

# Capabilities Guide

Conversion & Fabrication Services



**ESSEX  
ACTIVE**

Customized  
Services

Premier  
Suppliers

Engineering  
Support

Flexible  
Fabrication

Extensive  
Experience

Versatile  
Capabilities

ISO Quality  
Management  
System & UI  
Recognized



## Partner With Us

**Essex Active is a service brand of Essex Brownell.**

Essex Active is a conversion and fabrication solutions provider for projects of any scope within markets of all sizes. Essex Active a recognized industry leader in slitting, sheeting, cutting, chopping and laminating as well as die cutting, stamping, punching and part forming.

For over 50 years, we have made doing business simpler by forming mutually beneficial relationships and being active participants in thought leadership, innovation, and quality elevation. Today, we serve at the request of our constituents and have worked to earn them billions in sales. Our team can ease the burden with on-going projects or first-to-market opportunities, making Essex Active a partner to trust.

Our business is grounded in quality materials; with quantities that can satisfy any order, and is driven to meet ambitious production times to ensure your product arrives when you need it. We rely on our expertise to ensure that specifications are not only met but can also offer unique concepts in order to improve the component performance.

Essex Active has a team of solution consultants available to take your call and help navigate towards the best outcome for your business. If you have questions and need immediate assistance, call **1.800.805.4636** or email [info@essexbrownell.com](mailto:info@essexbrownell.com).

## Keys to Customer Success

Essex Active provides a one-stop shop for fabrication and conversion services. We'll simplify your processes and you'll love working with our responsive, reliable and able teams, as we develop innovative solutions for your most pressing technical issues. We recognize the uniqueness of your challenges. We provide solutions designed specifically to meet them. Connect with one of our experts to request a quote.



Process



Quality



Reliability



Service



# Conversion & Fabrication

## Exceeding Service Expectations

We are a leader in the conversion and fabrication trade; by using our custom solutions for the industrial as well as electrical marketplaces, Essex Active is the partner to help elevate your business. Our business operates inside of two facilities—located in Fort Wayne, Indiana as well as Torreón, Mexico—totaling over 100,000 square-feet; featuring over 100 pieces of equipment that can ensure the safe, high-quality, customer-driven, and cost-effective services that will save your business time and money.



### Rewind Slitting

When your business is looking to cut insulation, film, laminates, fabric, foam, rubber, or most any material, rest assured that we have the machinery and manpower to make a major project go from overwhelming to out-the-door.

### Tape Slitting

If you are in need of precision cutting, to standard or custom widths, we can provide efficient slitting for a wide range of products. We also perform lathe, score, and shear slitting by single knife or zero tension.



### Sheeting

If you are currently cutting material in-house it is time to let Essex Active take over. Our team can provide drum sheeting, reciprocating, and shear cut sheets for both small quantity & OEM needs. We offer stock and custom sizes, packaged to fit your needs.

### Laminating

Our team will help you select from a wide array of material from papers or fibers as a reinforcement. We also can combine PSA adhesive tapes with release liners to a wide variety of substrates. Essex Active will help your business improve its efficiency and reduce waste.





## Die Cutting

Essex Active uses state of the art rotary and semi-rotary die cutters, flatbed die, steel rule die, laser die, and punch presses to ensure your cutting needs are met. We also offer a wide variety of cuts for other high volume or tight tolerance applications.

## Part Forming & Square and Round Wedges

Our team can expertly provide hot or cold part forming, as well as thermoforming. We already lead in the electrical industry but our consultation team will work with you on any specialized needs to design and develop parts.



### NEW SMT WEDGE MACHINES

Exceptional quality control | Increased efficiency | Custom dimensions



## Wire Rewind & Stripping

Our conversion processes aid in producing exact sized and stripped wiring, ready to go straight into production upon arrival at your facility. We strip and re-spool lead wires, tube cutting, fiberglass, and more to reduce inventory and increase productivity.

## Kitting & Customized Packaging

Our team will work with you to design customized kitting and packing solutions. Your kitting will be produced to your specifications and shipped ready to use for efficient assembly and reduction of waste.



## Cutting & Chopping

Our cutting and chopping services are ideal for rigid materials, including mica and fiberglass, for preparation in insulation and other industrial applications. Our machinists use high-efficiency blades and bandsaws get jobs done on time and inside of budget.

## Rapid Prototyping

Our process of fast prototyping allows your team to test each product iteration to ensure optimal design and functionality. We will provide you the resources to determine the best possible materials, parameters, and processes to make your project successful.





## Application Markets

### Transportation

Essex Active is equipped to elevate your position within the EV and HEV marketplace by helping to save time, reduce waste, and increase efficiency with solutions for wire insulation, alternators, motors, stators and other components.



### Power Supply, Distribution & Conversion

We are instrumental in the fabrication and conversion services to improve functionality of parts for transformers and low-voltage applications, as well as the design protection that electrical and power engineering require.



### Commercial & Residential

Our team makes certain to shield magnet wire from heat and high-voltage operations of motors on furnaces and AC units, along with hermetic motor applicators, pump and compression motors, garbage disposals, and many other daily appliances.



### Aerospace

We provide high-grade, temperature-resistant materials to ensure top performance in motors and switchers in the aerospace industry. Our partnerships with leading developers of military, industrial, and commercial applications, will bring solutions to you.



### Oil & Gas

Our team is involved in the upstream, midstream, and downstream aspects of the oil & gas industry by creating modern solutions. Our experts provide precision services for motors, generators, lighting, and downwell cabling insulation for multiple industries, including mining.



### Renewable Energy

Essex Active provides critical support for renewable energy sources. Our partners have benefited from slitting, sheeting, and die-cut materials for solar panels and hydro generators as well as materials for precision building on each blade for wind turbine pitch motors.



### Military & Defense

Essex Active is a strategic partner to military & defense builders, helping to deliver results for the insulation wire for highly engineered transformers, Generac generators that tolerate temperatures to 200°C, as well as diesel locomotive electronics.



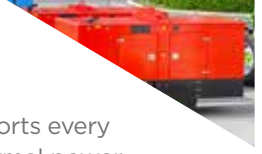
### Industrial

We can support sub-fractional motors, welding equipment, plasma cutters, and more. Our expertise ranges from rapid prototyping for new machinery, to die cutting, kitting and packaging, slitting, sheeting, or cutting and chopping.



### Power Generation

Our team supports every detail from thermal power stations to renewable energy sources. We have extensive knowledge with power generators, distribution transformers, as well as small and mid-sized generators allows us to service instrument transformers with flexible insulation.



## Applications



Electronic Insulations



Gaskets



LED Lighting



Assembly



Tapes

# Manufacturing Partners

Essex Active, a service brand of Essex Brownell, is keenly focused on manufacturing solutions through innovative and responsive fabrications as well as conversion services. Our rich history, spanning decades across a multitude of markets and all types of applications, has proven time and again that using quality parts will make quality products.

While a statement that quality begets quality is hardly a revelation, it is part and parcel with our commitment to exceeding expectations. Essex Active is perpetually seeking mutually beneficial relationships to source the highest quality material to meet the needs of our customers.

Essex Active proudly features our manufacturing partners, such as 3M®, DuPont®, and Isovolta® among others, to showcase that corners will not be cut and that profitability—while important—does not supersede our reputation for excellence.



## Premium Materials



### Coated Fabrics

Silicone Glass  
PTFE  
Foam  
Felt  
Rubber



### Films

Nomex®  
Kapton®  
Mylar  
PET  
B-Staged  
Inorganics



### Laminates

DMD, DM (Dacron® Mylar® Dacron®, Dacron® Mylar®)  
NMN (Nomex® Mylar® Nomex®)  
NKN (Nomex® Kapton® Nomex®)  
RMR, RM (Rag Mylar® Rag, Rag Mylar®)  
TFT



### Papers

Kraft  
Crepe  
Diamond Dotted  
Press Board  
Vulcanized Fiber



### Rigid Composites

Phenolic (ex: GP-01)  
Fiberglass  
Mica  
Dog Bone



### Tapes

Vinyl  
Glass Cloth  
Filament Reinforced  
Pressure Sensitive  
Conductive Foil



A Complete List of Our Suppliers and Brands

At Essex Brownell our network consists of over 450 trusted suppliers. We can cater to a wide range of industries, offering diverse solutions that can meet unique customer business needs. Our partnerships are beneficial for all parties involved, and we are determined to continue finding more reliable suppliers. Because of these strong collaborations and our ambitions, customers can be confident knowing that we are providing the best solutions for them. Building and maintaining these relationships is instrumental to us here at Essex Brownell.

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# Why Essex Active?



50+ Years Experience  
Supporting Customers  
of All Size

Multiple Converting  
Locations with  
Duplicative Capacity

Strong Supplier  
Partnerships

Multi-Functional  
Support

Rapid  
Prototyping

Flexible  
MOQ's

Global Reach,  
Local Support

The Latest  
Converting  
Technologies



📍 Branch Location    
 📍 Essex Active Fabrication    
 📍 Headquarters

- |  |   |   |
|--|---|---|
| <span style="color: red;">01</span> Chicago, IL    | <span style="color: red;">07</span> Houston, TX   | <span style="color: red;">11</span> Reno, NV                |
| <span style="color: red;">02</span> Denver, CO     | <span style="color: red;">08</span> Lubbock, TX   | <span style="color: red;">12</span> Tempe, AZ               |
| <span style="color: red;">03</span> Edison, NJ     | <span style="color: red;">09</span> McAllen, TX   | <span style="color: red;">13</span> Torreón, MX             |
| <span style="color: red;">04</span> El Paso, TX    | <span style="color: red;">10</span> McDonough, GA | <span style="color: red;">2024</span> Mexico Location, 2024 |
| <span style="color: red;">05</span> Fort Wayne, IN | <span style="color: red;">13</span> Memphis, TN   |   |

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