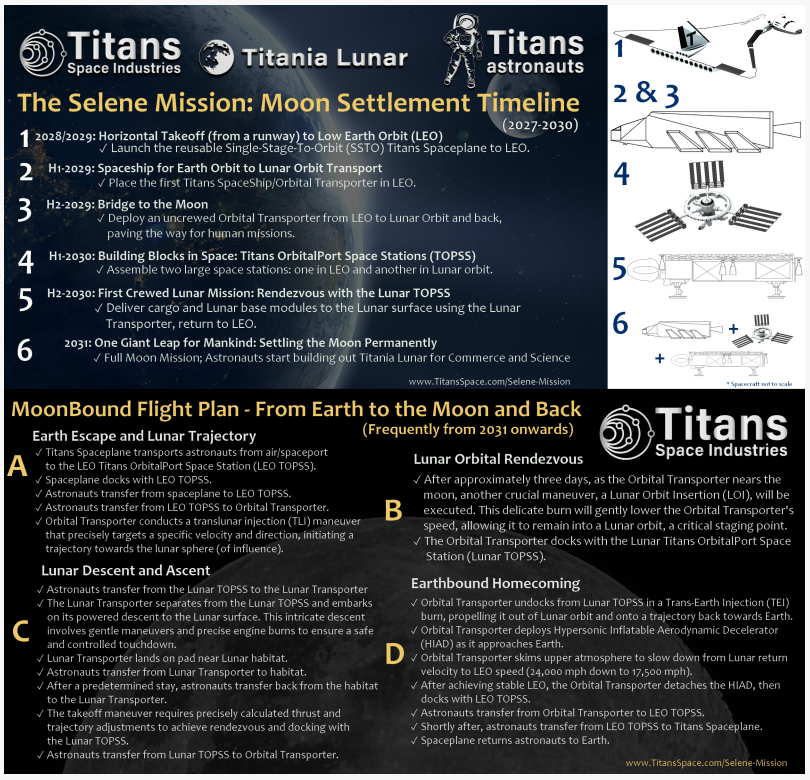
Titans Space to Revolutionize US Military Space Capabilities, Golden Dome, and Offer a 'Space Force One' for Pres. Trump

Only with a dynamic, innovative, and commercially driven partner like Titans Space Industries can the US accelerate its capabilities and secure its preeminence.

ORLANDO, FL, UNITED STATES, June 18, 2025 /EINPresswire.com/ -- Titans Space Industries (TSI), a pioneer in innovative cis-lunar space infrastructure, today announced its strategic entry into the military market, poised to deliver a comprehensive suite of advanced spacecraft and support systems. With key military-specific component development kicking off in Q1 2026, TSI is positioned to be the preeminent force in securing US leadership in the burgeoning new space race.



MoonBound End-to-End Cis-Lunar Transportation System

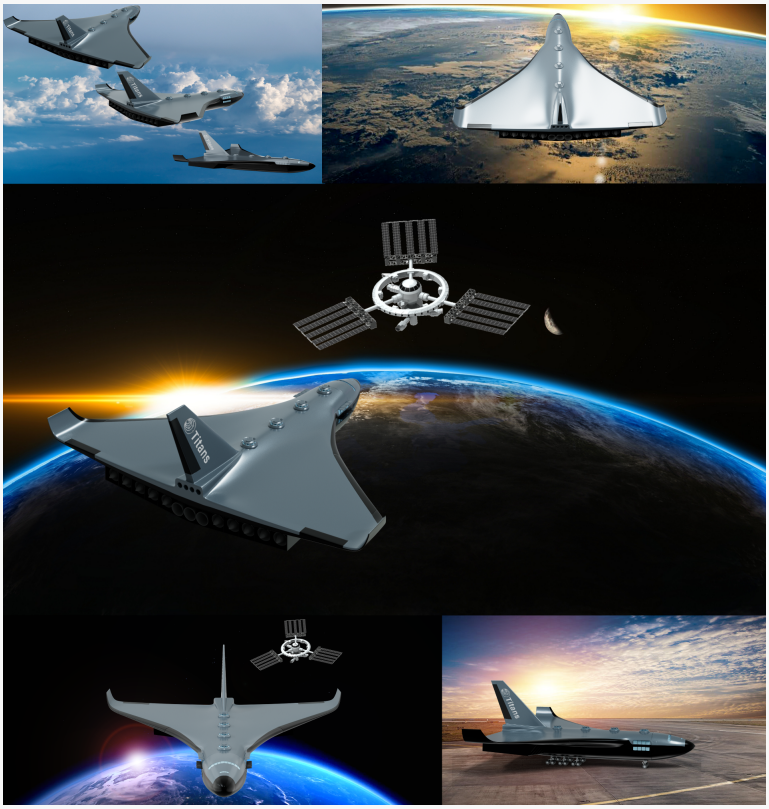
The Golden Dome: A Next-Generation Homeland Defense System

TSI is ready to be a crucial partner in President Trump's proposed "Golden Dome" missile defense system. This groundbreaking, multi-layered defense shield for the United States aims to detect and destroy ballistic, hypersonic, and cruise missiles, as well as other advanced aerial threats, either before or during their flight. Inspired by Israel's Iron Dome, the "Golden Dome" seeks to expand this protection to cover the entire American homeland.

TSI's primary role in the "Golden Dome" initiative would be the deployment of laser system stations developed by other entities. These stations would primarily function as directed energy weapons for intercepting missiles and warheads.

TSI's contribution to the "Golden Dome" would leverage its unparalleled capabilities in space deployment and maintenance, which include:

- Deployment and Maintenance of Space-Based Assets: TSI's spaceplanes and heavy-lift launch capabilities can be used for the rapid deployment and ongoing maintenance of critical space-based assets essential for the "Golden Dome" system's effectiveness.
- Surveillance and Interceptor Satellites: TSI can deploy and service constellations of small, highly capable surveillance satellites that provide enhanced early warning and tracking for the "Golden Dome." Furthermore, TSI's capabilities extend to deploying rapid-response space-based interceptor satellites, ensuring a global network to neutralize threats from any direction.



Titans Spaceplane and Titans OrbitalPort Space Station in Low-Earth Orbit

TSI's technologies will enable the creation of a truly robust and resilient "Golden Dome," showcasing the synergistic capabilities of commercial space innovation for national security. It's important to note that TSI could also design and develop these directed energy technologies and capabilities if required by the government.

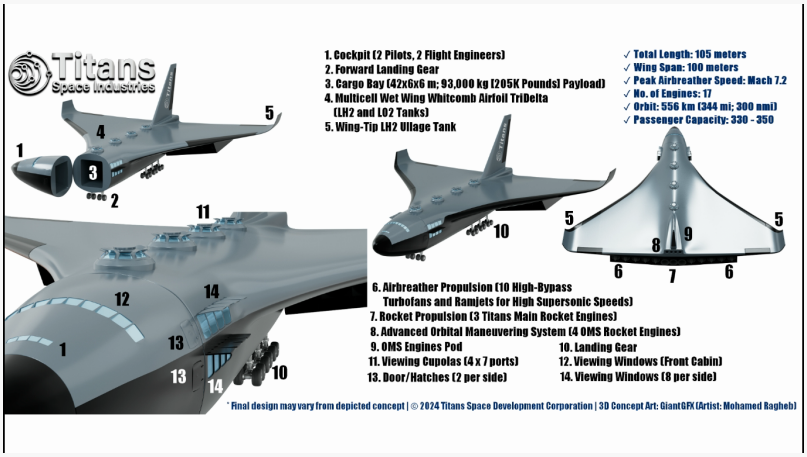
> Titans Space Industries is not just building spacecraft; it is building the future of American leadership in space and reimagining the very concept of presidential mobility."
>
> *Titans Space Industries*

TSI's offerings to the defense sector will provide unparalleled capabilities across the spectrum of space operations:

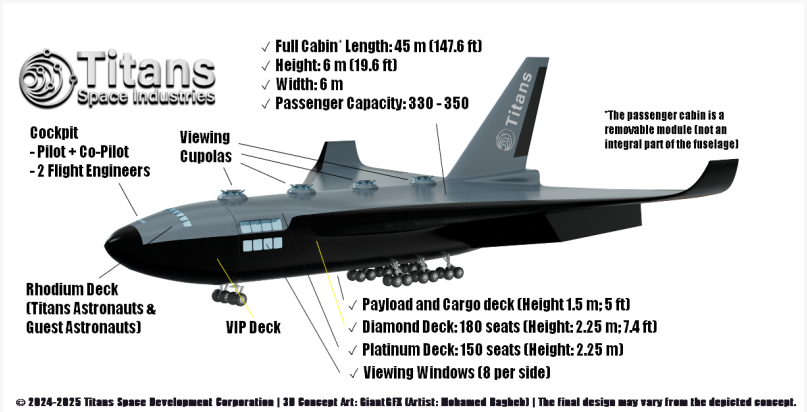
- Spaceplanes for Military Use: TSI's proprietary spaceplane technology will be adapted for military applications, offering rapid deployment, high-fidelity reconnaissance, and agile in-orbit logistics. Their reusability and ability to operate from conventional airfields will provide a significant strategic advantage for responsive global access and national security missions.

- Titans Spaceplane Specifications: These revolutionary single-stage-to-orbit (SSTO) vehicles are designed for horizontal takeoff and landing (HTHL), operating from any partnered large airport.

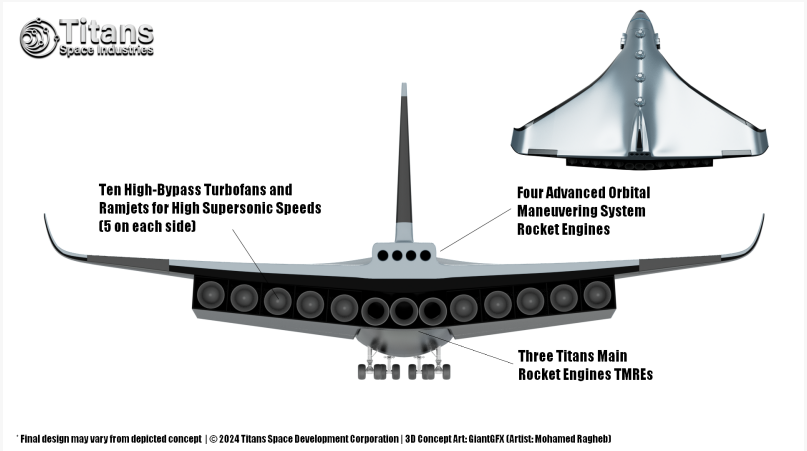
They utilize a multi-cycle airbreather propulsion system to reach the top of the troposphere, then ignite their powerful rocket engines for the final ascent to Low-Earth Orbit (LEO).
-- Payload Capacity: Up to 100 tons into a 555-km (300 nmi) orbit.
-- Crew/Passenger Capacity: Can carry 15 to 330 astronauts for orbital missions, with sub-orbital variants able to carry up to 800 persons.
-- Engine Systems: Equipped with three separate engine systems:
---- Airbreather Propulsion: 10 engines for atmospheric flight.
---- Rocket Propulsion: 3 Titans Main Rocket Engines for orbital insertion.
---- Orbital Maneuvering System (OMS): 4 engines for in-space maneuvers.
-- Safety Features: Incorporate unique safety measures, including a modular passenger cabin with emergency egress options, fireproof ceramic blankets, and "Spacepod" encapsulated seats that provide individual breathable atmospheres and ECLSS in case of depressurization. Pilots and crew wear IVA suits for enhanced safety and mobility.
-- Operational Flexibility: Capable of ultra-fast sub-orbital or orbital point-to-point (P2P) travel or cargo delivery on Earth, reaching any partner airport within 90-180 minutes.
-- (Sub-)Orbital Apogee: Up to 200 km (124 miles) for sub-orbital flights, or up to 300 km (186 miles) for orbital cruises.



Titans Spaceplane Design Overview



Titans Spaceplane Passenger Cabin Details



Titans Spaceplane Triple-Engine System

- Space Launches: Leveraging its spaceplane fleet, TSI will provide highly reliable and cost-effective space launch services for military payloads, including the rapid deployment of critical satellites and experimental platforms into diverse orbits.

- Point-to-Point Transport: TSI's advanced sub-orbital and orbital transport capabilities will

enable ultra-fast point-to-point delivery of up to 800 personnel and high-value cargo anywhere on Earth in 60 minutes, drastically reducing response times for critical military and humanitarian operations.

- Cislunar Transportation: As the cislunar domain becomes increasingly vital for strategic advantage, TSI will establish robust transportation infrastructure for secure and efficient movement of military assets and personnel between Earth and the Moon, and within lunar orbit.

- Lunar Base Development: Building on its expertise in lunar exploration and infrastructure, TSI will develop and operate numerous lunar bases and outposts, providing essential heavy-lift capabilities, habitat modules, and life support systems for sustained human presence on the Moon.

- Microgravity Research: TSI's platforms will facilitate critical microgravity research for military applications, encompassing advanced materials science for lighter, stronger components, pharmaceutical development for astronaut health, and fluid dynamics studies for enhanced propulsion systems.

- Titans Fighter Jet: The TFJ is a highly maneuverable jet that will be attractive to buyers looking for a lowcost, high-performance light fighter jet with low operational costs; it is an excellent option for military, surveillance, and research purposes. The TFJ can land on and take off from any suitable runway as well as any long, straight stretch of highway. The latter ability makes the TFJ useful in regions where an airport may not be available or occupied by enemy forces.

- Hypersonic Research: At its state-of-the-art Titans Works Innovation and R&D Center, TSI is conducting extensive hypersonic research, including advanced aerodynamics and thermal management. This will directly contribute to the development of superior high-speed vehicles for military reconnaissance, rapid strike, and advanced transport.

- Rocket Engine Development: TSI is developing a new generation of high-performance, reusable rocket engines designed to meet the rigorous demands of military missions, emphasizing reliability, efficiency, and scalability for a wide range of payloads.

- Modified Jet Engine Development: Complementing its rocket propulsion, TSI is also enhancing and modifying jet engines for multi-modal aerospace platforms, optimizing performance across diverse flight envelopes, from atmospheric flight to high-altitude and orbital operations.

Beyond these tangible assets, TSI is investing heavily in the human element:

- A trained astronaut workforce will be available from 2028 onwards, capable of executing complex in-space operations.
- This will be further augmented by a force of highly specialized mission specialists from mid-

2029 onwards, ensuring the expertise required for intricate and critical missions.

Crucially, TSI's capabilities extend to vital future-forward technologies and resource utilization:

- Nuclear Power and Propulsion at Titans Works Innovation and R&D Center: TSI's dedicated Titans Works Innovation and R&D Center will develop advanced nuclear power and propulsion systems. This includes the development of compact nuclear reactors for sustained power generation on lunar bases and in deep space, as well as nuclear thermal and nuclear electric propulsion systems that will dramatically reduce transit times for critical military and scientific missions. This is a game-changer for sustained off-world operations.

- Lunar Communications: Recognizing the need for robust off-world connectivity, TSI is developing advanced lunar communication networks, essential for secure military operations, data transfer, and command and control in the cislunar domain and on the lunar surface.

- Space-Based Solar Power: TSI will actively develop and integrate space-based solar power systems. These massive orbital arrays will harness limitless solar energy in space and beam it to Earth or other off-world installations, providing a secure, resilient, and virtually inexhaustible energy source for military and civilian applications alike, reducing reliance on terrestrial energy grids.

- Lunar Mining, including KREEP: TSI will utilize the most advanced lunar mining technologies, with a focus on extracting valuable resources from the Moon. This includes the extraction of KREEP (Potassium, Rare Earth Elements, Phosphorus), vital for advanced manufacturing and propulsion, reducing the need to launch materials from Earth.

- Lunar Helium-3 at Industrial Scale: A cornerstone of TSI's long-term vision is the extraction and processing of lunar Helium-3 at an industrial scale. This rare isotope is a highly sought-after fuel for Earth-based applications and future fusion power reactors, offering a clean and abundant energy source. TSI's ability to mine and deliver Helium-3 in large quantities will provide an unparalleled strategic energy advantage to the United States.

The Case for US Dominance with Titans Space Industries

In this new era of space competition, often dubbed the "New Space Race" and the "New Lunar Race," the United States cannot afford to cede ground. Only with a dynamic, innovative, and commercially driven partner like Titans Space Industries can the US truly accelerate its capabilities and secure its preeminence.

Traditional government-led space programs, while essential, often face bureaucratic hurdles and slower development cycles. TSI's agile, entrepreneurial approach, coupled with its unprecedented scale and breadth of integrated capabilities – from advanced propulsion and industrial-scale resource extraction to human capital development and cislunar infrastructure –

provides a decisive edge.

Titans Space Industries offers the critical mass and integrated solutions necessary to:

- Earth Defense: TSI's spaceplanes, with their rapid response capabilities and maneuverability, are envisioned as the most agile vehicles for Earth defense missions, particularly for asteroid detection, deflection, and potentially destruction. Their ability to quickly launch, reach high speeds, and deliver kinetic impactors or other payloads makes them ideal for mitigating potential asteroid threats with minimal warning time.

- National Security, Surveillance, Reconnaissance, Observation: TSI's spaceplanes and satellite platforms can be custom-designed for advanced national security, surveillance, reconnaissance, and observation missions. Their rapid deployment, persistent presence, and ability to operate in suborbital and various orbital regimes will provide unparalleled intelligence-gathering capabilities, enhancing global situational awareness for the US.

- Win the New Space Race: By enabling rapid deployment, resilient communication, and on-orbit servicing, TSI will solidify the US's strategic advantage in Low Earth Orbit and beyond, ensuring space superiority.

- Win the New Lunar Race: TSI's commitment to lunar base development, resource extraction, and cislunar transportation will allow the US to establish a robust and sustainable presence on the Moon, unlocking its vast potential for scientific discovery, economic prosperity, and strategic advantage.

- Establish Large-Scale Presence Off-World: With TSI's foundational infrastructure, including the Titans OrbitalPort Space Stations and lunar bases, the US can rapidly expand its footprint in LEO, on the Moon, and eventually, to Mars, paving the way for a truly multi-planetary civilization.

Titans Space Industries to Build "Space Force One" for Presidential Transit

In a groundbreaking initiative that underscores its commitment to national prestige and strategic capabilities, Titans Space Industries is proposing to design, build, and operate a dedicated presidential space transport, provisionally dubbed “Space Force One,” for President Donald J. Trump. This would be facilitated through a special, long-term leasing arrangement, possibly operated by TSI and the Air Force or Space Force, ensuring exclusive access and operational control for presidential missions.

Benefits and Unique Status Symbol

- The Titans Spaceplanes Can Be Custom Designed for Space Force One: Leveraging its expertise in advanced spaceplane design, TSI will custom-engineer "Space Force One" to the President's precise specifications. This bespoke design will prioritize security, comfort, and state-of-the-art

communication capabilities, making it a truly unique presidential platform.

- Unparalleled Global Reach: "Space Force One" would leverage TSI's advanced spaceplane technology, enabling rapid (sub-orbital or orbital) point-to-point transport to any location on Earth within 60 minutes, far surpassing the speed of conventional air travel. This provides the President with unprecedented mobility in times of crisis or for urgent diplomatic missions.

- Orbital Command and Control: The highly customized interior of "Space Force One" could function as a fully integrated, secure command and control center in orbit, offering a resilient platform for the President to direct national and global operations from beyond terrestrial threats.
Unique Status Symbol: The existence of a dedicated presidential spaceplane would be an unparalleled global symbol of American technological prowess, innovation, and leadership in space. It would project an image of power and foresight, setting a new benchmark for national prestige that no other nation could currently match.

- Enhanced Security: Operating in orbit, "Space Force One" would offer an inherently more secure environment than any terrestrial or atmospheric aircraft, providing unparalleled protection for the Commander-in-Chief from conventional and emerging threats, including cyber and physical attacks.

- Cutting-Edge Diplomatic Tool: The ability to transport the President to international summits via a spaceplane, or even host dignitaries in a special orbital module, would provide a unique diplomatic advantage and an awe-inspiring platform for international engagement.

How it Would Work

Under the proposed special leasing deal, Titans Space Industries would be responsible for the design, construction, and maintenance. Flight operations of "Space Force One" would be managed by TSI along with a special task force of the Air Force or Space Force. This would include:

- Customization: The spaceplane would be extensively customized to meet the specific requirements of presidential transport, including secure communications, advanced life support systems for extended orbital stays, state-of-the-art office facilities, and executive-level amenities, all built to the highest standards of resilience and redundancy.
- Dedicated Crew and Support: TSI would provide a dedicated, highly trained crew of pilots and mission specialists, drawn from its elite astronaut workforce, ensuring seamless and secure operations for all presidential missions. This team would undergo specialized training tailored to presidential security protocols and be cleared for top-secret operations.
- Operational Integration: "Space Force One" would integrate fully with existing military and civilian command structures, ensuring robust communication and coordination with the Secret Service, White House Military Office, and the Space Force for mission planning, execution, and

security.
- Financial Model: The long-term leasing arrangement would provide cost predictability for the government, shifting the significant capital expenditure and ongoing maintenance burdens to TSI. This innovative approach allows the President to access cutting-edge space travel capabilities without the immediate financial burden of outright ownership, ensuring access to the most advanced and secure form of transportation available.

Titans Space Industries is not just building spacecraft; it is building the future of American leadership in space and reimagining the very concept of presidential mobility. By leveraging TSI's comprehensive capabilities, the United States can ensure its continued dominance, safeguard its national security, and unlock the boundless opportunities that lie off-world, including the ultimate symbol of global power: "Space Force One."

About Titans Space Industries

Titans Space Industries (TSI) is dedicated to developing safe, innovative, and cost-effective cis-lunar space exploration technologies. The company is committed to making space accessible to all and is working to develop a variety of spaceflight programs, including human spaceflight, cargo transportation, and space exploration. TSI's vision is to lead the way in making space travel a reality for millions of people around the world.

With a combined 600 years of experience in business and aerospace, TSI's founding team boasts an unparalleled depth of knowledge and expertise. This seasoned leadership brings together the sharpest minds in both fields, ensuring strategic brilliance and operational excellence. Further amplifying this expertise, the company's development of factories and facilities throughout the U.S. will be under the leadership of a senior management team with a combined 1,000 years in aerospace, including director roles of the NASA Space Shuttle program and ISS missions. This wealth of hands-on experience guarantees the highest standards in manufacturing, safety, and innovation for all Titans Space projects.

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