

OUT WORK. OUT PERFORM. OVER ACHIEVE.

FOAM FABRICATION SOLUTIONS





Fiercely Reliable™

FIERCELY RELIABLE SINCE 1921.

Norseman Protective Solutions is the largest manufacturer and supplier of industrial fabric, foam and film protective solutions in North America. We provide customers with sustainable and durable protective solutions designed to improve operating productivity in the most challenging conditions.

GEAR2PERFORM

We make high-performing protective gear for people, products and environments. Count on Norseman gear to help you accomplish what you've set out to do. Our gear falls into these categories:

- · Industrial Fabric Solutions
- · Foam Fabrication
- · Construction Gear
- Portable Temporary Ducting
- · Containerized Shipping Solutions

OUR FIERCELY RELIABLE COMMITMENT

Norseman has strived to be a company that customers can rely on. Our design and manufacturing teams work alongside customers to understand their projects and working environments and to develop protective solutions that help our customers outwork, outperform and overachieve.

MANUFACTURING EXCELLENCE

Norseman operates over 100,000 square feet of quality-controlled manufacturing facilities across North America. We can meet tight delivery requirements and supply gear year-round.

FABRIC, FOAM AND FILM EXPERTISE

Our long-term relationships with suppliers across the globe allow us to source superior materials to manufacture our high-performing protective gear.

COAST-TO-COAST CUSTOMER ACCESS

Each of our branches and distribution locations has its own unique design capabilities, expertise in engineering and manufacturing, and staff with extensive knowledge of superior industrial fabrics, foams and films. This expertise is complemented by our sales and customer-support presence across Canada and the US, ensuring that every customer has direct access and support from our team.

We are Fiercely Reliable, working side by side with our suppliers, partners and customers for 100 years.

1.800.268.1918

NORSEMANSOLUTIONS.COM



FOAM FABRICATION

FOAM FABRICATION SOLUTIONS

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NORSEMAN. 5P PROCESS





PRODUCE

We make custom protective solutions manufactured from materials that perform, from suppliers we trust.



2

PROTOTYPE

We develop functional prototypes for pre-production validation and verification.



3

PRODUCTION

We manufacture coast-to-coast with in-house Integrated ERP technology and cross-border logistic resources.



4

PEOPLE

We are Fiercely Reliable, working side-by-side with our suppliers, partners, and customers, resulting in on-time, worry-free delivery.



5

PERFORM

Outwork, outperform and overachieve, with Norseman Gear.

DESIGN & DEVELOPMENT

NORSEMAN IS A FULL-SERVICE FOAM FABRICATOR.





ONE-STOP
SUPPLIER FOR
FOAM FABRIC
SOLUTIONS

Norseman foam fabrication solutions are designed for high performance to help you to accomplish what you've set up to do.

Starting with your concept, our foam experts will work with you to create a customized solution to meet your requirements. Solid model renderings are developed, integrating all details.

Outwork, outperform and overachieve, with Norseman Gear.

DESIGN CAPABILITIES:





DESIGN-BUILD MANUFACTURING

- · Our team of problem solvers will identify the best solution to align with your business requirements.
- Design/build solutions that can best adapt your existing designs or original concepts to the most innovative and cost-effective manufacturing methods.
- Our technical support helps you identify effective cost-saving solutions that won't compromise protective requirements.
- In-house designers and technical experts assist with material selection and recommend the best manufacturing methodologies to economically construct your protective solution.
- · Solidworks 3D modeling, utilizing CAD/CAM equipment and capabilities.
- Extensive foam and fabric supplier network, with both domestic and import options available.
- · In-house estimating capabilities.
- Flexibility to tailor estimates to meet your design needs while staying within your budget.

MATERIALS WE TRUST

MATERIAL CAPABILITIES:



WE USE MATERIALS THAT PERFORM



FROM SUPPLIERS WE TRUST.

Whether your application requires a specific material or combination of properties, Norseman's selection of specialty foams and fabrics, including preferred Zotefoams and foam Plastazote® and Evazote®, provides the flexibility to create customized solutions to meet your business requirements.

We understand and consider the application of each protective solution before we select the right foam for your project, including density, rigidity, and unique properties such as FR-rating.



DENSITY: Our foams range in density from 1.0 lb./ft. to 12.0 lbs./ft., offering different levels of protection and flexibility based on the application.



RIGIDITY: Our foams go from soft comfort foams, best for sports and leisure applications, to higher density foams, which can be used in outdoor recreation products and the construction industry.



UNIQUE PROPERTIES: Hypoallergenic foam grades used for patient-to-patient contact in the medical industry, marine-grade foams that meet 'SOLAS' approval, FR-rating for applications that require a vertical burn test certificate, and Static Dissipative and Conductive grades for sensitive components.



SUSTAINABILITY: At Norseman, we believe in successful, sustainable business practices that value the importance of preserving and positively impacting our environment. Our proactive actions minimize waste going to landfills. Our LDPE (low-density polyethylene) foams get compressed and baled using a specialized machine, similar to our cardboard, allowing us to find facilities that will recycle it easily. Also we ship our leftover XLPE cross-linked foam to be re-used in sports fields. We will always strive to ensure a better tomorrow for the next generation..

OUR FOAMS



- Crosslinked Polyethylene Foam (XLPE)
- · Zotefoams
- Evazote
- Plastazote
- Extruded Polyethylene Foams

- Polyurethane Foam
- Reticulated Polyurethane Foam
- Additional specialty foams, conductive, anti-static and static dissipative
- Polyethylene (EPE) Foam
- Expanded Polypropylene (EPP)

PROTOTYPING & PRE-PRODUCTION

PROTOTYPING CAPABILITIES:



PRE-MANUFACTURING FUNCTIONAL PROTOTYPES.





WHATEVER THE PROJECT.

WE HAVE YOU COVERED.

Using our in-house CAD/CAM equipment and capabilities, Norseman can produce 3-dimensional prototypes to validate and test before production.

Whether you require proof-of-concept, 3D printing services, molded parts, or functional prototypes, our product prototype development team can handle even the most complex requirements.

Outwork, outperform and overachieve, with Norseman Gear.

PROTOTYPING:

Accurate, robust and cost-effective fabrication that helps you assess your ideas before mass production.



CONCEPT MODELING

If you have an idea that needs to be designed and tested but don't know where to start, our team is able to create solid model renderings and 3D sketches for your innovation.



LOOKS/WORKS-LIKE PROTOTYPING

If you need to create a prototype, Norseman can quickly and efficiently create a prototype that fits your needs.

OUR SPECIALTIES:



FUNCTIONAL PROTOTYPES



PHOTO-AND-VIDEO READY MODELS



COAST TO COAST MANUFACTURING

MANUFACTURING CAPABILITIES:



100,000 SQUARE FEET



OF QUALITY
CONTROLLED
MANUFACTURING
FACILITIES ACROSS
CANADA.

Proudly manufacturing in Canada since 1921, we are continuously innovating our fabrication practices by developing new equipment, automating processes and techniques, and integrating technology to ensure we stay ahead of our customers' need for durable, versatile protective solutions.

Outwork, outperform and overachieve, with Norseman Gear.

A CENTURY OF MANUFACTURING EXCELLENCE

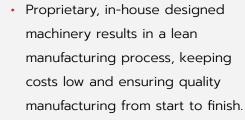
- · In-house design and technical team.
- In stock domestic and imported foams—if we don't have it, we will get it.
- · A century of manufacturing excellence.
- Certified to ISO 9001:2015 and ISO 13485:2016 (International standards) in our Norseman Langley, BC facility.

Full suite of state-of-the-art foam and fabrication equipment, including:

- CNC Routing
- CNC Waterjet Cutting
- Die-cutting
- Close Tolerance Splitting
- Foam Laminating
- · Fabric to Foam Lamination
- Thermoforming/Compression Moulding

- CNC Hot Wire Cutting
- Large Format Die Cutting
- Profile Cutting
- · Assembly and Packaging
- In-house Tooling design
- Vacuum Forming

OUR MANUFACTURING PROCESS



 All finished projects are thoroughly inspected before delivery to our customers.



PREVENTS ERRORS

& MISPROCESSING



REDUCES
MATERIAL WASTE



IMPROVES
PRODUCT QUALITY



MANAGEMENT & RESOURCE PLANNING

FIERCELY RELIABLE SINCE 1921:



OUR PRODUCTS & SERVICES ARE FIERCELY RELIABLE





MANUFACTURING EXCELLENCE

Our unique combination of foam CNC routing, CNC waterjet cutting, thermoforming/compression molding, laminating, skiving, and die-cutting & assembly services make it possible to provide cost-effective manufacturing solutions. From complete design & engineering services through to individual components, sub & full assemblies to finished products, Norseman provides a comprehensive and complete Foam Fabrication protective solution.



END-TO-END MANUFACTURING SOLUTIONS.

Your products are always evolving, as is our commitment to you. Our job isn't done once your product goes to market; there are improvements, revisions, upgrades, new variations and a wealth of other possible ways for you to continue to refine your product line. We're here to help you take your product from good to great to industry defining.

Outwork, outperform and overachieve, with Norseman Gear.



SUPERIOR QUALITY

Products are manufactured in compliance with all applicable drawings, specifications and requirements.



RESOURCE PLANNING & LOGISTICS

Norseman's integrated ERP system supports projects of any size. We manage all resources to produce reliable, cost-effective products with dependable delivery anywhere in North America. Our in-house process integrates cross-border logistics to ensure your products arrive on time and within budget. Dropshipping and just-in-time delivery programs are available.



FIERCELY RELIABLE COMMITMENT

Norseman is committed to reliability. Our design and manufacturing teams work alongside you to understand your projects and working environments and develop protective solutions that help you outwork, outperform and overachieve.

MEDICAL

CUSTOM FOAM SOLUTIONS FOR MEDICAL DEVICE APPLICATIONS & SPECIALTY HEALTHCARE USE.

Norseman is a full-service foam fabricator, serving highly specialized industries. Our medical and healthcare foam solutions range from finished foam products and components to assemblies and packaging.

Whether you need custom molded foam components for orthopedic devices from damage before surgery, foam for back, ankle, or knee braces, or foam to secure diagnostic sensors to a patient's skin, protecting both the device and the patient, we've got you covered. We have the expertise and experience to create a custom foam product that fits your exacting requirements.

The right foam product is vital to ensuring reliability and usability. Norseman has the foam and fabrication skills to ensure your success.

Our foam fabrication process adheres to strict codes and regulations that govern medical device manufacturing. Norseman maintains a current ISO 13485:2016 certification (International standards) in our Norseman Langley, BC facility.



NORSEMAN... 5P PROCESS

- 1. PRODUCE
- 2. PROTOTYPE
- 3. PRODUCTION
- 4. PEOPLE
- 5. PERFORM



HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:







Orthopedic brace and support components, from head to toe



Orthotics components for correcting biomechanical foot issues and pain relief



Seating and positioning components for wheelchair, as well as positioning pads for surgical and diagnostic procedures



Medical, surgical, and dental consumables such as clamp pads, suture holders, needle counters, and fluid applicators

For device and component manufacturers, we help protect your product with custom foam for:



Surgical device packaging



Orthopedic implant packaging

CASE & PACKAGING

HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:



CASE & PACKAGING INSERTS FOR PRODUCT PROTECTION & PRESENTATION

Norseman is a full-service foam fabricator, serving highly specialized industries. Our case insert foam solutions range from finished foam products and components to assemblies and packaging.

Custom foam case inserts aren't a luxury, they're good business. Not only do they protect your product, they enhance your reputation. First impressions count. When your products are packaged sturdily and attractively, the perceived value to the customer increases dramatically and you gain credibility.

Not only do our solutions provide protection against the bumps and crashes of delivery to the customer, they also provide a durable, secure home after they've been received. For your customer, that's a win-win.

We don't believe in a cookie cutter approach to your packaging needs. Each order is custom designed with care by our technical foam experts to give your product the protection it needs and deserves.







- 1. PRODUCE
- 2. PROTOTYPE
- 3. PRODUCTION
- 4. PEOPLE
- 5. PERFORM



We use nitrogen-blown, cross-linked polyethylene from foam leader Zotefoams. This provides a chemically inert material with virtually no out-gassing or silver-staining.

We can precisely thermoform, or CNC cut the shape required.

For device and/or instrument parts, each component gets its own home. Multi-cavity depths and a variety of available colors enhance the functionality and appearance of your product's case.

Our 3-D engineered design and CNC production expertise means you get the quality custom designed case inserts guaranteed to meet your company's specific application.

Using a CNC machine, we create foam inserts that meet your exact specifications. We'll use the layout you send us to cut out the shapes of your tools or products so they'll fit snugly into your case, drawer or your preferred containment solution.

We're your partner every step of the way: assisting in calculating the best foam density based on the weight, height, size, fragility of your product, and the method of shipping, all specific to your product.

This applies to all case insert foams and foam/fabric products we manufacture, including:



- Drone Case Insert
- Camera Equipment Inserts
- Tool Inserts



- Consumer Product Packaging Inserts
- Mechanical Case Inserts
 And more...

FOAM PACKAGING

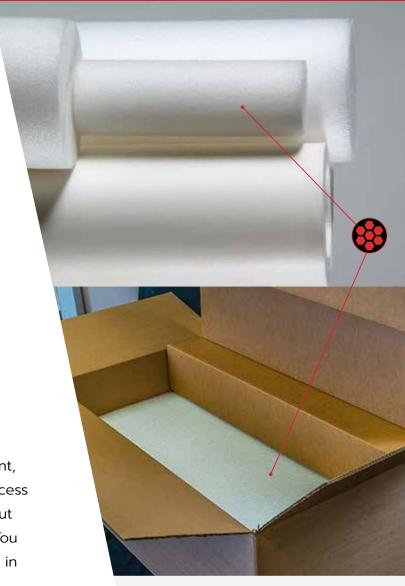
FOAM PACKAGING & RETURNABLE DUNNAGE SOLUTIONS.

Norseman is a full-service foam fabricator, serving highly specialized industries. Our packaging foam solutions range from finished foam products and components to assemblies and packaging.

When it comes to innovative product development, you think outside the box. Your product and process are more than your livelihood; they're your life. But making your product isn't the end of the story. You need to ship it to the customer, undamaged and in one piece. That's where we come in.

Norseman thinks inside the box. We design and develop foam packaging materials that keep your products safe and sound on their trek to the end user. Packaging for transit can bite into your bottom line. You don't want to overpack, wasting money, but you don't want to under pack your product, risking damage to the product during delivery and resulting in costly returns. We design packaging that will save you money.

Norseman helps protect your product, and your bottom line.



NORSEMΔN **5P PROCESS**

- 1. PRODUCE
- 2. PROTOTYPE
- 3. PRODUCTION
- 4. PEOPLE
- 5. PERFORM



HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:



- · Our Foam Fabrication Experts work together, combining their years of expertise in the shipping foam business to ensure your products get to your customer in the same condition as they left your shipping docks.
- · Your packaging is designed and built with advanced software and fabrication equipment that's unmatched by anyone in the industry.
- Returnable dunnage foam packaging is form-fitting to unique part contours and offers a high level of part protection to Class A surfaces. These reusable foam solutions can be incorporated into hand-held totes, bulk containers, and steel returnable containers.
- · Custom packaging that fits its design, no matter if it takes a simple square or a complex geometrical design.
- · Unlike packing peanuts or bubble wrap, you're able to control the size of the box-keeping both its size and overall weight to a minimum—while still providing optimal protection. In most cases, that means your shipping costs are reduced, often significantly.
- · We use top quality foams and help you choose the right one for your project. The foam padding not only protects your product from shipping damage, but is also compatible with your product's materials.

This applies to all packaging foams and foam/fabric products we manufacture, including:

- Full Service Packaging & Dunnage Solutions Available
- Packaging solutions: Electronics
 - Tools
 - Auto Parts
 - Breakables

- Medical Grade
- End Caps & Inserts
- Cushion & Protective And more...



SPORTS, RECREATION & LEISURE

HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:



CUSTOM FOAM FOR SPORTS, RECREATION, AND LEISURE.

Norseman is a full-service foam fabricator, serving highly specialized industries. Our sports, recreation and leisure foam solutions range from finished foam products and components to assemblies and packaging.

Foam provides protection in the sports & recreation industry. You design and build sporting, recreational, and leisure products that work as hard as your customers play. You know and understand that quality and comfort are essential, whether your customers are seasoned pros or weekend warriors. Norseman has the right foam and fabrication skills to ensure your success.

At Norseman, we are continuously innovating our fabrication practices by developing new equipment, automating processes and techniques, and integrating technology to ensure we stay ahead of our customers' need for durable, versatile protective solutions.





NORSEMAN. 5P PROCESS

- 1. PRODUCE
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Impact absorbing foam components for sports equipment



Protective eyewear components for the sports enthusiast



Comfort padding for recreational and sporting helmets



Custom foam components for kayaks, boats and other recreational sports equipment to make them more comfortable for long-term or extended use.



Recreational backpack padding to make long hikes a walk in the park



Knee and elbow padding for comfort and production for your customers that are hardcore sports warriors



Custom foam padding, with the option to be customized with your logo or a custom cutout to brand your products and stand out from the crowd



Padding components for knee and ankle braces

This applies to all marine foams and foam/fabric products we manufacture, including:

- Sporting Good & Equipment Foam Components
- Exercise Equipment Foam
- Athletic Mat & Matting Foam

- Crash Pads & Padding Foam
- Canoe and Kayak Seating
 And more...



HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:



FOAM PRODUCTS FOR MARINE APPLICATION.

Norseman is a full-service foam fabricator, serving highly specialized industries. Our custom marine foam solutions range from finished foam products and components to assemblies and packaging.

Not every foam or foam/fabric product is suitable for life on the high seas or inland waterways. It takes specialized knowledge to understand what does and doesn't work. The foam and fabric experts at Norseman have that knowledge. We know the properties marinegrade foams and fabrics must have to withstand the rigors of marine applications.

We start by determining the conditions the product will face, the amount of wear and tear expected, and any other special circumstances and regulations that must be accounted for. Then we'll find the absolute best foam or foam/fabric combination that will maintain peak performance, regardless of conditions encountered.

Norseman has access to a large selection of high-performance foams, including brands exclusively available to us. Foams with the proper density and porousness are chosen for your project. And if you have applications that must meet SOLAS approval, we have specialty marine-grade foams that meet the standards. That means we can help you with marine foam applications from fishing boats and pleasure crafts to cruise ships and cargo ships.





We consider the density and porousness of foam when we select one for your project, including exceptional marine-grade foams that meet SOLAS approval.



Norseman maintains a current ISO 9001:2015 and ISO 13485:2016 certification (International standards) in our Langley, BC facility.

NORSEMAN. 5P PROCESS

- 1. PRODUCE
- 2. PROTOTYPE
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This applies to all marine foams and foam/fabric products we manufacture, including:



- Boat and Marine Foam Components
- Defense Marine Flotation Requirements
- Seal and Gasket Foam
- Flotation Foam Products
 And more...

SAFETY PROTECTION

HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:



SAFETY PROTECTION EQUIPMENT SOLUTIONS

Norseman is a full-service foam fabricator, serving highly specialized industries. Our foam/ fabric solutions can be customized to meet your requirements and range from finished foam products and components to assemblies and packaging.

You design and build exceptional sporting, recreational, and leisure products. You know and understand that quality and comfort are essential for your customers, whether they're seasoned pros or weekend warriors.

Foam is the number one protective barrier for personal protection applications. Norseman has the right foam and fabrication skills to ensure your success.

At Norseman, we are continuously innovating our fabrication practices by developing new equipment, automating processes and techniques, and integrating technology to ensure we stay ahead of our customers' need for durable, versatile protective solutions.

Outwork, outperform and overachieve, with Norseman Gear.





Foam solutions perfect for wide temperature ranges and wet/moist environments



Superior foam performance; UV resistant, water resistant, suitable for hot and cold environments, cleanable, mildew resistant, and antimicrobial



Norseman maintains a current ISO 9001:2015 and ISO 13485:2016 certification (International standards) in our Langley, BC facility.



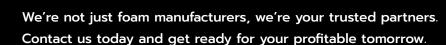
- 1. PRODUCE
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- · Crash Pads
- Padding Components for the Body

- Protective Eyewear Components
- Molded Closed Cell Foam Protected Pads
 And more...





This applies to all protective foam/fabric products we manufacture, including:

COMFORT

COMFORT SOLUTIONS FOR OEM'S.

Norseman is a full-service foam fabricator, serving highly specialized industries. Our foam comfort solutions range from finished foam products and components to assemblies and packaging.

If you're in the business of making your customers comfortable, we're in the business of helping you accomplish that goal. You help people enjoy life from the comfort of your quality, expertly designed furniture. You also help your customers get a good night's rest, ready to face the day after napping on your plush, comfortable bedding products.

We can supply the raw materials you need to create a quality product that you can be proud of and your customers will fall in love with. Our selection of top-quality foams allow you to make the right choice for your outdoor recreation, furniture, and bedding products.

We've established partnerships over our long history with some of the absolute best foam suppliers in the world. Our comfort foams are sourced from trusted companies like Carpenter. We work with you to secure the foam products that are specifically formulated to meet your exacting standards.



NORSEMAN. 5P PROCESS

- 1. PRODUCE
- 2. PROTOTYPE
- 3. PRODUCTION
- 4. PEOPLE
- 5. PERFORM



HERE'S WHAT YOU CAN EXPECT FROM NORSEMAN:







DENSITY: We start by determining the level of protection, flexibility, and wear resistance your product requires. Whether for indoor or outdoor use, you'll get the correct foam density to satisfy consumers' preferences.



RIGIDITY: Choosing the right rigidity means your product supports the user's weight and comfort levels.



UNIQUE PROPERTIES: If you require products with an FR rating or hypoallergenic properties (and more), just ask.

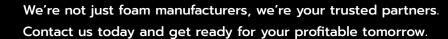


ISO CERTIFIED: Norseman maintains a current ISO 9001:2015 and ISO 13485:2016 certification (International standards) in our Langley, BC facility. ISO®

This applies to all comfort foams and foam/fabric products we manufacture, including:

- Bed Foam
- Bedding Foam Components
- Cushions Foam

- Furniture Foam Components
- Soft Protective Padding
 And more...





NORSEMAN.PROTECTIVE SOLUTIONS

Fiercely Reliable TM

For over one hundred years, Norseman has been the industry expert. Product diversity and a willingness to offer customers a 'Concept to Completion' solution that exceeds their expectations is how we plan on remaining the expert. 2021 marks the celebration of 100 successful years in business for Norseman; it is also the 60th anniversary of the Bryant family owning the company. From the beginning, Norseman has established a solid reputation for producing quality products and we are proud to continue that reputation today.

On behalf of Norseman Protective Solutions, we thank you for the last one hundred successful years and look forward to sharing the next one hundred with you.

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Ron Bryant

President and CEO, Norseman Group

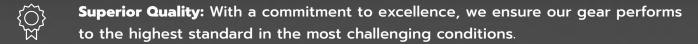


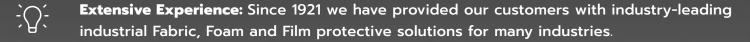


NORSEMAN, YOUR ONE-STOP SUPPLIER OF GEAR2PERFORM.









For more information on Norseman protective gear, contact your local sales representative.

FOAM FABRICATION SOLUTIONS





