



Lowering Assembly Costs and Raising Process Efficiencies Through Innovative Technology



Oligomers • Adhesives • Coatings • Dispensing Systems • Light-Curing Systems

# Dymax: A History of Innovation in Light-Curing Technology

Originally founded by Andrew and Clai Bachmann as the American Chemical and Engineering Company in January 1980, Dymax Corporation has evolved into an ISO 9001 certified, world-class leading manufacturer of UV light-curable oligomers, adhesives, coatings, dispensing, and light-curing systems for the medical, electronic, optical, glass, plastic, metal, masking, and packaging markets worldwide. More than 30 years after incorporation, the Dymax mission remains the same:

"Dymax solutions maximize manufacturing efficiencies by increasing throughput, enhancing quality, conserving energy, improving safety, and reducing environmental impact."

By delivering the most efficient solutions, Dymax has maintained steady growth year after year. For the fifth year in a row, Dymax has been identified by Inc. Magazine as one of the 5,000 fastest-growing private companies in the country. In 2010, Dymax was awarded an Export Achievement Certificate by the U.S. Department of Commerce.

The award recognizes companies that show growth in exports and remain in good financial standing.

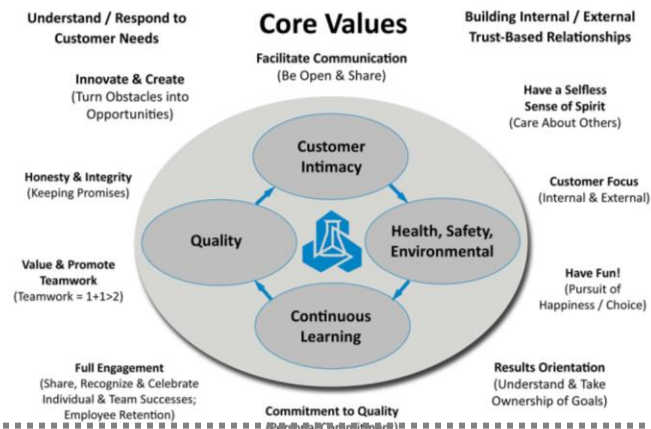


Greg Bachmann, Director & Chairman of Dymax Companies

In 2011, The U.S. Small Business Administration named Dymax Corporation's Director & Chairman, Greg Bachmann, Connecticut's Small Business Person of the Year for his leadership and success with Dymax.

## Core Values

Dymax's culture and business strategy is governed by the following core values:



## Dedication to Innovation

Through the years, Dymax's dedication to innovation has resulted in over 30 oligomer, adhesive, and equipment patents. Today, these innovative products and technical solutions offer design and manufacturing engineers the means to dramatically improve manufacturing efficiency and lower total processing costs.

## See-Cure Technology

Dymax adhesives with patented See-Cure technology are bright blue in an uncured state. This makes them easy to see on the surface of substrates, in deep wells, or when placed between two layers of materials, while enabling simple confirmation of the quantity and location of placement. As the adhesive begins to cure, its blue color begins to fade and ultimately turns clear after it has cured. See-Cure adhesives are specifically formulated to ensure that this visually obvious color change occurs only after the adhesive cures. This serves as a visible confirmation that the adhesive has received a sufficient dose of energy to cure. See-Cure technology improves manufacturing processes and helps increase profitability by streamlining cure validation, reducing line stoppages, and increasing throughput.

## See it Cure from Blue to Clear



## Ultra-Red™ Fluorescing

Ultra-Red™ fluorescing technology, formulated into Dymax adhesives, enhances bond-line inspection processes and product authentication. The adhesives remain clear until exposed to low-intensity UV light at which point they fluoresce bright red. This is particularly effective while bonding plastics that naturally fluoresce blue, such as PVC and PET. Ultra-Red technology also produces a unique spectral signature that can be used by manufacturers for product authentication.



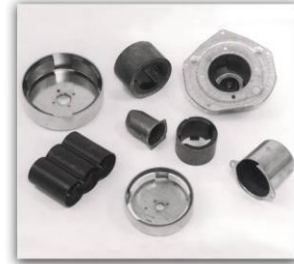
# THIRTY YEARS OF DYMAX INNOVATION

From the 1980s through the 21<sup>st</sup> Century

## 1980s

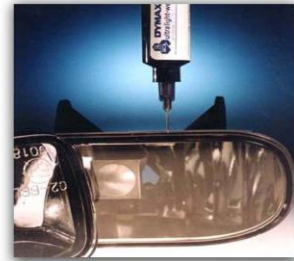
### Aerobic Acrylic Adhesives Introduced

- Fixtures in 15-30 seconds with activator
- Displaced traditional, slower, and flammable “second generation” acrylic (SGA, modified acrylics, methacrylate adhesives technology)
- Provided tough shock- and impact-resistant bonds
- Created quiet motors
- Allowed 100% in-line Q.C. testing



### UV Light & Multi-Cure<sup>®</sup> Aerobic Adhesives

- UV cures in seconds “on demand” (only when exposed to light)
- Bond, coat, pot, seal, and tack in 1-to-10 seconds
- *Multi-Cure* adhesives offer combined activator, heat, and UV cures
- Adhesive grades developed for plastic, glass, and metal bonding



## Mid 1980s

### UV-Curing Lamps and Medical and Electronic Adhesives

- First spot/wand UV light-curing lamp
- First flood UV light-curing lamp
- Comprehensive line of UV light-curing lamps and conveyors
- First USP Class VI medical disposable-device adhesives
- First solvent-free, UV light-curable conformal coatings
- Comprehensive line of adhesives for electronic assembly



## 1990s

### Visible Light-Curable Adhesives and Optical Encapsulants

- UV+ visible cure for bonding UV-blocked plastics
- UV+ visible cure for faster light cures
- Encapsulants for hybrid circuit assembly
- Low-outgassing and low-shrinkage grades
- UV+ two part for cures in shadowed areas
- Acrylic acid-free, regulatory-compliant adhesives



## 21<sup>st</sup> Century

### Products and Applications

- High-intensity BlueWave<sup>®</sup> 200 UV spot-curing lamp
- UV light-curable gaskets and dome coatings
- Flexible circuit & LED encapsulants
- UV light-curable adhesives that bond silicone
- UV light-curable optical hard coatings
- UV light-curable resinous masking compounds
- See-Cure adhesive technology
- Ultra-Red<sup>™</sup> fluorescing technology
- LED light-curing equipment





Dymax Corporate Headquarters

Dymax Corporation is located in a 100,000 square foot facility in Torrington, CT. Company Director & Chairman Greg Bachmann is confident that the facility will support current and projected growth into the next decade. Today, Dymax has 240 employees globally with additional facilities in Germany, China, Hong Kong, and Korea.

We will continuously improve our technology, quality, efficiency, and commitment to achieving customer satisfaction by providing innovative, total system solutions that add value to our customers by improving manufacturing efficiency, quality, and worker safety while reducing environmental impact.

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