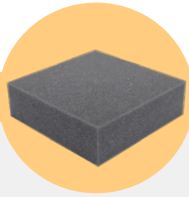




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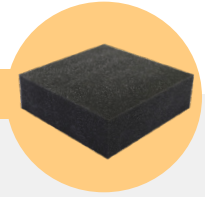
Foam Fabrication

Polyether Polyurethane



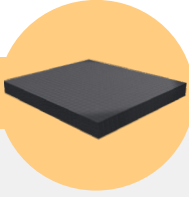
- Open cell foam
- Light weight
- Low odor
- Low tensile strength
- High resistance to mildew
- Permeable to air and water
- Usually cream, light yellow, or amber in color

Polyester Polyurethane



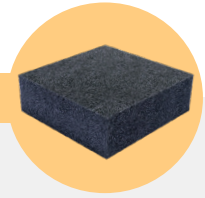
- Open cell foam
- Low odor
- Light weight and exceptionally soft
- Excellent memory characteristics
- High tensile strength
- High resistance to mildew
- Permeable to air and water
- Uniform texture and density with no skin

Crosslink Polyethylene (XLPE)



- Micro-cell, closed cell foam
- Chemically stable
- Range of densities, able to support various weights
- Extremely smooth surface finish

Polyethylene Foam



- Closed cell foam
- Light weight and cost-effective
- Shock absorbent
- Vibration-dampening
- Insulation properties (depending on product specs)
- Cut, carve, and bonds easily
- Recyclable

Reticulated Foam Acoustic or Filter Foam



- Extremely open cell foam
- Highly porous and low density
- Energy and sound absorbent
- Vibration dampening
- Resistant to mildew
- Low thermal conductivity

Anti-Static Foam



- Low range electrical resistance
- Usually pink in color
- Prevents and inhibits buildup of electro-static charges

Expanded Polypropylene & Expanded Polyethylene (EPP / EPE)



- Closed cell bead foam
- Excellent energy absorption
- Impact, water, and chemical resistant
- Thermal insulation
- High strength to weight ratio
- Recyclable

Static Dissipative Foam



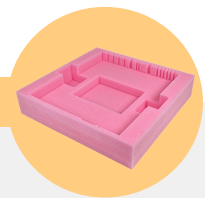
- Middle range electrical resistance
- Controlled transfer of static charges
- Offers great cushioning performance
- Permanent protection

Fire Retardant Foam



- Chemically treated foam
- Slow burning or self-extinguishing

Conductive Foam



- Highest level of electrical resistance
- Excellent EMI shielding
- Ability to drain away electronic currents instantly

CNC Waterjet Cutting

TCH uses a 5-axis waterjet and a 3-axis multi-head waterjet, which offers unlimited possibilities of shapes and profiles.

With the ability to cut a variety of materials, it also features high precision a 0.005" beam of water that cuts foam extremely quick.

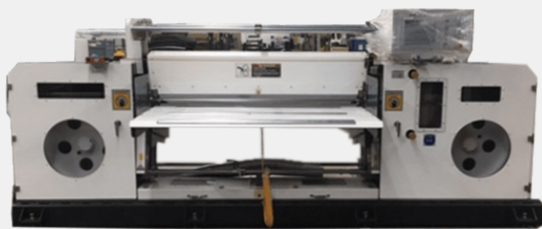


Converting and Slitting

Our horizontal bun cutter can accurately split soft polyurethane, elastomeric foams and gasket. Our Skiving saws do the same for the rigid polyethylene and crosslinked polyethylene up to 6 lbs/cubic foot densities.

These are computer controlled for repeatable precision and accuracy.

Skiving



Used for horizontal cutting of hard foams up to 67" wide, 8" high, and any length. Our Skiving machine is computer controlled for accurate cutting.

Gluing and Assembly

Adhesives are selected based upon material, bond, and planning assembly. Pressure-sensitive adhesives (PSA) are employed, hot melt glue as a spray, roller, and handgun application, heat welding for larger surfaces, and hot air welding for smaller areas.

CNC Routing

The 3-axis CNC router is a high speed, large bed machine capable of accommodating most sheet materials. It includes a 7-station tool changer and an automatic measuring system. The tool changer minimizes setup and processing time. With the 18HP vacuum holding, materials are kept in place. The 12HP spindle drive can handle large diameter tool bits, reducing the tool paths and overall machine time.



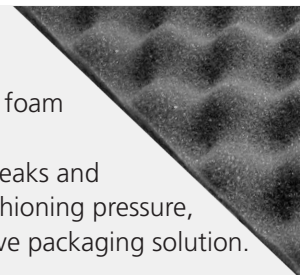
Die Cutting

Provides fast, simple and high-volume fabrication method to cut sheet stock. By adjusting the die and sheet thickness, a variety of shapes can be achieved. Foam is compression cut by driving the dies through.

Die cutting delivers one of the lowest cost methods with consistent quality.

Convoluting

Our custom built convoluting horizontal saw transforms soft foam stock into "egg-crate" shapes. Lightweight and flexible, the peaks and valleys created reduces the cushioning pressure, making it an ideal, cost-effective packaging solution.



Strip and Block Fabrication

For simple geometric shape blocks, we use an arsenal of dedicated foam band-saws for quick and accurate cutting. Able to handle large stock to cut precise dimensions or angles and bevels with our tilting saw.

FOAM IS WHAT WE DO

Automotive

Construction

Electronics

Industrial

Medical & Dental

Military & Defense

Retail & Consumer

Sport & Leisure



About TCH

TCH is more than a distributor; we are a **solution center**.

With over 40 years of experience, along with a knowledgeable and experienced team, we are committed to your satisfaction. Trust in us for fast order fulfillment, competitive pricing, and custom services.

We offer an extensive line of products and services in:

- Case Hardware
- Access Hardware
- Electromechanical Hardware
- Foam Fabrication

Custom Designs & Part Modification

Our custom concept services are created through engineering, manufacturing and delivery. We can design new solutions based on your requirements or incorporate new features and functions to existing products.

Manufacturing Services

Our wide selection of custom services allows us to find the ideal solution for your specifications and needs.

Services include:

- Rapid Prototyping
- Product Development
- Name Branding
- Waterjet Cutting
- CNC Machining
- ... and more

For more information on products available through TCH, please view our Electronic Hardware, Industrial Hardware and Case Hardware line cards.

Or visit us at:
www.tchweb.com

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