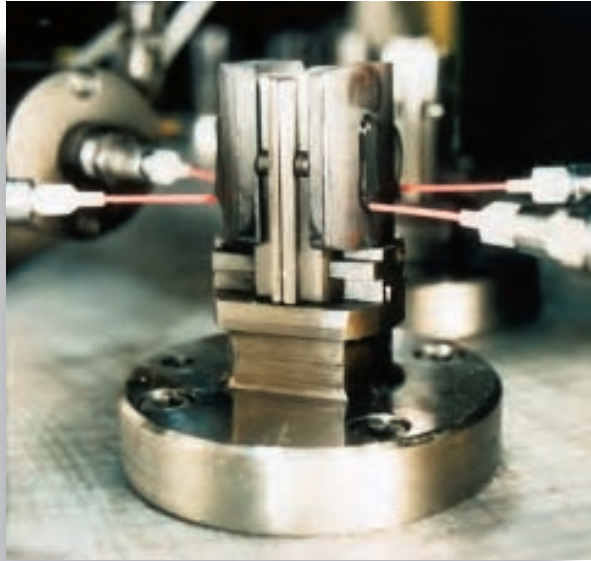


# Adhesives and Coatings for Automotive Assembly

THE ROAD TO EASIER AUTOMATION



MOTORS - TRIM - SOUND SYSTEMS  
GLASS - ELECTRONICS - LIGHTING



## Driving you to productivity with advanced adhesive chemistry.

For over twenty years, Dymax has supplied automotive manufacturers with adhesives, coatings and light curing systems to lower total manufacturing costs and increase profits.

Providing designers with technology to create cutting-edge products, while dramatically improving automated manufacturing processes, has been and remains our primary objective.

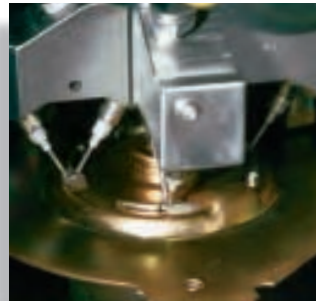
We realize that the fastening process of any assembly application often introduces time consuming off-line operations or the use of resins with long cure times

that are difficult to dispense, control and maintain. Processes that consume space, produce rejects or require expensive venting and safe handling procedures eat into profits.

Dymax one component, 100% solvent-free resins cure in seconds and are designed to be integrated into assembly lines to make automation easier.

Dymax offers international technical support to assist you with adhesive selection,

program implementation and curing and dispensing equipment that is perfectly matched to the resin and the application. If one of our standard formulations doesn't meet your needs, we'll customize one that does.



**T**he hot melt used for this flange sealing process was stringy, resulting in excessive down time for maintenance and rework. A Dymax light-curing sealant maintained a constant viscosity during in-plant temperature variations, dispensed easily and consistently and ended a time-consuming assembly process.



# Dymax products are everywhere you need performance!

## QUIETER MOTORS

Patented acrylic acid-free adhesives yield longer lasting motors. Their viscosity and speed of cure make automation easier. Dymax non-flammable resins form resilient bonds that make quieter motors.



## DURABLE ELECTRONICS

Tough, solvent-free Dymax conformal coatings and encapsulants provide superior protection for electronic circuitry. Even components on hard to bond substrates, such as polyimide, are easily protected in a few seconds. Dymax electronic products meet standard environmental stress requirements.



## FASTER TRIM ASSEMBLY

A Dymax formed-in-place gasket eliminated the squeak of metal on plastic, plus days of waiting for a silicone gasket to cure. The result - one assembly line replaced more than two and allowed the manufacturer to speed production, while utilizing less floor space!



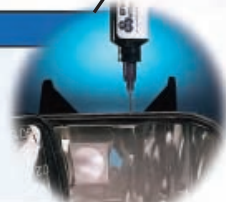
## SAFER AUTOMOTIVE GLASS

Premier windshield crack repair products from Dymax help prevent costly windshield replacement. Used for years to attach window brackets and rearview mirrors, Dymax resins are now being incorporated into more window and mirror applications than ever before. Resilient resins also coat glass and prevent shattering.



## BRIGHTER HEADLAMPS

Switching from sonic welding to a Dymax adhesive slashed rejects from 40% to nil. The adhesive filled gaps between the plastic reflector and lens that had caused the headlamps to leak. Best of all, the low outgassing Dymax adhesive made the headlamps brighter.



## SUPERIOR SOUND

Speaker systems sound better with Dymax adhesives. Besides bonding speaker magnets, cones and voice coils in seconds, Dymax has special resins that enhance sound and direct it to listeners.



© Cindy Lewis Photography

# Assembly processes that once took hours or days can now be completed within seconds!

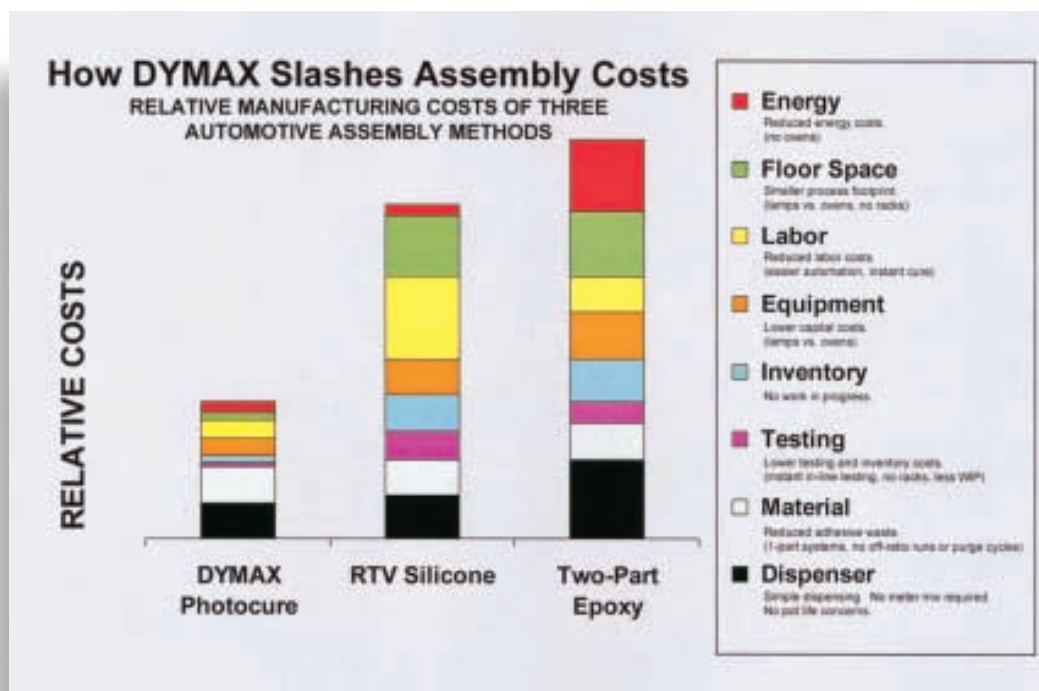
## Dymax.

### The First to Introduce Light Curing Adhesives to the Automotive Industry.

- 1981 Speaker bonders replace epoxies
- 1983 Automotive lighting adhesive replaces glass fusion
- 1984 Non-flammable adhesive for D.C. motor can assembly developed
- 1985 Windshield crack repair resins commercialized
- 1986 Rearview mirror attachment adhesives commercialized
- 1989 PCB coatings adopted by automotive suppliers
- 1991 Microcomponent encapsulation with UV resins introduced
- 1994 Acrylic acid-free magnet and ferrite bonding adhesives qualified
- 1995 LCD assembly resins introduced
- 1997 Formed-in-place gaskets commercialized
- 1997 Dome coatings commercialized
- 1999 Fiber optic component assembly adhesives adopted

Many automotive OEM and tier one and two suppliers use Dymax resins to improve their assembly processes. Powered by Dymax innovative adhesive processing solutions, manufacturers can acquire a significant competitive edge.

Dymax is an ISO 9001 certified supplier of resin materials and UV light-curing systems. With operations in Europe and sales representation throughout the world, we are positioned to supply you with quality products and technical support, wherever you need them.



Dymax technologies reduce processing costs.

[www.dymax.com](http://www.dymax.com)

## Stand-alone units, modules and complete systems for light curing assembly.



Self-contained UV light curing spot lamps.



Power supply and reflector housing modules for UV light curing flood lamp and conveyor systems.



Automated UV light curing conveyor systems.