



GITA MARKETING CO.

PRODUCT CATALOGUE 2026

WIND ENERGY SOLUTIONS CATALOGUE

Vacuum Infusion · Blade Manufacturing · Resin Transfer

Gita Marketing Co.

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Issued 2026



Wind Energy Solutions Overview

The wind energy sector demands the highest standards from consumable components used in blade manufacturing. A single hose failure during resin infusion can cause irreversible void defects in a blade panel, leading to scrap losses measured in tens of thousands of dollars per mould cycle. GMC supplies specialist hoses, assemblies, and support materials qualified for wind blade production, with full technical documentation and consistent lot quality.

Products are selected and supplied specifically for vacuum-assisted resin transfer moulding (VARTM), vacuum infusion processing (VIP), resin transfer moulding (RTM), and auxiliary services within the mould bay environment.

Vacuum Infusion Hoses & Tubing

Vacuum integrity is non-negotiable in resin infusion. GMC's vacuum hose range is tested and qualified to sustain full vacuum (≥ 850 mbar) throughout a typical infusion cycle duration without collapse, kinking, or permeation of atmospheric air.

Standard Vacuum Infusion Line — PVC

ID Range	6 mm – 32 mm
Vacuum Rating	Full vacuum — ≥ 850 mbar sustained
Working Pressure	Up to 6 bar (positive pressure applications)
Temperature Range	-10°C to +60°C
Clarity	Transparent — real-time resin front monitoring
Resin Compatibility	Epoxy · Vinylester · Polyester (standard)
Wall Construction	PVC inner · steel wire helix · clear PVC cover
Minimum Bend Radius	35 – 150 mm (size dependent)
Length Supply	Cut-to-length or 25 m / 50 m coils

Polyurethane (PU) Infusion Hose

ID Range	6 mm – 25 mm
Vacuum Rating	Full vacuum — ≥ 850 mbar
Temperature Range	-40°C to +70°C
Advantage	Superior flexibility vs PVC · maintains shape at low temperatures
Resin Compatibility	Epoxy · Polyester · Vinylester
Clarity	Translucent / clear
Applications	High-flex routing · tight radius manifold connections

PTFE Tubing for Resin Lines





OD Range	4 mm – 25 mm
Vacuum Rating	Full vacuum
Temperature Range	-54°C to +260°C continuous
Resin Compatibility	All standard infusion resins · solvent-based systems
Surface	Non-stick PTFE — resins do not bond · easy purging
Rigidity	Semi-rigid · used for straight-run distribution manifolds
Applications	Resin pot connections · heated manifolds · post-cure temperature environments

Blade Manufacturing Auxiliary Hoses

Supporting hose requirements within the mould bay extend beyond the infusion line itself. GMC supplies the complete range of auxiliary hoses for mould temperature control, compressed air services, and surface finishing operations.

Mould Temperature Control Hoses

Service	Hot water / warm water circulation for mould pre-heat and post-cure
Temperature Range	Up to +120°C (hot water) · to +150°C (steam — PTFE lined)
Pressure Rating	6 – 20 bar depending on hose type
Material	EPDM rubber (hot water) · PTFE lined stainless braid (steam/high temp)
Fittings	BSP male/female · Camlock · quick-disconnect — all stainless
Length	Custom-fabricated to cell layout isometrics

Compressed Air & Tool Lines

Service	Pneumatic tools · surface finishing · blow-off · actuator supply
Hose Type	Braided PVC · Rubber air hose · Polyurethane coiled
Working Pressure	10 – 20 bar
Temperature	-10°C to +60°C
Fittings	BSP · Euro quick-connect (Milton, Cejn, or equivalent)

Infusion System Design Support

GMC offers application engineering support for infusion system layout design. Based on blade geometry, resin viscosity, infusion strategy (perimeter vs. distributed), and target fill time, GMC's technical team can recommend:

- Distribution hose sizes for main resin feed lines (typically ½" to 1" ID)
- Branch line sizes for secondary distribution
- Vacuum line sizing to maintain required differential across the bagged laminate
- Manifold configurations — spiral tube, distribution rail, or perforated tube



- Compatible fittings and connection methods for the specific resin system

Contact GMC's technical team with blade dimensions, resin system details, and target infusion cycle time for a tailored recommendation.

Documentation & Quality

Batch Traceability	Lot number, manufacturer, date of manufacture on all coils and cut lengths
Vacuum Testing	In-house vacuum integrity test available at 950 mbar for 30 minutes on assembled lines
Material Certs	Raw material certificates available from Polyhose on request
Storage	Hoses stored in climate-controlled warehouse, away from UV and ozone sources
Shelf Life	PVC: 2 years from manufacture · PU: 3 years · PTFE: 5+ years
Contact	info@gitamarketing.com · +91-89040-35515
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