

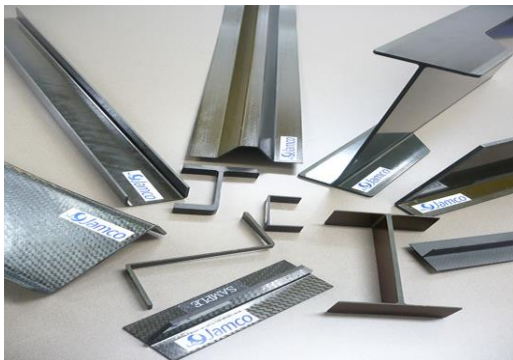
**COMPANY
BUILT FOR YOU ,WHERE
CUSTOMER MATTER AND
WHERE ONLY THE BEST
CAN BE ASSURED AND
DELIEVERED**



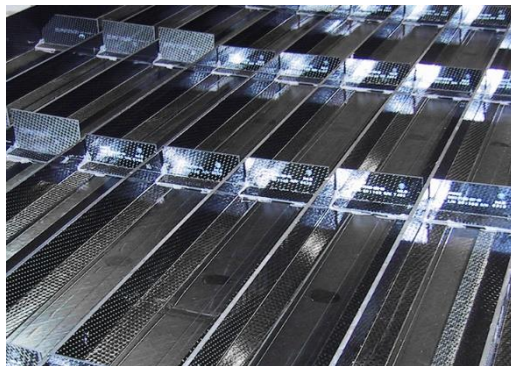
TMPL- A Startup company for Advanced Composites Products Development and Manufacturing with Build to Print and Design to build Capabilities

Address : Gat Number – 1539, Moshi-Alandi Road. Chikhali. Pune – 411062. Maharashtra. India

E-Mail : managing.partner@tri-aster.com Contact Number: +91 8788117746, +91 9890488117



CF STRUCUTRAL PARTS



CF PULPRODUCTS



LAVATORIES

VISION STATEMENT

**To become an organization of global repute by living the values,
work ethics, principles, standards and processes of highest order.**

MISSION STATEMENT

To develop best in class products, services and practices for our customers in order to enable them to remain competitive and sustainable.

VALUES

- Stakeholder Centricity
- Sustainability
- Innovation
- Empathy
- Organizational & Individual Growth

Company Profile

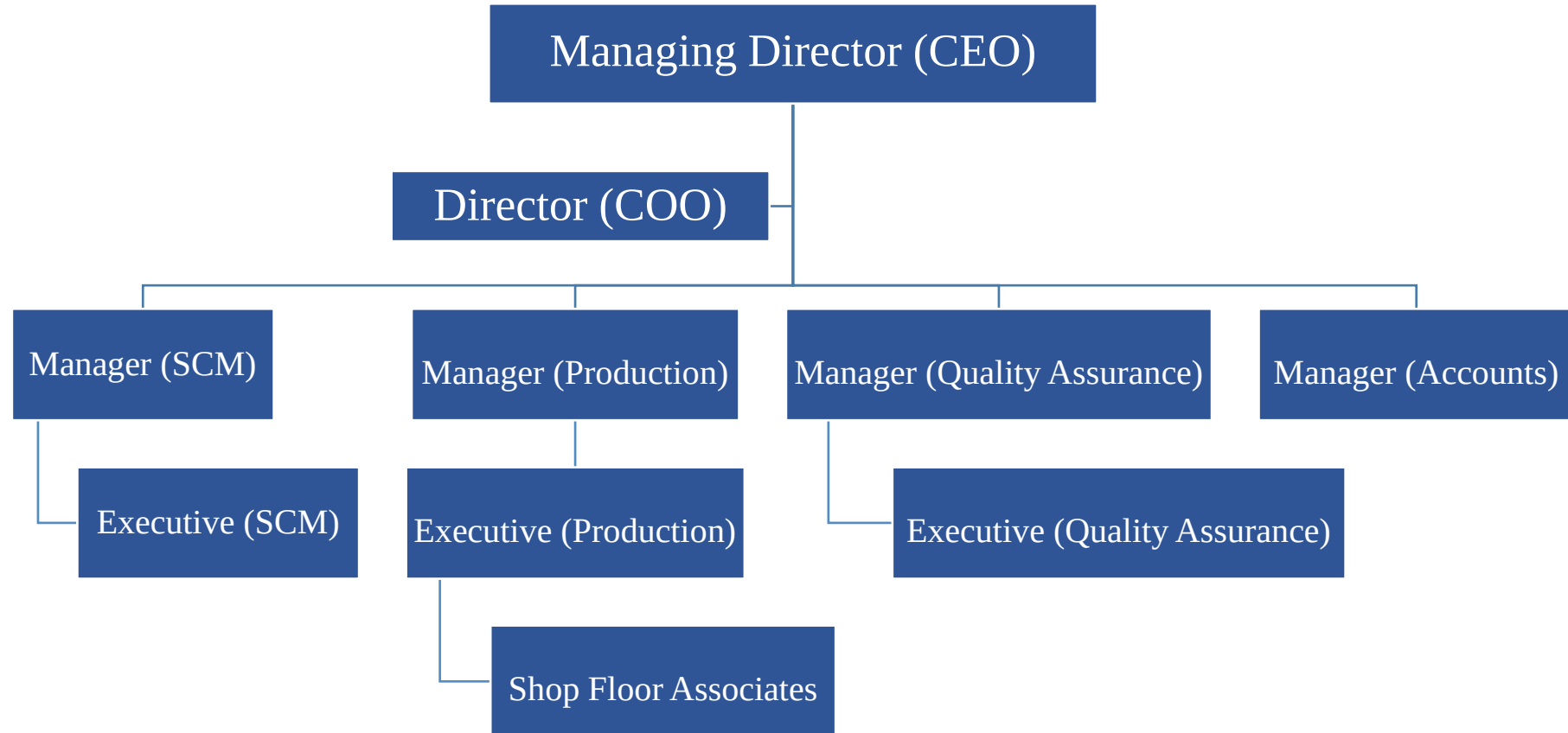
- A Startup , MSME Manufacturing Group based out of Pune, Maharashtra for Advanced Composites Products Development and Manufacturing with Build to Print and Design to build Capabilities
- TMPL Pune is entering into for Manufacturing the UAV ,UAM and Drone components for Indian AERO and Defense Sector and providing Design to build solutions
- TMPL is ISO 9001-2008 certified.
- Catering to Defense, Aerospace, Automotive, Electronics, Marine, Aqua Sports and Retail Sectors
- Molding Capacity- 550 Tons, Prepreg Carbon Fiber Wrap Rolling, FRP Hand Layup, FRP Molding,
- Our customers include organizations and industries such as Defence Research And Development Organization, Ordnance Factories, Bharat Electronics Limited, TASL and L&T Defence etc.

Company Facilities and Infrastructure

- **TMPL- Unit Area- 5100 sq.ft. Covered shed Located in Chikhali**
- **Electrical Power Transformer of 100 KVA + Gen Set 60 KVA**
- **Office area- 350 Sq.ft. equipped for Design, NPD & other functions**
- **Clean Room -2000 Sqft -1 lac class with Vacuum System**
- **The machine shop with CNC Milling center, VMC & Drilling Machine.**
- **Oven of size – 2500mm X 2500mm X 3000mm.**
- **Fabrication, Handlayup and Trimming and Finishing Area**
- **Dry type Paint Booth with Baking system**



ORGANIZATIONAL STRUCTURE



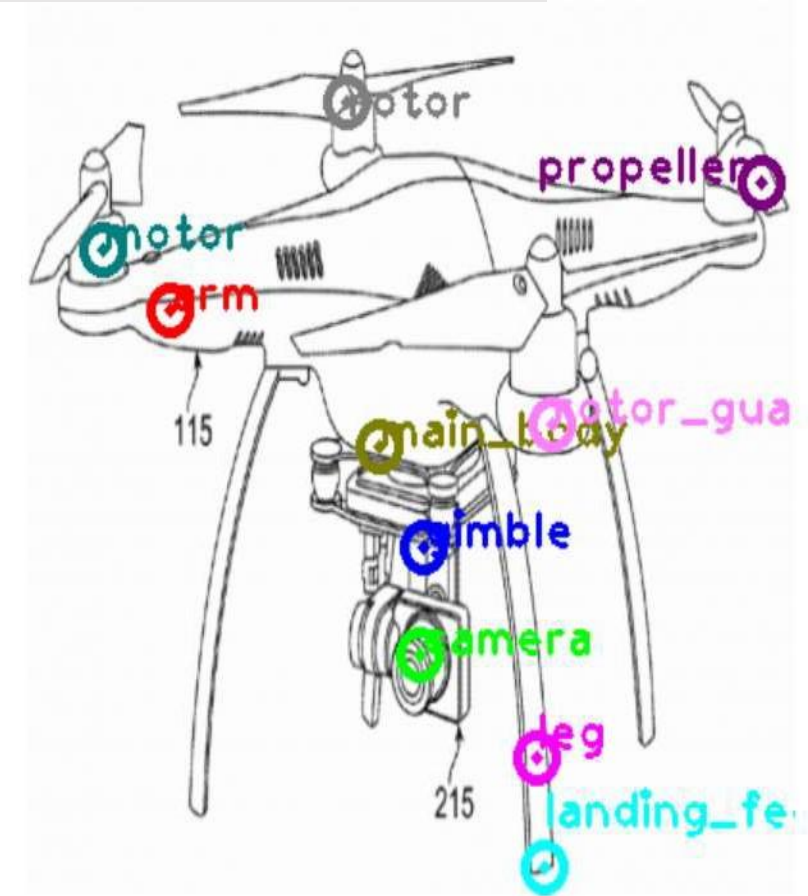
Focus areas

- UAV AND DRONE PARTS
- PROPELLER
- HUBS
- UNDERWATER PADDLES
- CARBON LAMINATES
- SPECIAL CF CASES
- ANTENNAS



DRONE COMPONENTS TO BE MANUFACTURED IN CFRP

1. TUBE
2. PROPELLER
3. TOP PLATE & BOTTOM PLATE
4. SUPPORTING PILLERS
5. DRONE STAND
6. TRAY
7. SUPPORT PLATE
8. NOZZLE STEM
9. GIMBLE SOCKET
10. LANDING GEAR FRAME



DRONE COMPONENTS TO BE MANUFACTURED IN CFRP



3K Roll-wrapped Carbon Fibre Tube
(Hollow) 12mm(OD) * 8mm(ID) *
1000mm(L)



1655 Carbon Fiber CW CCW Propellers for Drone

14 x 5.5 inch Carbon fiber Propeller for Drone

Condition: New product

Adopts the high quality 100% 3K all carbon fiber board which imported from Japan improve material. Each pair of propellers has perfect dynamic poise and static balancing which balance by manpower. Especially improves the air-powered efficiency and aerofoil stability

DRONE COMPONENT MANUFACTURING PROCESS

- PREPREG LAYUP WITH AUTOCLAVE CURING
- PREPREG LAYUP WITH OVEN CURING
- FILAMENT WINDING FOR TUBE MANUFACTURING
- ROLL WRAPPING FOR CFRP TUBES
- VACUUM INFUSION FOR
 - WINGS MANUFACTURING WITH FOAM EMBEDDED
 - BASE FRAME OR TOP PLATE MANUFACTURING
- PREPREG LAYUP – VACUUM BAGGING AND CURING FOR
 - MAIN BODY
 - GIMBLE SOCKETS
 - LANDING GEAR FRAME
 - PROPELLER



FACILITY HIGHLIGHTS – CARBON PREPREG WRAP ROLLING AND CARBON FIBRE MOULDING

CLEAN ROOM -1LACK CLASS

Area : 18.5m X 7.5m X 3.0m -Up Running

**COLD STORE = Minus 18 –
Minus 20 Deg C.**

**Size : 5 m x 4.4 m x 3.25m
Up Running**



ENTRY THROUGH AIR SHOWER

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FACILITY HIGHLIGHTS – CF PREPREG WRAP ROLLING AND MOULDING



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FACILITY HIGHLIGHTS – CF PREPREG WRAP ROLLING AND MOULDING



HORIZONTAL DOWN DRAFT PAINT BOOTH

HOT AIR CIRCULATING OVEN WITH VACUUM SYSTEM

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PROJECT SUMMARY – DRONE COMPONENT MFG.

We will be focused on acquiring new technology and development of Frame Manufacturing for Indian Defence and Civil Industry Drones. This will also support import substitution process.

These process Development from TRIASTER METALOPLAST PRIVATE LIMITED will help drone industries to scale up their own manufacturing processes and bring down costs at the same time. TRIASTER METALOPLAST PRIVATE LIMITED will support these industries with adoption of technology, process implementation and training. We will eventually replace Basalt and Kevlar and Glass with time, as per industry needs. The intended facility of Wrap Rolling, Autoclave curing and Vacuum Bagging will set an example for Composite Industries.

Testing Equipment & Facilities



Muffle Furnace



Barcol Hardness Tester



Viscometer



Deflection Testing Machine

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Customized FRP Containers



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THANK YOU