



Aviation ! Aerospace ! Defence ! Space ! Titanium ! Mining !



taail.com



india-tdsl.com



india-tgssl.com



titangroup.in

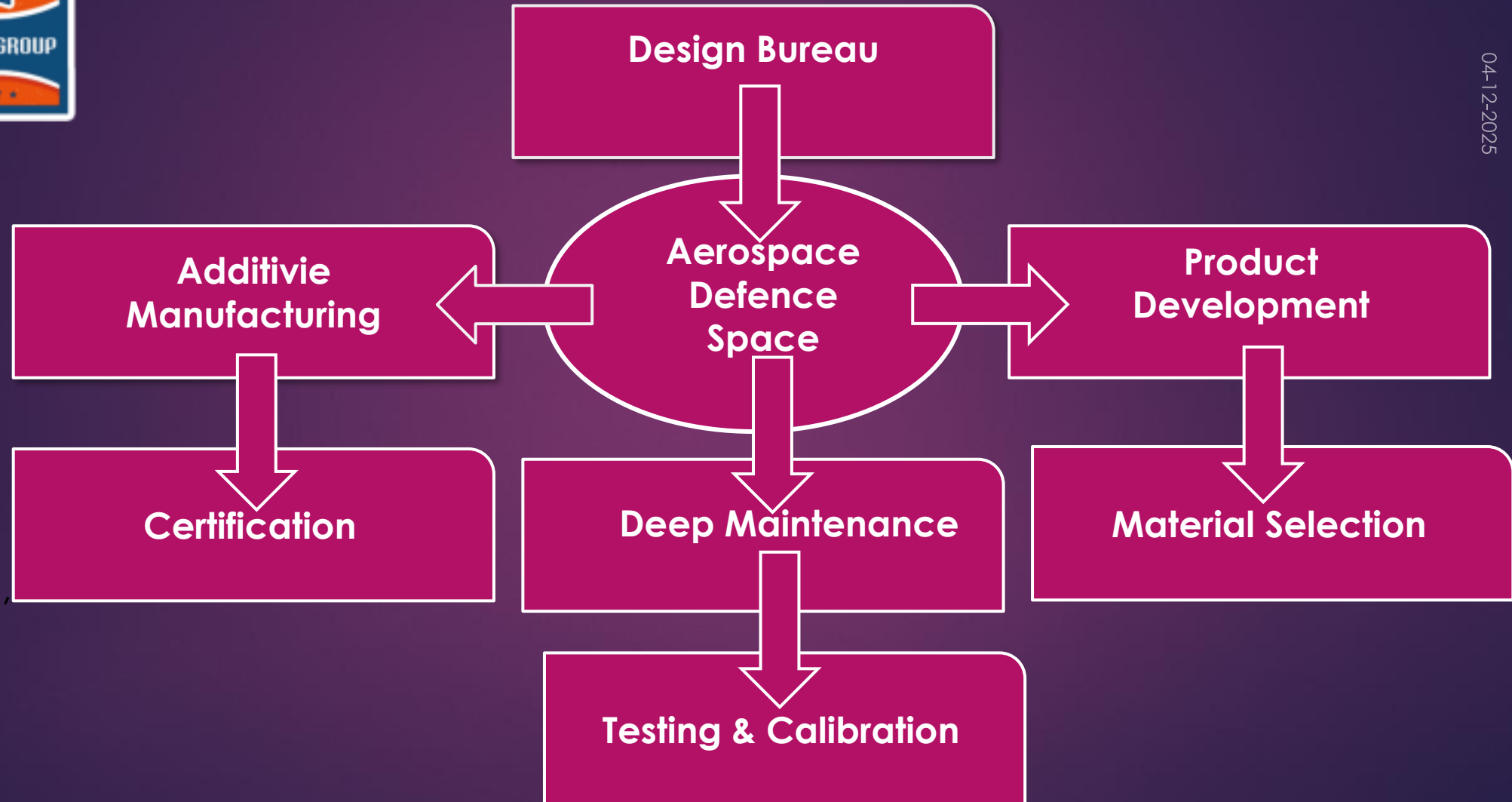
www.titangroup.in



Proposed Components in the Projects

2

04-12-2025





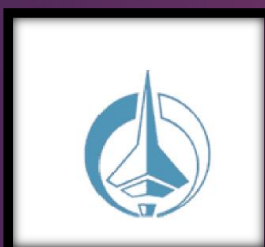
ANTONOV
Aircraft



YUZHMAH
Missile

InterAvia corp
Sea Planes

Titan Group Collaborators



Engine Repair



IPMS

TAHA UGV
Unmanned Land Vehicles



Engine & Heli



NextMetals



Aviation University



UltiMetX



Anti Drone Guns & Drone
Detection Radar



Team Titan

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04-12-2025



Gen Sharma



Giri



Dinesh



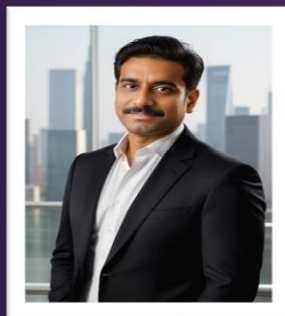
Srikanth



Sridhar



Raj



Anil



Sekhar



Santosh



Dilip



Dr Khan



Manju



Overseas Team

04-12-2020



Chechel



Benton



Los



Lyubomir



Tit



Adamovich



Vadym



Oleksander



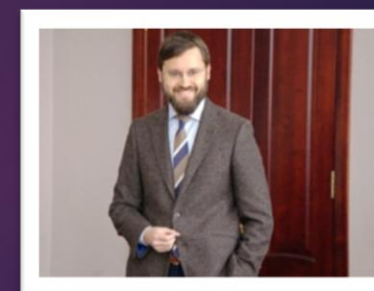
Vlashyen



Aleksey



Voith



Usov



Proposed Site for Aerospace

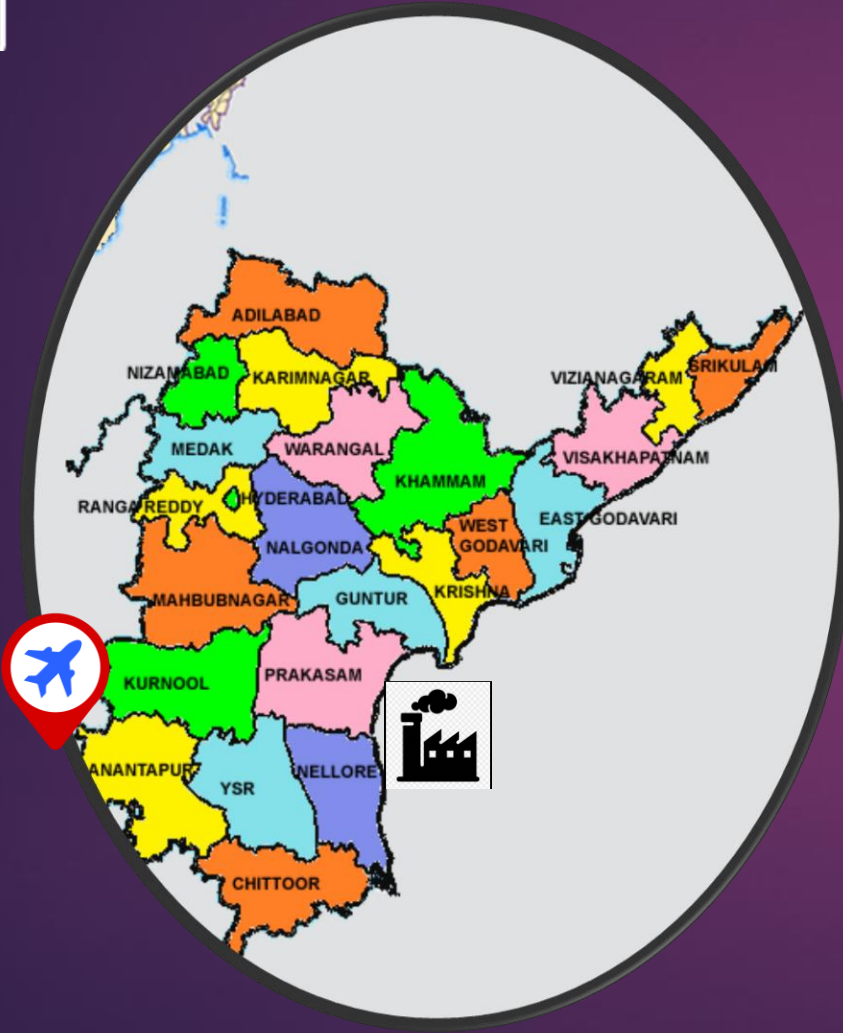


Titan Aerospace intends to lease or acquire Kurnool Airport for captive use.

(MRO) Maintenance Repair Overhauling for Aircrafts and Helicopters will be performed here Along with Simulators for civil aircrafts and helicopters.



Proposed Site for Defence Production

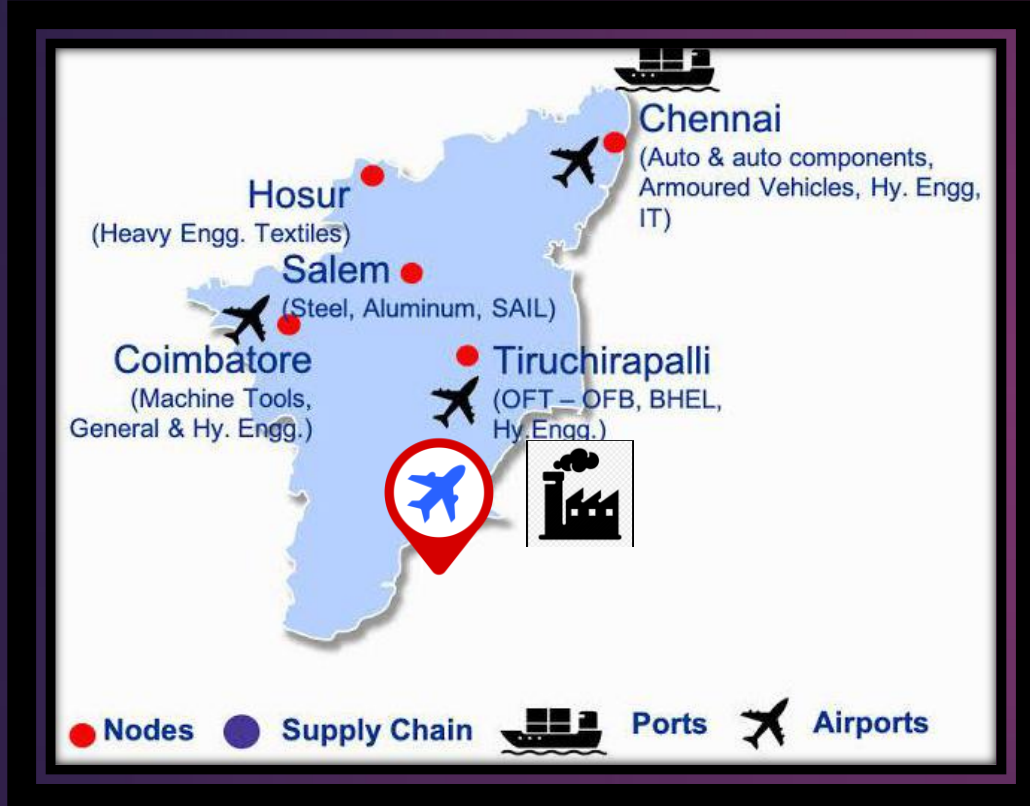


Titan Defence is proposing to establish additive manufacturing for aerospace and defence verticals in Donakonda Defence Corridor or Kurnool Defence Cluster in Andhra Pradesh. This includes Aircrafts, Helicopters, Drone, Engines, Combat Vehicles, Body Armor Jackets.





Proposed Site for Defence Production



Titan Defence has a land allotment of 6000 Acres in Tamil Nadu Defence Corridor in Madurai Node. Titan proposes to establish additive manufacturing for aerospace and defence verticals.

This includes Aircrafts, Helicopters, Drone, Engines, Combat Vehicles, Body Armor Jackets.





Common Facility Center for Aerospace, Defence, Space

3-D Printed Components & Accessories



**A Common Facility Center with Additive Manufacturing Facility for Aerospace Defence
& Space Verticals by Using 3-D Printers**



Heli Hoping Air Ambulance & Development of Heliports

TDSL intends to create Heliports at all District Head Quarters in the State of Andhra Pradesh

TDSL will deploy Helicopters for Highway Patrolling & Air Ambulance

TDSL intends to create Airfield & MRO Facilities at Donokonda Node in AP





Activities in Aviation Vertical

Civil Sims, Air Charters, Aviation University

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04-12-2025



Full Flight Simulators for Aircrafts & Helicopters, Air Charters with Double Engine & Pressurized Cabins, Skill Development through National Aviation University (Ukraine)



Product Line in Aerospace Vertical

12

04-2-2025



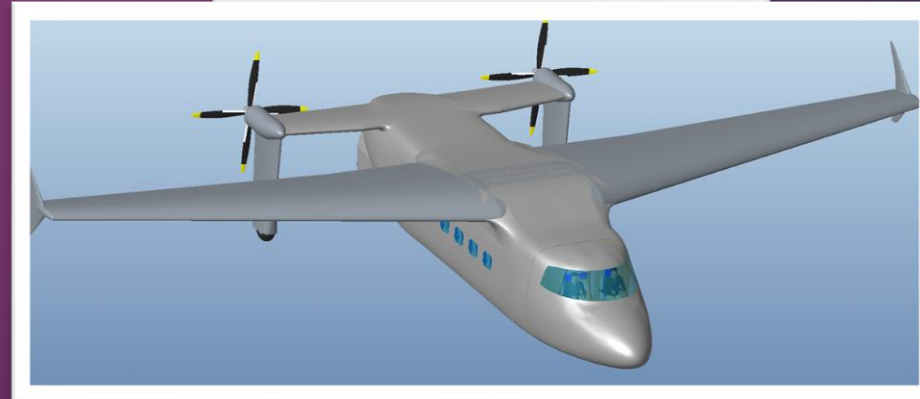
Leasing of Airport, MRO for An 74 Family this Includes An 32, An 74, An 148 An 158, An178. Mi-18, Mi-17 and Mi-171 Helicopters.



Product Line in Aerospace Vertical

13

04-12-2025



Assembly Line to Production Line for Aircrafts, Sea Planes
including Test and Certification



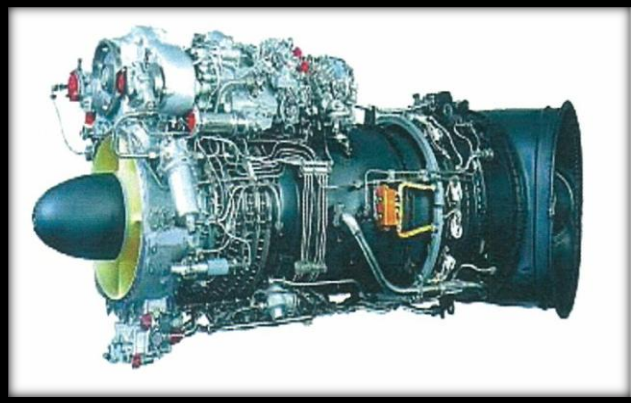
Product Line in Aerospace Vertical



Manufacturing of different variants of Helicopters like Single & Dual Engine with VIP and Passengers Cabin Configuration or Combo of both Passenger & Cargo or Convertible Cabins from VIP to Passenger or vice versa



Product Line in Aerospace Vertical



04-12-2025

Manufacturing of Large Commercial Aero Engines for Aircrafts, Helicopters like Turbo Jet, Turbo Prop and Turbo Propop. In addition to this Engines for Drones, Combat Vehicles and Satellites.



Product Line in Defence Vertical

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04-12-2022



Body Armor Jackets, Tactical Suits, EOD Bomb Disposal Suits, Riot Suits, Riot & Tactical Suits for Working Dogs



Product Line in Defence Vertical

17

04-12-2025



BALLISTIC HELMETS



COVERALLS



Head Gear and Accessories for Soldiers



Product Line in Defence Vertical Short Arms & Automated Rifles

18

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Product Line in Defence Vertical

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Drill cartridges

TECHNICAL DATA

Available calibres: 9x19mm, 40 S&W, 45 ACP, 4.6x30mm, 5.66x45mm, 7.62x51mm, 7.62x39mm, 12.7x9mm, 12 shotshell
Other calibres upon customer's request.

Plastic drill cartridges

- Cartridge case made from plastic PE +30NFG with self lubricating additive
- Base of cartridge made from brass or aluminium
- Rubber buffer in base for firing pin protection
- Cartridges provided in orange colour or upon customer's request



Brass and steel drill cartridges

- Cartridge made from Brass
- Cartridge made from Steel



7.62x39mm plastic blank ammunition

TECHNICAL DATA

Designation 7.62x39 plastic blank ammunition
Calibre 7.62x39mm
Product number 500052
Cartridge material PE HD
Base 2x410
Primer brass, larger rifle
Propellant NC powder
Colour red
Cartridge weight ~6.5g
Operational temp. range -20°C to +50°C

Storage Temperatures and conditions as for live ammunition.
Long term storage: -10°C to +30°C at 40 up to 80%
Long term storage conditions to be valid only for ammunition stored in original closed outer packaging.
30 years during long term storage in warehouse.
Shelf life 1.45, UN0014
Hazard code

USE

Refills

Firing modes

All versions of AK-47 rifles in calibre 7.62x39
Semi-auto and full-auto mode with AREX blank firing attachment.
Handling and firing as with live ammunition.

3-meters front of the muzzle with AREX blank firing attachment.

PACKING

Marking and packing: In accordance with STANAG 2951 ADP-2 and regulations of ADIR, RIG, NATO CODE and USA DGR
Inner packaging: 30 rounds in inner cardboard box
Intermediate packaging: Waterproof sealed plastic bag
Outer packaging: Cardboard box, 63 inner boxes, total of 1,890 cartridges
wooden box: 78 inner boxes, total of 2,340 cartridges
Packing and marking could be done according to customer's requirements.



TECHNICAL DATA

Designation 9x19 NLA Non-Lethal rubber bullet ammunition
Calibre 9x19mm
Cartridge case Plastic PE HD - blue colour
Bullet Rubber - BS 30A - yellow colour
Bullet weight 1.07g
Base 2x410
Primer SP base, Non-toxic and Non-Corrosive
Weight ~2.5g
Operational temp. range -20°C to +50°C
Shelf life 5 years
Storage Temperatures and conditions as for live ammunition
Hazard code 1.45, UN0012

MAIN CHARACTERISTICS

- The plastic, special rubber material and cartridge construction result in optimum performance from our rubber bullet ammo providing for Non-Lethal effect at optimum distance.
- Blue coloured cartridge case and yellow bullet provides an additional instant visual reference as Non-Lethal ammo avoiding user mistakes by reducing likelihood of mixed Non-Lethal and live ammunition.
- Low noise and weapon recoil.
- Weapon operates with hand cycling for single shot by shot shooting. No automatic or semi-automatic shooting.

USE

Weapons

Firing mode

Purpose of use

Training and target shooting

semi-automatic pistols in calibre 9x19
single shot by shot with hand cycling
Rear control
Training and target shooting

STANDARD PACKING

30 rounds in plastic tray / inner box, 3,000 rounds in cardboard box
or
30 rounds in plastic tray / inner box, 3,000 rounds in wooden box
Packing and marking could be done according to customer's requirements.



TECHNICAL DATA

Designation 7.62x39 NLA Non-Lethal rubber bullet ammunition
Calibre 7.62x39mm
Cartridge case Plastic PE HD - blue colour
Bullet Rubber - BS 30A - yellow colour
Bullet weight 1.07g
Base 2x410
Primer NC powder
Weight ~6.4g
Operational temp. range -20°C to +50°C
Shelf life 5 years
Storage Temperatures and conditions as for live ammunition
Hazard code 1.45, UN0012

MAIN CHARACTERISTICS

- The plastic, special rubber material and cartridge construction result in optimum performance from our rubber bullet ammo providing for Non-Lethal effect at optimum distance.
- Blue coloured cartridge case and yellow bullet provides an additional instant visual reference as Non-Lethal ammo avoiding user mistakes by reducing likelihood of mixed Non-Lethal and live ammunition.
- Low noise and weapon recoil.
- Weapon operates with hand cycling for single shot by shot shooting. No automatic or semi-automatic shooting.

USE

Weapons

Firing mode

Purpose of use

Training and target shooting

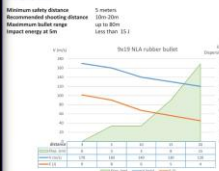
refills in calibre 7.62x39
single shot by shot with hand cycling
Rear control
Training and target shooting

STANDARD PACKING

30 rounds in cardboard box, 2,340 rounds in wooden box
or
30 rounds in cardboard box, 1,890 rounds in outer cardboard box
Packing and marking could be done according to customer's requirements.



BALLISTIC DATA



USE OF NLA RUBBER BULLETS FOR RIOT CONTROL PURPOSE

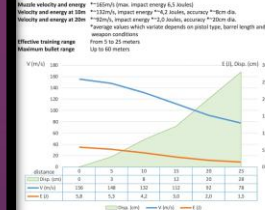
- Always respect prescribed minimum 20 meters safety distance front of the weapon.
- Always respect recommended shooting area on human body.
- Always aim in lower part of the body for good effect and to avoid injury the person.
- Never aim and shoot at the head or neck!

SAFETY DISTANCE MINIMUM 5 METERS

SHOOTING AREA ON HUMAN BODY



BALLISTIC DATA



SAFETY

Safety equipment

Minimum safety distance

Terminal effect

Safety design

Users during the training and force on force shooting must wear approved mandatory protective equipment for head, face and throat protection and protective gloves. Double layers of long clothes and groin protection is recommended.- Recommended safety distance front of muzzle is minimum 1 meter for shooting on protected person.
- Non-lethal, bullet impact can leave on exposed skin bruises or scrapes. Reduced force bullet assure protection from broken live cartridge that will not lead into the chamber.

PACKING

Inner packaging

Intermediate packaging

Outer packaging

30 cartridges in inner cardboard box with plastic tray
30 inner packs of total 1,890 cartridges in wooden box
or 30 inner packs of total 1,890 cartridges in wooden box
or 30 inner packs of total 1,890 cartridges in wooden box



Product Line in Defence Vertical

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04-12-2025

MAIN COMBACT TASKS:

- neutralization of sheltered and unsheltered enemy war material (including armour material)
- neutralization of enemy manpower
- neutralization of fortified and non-fortified point and area targets

TECHNICAL DATA

Projectile mass (kg)	43.1
Projectile length (with nose plug) (mm)	684
Fuze	Impact, SQ and delay
Muzzle velocity (m/s)	UTIU, M15 690 (Zone 8)
Maximum range (m)	18.400 (Zone 8)
Powder Type	NCD 26 (Zone 8)
Powder mass (kg)	9.4 (Zone 8)
Primer	TK M82 P2

PACKING

* Projectile	8 pcs per pallet
Dimensions	360 mm x 765 mm x 829 mm
Gross weight	360 kg
Volume	0.23m ³
UN no.	0242
Hazard class	1.3C
* Primer	1000 pcs per case
Dimensions	572 mm x 375 mm x 262 mm
Gross weight	50 kg
* Propelling charge	20 pcs per box pallet
Dimensions	1060 mm x 720 mm x 1000 mm
Gross weight	308.4 kg
* Fuze	8 pcs per metal box
Dimensions	300 mm x 144.5 mm x 188 mm
Gross weight	7.7 kg

FUZE
UTIU, M15

155 mm Ammunition Shells



Product Line in Defence Vertical

04-12-2025



Drones with different Pay Load Capabilities and Endurance



Product Line in Defence Vertical

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04-11-2025

**Upgradation &
Modernization of
Combat Vehicles**



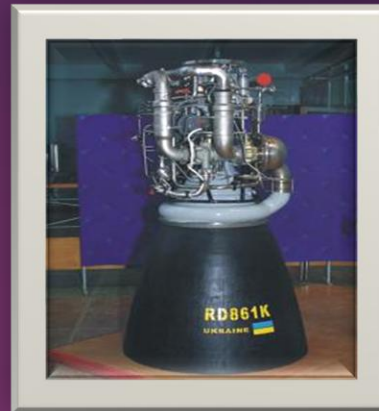
**Manufacturing
of Armored
Personnel
Carriers &
Combat
Vehicles**



Product Line in Defence Vertical

23

04-12-2025



Manufacturing of Titanium Air Ballons, Seeker Heads, Necking of Missile Heads of Missile Chamber



Product Line in Defence Vertical



**Manufacturing of
Night Vision
Devices & Stealth
Textile**



Product Line in Space Vertical



Space Driven Technology
Manufacturing Facility in 2 Stages
Satellite & Launch Vehicles
Land & Sea Launch. Satellite Debris, Satellite
Relocation and Repositioning



Titanium & Scandium ore to Sponge Production Facility

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Proposed Activities in Titan Companies

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04-12-2025

Company Name	Activity	Investment	Duration	Equity to Investor Group	Titan Group
Titan Aviation & Aerospace India Ltd	Aerospace	USD 4 Billion	10 Years	55%	45%
Titan Defence Systems Ltd	Defence	USD 4 Billion	10 Years	55%	45%
Titan Geo Space Systems Ltd	Space	USD 4 Billion	10 Years	55%	45%
Titan Metals & Minerals Ltd	Mining	USD 2 Billion	10 Years	55%	45%

Exit Plan

Return of Investment 7 th to 10 th Year	Titan Group	Investor Group
Buy back of 40% Shares from Investor Group	85%	15%



CAPEX Breakup and Revenue Statement

28

04-12-2025

**Simulators, Air Charters
Aviation University
CAPEX USD 600 Mil
Revenue USD 200 Mil**

**Short Term
06 Months**

**Design Bureau, Product
Development, MRO
CAPEX USD 5.6
Revenue USD 4 Bn**

**Mid Terms
18 Months**

**Production Line: Aircrafts,
Engines, Helicopters,
Drones, Combat Vehicles
,Body Armor Jackets,
Bomb Blankets, Missiles,
CAPEX USD 6 Billion
Revenue 7 Bn**

**Long Term
24 Months**



End of Presentation

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