
SPJ AN/ASQ-239 or AFIDEWS
Chaff/Flare AN/ALE-52

Performance

Max Level Speed @ SL 1.30 Mach
Max Level Speed @ FL650 4.00 Mach
Supercruise Speed @ FL350 2.50 Mach
Takeoff Speed: MTOW 136 Ktas
Stall Speed: MTOW 123 Ktas
Approach Speed: TLW 115 Ktas
Stall Speed: TLW 96 Ktas
Max Climb Rate @ SL >75,000 ft/min
Service Ceiling >100,000 ft
Max Speed Range, IF 950 nm
Max Speed Radius, IF 463 nm
Supercruise Range, IF 1,200 nm
Supercruise Radius, IF 585 nm
0.85 Mach Range, IF 2,800 nm
0.85 Mach Radius, IF 1,300 nm
0.85 Mach Ferry Range 5,000 nm
Takeoff Ground Roll, TTW 752 ft
Landing Ground Roll, TLW 1,460 ft

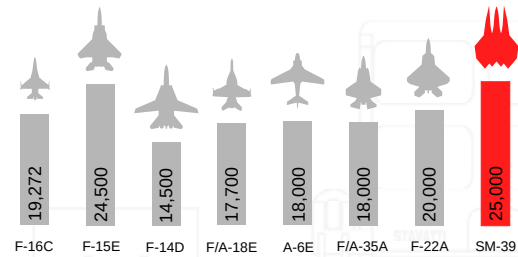


STAVATTI AEROSPACE

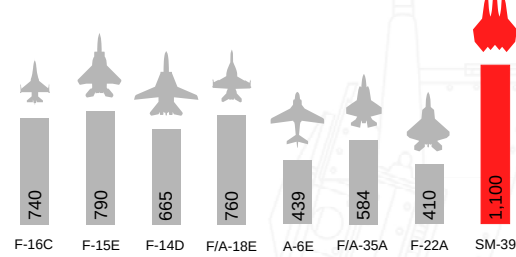
SM-39 COMPARISON

STAVATTI™

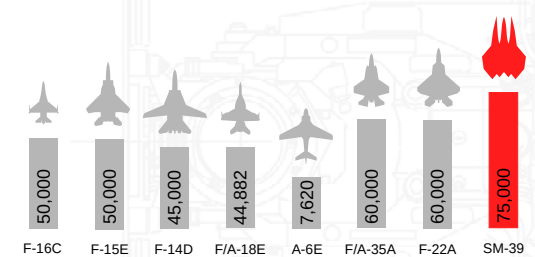
Maximum Warload (lbs)
With Partial Internal Fuel



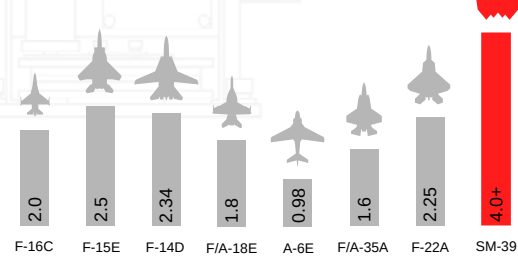
Tactical Radius (nm)
With Maximum Internal Fuel



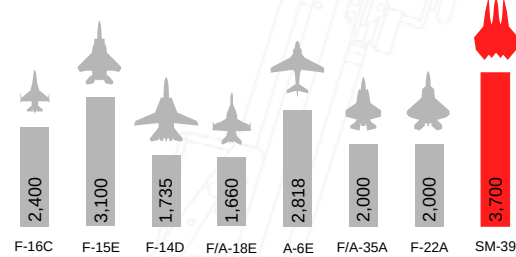
Maximum Climb Rate (ft/min)
Typical Combat Weight @ Sea Level, Standard Day



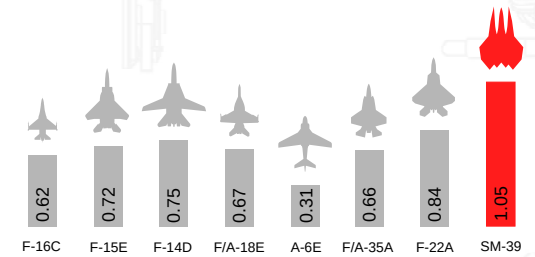
Maximum Level Speed (MACH)
Aircraft in Clean Configuration @ Altitude



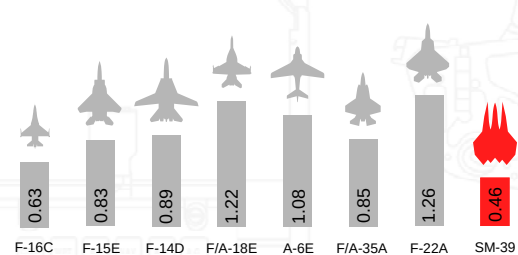
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



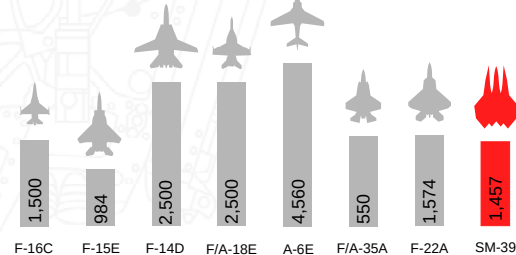
Thrust to Weight Ratio
MTOW @ Maximum Power



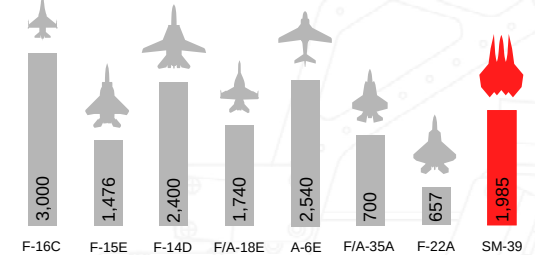
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
BFL Over 50 ft Obstacle



Landing Distance (ft)
BFL Over 50 ft Obstacle

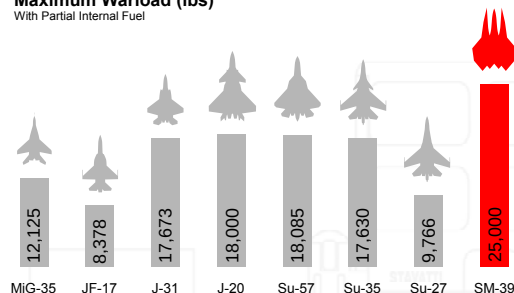


STAVATTI AEROSPACE

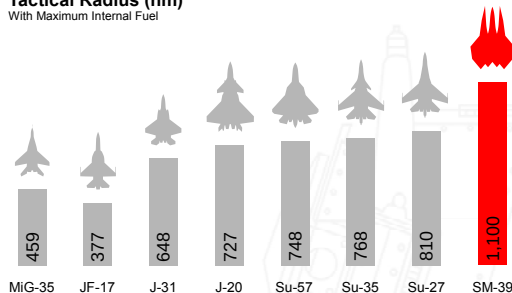
SM-39 COMPARISON

STAVATTI™

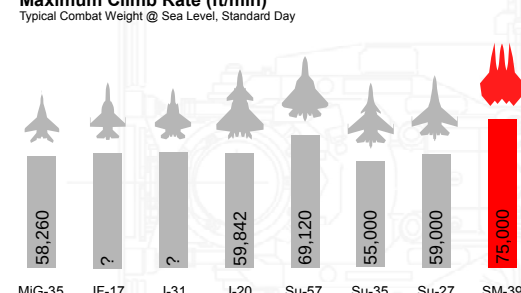
Maximum Warload (lbs)
With Partial Internal Fuel



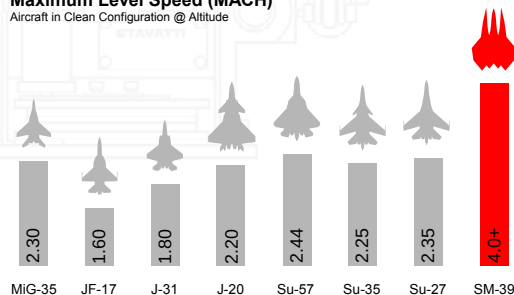
Tactical Radius (nm)
With Maximum Internal Fuel



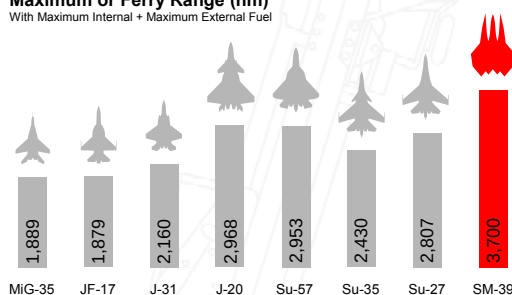
Maximum Climb Rate (ft/min)
Typical Combat Weight @ Sea Level, Standard Day



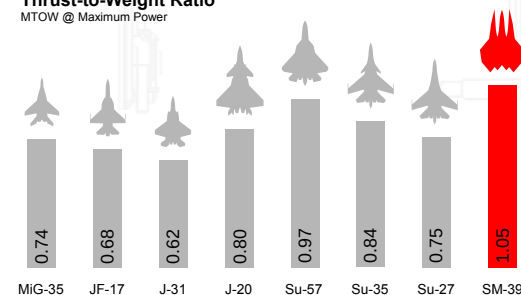
Maximum Level Speed (MACH)
Aircraft in Clean Configuration @ Altitude



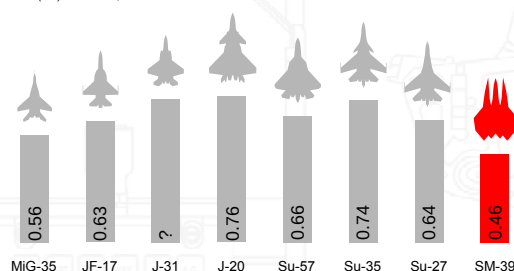
Maximum or Ferry Range (nm)
With Maximum Internal + Maximum External Fuel



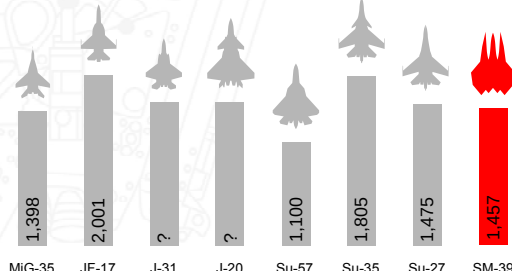
Thrust-to-Weight Ratio
MTOW @ Maximum Power



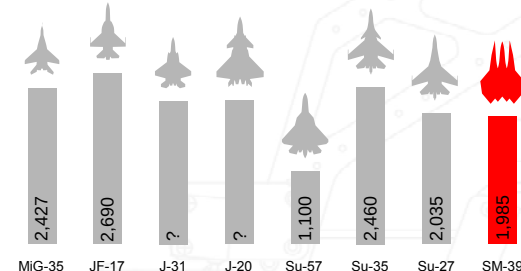
Relative Fuel Burn Ratio
Fuel (lbs) to move 1,000 lbs of Warload 1 nm



Takeoff Distance (ft)
Over 50 ft Obstacle or as Published



Landing Distance (ft)
Over 50 ft Obstacle or as Published



STAVATTI AEROSPACE

- Stavatti's Space Launch Capacity will begin with the design and production of new multi-stage expendable and reusable launch vehicles for commercial customers
- New Launch Vehicles based on proven technologies will be produced
- Launch Vehicles will benefit from Next Generation Sustainable Fuels



A Family of Modular Launch Vehicles
100 to 2,500 ton launch mass
5 to 100 ton Payload to LEO
Produced in Niagara Falls, NY Beginning in 2025



- Stavatti's Vision includes the design and production of Interplanetary and Interstellar Spacecraft
- Stavatti is pioneering Advanced Fusion Propulsion and Starship Enabling Technologies
- Interplanetary Vehicles will include Orbital Shuttles, Moon/Mars Transports & Space Fighters
- Stavatti's Long Range Vision Concentrates on Interstellar Starships for Human Spaceflight



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

AIRCRAFT

Patented & Novel Vehicle Configurations
Internal Compression Air Intakes
Wave Drag Reducing Configurations
Channel Wing STOL Configurations
Circulation & Boundary Layer Control
Non-Conventional Lift/Inertial Propulsion

AIRCRAFT SYSTEMS

Forth 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™ Iridium 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)
Proprietary Zero-Zero Ejection Seats

COCKPIT & HUMAN FACTORS

Proprietary Crewstation Climate Systems
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 Reactor
Fusor Reactor
Modulated Interference Fusion (MIF)
Thermo-Alpha Radio-Isotope Fuel Cell
Economical Synthesis of Radioisotope Fuels

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 & Graphene Nano-Fiber Composites
US5670574 High Temperature Resin
Beskar™ Iridium Alloy & Beskar Steel™

POWERPLANTS & PROPULSION

Liquid Hydrogen & Hydrogen Fuel Cell Power
Electric and Hybrid Diesel Electric Power
Variable Cycle Turbojet Powerplants
MagnetoHydrodynamic Energy Bypass (MHEB)
Bladeless Boundary Layer Turbines
Radioisotope Gas Turbines
Hi ISP Plasma Rockets and Ion Engines
Integrated MicroGrid Solutions (IMGS)
Inertial Propulsion System (IPS)
Warp Drive By 2035

ROBOTICS

Autonomous Flight Droid (Aeromech Droid™)

SENSOR & AVIONICS

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

SOFTWARE

Stavatti Proprietary CAD/CAM/PLM Solution

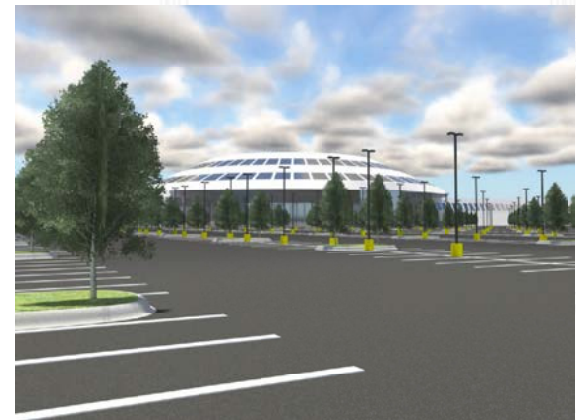
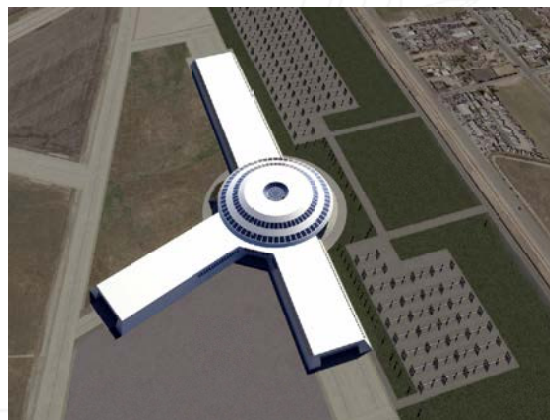
STEALTH & LOW OBSERVABILITY

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

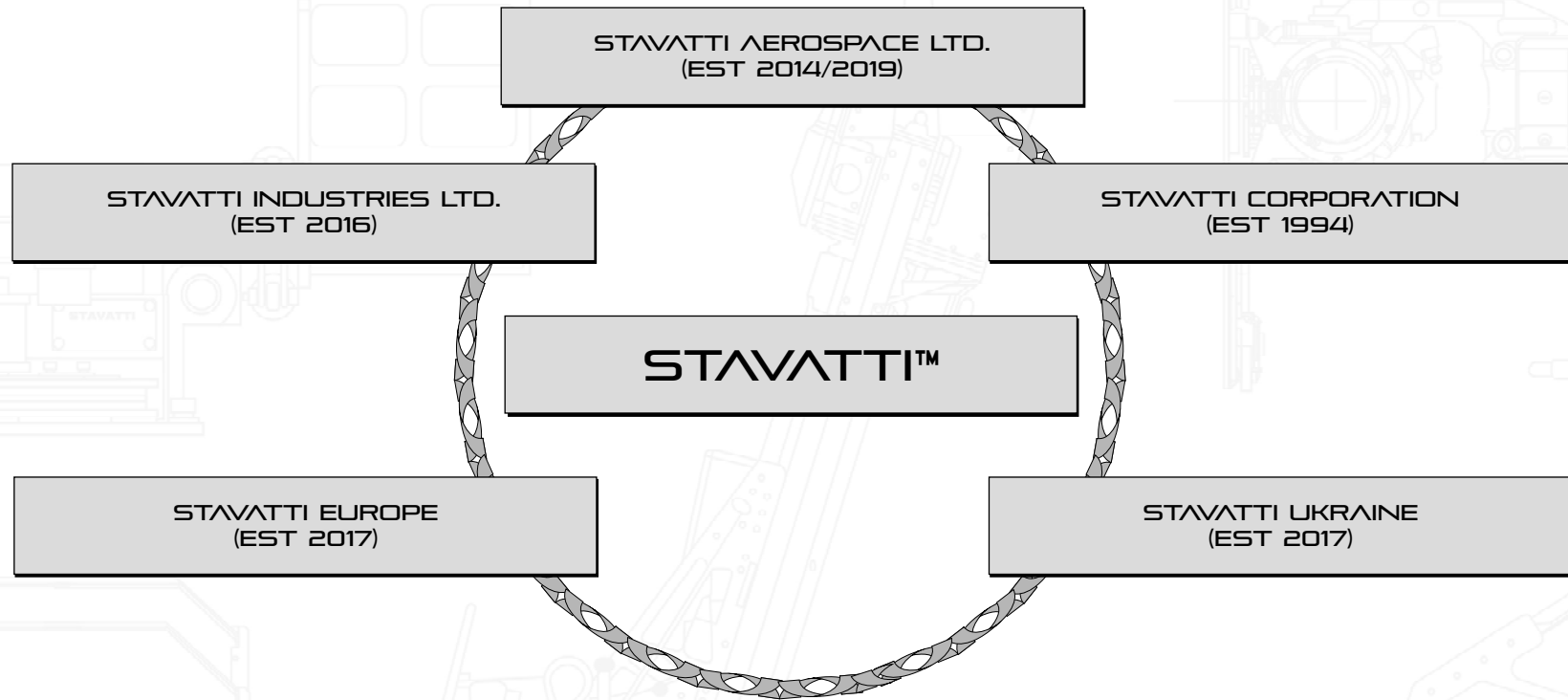
WEAPON SYSTEMS

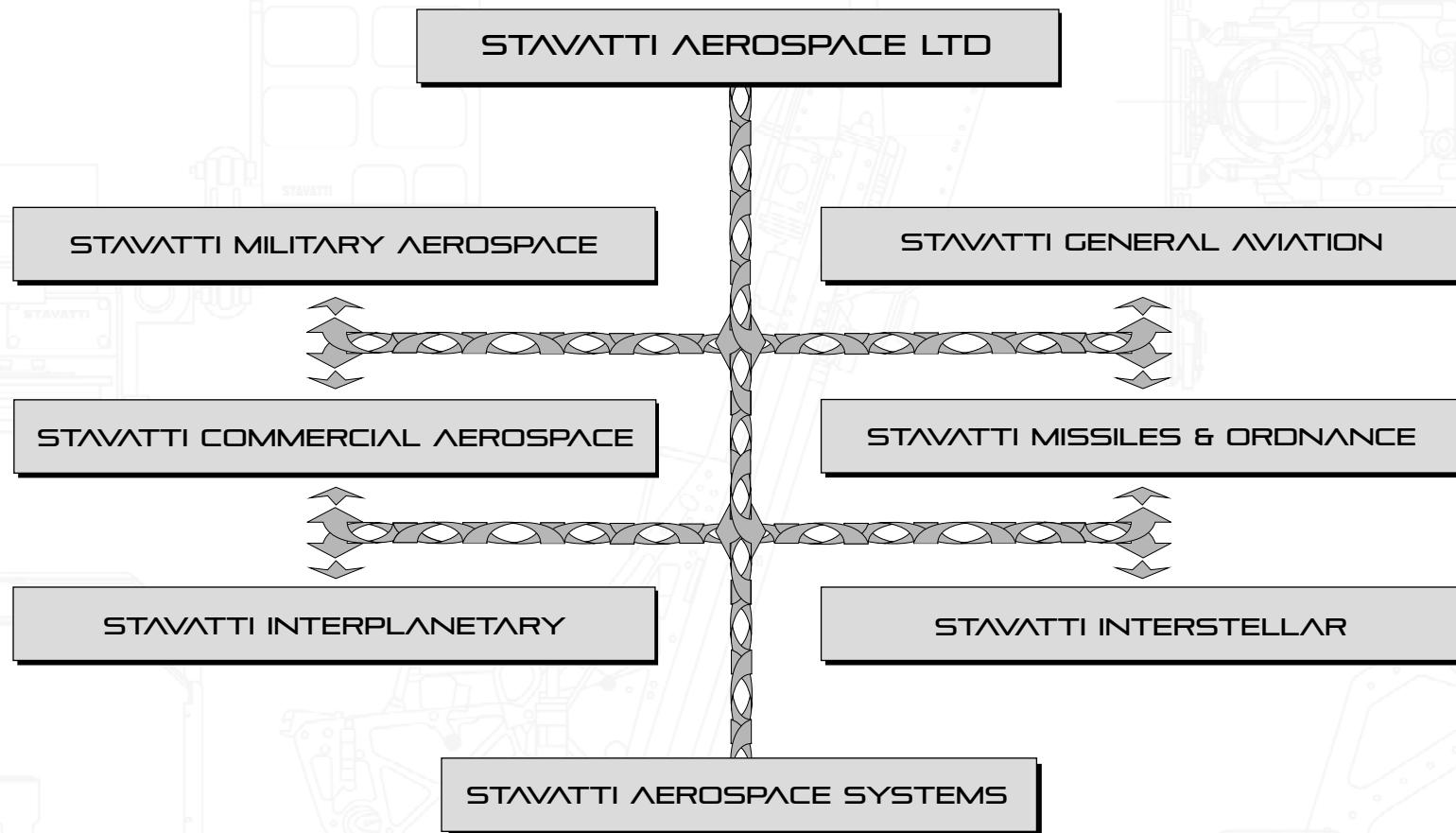
Gas Dynamic Directed Energy Weapons
Positron Warhead
Compact Air-To-Air Missile (CAAM)
Next Generation 20mm and 30mm Cannon Systems

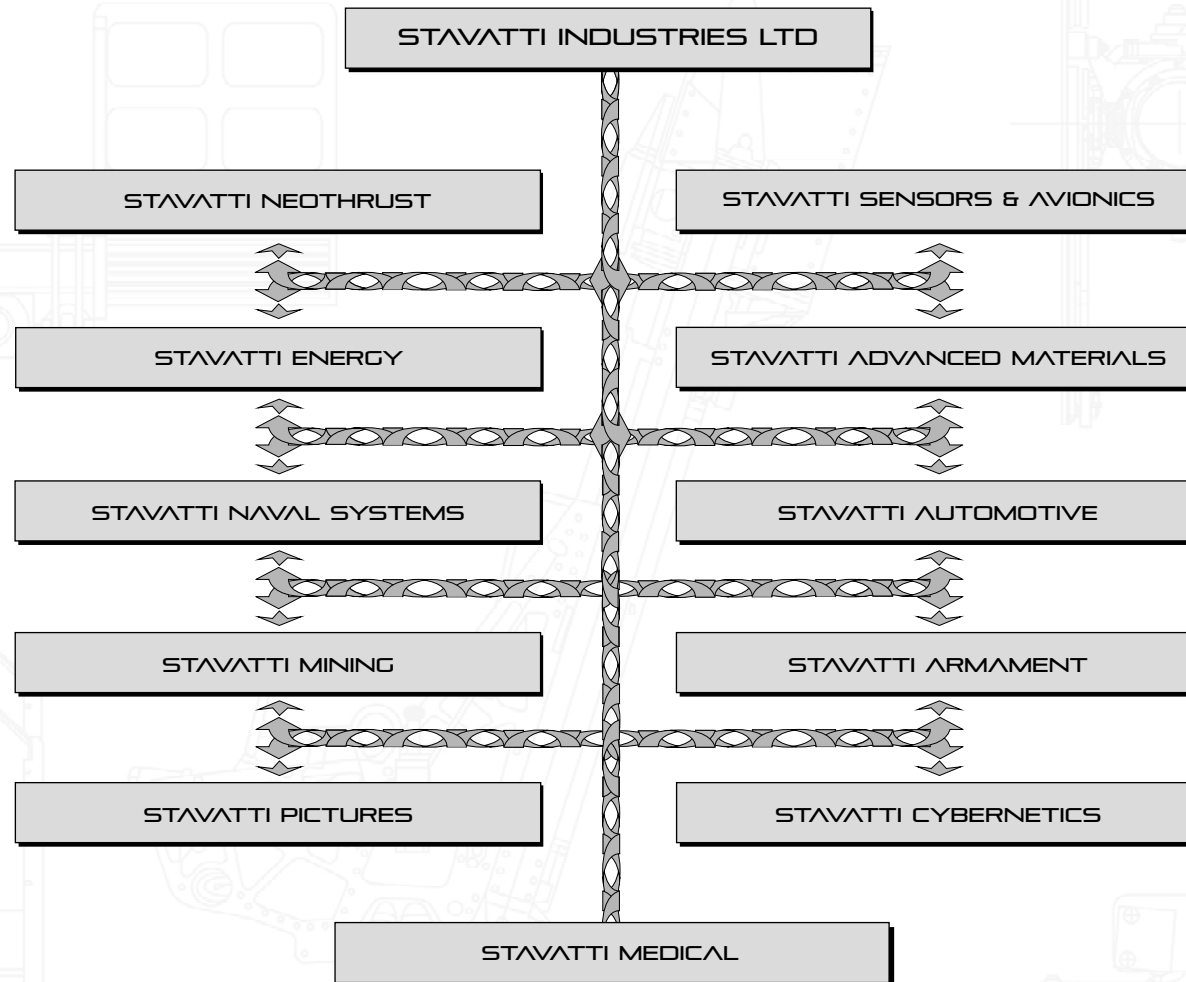
- Stavatti's Proposed 2M Plant will have a footprint of 2 Million sq ft and provide over 2 Million sq ft of combined office and aircraft manufacturing and assembly space.
- The 2M Plant is designed to manufacture 3 or more Stavatti aircraft models simultaneously under one roof and could serve as Headquarters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

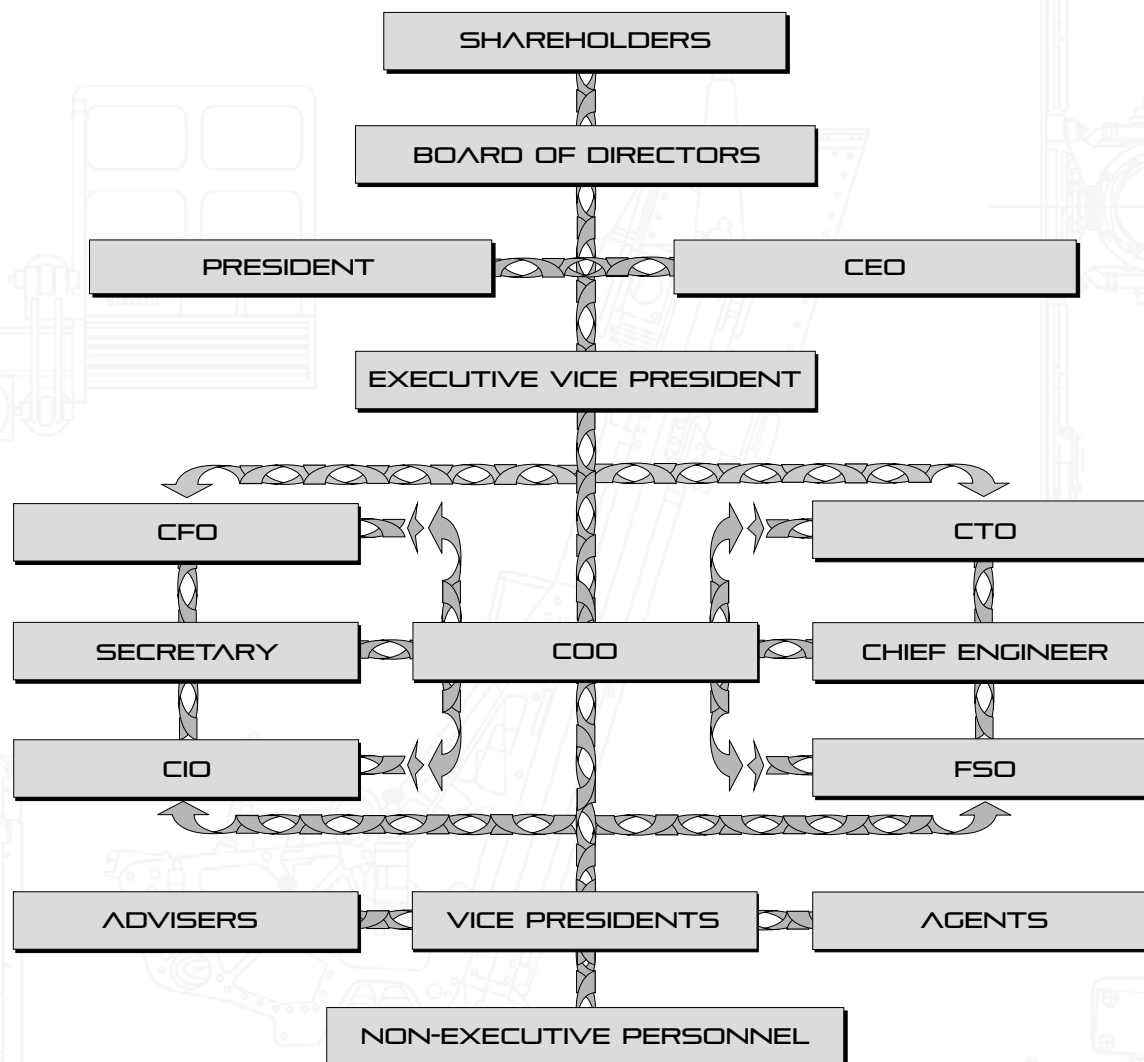


- Stavatti's has begun the site selection process for the 2M Plant and is evaluating more than 20 potential candidate sites at which to establish this facility.
- Ground-Breaking on the iconic 2M Plant is planned for 2024-2028.









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

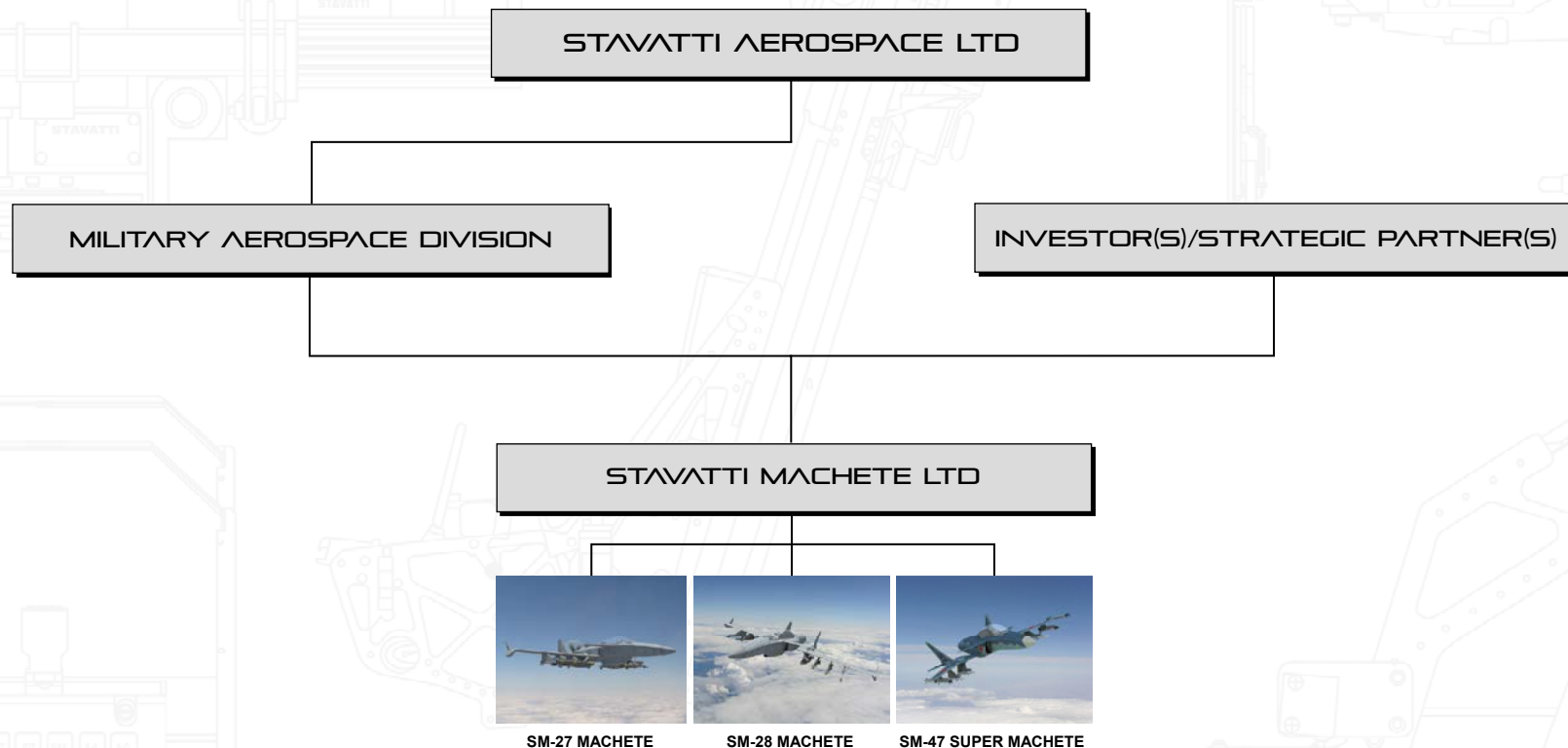
- **Best-in-Class Products**
- **Customer Success**
- **Mission Focus**
- **Responsibility and Patriotism**
- **Commercial Best Practices**
- **Employee Achievement and Success**
- **Revenue Creation**
- **Absolute Quality**
- **Leadership with Strategic Vision**
- **Individual Ability**
- **Continuous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

- **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

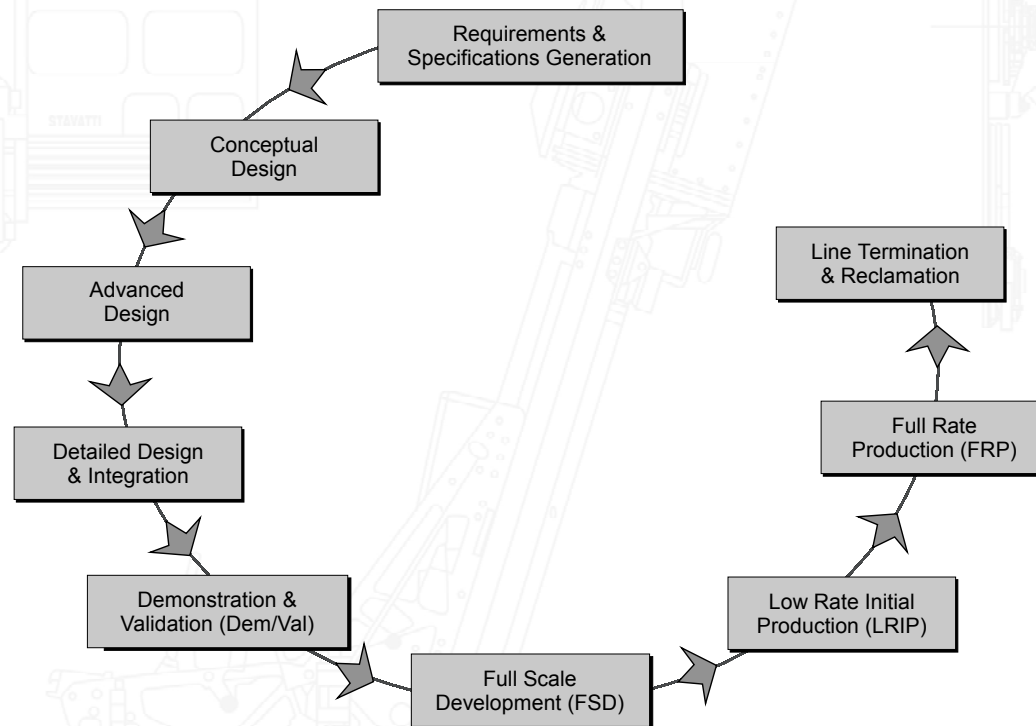
STAVATTI™

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:



STAVATTI AEROSPACE

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

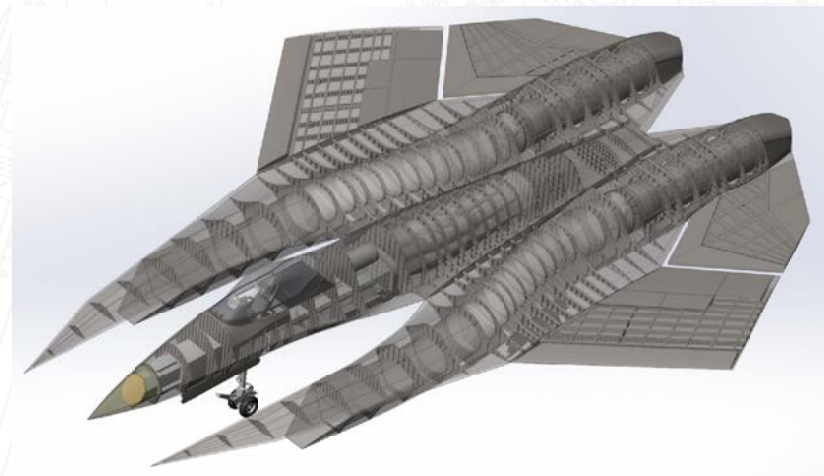
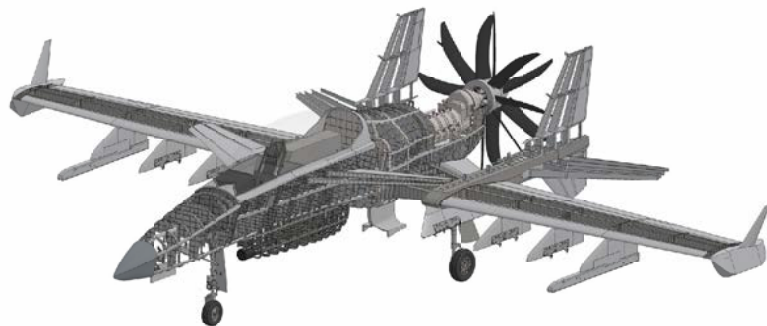


Implementing this process, Stavatti develops and delivers entirely new, advanced aircraft without sacrificing quality, performance or value.

ENGINEERING

STAVATTI™

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

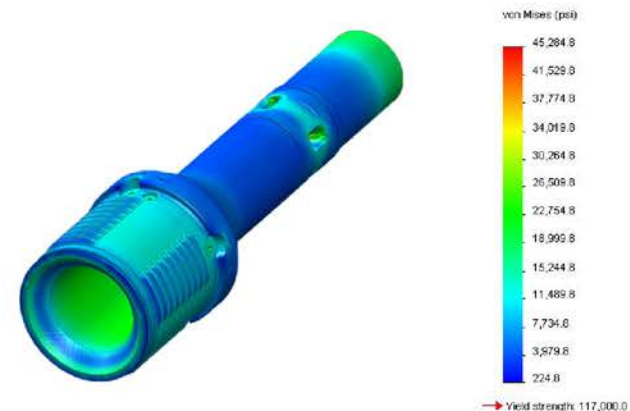
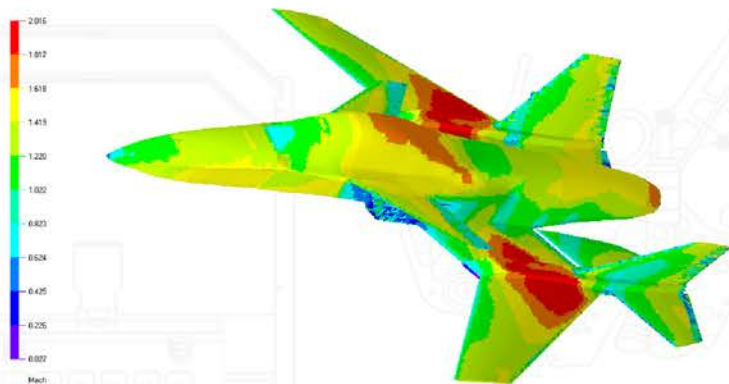
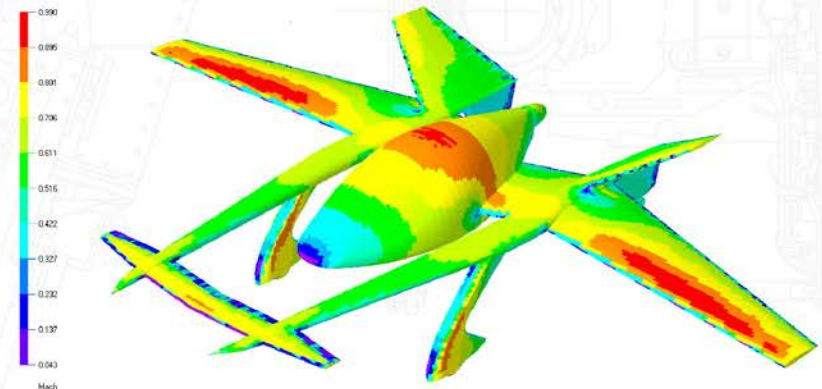
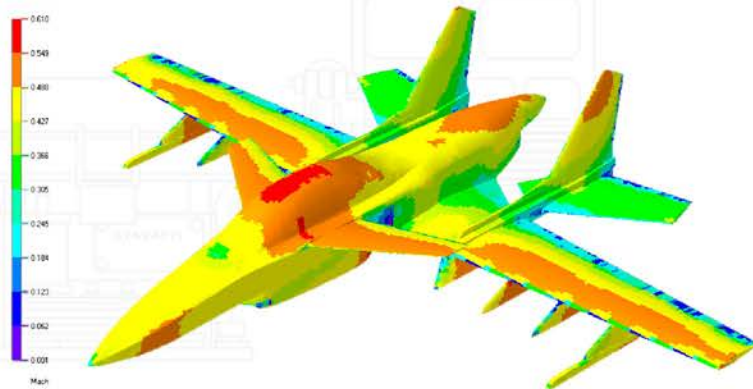


 **SOLIDWORKS**

 **CATIA**

STAVATTI AEROSPACE

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



- 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.

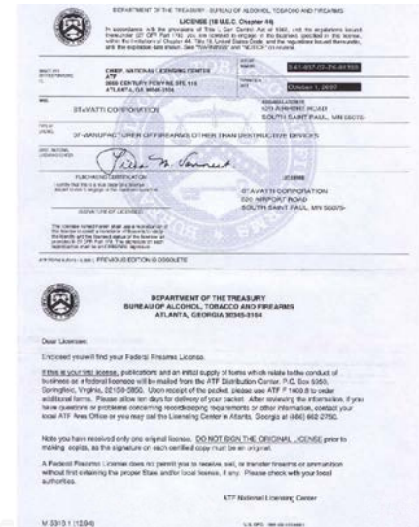
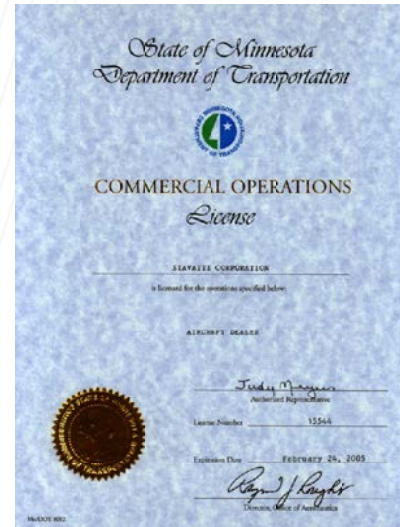
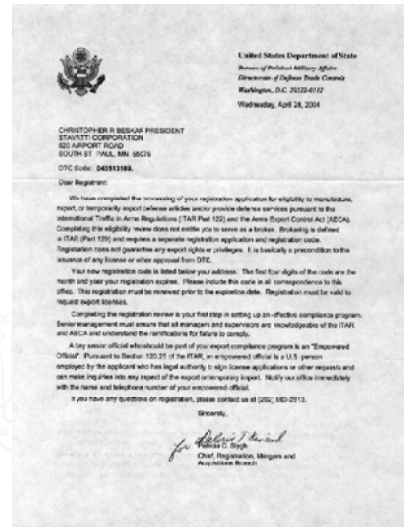


- Stavatti customers will benefit from full Contractor Logistical Support (CLS) of a comprehensive aerospace defense enterprise.
- Stavatti can provide CLS directly or can work with customers to establish organic logistical support.
- Stavatti will provide total procurement packages, including ground 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 Nose-to-Nozzle Manufacturers Limited Warranty on all new aircraft and 24/7 world-wide customer assistance.



STAVATTI™

- | | | |
|--|--|------|
| State of Minnesota | | 3589 |
| SECRETARY OF STATE | | |
| CERTIFICATE OF INCORPORATION | | |
| I, <u>Joan Anderson Green</u> , Secretary of State of Minnesota, do hereby certify that Articles of Incorporation, duly signed and acknowledged under oath, have been filed on this date in the Office of the Secretary of State, for the incorporation of the following corporation, under and in accordance with the provisions of the chapter of Minnesota Statutes listed below. | | |
| This corporation is now legally organized under the laws of Minnesota. | | |
| Corporate Name: <u>Stuvalit Corporation</u> | | |
| Corporate Charter Number: <u>81-135</u> | | |
| Chapter Formed Under: <u>363A</u> | | |
| This certificate has been issued on <u>07/24/1964</u> . | | |
|  | <u>Joan Anderson Green</u>
Secretary of State | |
| | -40777-1 | |



STAVATTI AEROSPACE

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

- 336411 Aircraft Manufacturing**
- 336412 Aircraft Engine and Engine Parts Manufacturing**
- 336413 Other Aircraft Parts and Auxiliary Equipment Manufacturing**
- 488190 Other Support Activities For Air Transportation**
- 336414 Guided Missile and Space Vehicle Manufacturing**
- 336415 Missile and Space Vehicle Propulsion Unit Manufacturing**
- 336419 Missile and Space Vehicle Auxiliary Equipment Manufacturing**
- 336111 Gas Turbines Except Aircraft Manufacturing**
- 332995 Aircraft Artillery Manufacturing**
- 332993 Ammunition Except Small Arms Manufacturing**
- 332994 Small Arms, Ordnance, and Ordnance Accessories Manufacturing**
- 333132 Oil and Gas Field Machinery and Equipment Manufacturing**
- 333131 Mining Machinery and Equipment Manufacturing**
- 332710 Machine Shop**
- 333249 Other Industrial Machinery Manufacturing**
- 332117 Powder Metallurgy Part Manufacturing**
- 541618 Other Management Consulting Services**

CONTACT

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