

TECHNOCRAFT
INDUSTRIES INDIA LTD.

MÄCH
ONE

**MONOLITHIC
FORMWORK**

MÄCH
ONE

Formwork Systems
by Technocraft

sales@technocraftgroup.com



QUICK



SAFE



ROBUST



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MÄCH ONE is a very lightweight Formwork system made of high quality Aluminium Extrusion with admirable strength to take on the site conditions. The light weight panels ensure excellent finish, faster construction and high repetition.

MÄCH ONE Aluminium forms is best suited for construction of residential units and mass housing projects. It is fast, simple, adaptable and cost effective. It produces total quality work which requires minimum maintenance and when durability is the prime consideration. The system is designed for maximum repetitions with very stringent tolerances, well designed edges to resist sight abuses. This system is most suitable for Indian condition as a tailor made aluminium formwork for cast in-situ fully concrete structure.

■ ■ FEATURES

Latest Technology: Our integrated manufacturing facility at Murbad, Maharashtra boasts of the most modern machineries for Aluminium cutting, bending and fabrication using modern computer technology. We have been manufacturing scaffolding and formworks in our Factory for past many decades and supplying across the globe. We use latest technology Friction Stir Welding to make our aluminum panels and MIG welding is done using Japanese robots. All material shearing, cutting, punching, etc. are done on CNC machines. The product is coated with lacquer in a fully automated process without any manual intervention.

High Tolerances: All our extrusions are made from dies customized as per our design with high and stringent tolerances.

High End Finishing: Our most modern machineries and manufacturing system ensures a very good unmatched finish. Our products have no rough surfaces and undulations which are the primary concern of any project manager when the material arrives at his site. We have a zero tolerance stringent quality control policy and has no hesitation in rejecting for the slightest of the deviation.

Highly Durable: Made in our state of the art manufacturing facility with high degree of quality standards, the system is highly durable for long uses and multiple repetitions.



ADVANTAGES

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Easy Assembly: Our standardization & design optimization makes Mäch One easy-to-assemble modular system. Our Technicians come with proper drawings and design support at the site to make your site team adopt with our system. They ensure a complete comfort to your team with our system in terms of erection and striking. The system doesn't call for skilled work force to use it.

Faster Cycle Time: Mäch One systems is a modular formwork system which is very easy to assemble and equally easy to take it to the next level. It works at a cycle time of 4 to 7 days.

Crane Independent movement: It is a lightweight Aluminium Formwork system with standard panels of sizes which can be manually handled at the site, transferred through a slab transfer opening, and does not need the crane for taking it to the next level.

No Requirement of Scaffolding: The system comes with shoring and external working Platforms and scaffoldings are not required.

Excellent Surface Finish: It provides unmatched surface finish leaving almost nothing for any further touch up.

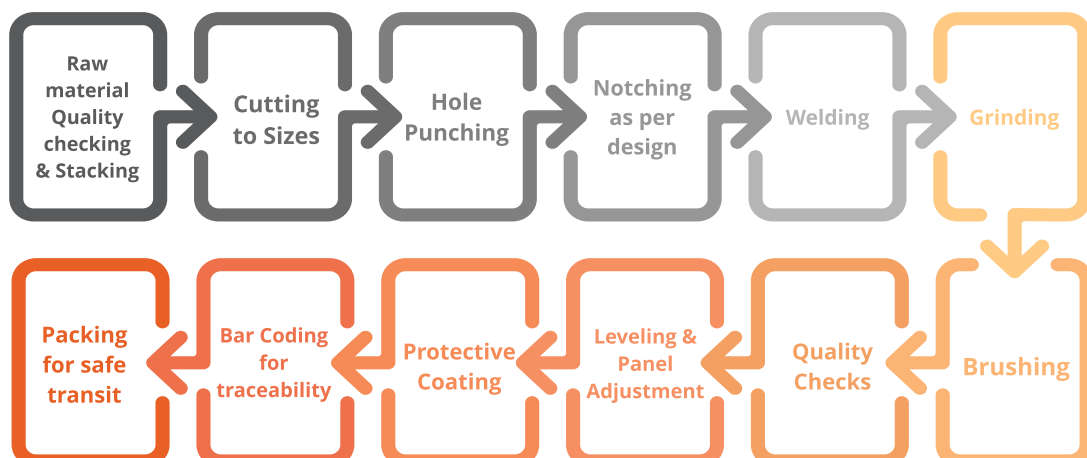
High repetition: Its designed to take the site abuses ensuring durability and high repetition.

Less idle time: It requires very minimal maintenance and can be put to reuse with not much of idle time.

Cost Effective: Mäch One is very cost effective owing to its standardized design, cycle time, durability, repetition and user friendliness.



MANUFACTURING PROCESS





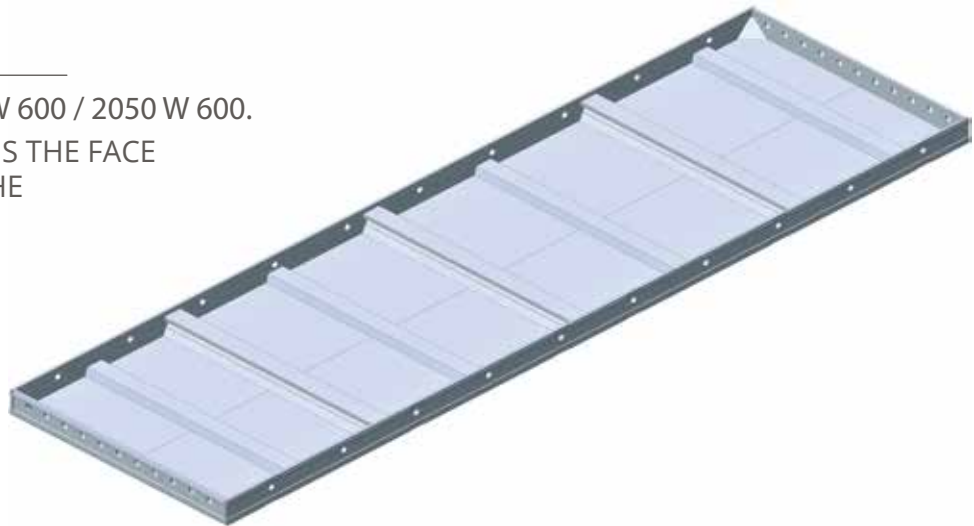
PRODUCTS

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WALL PANEL (W)

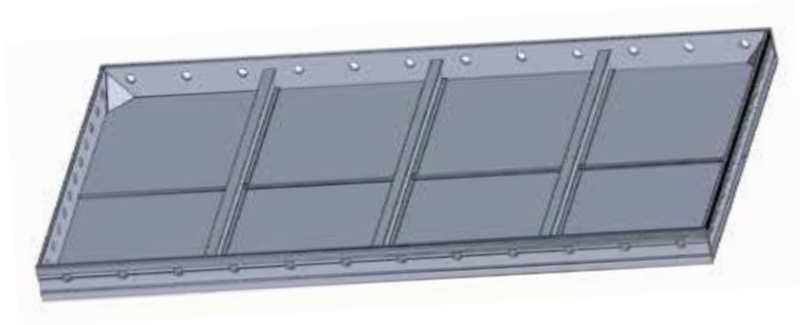
STANDARD SIZE - 2400 W 600 / 2050 W 600.

THE WALL PANEL FORMS THE FACE OF THE WALL ABOVE THE ROCKER (RK) FIRST.



DECK PANEL (D)

STANDARD SIZE - 1200 D 600
 DECK PANEL USED TO FORM THE SOFFIT OF THE SLAB.



MIDDLE BEAM (MB)

SIZE – DEPENDENT UPON EACH STRUCTURE
 USED TO JOIN THE PROP HEADS, THE MIDDLE BEAM SUPPORTS THE SLAB PANELS.



END BEAM (EB)

SIZE – DEPENDENT UPON EACH STRUCTURE
 USED TO JOIN THE PROP HEAD AND SLAB CORNER, THE END BEAM SUPPORTS THE SLAB PANELS.



DECK PROP HEAD (DP)

STANDARD SIZE - DP-200.
 USED TO JOIN BEAMS TOGETHER (MID BEAM & END BEAM), THE PROP SUPPORT WILL BE PLACED UNDER THE DECK PROP HEAD.



SOFFIT CORNER EXTERNAL (SCE)

SIZE – DEPENDENT UPON EACH STRUCTURE
 THE SC COMPONENT FORMS THE HORIZONTAL EXTERNAL CORNER BETWEEN WALL/BREAM FACE AND SLAB FACE.

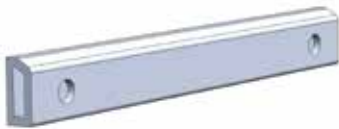


PRODUCTS

SOLDIER TIE (ST)

SIZE – ST - 375 MM.

USED TO JOIN THE DECK PROP HEAD WITH THE BEAMS (MIDDLE BEAM AND/OR END BEAM).



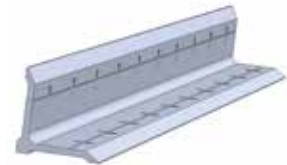
INTERNAL CORNER (IC)

STANDARD SIZE – IC 2050.
USED TO CONNECT TWO VERTICAL PANELS WITH INTERNAL CORNER.



EXTERNAL CORNER ANGLE (EC)

SIZE – DEPENDENT UPON EACH STRUCTURE
USED TO CONNECT TWO VERTICAL PANELS WITH INTERNAL CORNER.



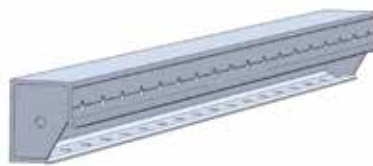
BEAM BOTTOM (BB)

SIZE – DEPENDENT UPON EACH STRUCTURE
SOFFIT PANEL WILL BE USED TO COVER BOTTOM OF THE BEAM.



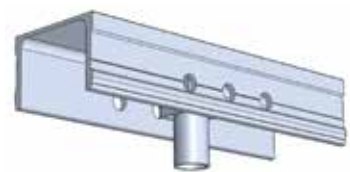
SLAB CORNER (SC)

SIZE – DEPENDENT UPON EACH STRUCTURE
CONNECTION BETWEEN WALL PANEL & SLAB PANEL.



BEAM PROP HEAD (BPH)

SIZE – DEPENDENT UPON EACH STRUCTURE
SOFFIT BOTTOM PROP SUPPORT WILL BE PLACED UNDER THE BEAM PROP HEAD.



DOOR CLOSER (DC)

SIZE – DEPENDENT UPON EACH STRUCTURE
USED TO CLOSED THE WALL END.



WALL ROCKER BOTTOM PANEL (WRB)

STANDARD SIZE - 2100 WRB 600
THE WALL PANEL FORMS THE FACE OF THE WALL WITH ROCKER (RK).



SOFFIT CORNER INTERNAL (SCI)

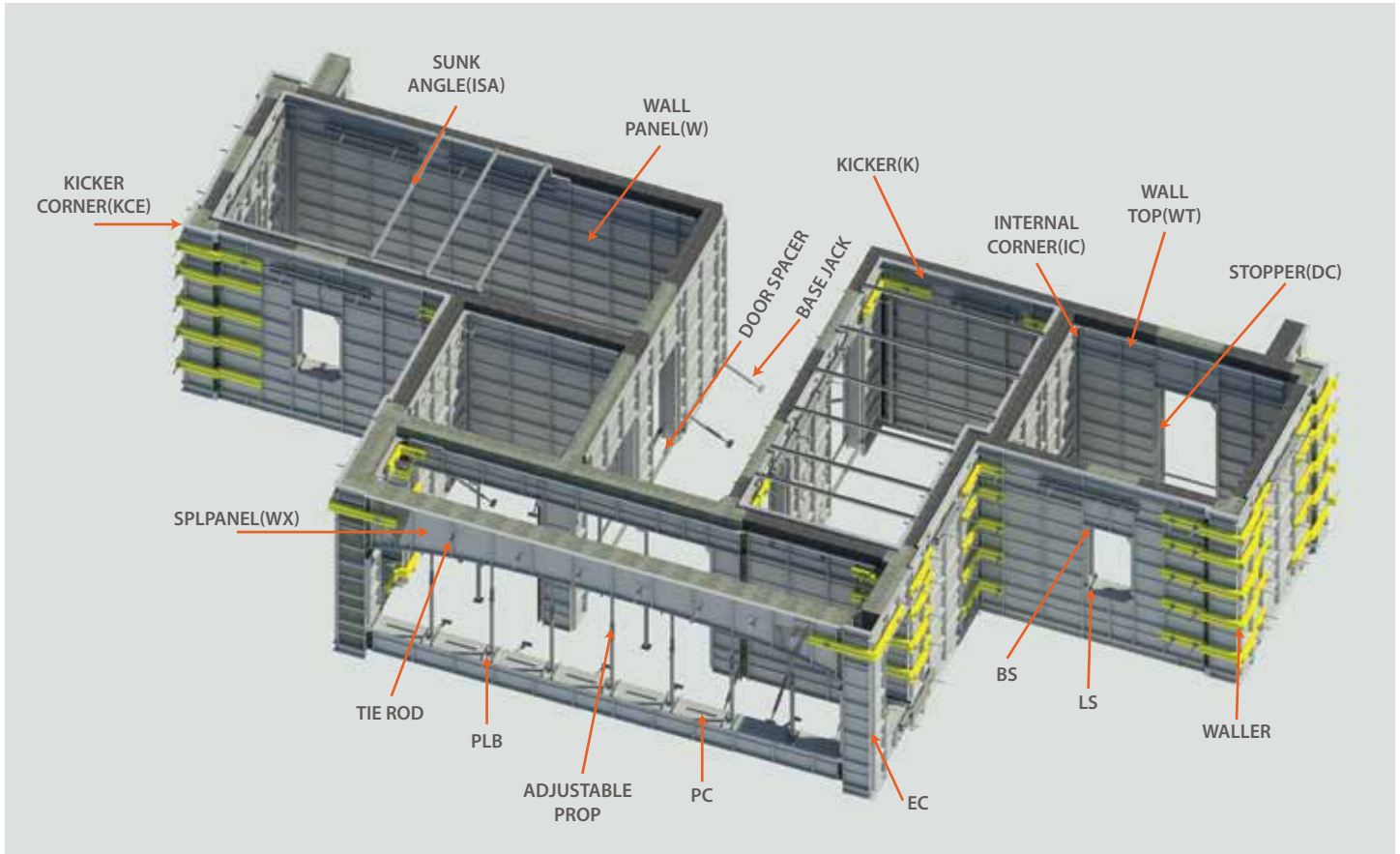
SIZE – DEPENDENT UPON EACH STRUCTURE
THE SC COMPONENT FORMS THE HORIZONTAL INTERNAL CORNER BETWEEN WALL/BEAM FACE AND SLAB FACE.





GENERAL MOCK UP

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We create 3D designs of formwork in Revit for all our projects to provide our customers with a clearer understanding. This enables them to perform a complete walkthrough of the assembly prior to installation, helping to identify any potential mistakes or missing components. This approach prevents delays caused by missing items on-site.





COMPARISON OF ALUMINUM FORMWORK

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Item	Plywood formwork	Small steel formwork	Big steel formwork	Heavy steel frame plywood formwork	light steel frame plywood formwork	Aluminium formwork
Material	12-18mm thickness plywood	2.3-2.5mm thickness steel plate	5-6 mm thickness steel plate	18mm thickness plywood	15mm thickness plywood	4mm thickness aluminium profile
Thickness	12-18	55	86	120	120	65
Weight	10.5	35-40	80-85	56-68	40-42	18-22
Loading (KN/m ²)	30	30	60	60	50	60
Cycle times	5	100	250	200	150	300
Execution	easier	easy	difficult	difficult	easier	easier
Mending fee	lower	Low	high	high	high	low
Effectiveness	low	Low	high	low	high	higher
Application	Wall, column, beam, bridge	Base, wall, column, beam, slab	wall	Wall, column, beam, bridge	Wall, column, beam, bridge	Wall, column, beam, bridge
Quality of concrete surface	Rough surface	Rough surface, low accuracy	Smooth surface, fair-faced	Smooth surface, can reach facing and ornament fair- faced	Smooth surface, can reach facing and ornament fair- faced	Smooth surface, can reach facing and ornament fair- faced
Recycle value	low	middle	middle	low	low	high
Must using lifting tower or not	no	no	yes	yes	yes	no



MANUFACTURING FACILITY

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Cutting Machine



Cutting Inspection



Multi Punching Machine



Single Punching Machine



Multi Broaching Machine



SPM Auto Welding Machine



MANUFACTURING FACILITY

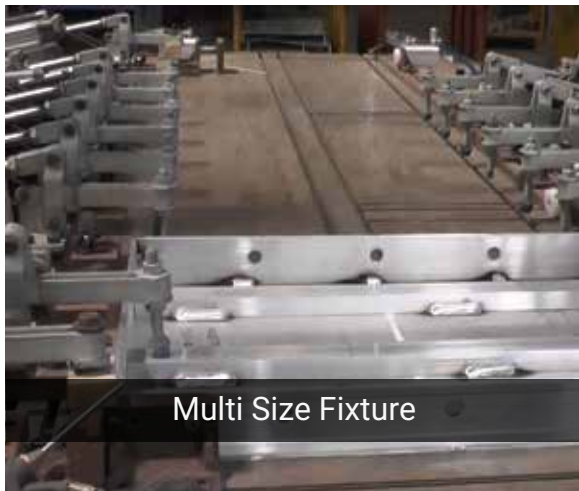
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Friction Welding



Manual Welding



Multi Size Fixture



Robotic Full Welding



Multi Robotic Cell



Bend Correction Checking

MANUFACTURING FACILITY

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Panel Width Inspection



Panel Length Inspection



Hole Pitch Gauge Checking



Panel Bend Straightening Machine



Buffing



Auto Lacquer UV Drying Machine



MANUFACTURING FACILITY

Page No. 12



Auto Lacquering Drying Machine



Cleaning



Barcode Scanning



Material Stacking



Material Stacking



Dry Mockup at Plant





WHY TECHNOCRAFT

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- Technocraft places a very high importance on delivering superior design support, and believes our design support differentiates us in the market.
- Technocraft successfully manufactures & supplies high-quality of material with excellent dimensional accuracy and surface quality.
- A public limited company with a global footprint and proven track record of over 50 years.
- Planned Production capacity of over 150,000 sqm/month.
- Dedicated and Skilled Design team.
- Record of 99% on time delivery.
- World class Modern manufacturing machine.
- Highly experienced execution team.
- Unmatched customer service.
- Sequential delivery of material as per client requirement.

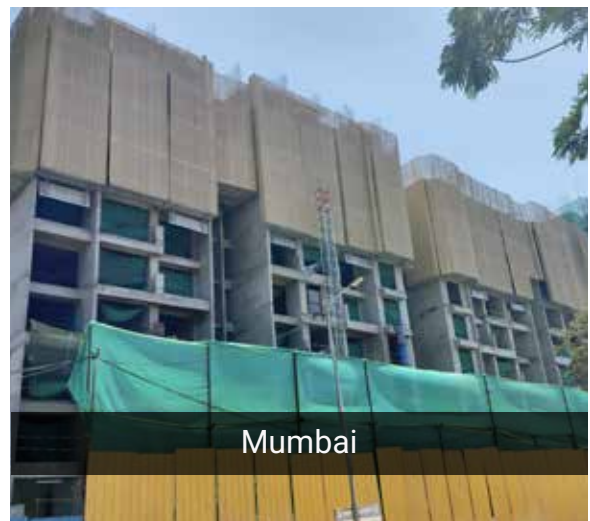
COMPLETED PROJECT

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COMPLETED PROJECT

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ONGOING PROJECT

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ONGOING PROJECT

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DESIGN SUPPORT

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Technocraft places a very high importance on delivering superior design support, and believes our design support differentiates us in the market. Our highly skilled battery of designers having knowledge of the latest design software and its filed applications provide customized design support in consultation to customer's technical team.

Our design team helps you to determine which product best suit your needs as per project's specific architecture and the site conditions and design a complete system which suits your project to the hilt.



SITE SUPPORT

Technocraft is focused on providing our customers with all the support required to ensure a smooth usage of the Mäch One system ensuring maximum time saving with minimum deployment of manpower and equipment. Whether this includes construction management or on-field engineering, technical support during project execution or training of the workforce, our site support team is committed to ensure a safe and reliable implementation, streamlining the project execution and transition.

We understand that site support doesn't merely mean to guide the customer on your product's usability. The objective of our site support team is to increase the productivity and the structural quality from the first draft to the finalization of the building.



AFTER SALES SUPPORT

Our customer's success is our success and undoubtedly, the customer's growth is our resultant growth. We further extend our philosophy- "Our customer's saving is our saving"

Our sales, Management and engineering teams have experience in a wide range of Projects and Industries. We understand the changing needs of our customers when they move from one project to another. We work in close partnership with our clients in their new projects in both the development and refinement of designs, formwork planning, reuses of the existing inventory.



AMONG OUR CUSTOMERS

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OUR FACTORY

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CHHATRAPATI SAMBHAJINAGAR (AURANGABAD)

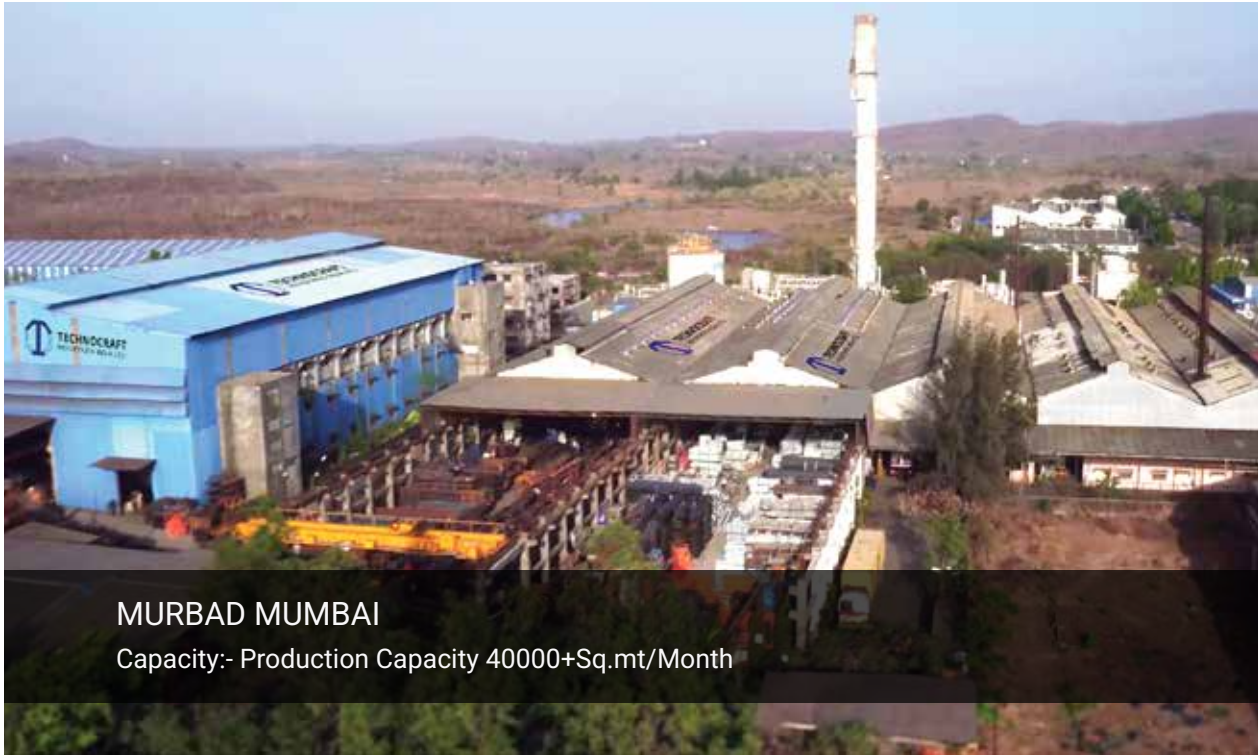


CHHATRAPATI SAMBHAJINAGAR (AURANGABAD)

Capacity:- Production Capacity 100000+Sq.mt/Month Factory Area :- 50 Acre

OUR FACTORY

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THE TECHNOCRAFT GROUP LEGACY

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With more than 5 decades of manufacturing and exporting competency, the Technocraft group extends its expertise in the scaffolding and formwork design and production for clients all over the world.

“Technocraft” was recognized as an export house by Government of India in 1979. Technocraft manufactures high precision & sophisticated Drum Closures Products and it successfully managed to capture the Middle East, USA & Europe export markets. Promptly the company established several foreign subsidiaries for stock mobilisation to their foreign customers.

From inception till 1994, Technocraft continued developing and increasing the production of Drum Closures until it became one of the largest and most recognized suppliers of Drum Closures in the world. The company subsequently in 1994 acquired “Maharashtra Steel Tubes Ltd” from Sicom, which manufactured Steel Pipes. Technocraft opened an office in United Kingdom (UK) to increase the European market and this was the turning point in its expansion program.

Technocraft as a group has been a predominant player in the precision engineering sector & it has done a forward integration of Tube Division by producing high precision scaffolding systems for building construction. Technocraft has been constantly upgrading its capacity & improving its standards to meet the ever increasing expectations of its customers. The strategy adopted by the company comprises of growth through constant innovation, enter new categories, and focus both on domestic as well as foreign markets.

Head Quartered in Mumbai, the company is listed on the Bombay Stock Exchange as well as the National Stock Exchange.



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