



PRO-VAC
Vacuum Consumables

*Leading the industry in
composite process materials,
we provide fast response,
short lead times, flexible
solutions, and dedicated
customer support.*

www.pro-vac.eu

PV PRO-VAC

Vacuum Consumables



INTRODUCTION

The PRO-VAC team is very proud that we have grown our brand and offering on the international stage with our outstanding distribution network and especially with the great work of our partners at PRO-VAC USA. We are always looking to challenge ourselves with innovative technology to aid existing and new process methods around the globe.

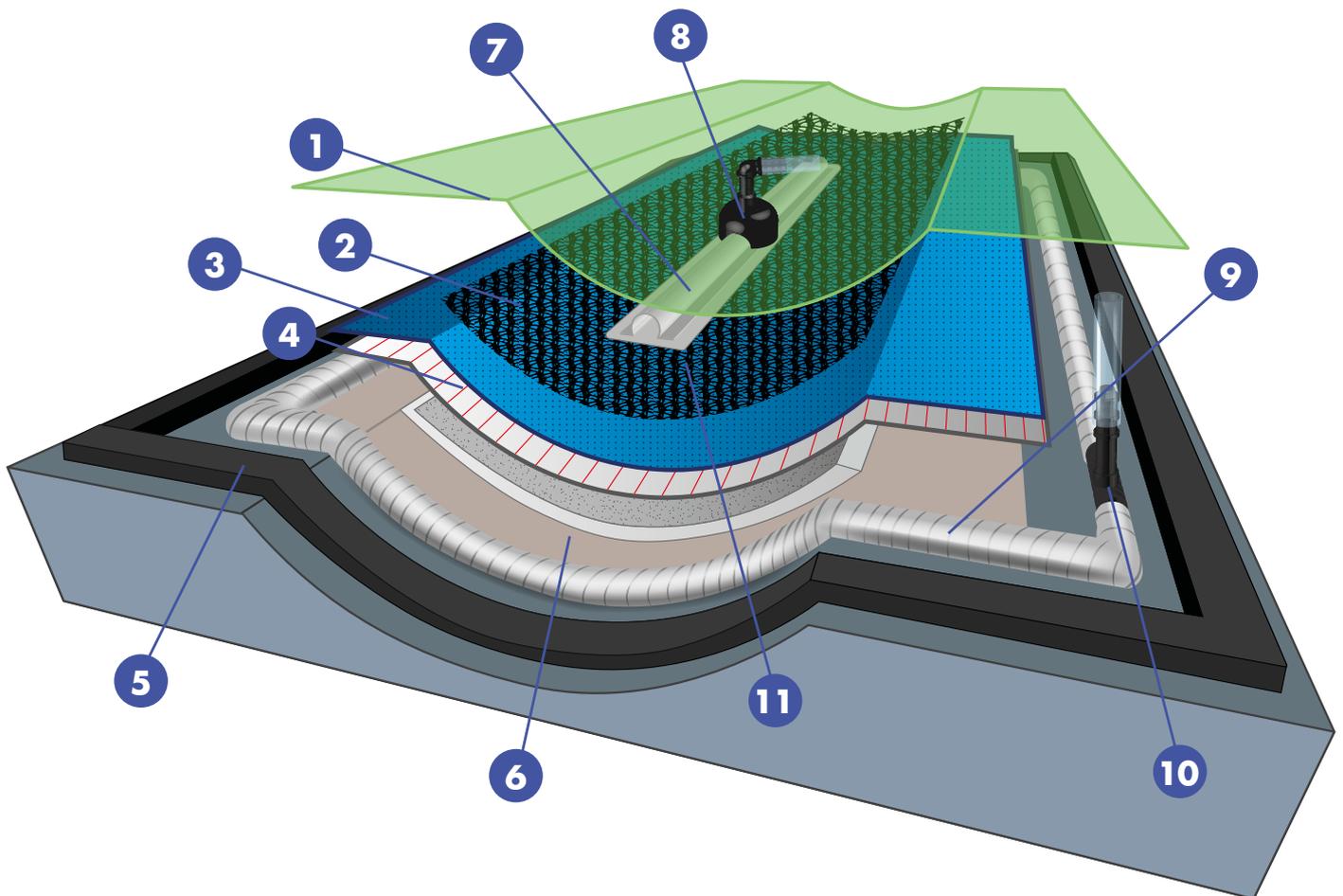
This PRO-VAC brochure is a guide of our standard products. It was designed with a background of 30 years' experience within the vacuum bagging industry. The range is a quality driven condensed offering where products have been chosen to span different process across the composite manufacturing spectrum. We have decluttered and simplified the huge offerings that are out in the marketplace and have produced a

user friendly easy selectable range of products.

Of course, it does not stop there, we have developed a multitude of special items for our customers to help them find that missing pieces to increase the performance of their production, whether it be cost saving, takt times, cosmetic finish, weight saving etc.

We understand that in this every more competitive marketplace we must be ahead of the curve. By doing this we have carved ourselves a niche with our excellent technical knowledge of the materials and process, unrivalled customer service and a direct line to the decision makers.

We are much more than just a Vacuum bagging materials supplier; we are your technical partner.



- 1) Vacuum bagging film
- 2) Infusion mesh
- 3) Release film
- 4) Peel ply
- 5) Sealant tape
- 6) Mould release
- 7) Omega profile (resin inlet line)
- 8) Infusion block, L connector and resin hose
- 9) Spiral wrap (vacuum zone)
- 10) T-piece and vacuum hose
- 11) Flat Infusion profile



VACUUM BAGGING FILMS

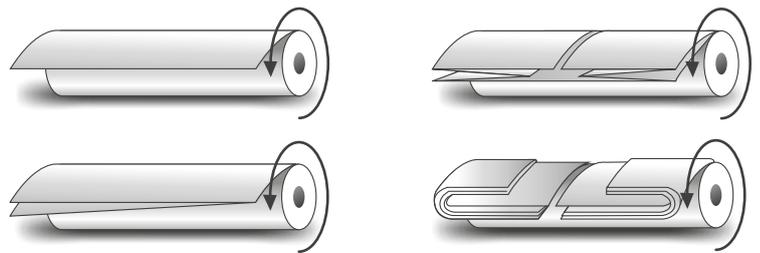
Vacuum films are a key part of our range, the films have been developed very closely with the manufacture to produce high performance cost effective co extruded and mono films to match any current product in the marketplace.

PRO-VAC multilayer films have been specifically engineered from different nylons (PA) and polyolefin's (PO) to create the best possible performance films in their respective class.

Film formats

PRO-VAC films are being used to make the biggest blade in the world as well many of the other massive blades currently in serial production.

We are extremely honoured be supplying the markets widest Nylon/Polyolefin co extruded film to blades produced for the offshore market.



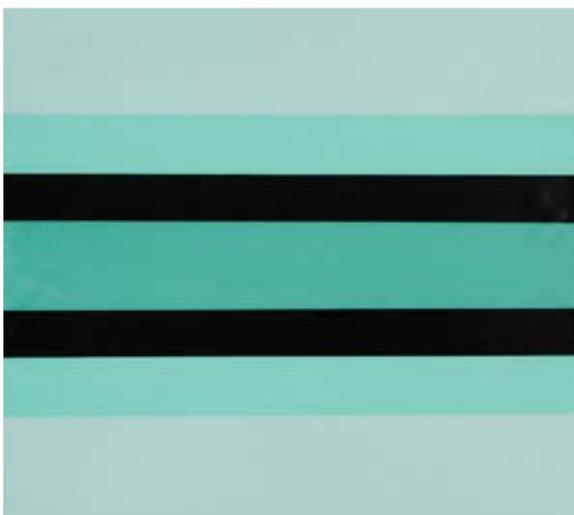
BIG BAG SOLUTIONS FOR WIDE MOULDS

Why Double-Sealant?

Flexibility & Tension Relief: Thermal welds are rigid. On a 30-meter span, the bag needs to “breathe” and settle into the mould contours. A sealant tape joint allows for micro-adjustments and handles the mechanical pull of the vacuum more gracefully.

Redundancy (The Safety Margin): The “two lines” approach creates a vacuum chamber within the seal itself. If the primary inner seal has a microscopic leak, the secondary outer seal maintains the vacuum.

Zero Heat Damage: Large-scale thermal welding on-site often leads to “puckering” or thinning of the nylon film. Using sealant tape ensures the structural integrity of the bag remains uniform from edge to edge.



	Part number	Description	Temp (°C)	UOM
	PRO-VAC 150-LG-75	PO/PA/PO - 75 micron thick green vacuum bagging film Available from 2 m wide up to 10 m wide	120	sqm
	PRO-VAC 150-LG-80	PO/PA/PO - 80 micron thick green film vacuum bagging film Available in 12 m and 16 m wide gusseted tube	120	sqm
	PRO-VAC 100-LB-50	PA/PO/PA - 50 micron thick blue vacuum bagging film Available in 3 m, 4 m and 6 m wide	177	sqm
	PRO-VAC 100-LB-65	PA/PO/PA - 65 micron thick blue vacuum bagging film Available in 4 m, 6 m, and 8 m wide	177	sqm
	PRO-VAC 100-LB-75	PA/PO/PA - 75 micron thick blue vacuum bagging film Available in 2 m, 4 m, 6 m, 8 m, 10,5 m and 12 m wide	177	sqm
	PRO-VAC 200-O-50	PA/PO/PA - 50 micron thick orange vacuum bagging film Available from 0.203 m up to 3 m	170	sqm
	PRO-VAC 200-O-75	PA/PO/PA - 75 micron thick orange vacuum bagging film Available from 0.3 m up to 3 m wide	170	sqm
	PRO-VAC 200-O-125	PA/PO/PA - 125 micron thick orange vacuum bagging film Available from 0.3 m up to 3 m wide	170	sqm

	Part number	Description	Temp (°C)	UOM
	PRO-VAC 164-G-70	Self-releasing vacuum bag, 70 micron thick red vacuum bagging film Available from 0.086 m up to 2.3 m wide	160	mtr
	PRO-VAC 333-G-50	Mono layer PA - 50 micron thick green vacuum bagging film Available from 0.025 m up to 2.3 m wide	200	sqm
	PRO-VAC 333-G-75	Mono layer PA - 75 micron thick green vacuum bagging film Available from 0.025 m up to 2.3 m wide	200	sqm
	PRO-VAC 225EX-P-50	Mono layer modified PA for flexibility - 50 micron thick pink vacuum bagging film Available up to 2.3 m wide	204	sqm
	PRO-VAC 225EX-P-75	Mono layer modified PA for flexibility - 75 micron thick pink vacuum bagging film Available up to 2.3 m wide	204	sqm

INFUSION MESH

Infusion meshes are designed to aid the flow of the resin systems across the surface of the laminate to allow affective penetration through the laminate stack. PRO-VAC meshes have been developed as equivalents to the standard grid and knitted meshes available in the market, the speeds have been tested side by side with comparative results.

	Part number	Description	Temp (°C)	UOM
	PRO-VAC BM230P	Green grid (extruded) mesh, 1.2 m x 50 m	120	sqm
	PRO-VAC KM160E1	Green or black knitted mesh, 2000 mm x 100 m	120	sqm
	PRO-VAC KM160E1	Green or black knitted mesh, 1000 mm x 100 m	120	sqm
	PRO-VAC KM150B150	Blue knitted mesh, 1.5 m wide x 100 m	120	sqm

RELEASE FILM

Developed with the same manufacture of the bagging film as the products are specifically engineered for the composite market segments. Tight specifications have been put in place for the different perforations offered – P3, P31 and P16
Release films can be used as a cost-effective alternative to peel ply

	Part number	Description	Temp (°C)	UOM
	PRO-VAC 500-B-28-NP	Polyolefin release film, 28 micron thick x 4.0 m wide x 500 m	120	sqm
	PRO-VAC 500-B-28-P3	P3 perforated Polyolefin release film, 28 micron thick x 1,5 m wide x 500 m	120	sqm
	PRO-VAC 500-B-28-P31	P31 perforated Polyolefin release film, 28 micron thick x 1,5 m wide x 500 m	120	sqm
	PRO-VAC 550-Y-30-NP	Yellow PP release film, 30 micron thick x 1.5 m wide x 250 m	150	sqm
	PRO-VAC 550-Y-30-P3	P3 perforated Yellow PP release film, 30 micron thick x 1.5 m wide x 250 m	150	sqm
	PRO-VAC 550-Y-30-P31	P31 perforated Yellow PP release film, 30 micron thick x 1.5 m wide x 250 m	150	sqm
	PRO-VAC 575-B-15-NP	Blue ETFE release film, 15 micron thick x 1.53 m wide x 153 m	230	sqm
	PRO-VAC 575-B-15-P3	P3 perforated Blue ETFE release film, 15 micron thick x 1.53 m wide x 153 m	230	sqm
	PRO-VAC 910-R-13-NP	Red FEP release film, 13 micron thick 1.53 m wide x 153 m	230	sqm
	PRO-VAC 910-R-13-P3	P3 Perforated Red FEP release film, 13 micron thick 1.53 m wide x 153 m	230	sqm



COMBI-PRODUCTS

	Part number	Description	Temp (°C)	UOM
	PRO-VAC RE-MESH	Combination product, PRO-VAC 500-B-28-P31/ KM150-B, 1.4 m wide x 100 m	120	sqm
	PRO-VAC TRI - PLY	Combination Product, Pro-Vac 500-B-28-P31/ KM150-B/Nylon 6 Peel ply 1,52 x 100 m	120	sqm

PEEL PLY

Our peel plies are sourced from established manufactures who only produce to the highest level of quality control throughout the weaving, cleaning, and setting/drying phases of production.

We have a Nylon 66 to offer as a direct alternative to current products in the market and we are introducing a polyester peel ply as an even more cost-effective product however this product must be tested for compatibility.

	Part number	Description	Temp (°C)	UOM
	PRO-VAC N85	85 gsm nylon 66 peel ply fabric with Red pinstripe Available in widths from 0.05 m up to 1.52 m wide	180	sqm
	PRO-VAC P85	85 gsm polyester (PET) peel ply fabric with a light red pinstripe Available in widths from 0.05 m up to 1.52 m wide	180	sqm

Other widths can be available upon request, contact our technical department for details

SEALANT TAPE

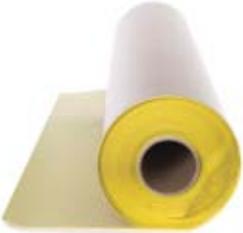
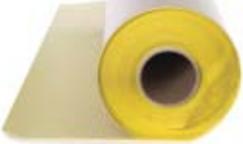
Very difficult product to develop as a 'general purpose' tape that fulfils the requirements for handling, tack (to bag and mould), snap back, mould and film compatibility and temperature resistance. After years of work we have developed products to compete in the global.

	Part number	Description	Temp (°C)	UOM
	PRO-VAC B1191	Black low temperature sealant tape, 3 mm x 12 mm x 15 m, 22 rolls per case	150	mtr
	PRO-VAC HTY 180	Yellow medium high temperature sealant tape, 2,5 mm x 12 mm x 17,5 m, 20 Rolls per case	180	mtr
	PRO-VAC G1191	Yellow high temperature sealant tape, 2,5/3 mm x 12 mm x 15 m, 22 rolls per case	210	mtr

Other sizes and profiles of tape are available upon request, contact our technical department for details

TEFLON COATED GLASS FABRIC

Ensure a flawless finish and easy demolding by using our PTFE fabrics as a dedicated release interface. Available in both adhesive and non-adhesive formats to suit your specific molding process.

	Part number	Description	Temp (°C)	UOM
	PRO-VAC MLR-5	Silicone adhesive 1000 mm wide x 30 m long rolls	260	sqm
	PRO-VAC MLR-3	Silicone adhesive 1000 mm wide x 30 m long rolls	260	sqm
	PRO-VAC PCRS	PTFE Coated Release Sheet 1000 mm wide x 30 m long rolls	260	sqm
	PRO-VAC PTCG-001	PTFE Coated Glass Fabric 1000 mm wide x 30 m long rolls	260	sqm

INFUSION ANCILLARIES

	Part number	Description	Temp (°C)	UOM
	PRO-VAC Resin-Brake-bag	Economic micro porous vacuum line, 150 mm x 100m	80	Reel
	PRO-VAC HFVL-2	Micro porous vacuum line, 150 mm x 100 m	120	mtr
	PRO-VAC O-16	Omega profile, 16 mm x 2.5 m	60	mtr
	PRO-VAC SW	PE Spiral wrap for resin infusion Available in 10 mm, 12 mm and 18 mm i/d	100	mtr
	PRO-VAC I	PE hose for resin Infusion Available in 10 mm and 12 mm i/d	60	mtr
	PRO-VAC RHOSE-13	Vacuum hose - reinforced 13 mm i/d	60	mtr
	PRO-VAC RHOSE-19	Vacuum hose - reinforced 19 mm i/d	60	mtr
	PRO-VAC RSHOSE-18	Vacuum hose - plastics spiral reinforcement 18 mm i/d	60	mtr
	PRO-VAC V	PE infusion valve Available in 10 mm, 12 mm and 18 mm o/d	100	Each
	PRO-VAC INB-16	Infusion inlet block, 16 mm dia to suit PRO-VAC L connectors	100	Each
	PRO-VAC L-12	L connector for PRO-VAC INB-16 inlet block reducer to 12 mm o/d	100	Each
	PRO-VAC L-18	L connector for PRO-VAC INB-16 inlet block expander to 18 mm o/d	100	Each
	PRO-VAC T	T connectors for resin infusion Available in 10 mm, 12 m and 18 mm o/d	100	Each

Other sizes, widths and dimensions can be available upon request, contact our technical department for details



PRESSURE SENSITIVE TAPES

Developed as a direct alternative to the current products on the market. Used for fixing consumables into the moulds, easy to remove and replace, mainly used in pre preg applications. Advantages are that the adhesive does not leach out or run at high temperature and pressure. Other widths are available upon request.

	Part number	Description	Temp (°C)	UOM
	PRO-VAC 1G-25	Blue pressure sensitive adhesive tape, 25 mm x 66 m	180	Roll
	PRO-VAC 1G-50	Blue pressure sensitive adhesive tape, 50 mm x 66 m	180	Roll
	PRO-VAC 1F -25	Green pressure sensitive adhesive tape, 25 mm x 66 m (High tear resistance)	180	Roll
	PRO-VAC 1F -50	Green pressure sensitive adhesive tape, 50 mm x 66 m (High tear resistance)	180	Roll
	PRO-VAC T-TAPE25	Grey Teflon pressure sensitive tape, 25 mm wide x 30 m long	260	Roll
	PRO-VAC T-TAPE50	Grey Teflon pressure sensitive tape, 50 mm wide x 30 m long	260	Roll

SPRAY ADHESIVES

Developed as a direct alternative to the current products on the market. Used for fixing consumables into the moulds, easy to remove and replace, mainly used in pre preg applications. Advantages are that the adhesive does not leach out or run at high temperature and pressure



Part number	Description	Temp (°C)	UOM
PRO-FIX 3	Web spray glue 500 ml (Compatible with Polyester and Vinylester resins)	n/a	Can
PRO-FIX 55 	Epoxy compatible spray glue x 500 ml	n/a	Can
PRO-FIX 51	Epoxy compatible spray glue x 500 ml can	n/a	Can

HIGH TEMPERATURE FITTINGS

	Part number	Description	Temp (°C)	UOM
	PRO-VAC PLUGBV	High temperature vacuum plug 1/4" BSP	210	Each
	PRO-VAC SOCBV	High temperature vacuum socket 1/4" BSP	210	Each
	PRO-VAC BREACH75	High temperature breach unit 1/4" BSP - 75 mm base plate	232	Each
	PRO-VAC BREACH50	High temperature breach unit 1/4" BSP - 50 mm base plate	232	Each
	PRO-VAC HTHOSE	High temperature silicone hose, 8 mm i/d x 18 mm o/d	232	mtr
	PRO-VAC HOSEEND	High temperature hose end 1/4" BSP	232	Each
	PRO-VAC HOSECLIP	High temperature hose clip	232	Each
	PRO-VAC HOSESPRING	High temperature metal spring	232	mtr

Hoses can be made up to required lengths with any combination of fitting

ENKA INFUSION CHANNEL

	Part number	Description	Temp (°C)	UOM
	Enka profile 50/4	Resin inlet 50 mm wide	100	mtr
	Enka profile 100/4	Resin inlet 100 mm wide	100	mtr
	Enka profile 100/6	Resin inlet 100 mm wide (Higher flow)	100	mtr



BREATHER FABRIC

Breather fabric is used to evacuate air from a laminate before and during cure. We offer a 150 gsm and up to 340 gsm PET needed fabric. Its' most common use is with pre-preg products in the de bulking and curing steps



Part number	Description	Temp (°C)	UOM
PRO-VAC BEC-150	PES breather fabric, 150 gsm x 1,52 x 100 m long	210	sqm
PRO-VAC BEC-340	PES breather fabric, 340 gsm x 1,52 x 50 m long	210	Sqm
PRO-VAC B-150	PES breather fabric, 150 gsm x 1,52 x 100 m long	210	Sqm
PRO-VAC B-300	PES breather fabric, 300 gsm, x 1,52 x 50 m long	210	Sqm







KITTING

Kitting has been a key part of our growth, with the increasing trend for OME's using subcontracts for kitting to reduce Takt time and stock levels, it has been very important for PRO-VAC to follow this trend. Development of kits has driven the demand for novel products to fit the requirements of the end customer. PRO-VAC has access to large scale vacuum bagging kits and cut shape formats, welded and/or sealant tape joined, for the wind energy and marine markets down to ancillaries and solutions for small scale infusions. We are always looking for new ideas and find great satisfaction in innovating with new and existing customers.

Examples of kitting projects:

Cut shaped vacuum bags

- Straight and/or curved lines

Cut and sealed vacuum bag (Butyl)

- Sheets and tubes
- Largest vacuum bag sheet produced – 40 m x 80 m sheet

Welded vacuum bags

- Small and large scale

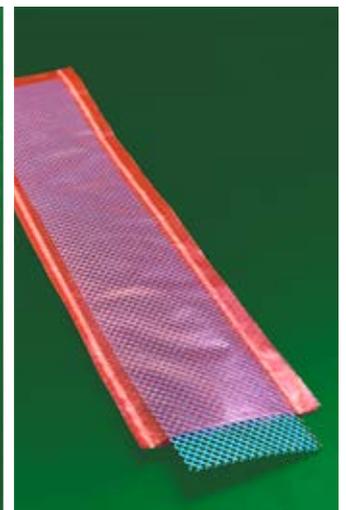
Combination products

- Release film/infusion mesh
- Peel ply / Release film / infusion mesh
- Release film / mesh for infusion lines
- Micron porous products for vacuum lines

Process material kits for wind blade repair

- Vacuum film, peel ply, release film, sealant tape, , ancillaries, resins, carbon and glass fibres.

Together with innovated and creative kitting partners we are equipped to tackle every challenge in the marketplace.



ELECTRIC DEVICES AND TOOLS

Precision Tools for Professional Excellence “Maximize your productivity with our specialized range of industrial equipment. From powerful hand-held cutting solutions to the most sensitive diagnostic sensors, we provide the technology you need to ensure system integrity and operational efficiency. Below, you will find a detailed breakdown of our latest electric cutters, vacuum gauges, and ultrasonic detection systems.”

ELECTRIC CUTTERS



The WBT-2

The WBT-2 is the most efficient solution for low-to-medium volume cutting of reinforcement fibers. Equipped with tungsten carbide inserts, these blades effortlessly slice through fiberglass, carbon fiber, and even tough aramid/Kevlar®.

This upgraded model delivers a significant performance boost: the high-speed motor and advanced lithium-ion battery make it 30-35% faster than its predecessor, while the improved blades offer 20% more durability.

Designed for professional consistency, the WBT-2 features a replaceable cutting head system. Once the edge wears down, simply swapping the head restores original factory performance instantly. It is an essential tool found in virtually every composite workshop. At Pro-Vac, we provide full support with a complete range of spare parts, including replacement heads and batteries.

The YJ-C50

The YJ-C50 is a high-performance, battery-powered circular cutter designed for demanding production environments. It features an integrated on-demand sharpening unit, allowing the operator to restore the blade's edge instantly with a single touch. This ensures consistent cutting quality and precision throughout the entire operation without interruption.

To maximize productivity and minimize downtime, the machine is supplied as a complete kit, including two high-capacity rechargeable batteries and an additional cutting disc. It is the perfect solution for continuous use in heavy-duty composite fabric preparation.



OTHER DEVICES

AccuTrak Leak Detector



Locate vacuum leaks faster with the AccuTrak Leak Detector. This electronic device detects the ultrasonic waves created by small air turbulences, making it the essential tool for identifying holes or weak spots in bagging films. Reliable, fast, and unaffected by wind or ambient noise.

Vac Checker



Ensure a flawless infusion with the Vac Checker. Beyond measuring deep vacuum, its Bluetooth capability enables full data logging for quality control records. By providing your customers with a digital certificate of the vacuum seal, you offer tangible proof of excellence and a superior level of quality assurance for every manufactured part.

“Connecting composites with our Global Partners”



With our excellent supply chain, it is possible for us to manufacture and develop new and novel materials within a reasonable time frame and without restricting minimum order quantities; therefore, if you are struggling to find a product that suits your process, we will be more than happy to open a technical discussion and work with you on a solution. We are also working very hard with our strategic partners to develop greener more sustainable materials and solutions for our customers.



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