

NextGen 2/3K Meter Mix Machines for Composite Industry

Extensive range of machines, for dispensing Epoxy Resins and Glues



Wind Rotor Blade

Cylinders, Tanks/Vessels

Composite Pipes

Automotives

and many more...

Partners in Productivity for 1000+ Mixing & Dispensing Processes!

Twin Engineers is a partner in automating mixing and dispensing processes for some of world's leading companies, across industries.



Twin Engineers Pvt. Ltd. offers specialist technology in three areas - Fluid Filling, Meter Mix Dosing and Robotic Dispensing. Twin is the only company globally, that offers solutions across all these three areas and has been a market leader in its chosen niche since the last two decades.

A global network of representatives ensures realtime availability of critical spares, consumables and services. Customers from diverse industries which include automotive, electrical, electronics, filters, PU components rely on Twin's versatile technology for their applications.

ABOUT TWIN

- Founded in 1998
- Based in Pune, India
- Award winning partner of Ford, Toyota
- Team of 80+ Engineers
- Products range includes Fluid Filling, Meter Mix -Dispensing and Sealant/Adhesive Dispensing
- Customers include Proprietary to Fortune 500 companies
- In-house Design, Engineering and System Integration capabilities
- Full range of Solutions from standard Machines to production line automation



RELY ON OUR DEDICATED R&D CENTER FOR

- Quick solution with modular process design
- Success guarantee with extensive trials & testing
- End-to-end support for commissioning and training at your premises

Proven, Reliable Machines for the Composite Industry

Leveraging 25+ Years of Expertise in Mixing and Dispensing Processes to your advantage

Our Speciality

Application specific Machine Concepts

Product Range

optimix

Optimized Mixing and Dispensing Machines with flow rate of 2 to 20 LPM for impregnation bath

intellomix

Intelligent Resin Infusion Machine with outflow of up to 35 LPM

intelloband

Intelligent Glue Mixing and Dispensing Machine for joining Composite parts

Our Promise

Optimized process, and cost-efficient operations for your composite processes



Designed in Germany

Twin's machines come with totally new, highly advanced German Design and Engineering. Featuring imported components, and assembled at Twin's state-of-the-art facility in India, these machines offer the best of design, quality and performance, cost-effectively.

Industries

- Aerospace
- Automotive
- Boats and Ship Building
- Chemical
- Defence
- Construction
- Electronics
- Sports & leisure
- Wind energy

Manufacturing Processes

- RIM
- RTM
- Filament Winding
- Pultrusion

Technology Features



Precision Gear Metering Pumps

Achieve metering and mixing accuracy of ± 1%, for a variety of materials used in your processes



Variable Ratio

A wide range of ratios, that can be easily set to match your process parameters



Touch Screen HMI

Easy, intuitive operation with up to 25 preprogrammed recipes to match your process needs



Mixing Units for every application

Choose from options of disposable or reusable Static Mixer, Dynamic mixing head or static-dyanmic mixer

IntelloSeries Comes with NextGen Features



Maintenance Pop-ups

Plan your preventive maintenance well in advance with automated alerts for faults and routine maintenance activities.

Smart Data Logging & Reports

Smart Production dashboards with report library to analyse Mixing Ratio, Utilization, Consumption and other process parameters for each batch.

Built-in E-Manual & Videos

Quick reference E-manuals, assembly and maintenance videos accessible through HMI enables immediate and easy troubleshooting.

Instant Service App

Just scan a QR Code on your machine from Twin's Instant Service App to register and track your service call.



Optimized Mixing and Dispensing Machines with flow rate of 1 to 20 LPM

The OptiMix range of machines are highly advanced gear pump driven metering and mixing systems. Ideal for mixing and dispensing of low to medium viscosity materials including epoxy, polyurethanes, these systems are recognized for smart features that ensure an optimized process for your composite parts.





Cylinders, Tanks/Vessels





FEATURES

- Variable ratio, precision gear metering pumps
- Level control alarms
- Mixing Type Static or Static-Dynamic
- Flushing system for static mixer

ADD-ON OPTIONS

- Extended Dispensing arm and hoist
- Additional hose lengths
- Stand-by material preparation Tank and integrated transfer pump
- Stirrers, Electric Heating
- Automated Material Refill for Tanks from IBC, Drums



intellomix

Optimized Mixing and Dispensing Machines with flow rate of 12 to 35 LPM

Designed to deliver high flow rates of up to 35 LPM, the intelloMix series of machines come with some of the industry's most advanced features. With easy integration, convenient remote based operations and precision gear pump mixing, these machines are the backbone of consistent, reliable production.



TECHNICAL SPECIFICATIONS

Flow rate	12.5 to 35 LPM
Mixing Ratio	100:20 to 100:70
Tank capacity	100/ Integration with Drum/IBC
Power Supply	4.5 Kw
Material Type	Filled, unfilled

FEATURES

- Integrated Flow meters
- Material re-circulation
- Auto-caliberated level sensor
- Extended dispensing Arm and hoist
- Automated Material Refill for Tanks from IBC, Drums
- Remote monitoring, Data Logging and Reports
- Smart SMS/email alerts
- NEW! Epoxy Degassing for 500 Kg tank

intelloband

Glue pasting machine/Adhesive mixing machine with 2/3 Drums

Twin's meter mix dispensing systems for 2K epoxy resin ensure accurate mixing ratio for high volume Glue dispensing in stipulated time for bonding of shells or large composite structures. The high-performance systems are well proven for paste-like adhesives with a viscosity of up to 1 million cps. The portable system can be moved in parallel to the composite parts for online application of adhesives.



FEATURES

- Suitable for highly viscous, paste-like adhesives
- Extended Arm with hoist
- Wireless Remote for Operators
- Ideal for high volume dispensing Advanced PLC control panel
- Touch based HMI Controller

ADD-ON OPTIONS

- Standby feeding & metering system available for auto changeover of material
- Portable system

TECHNICAL SPECIFICATIONS

Flow rate	8 to 20 kg/min
Mixing Ratio	100:20 to 100:100
Drums	200 L
Power Supply	26 Kw





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