

ABOUT

METYX Composites

METYX, supplies an extensive range of multiaxial, RTM and woven fabrics at its three production locations in Turkey and Hungary

Industries using METYX products today include: wind energy, marine, transportation, infrastructure, building and construction, sport and leisure.

METYX has also invested in facilities, equipment and highly skilled staff to offer customers added value through custom solutions and technical services such as engineering support, prototyping, large scale tool making and a customized kit cutting service from both Turkey and Hungary, for cores, fabrics and vacuum consumables.

Your 'Solutions Partner'

METYX offers exceptional service, quality and logistical support which can help to reduce costs and add real value to your business.



METYX Composites Tooling Centre

METYX has invested in a Tooling Business Unit, located in the 23,000 sq. m 'state-of-the-art' production facility at Manisa, Turkey.

The METYX Composites Tooling Centre was set up in response to customer and market needs. It aims to offer design engineering and manufacturing support to customers looking for affordable, high quality tooling solutions.

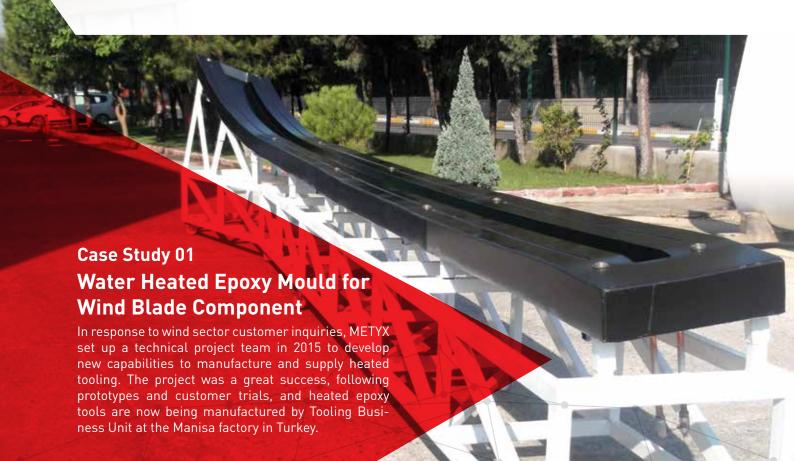
The METYX Composites tooling team has particular expertise in large scale tooling projects for:

- · Wind blade mould components
- · Hull and deck plugs and moulds for boatbuilding
- · Complex design tooling for automotive & transportation
- · Multiple component architectural projects
- · Direct negative mould for limited volume parts

Tooling Engineering Services & Support

METYX offers engineering support, reverse engineering, rapid prototyping and tooling consultancy using

'state-of-the-art' design and production software, to customers in all industrial market sectors.





Master Plug (Pattern) Production

Standard master plugs are typically manufactured using a tooling board or foam-based glass reinforced laminate base, onto which and epoxy or polyester paste is applied. Once set, the paste is then precision CNC milled to create the final surface before finishing. The last step is the application of a primer and top coat, which is finely sanded and polished to a high gloss surface finish.

Master Plug Making Materials:

- · Tooling board
- · PU and Epoxy foam
- · Polyester and Epoxy paste
- · Primer and Top coat

Master Plug Features:

- · Shape stability, with 5-axis CNC milled accuracy and finish
- · Large plug production capabilities up to 10m x 6m x 4,5 m
- · High gloss polished surface finish
- · Modular production of single or multi sectioned
- · Double gel coating and post curing to order

The industry needed a reliable tooling provider, technically able to handle customers' challenges – rapidly and effectively. This approach triggered our investment decision. We now deliver cost efficient complete tooling solutions, enabling our customers to stay focused on growing their core business"

Tunc Serif Üstünel.





FRP Mould Tool Production

FRP moulds with the required mechanical properties needed for moulding finished composite components are produced from the high quality, surface defect free master plugs. Large scale single and multi-split FRP moulds are produced for: hand lay, spray up, RTM, and infusion processes.

Direct Negative Moulds

Tooling Centre also produces large-scale moulds using a direct moulding technique, which is a very cost effective solution for producing prototypes and for one

off or limited run components, especially for projects with a limited budget or tight timescale needed a fast tooling solution.

FRP Mould Tool Making Materials:

- · Polyester rapid tooling resins
- · Epoxy tooling resins
- · Vinyl ester and epoxy tooling gelcoats
- Custom reinforcement solutions manufactured by METYX Composites

FRP Mould Tool Features:

- Only quality tooling materials used for high durability
- · Mould shell supports as needed for tool life.
- · Excellent part production repeatability
- · Water based heating system
- · Laser scanning
- · QC documentation
- · Mould commissioning

The METYX Composites Tooling Centre provides customers with a cost effective complete composite tooling solution from *concept to delivery.*



