Dymax Corporation, originally founded in 1980 as the American Chemical and Engineering Company, is a leading manufacturer of advanced rapid cure adhesives, coatings, oligomers, light-curing equipment, and fluid dispense systems. We provide design engineers with the products and services they need to dramatically improve manufacturing efficiency and lower costs.

Our Mission: to make our customers more capable and efficient. Dymax solutions maximize capability and efficiency by increasing throughput, enhancing quality and performance, conserving energy, improving safety and reducing environmental impact.

Dymax serves the needs of OEMs in the medical, electronics, optical, aerospace, automotive, appliance, metal finishing, and alternative energy markets. We sell our products directly and through a worldwide network of distributors and sales partners. Primary rapid cure products include adhesives, coatings, encapsulants, gasketing resins, masking materials, and potting compounds.

We also manufacture a variety of conventional arc-bulb and LED light-curing equipment including spot lamps, flood lamps, conveyors, and radiometers. Automated and manual dispense systems are available for all types of low-to-medium viscosity fluid dispensing. Oligomers include multifunctional acrylates, polyether urethane acrylates and methacrylates, and polyester urethane acrylates and methacrylates. Dymax employs more than 370 people worldwide and owns over 30 technology patents. We have facilities located at USA, Germany, Ireland, Singapore, Korea and China.
As an innovator in the adhesive and coating industries, Dymax strives to create new technologies that help manufacturers increase process efficiency, productivity, and throughput while decreasing costs and inventory. Through the years, our dedication to innovation has resulted in over 30 oligomer, adhesive, and equipment patents and numerous awards for our innovative technologies and service. Our R&D experts are always striving to create new technologies that will help manufacturers improve their processes and minimize risk. Our current portfolio of technologies provide a variety of benefits including easier bond line inspection and cure confirmation for better quality control, faster cures for quicker processing, and curing in shadowed areas to eliminate concerns about uncured material.

### Adhesive Technologies

#### Speed up Production with Faster Cures - LED Light-Curing Technology

Dymax offers specially formulated LED light-curable adhesives that are optimized to work seamlessly with Dymax LED light-curing systems. The adhesives range from fast to ultra-fast cure speeds in order to accommodate specific assembly needs. LED-curing equipment is available in a number of different styles including spot lamps, flood lamps, and conveyors to accommodate various process requirements.

#### Enables Bond-Line Inspection and Product Authentication - Ultra-Red® Technology

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 (360-380 nm) 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.

#### Confirm Placement & Cure - See-Cure Technology

Dymax light-curable adhesives with patented See-Cure technology have built-in cure validation that makes it easy for operators or simple automated inspection equipment to confirm cure without investing in additional specialized equipment. See-Cure technology is an indicator of cure that intentionally transitions the color of the adhesive after it has cured and builds a visible safety factor into the assembly process.

#### Opaque Medical Substrate Bonding Solution - Shadow Cure Technology

Shadow Cure technology is designed for substrates blocking UV light or have areas where light exposure is limited (except for black). It benefits from internal reflections within the adhesive and substrate.

#### Cure in Shadows - 1. Dual-Cure® Light/Moisture-Cure Technology

Multi-Cure® adhesives combine the high-speed cure of UV or UV/Visible light with secondary cure mechanisms that enhance polymerization. Secondary cure mechanisms, which include thermal (heat) cure or activator cure, are useful when light can only reach a portion of the bond line, or when tacking a part prior to thermal cure to allow easier handling and transport during the manufacturing process.

#### Increase Camera Module Productivity - Low Temperature Cure Technology for Active Alignment

Active alignment during the bonding of the camera module holder to printed flex circuit (PFC) decreases the fraction defective. Components are first fixtured in place using light and then heat is adopted for final adhesion. Dymax adhesives formulated with low-temperature cure technology are ideal for the active alignment process. They exhibit excellent adhesion to a variety of substrates. They are initially cured when exposed to LED light at 100m/W cm² for 3 to 5 seconds. The part is then heated at 80°C for camera module assembly. Adhesive in shadowed areas will be fixed within 30 minutes and fully cured in 3 to 5 days.

#### 2. Multi-Cure® Light/Heat-Cure Technology

Dual-Cure coatings are formulated to ensure complete cure in applications where shadow areas on high-density circuit boards are a concern. Previously, areas shadowed from light were managed by selective coating – eliminating the need to cure in shadow areas – or a secondary heat-cure process. Shadowed areas cure over time with moisture, eliminating the need for that second process step or concerns of component life degradation due to temperature exposure.

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MD® Adhesives for Medical Device Assembly

<table>
<thead>
<tr>
<th>Product*</th>
<th>ST</th>
<th>MR</th>
<th>15</th>
<th>30</th>
<th>100</th>
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</tbody>
</table>

**Note:** Products noted in dark blue are formulated with See-Cure® technology. Products noted in light blue fluoresce blue under UV light (black light) after cure. Products noted in orange are formulated with Encompass® technology. Products noted in red are formulated with Ultra-Red® technology. Products noted in black are formulated with secondary heat cure technology.
| Product | AES | AS | BS | CA | PC | CTG | FBA | FBC | FBT | FCTG | FT | FR | AR | AL | BL | DL | GL | SL | AL | SMT |
|---------|-----|----|----|----|----|-----|-----|-----|-----|------|----|----|----|----|----|----|----|----|----|----|----|
| DYMAX.COM | | | | | | | | | | | | | | | | | | | | | | |

**Respiratory Device Adhesive**

| Product | AES | AS | BS | CA | PC | CTG | FBA | FBC | FBT | FCTG | FT | FR | AR | AL | BL | DL | GL | SL | AL | SMT |
|---------|-----|----|----|----|----|-----|-----|-----|-----|------|----|----|----|----|----|----|----|----|----|----|----|
| 614-MSR | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 659-MSR | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| E1-MSR | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |

**Catheter Bonding Adhesive**

| Product | AES | AS | BS | CA | PC | CTG | FBA | FBC | FBT | FCTG | FT | FR | AR | AL | BL | DL | GL | SL | AL | SMT |
|---------|-----|----|----|----|----|-----|-----|-----|-----|------|----|----|----|----|----|----|----|----|----|----|----|
| D12-ETH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 203-CTH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 204-CTH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 206-CTH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 208-CTH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 211-CTH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| 212-CTH | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |

**Medical Electronics Coating**

| Product | AES | AS | BS | CA | PC | CTG | FBA | FBC | FBT | FCTG | FT | FR | AR | AL | BL | DL | GL | SL | AL | SMT |
|---------|-----|----|----|----|----|-----|-----|-----|-----|------|----|----|----|----|----|----|----|----|----|----|----|
| E12-M | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| F1-M | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |
| E14-M | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a | a |

**Catheter Bonding**

* Products noted in ‘red’ are formulated with Ultra-Red Technology.
* Products noted in ‘black’ are formulated with Low-Cure Technology.
* Products noted in ‘light blue’ are formulated with Low-Cure Technology.
* Products noted in ‘orange’ are formulated with Low-Cure Technology.

**Facemask**

* Products noted in ‘red’ are formulated with Ultra-Red Technology.

**Blood Oxygenator**

* Products noted in ‘red’ are formulated with Ultra-Red Technology.

**Hearing Aid Coating**

* Products noted in ‘red’ are formulated with Ultra-Red Technology.

**Insulin Pump**

* Products noted in ‘red’ are formulated with Ultra-Red Technology.
Electronic Assembly Materials

Light-Curable Materials for Electronic Assembly

Dymax offers a broad range of light-curable materials for use in circuit protection and electronic assembly applications. These materials cure in seconds for faster processing and higher throughput and are available with many innovative and patented technologies that turn problem areas like shadow areas, cure confirmation, and difficult inspection into non-issues. The materials are electrically insulating, making them a perfect fit for conformal coating, encapsulation, bonding, thermal management, masking, and many other electronic assembly processes. Dymax light-curable materials are also solvent free and one-part, requiring no mixing or prep before application. Most products are available in multiple-viscosity grades, so the material flow may be tailored to the individual application. IPC approved, MIL-I-46058C and UL listed self-extinguishing grades are available.

Typical Applications:

1. Thermal Interface
2. Wire Tacking
3. Encapsulation
4. Staking
5. Ruggedization / Cornerbond
6. Reinforcement
7. Encapsulation
8. Masking
9. Strain Relief
10. Cure-In-Place Gasket
11. Conformal Coating
12. Peelable Mask
13. Glob Top Encapsulant

Conformal Coatings

Reliable board protection in seconds

<table>
<thead>
<tr>
<th>Product*</th>
<th>Description</th>
<th>Viscosity (cP)</th>
<th>Curing time (s)</th>
<th>Hardness</th>
<th>Modulus of Elasticity (MPa)</th>
<th>Dielectric Strength (V/mil)</th>
<th>Approvals</th>
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<tr>
<td>9-20351-UR</td>
<td>Isocyanate free</td>
<td>15,000</td>
<td>180</td>
<td>30.5 (450)</td>
<td>500 – 1,500</td>
<td>310 (5,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-1 Flameability</td>
</tr>
<tr>
<td>9-20357</td>
<td>Secondary heat cure for shadow areas</td>
<td>13,500</td>
<td>180</td>
<td>3,79 (5,500)</td>
<td>&gt; 1,500</td>
<td>704 (105,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-1 Flameability</td>
</tr>
<tr>
<td>9-20357-LV</td>
<td>Isocyanate free</td>
<td>850</td>
<td>180</td>
<td>10 (45,000)</td>
<td>&gt; 1,500</td>
<td>717 (104,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-1 Flameability</td>
</tr>
<tr>
<td>9-20557</td>
<td>Secondary heat cure for shadow areas</td>
<td>13,000</td>
<td>180</td>
<td>3,79 (5,500)</td>
<td>&gt; 1,500</td>
<td>704 (105,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-1 Flameability</td>
</tr>
<tr>
<td>9-20557-LV</td>
<td>Isocyanate free</td>
<td>850</td>
<td>180</td>
<td>10 (45,000)</td>
<td>&gt; 1,500</td>
<td>717 (104,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-1 Flameability</td>
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<tr>
<td>984-LVU</td>
<td>True black coating ideal for covering sensitive information</td>
<td>160</td>
<td>180</td>
<td>72 (105,100)</td>
<td>1,800</td>
<td>127 (185,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-0 Flameability</td>
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<tr>
<td>9451</td>
<td>Secondary heat cure for shadow areas</td>
<td>6,000</td>
<td>180</td>
<td>71 (104,000)</td>
<td>&gt; 1,500</td>
<td>717 (104,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-0 Flameability</td>
</tr>
<tr>
<td>9452-FC</td>
<td>Extremely low viscosity for film / flow coating applications</td>
<td>20</td>
<td>180</td>
<td>1,137 (165,000)</td>
<td>1,000</td>
<td>127 (185,000)</td>
<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-0 Flameability</td>
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<tr>
<td>9481-E</td>
<td>Room temperature secondary moisture cure for shadow areas</td>
<td>125</td>
<td>600</td>
<td>10 (21,800)</td>
<td>&gt; 1,500</td>
<td>717 (104,000)</td>
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<td>9482</td>
<td>Secondary moisture cure for shadow areas</td>
<td>1,100</td>
<td>600</td>
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<td>717 (104,000)</td>
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<td>9483</td>
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<td>IPC-CC-830B approved, MIL-I-46058C listed, UL 746 recognized, UL 94V-0 Flameability</td>
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</tbody>
</table>

Products marked with Ultra-Red® technology are formulated with the Ultra-Red® technology. Products marked with blue fluorescence blue under 365nm 'black light' after cure.

Blue Fluorescing Coatings
Ultra-Red® Fluorescing Coatings
Black Conformal Coating
Ruggedization
Edgebond to reinforce the chip or the electronic part on PCB

<table>
<thead>
<tr>
<th>Product*</th>
<th>Description</th>
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<tbody>
<tr>
<td>9037-F</td>
<td>Secondary heat cure</td>
</tr>
<tr>
<td>921-VT</td>
<td>High temperature, high viscosity for optimal flow and curing</td>
</tr>
<tr>
<td>921-T</td>
<td>UV-curable for optimal flow and curing</td>
</tr>
<tr>
<td>921-GE</td>
<td>Inert dielectric for optimal performance and adhesion of components</td>
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<tr>
<td>921-FL</td>
<td>Non-conductive, non-solvent, non-bleed adhesive for electronic component bonding</td>
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</table>

SpeedMask® Peable Masks
Easy, residue-free removal when used on electronic parts

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<thead>
<tr>
<th>Product*</th>
<th>Description</th>
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<tbody>
<tr>
<td>921-GE</td>
<td>For shallow potting in 10-30 seconds or less – highest adhesion to substrates</td>
</tr>
<tr>
<td>921-FL</td>
<td>Potting and Sealing Materials</td>
</tr>
</tbody>
</table>

Potting and Sealing Materials
For shallow potting in 10-30 seconds or less – highest adhesion to substrates

<table>
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<td>921-VT</td>
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<td>921-T</td>
<td>UV-curable for optimal flow and curing</td>
</tr>
<tr>
<td>921-GE</td>
<td>Inert dielectric for optimal performance and adhesion of components</td>
</tr>
<tr>
<td>921-FL</td>
<td>Non-conductive, non-solvent, non-bleed adhesive for electronic component bonding</td>
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Wire Tacking Adhesives
Multi-Cure® for wire tacking applied on wire bonding

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<td>9-318-F</td>
<td>Superior peel strength on wire bonding</td>
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<td>9-20479-B</td>
<td>Enhanced adhesion to diverse substrates</td>
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</table>

Thermal Interface Adhesives
Efficient thermal transfer between heat sinks and electronics

<table>
<thead>
<tr>
<th>Product*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-20558-R</td>
<td>Superior peel strength on wire bonding</td>
</tr>
<tr>
<td>9-20801</td>
<td>Enhanced adhesion to diverse substrates</td>
</tr>
</tbody>
</table>

Chip Encapsulants and Wire Bonders
For superior protection on flexible and rigid platforms

<table>
<thead>
<tr>
<th>Product*</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-318-F</td>
<td>Superior peel strength on wire bonding</td>
</tr>
<tr>
<td>9-20479-B</td>
<td>Enhanced adhesion to diverse substrates</td>
</tr>
</tbody>
</table>

Leadless Component Edgebonding
Peelable Mask
Bonding Heat Sinks
Cable Potting
Smart Card Encapsulants
Wire Tacking
Light-Curable Materials for Camera Module Assembly

Typical Applications:

1. Dual Camera Module Assembly
2. Micro Speaker Assembly
3. Flex Circuit Bonding
4. IC - Ruggedized (Underfill Alternative)
5. Masking for Protection During Processing
6. Tamper Proofing
7. PCB - Conformal Coating
8. PCB - Masking

Dual Camera Module Applications

1A - Bonding the Camera Lenses
1B - Fixturing Lens Barrel to the Lens Holder
1C - Bonding Lens Holders to the PCB (Active Alignment)
1D - Reinforcing Flexible PCBs

Micro Speaker Assembly Adhesives

Product* | Description | Viscosity (cP) | Shore Hardness | Tensile at Break, MPa (psi) | Modulus of Elasticity, MPa (psi)
--- | --- | --- | --- | --- | ---
3013 | UV/Violet light curable | 10,000 | 10 (1,500) | 24 (3,400) | 310 (45,000)
3013-GE1 | UV/Violet light curable, Excellent adhesion to PET and PCTFE | 20,000 | 10 (1,500) | 24 (3,400) | 310 (45,000)
3013 Series | UV/Violet light curable, Excellent adhesion to PET and PCTFE | 550 / 1,580 | 600 | - | Ø (300)
9-20763 | UV/Violet light curable, Black color, High adhesion to voice coil and membranes | 10,000 | 10 (1,500) | 24 (3,400) | 14 (210)
9G1T | UV/Violet light curable, Bright red color, High adhesion to voice coil, Thick viscosity for easy application | 45,000 | 10 (1,500) | 18.8 (2,700) | 103 (1500)

* Products marked in dark blue are formulated with See-Cure color-change technology. Products marked in light blue fluoresce blue under 365nm ‘black light’ after cure.
Light-Curable Materials for Electric Vehicles

The automotive industry is evolving at a faster rate than ever before. Today’s complex designs, innovative materials, and increased focus on the environment can present manufacturers with many challenges. Whatever demands or challenges you face, Dymax is here to work with you and provide the solutions you need for a more efficient process and higher quality end product.

### Automotive Applications

#### Electronic Throttle Control
- **9422-S C**
- **9451**
- **3013**

#### Camera Module
- **9481-E**
- **9482**

#### Panel Circuitry
- **9422-T C**
- **9422-S C**
- **9437-T**
- **9437-S C**

#### Instrument Panel Circuitry
- **9422-T**
- **9422-S**

### Materials

<table>
<thead>
<tr>
<th>Product*</th>
<th>Viscosity (cP)</th>
<th>Hardness</th>
<th>Tensile at Break, MPa</th>
<th>Durometer</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>9451</td>
<td>21.7 (3,400)</td>
<td>8.2 (120)</td>
<td>9.06 (131)</td>
<td>6.9 (101)</td>
<td>Moisture resistant / Flexible / Moisture and thermal resistance</td>
</tr>
<tr>
<td>9422-T</td>
<td>21.7 (3,400)</td>
<td>8.2 (120)</td>
<td>9.06 (131)</td>
<td>6.9 (101)</td>
<td>Flexible or encapsulant / Moisture and thermal resistance</td>
</tr>
<tr>
<td>9437-S C</td>
<td>21.7 (3,400)</td>
<td>8.2 (120)</td>
<td>9.06 (131)</td>
<td>6.9 (101)</td>
<td>Dual Cure for shadow areas / Flexible / Moisture and thermal resistance</td>
</tr>
</tbody>
</table>

*Products noted in dark blue are formulated with See-Cure technology. Products noted in light blue fluoresce blue under 365nm ‘black light’ after cure.
Optical/ Assembly Adhesives

Optical Fiber Assembly Adhesives

Dymax light curable adhesives for optical assembly and lens bonding include grades for VCSEL potting, lens fixing, lens laminating, lens positioning, and fiber-optic assembly. Dymax optically clear adhesives feature low-shrink, low-stress characteristics, are single component, and exhibit gap filling to 1/4”.

OP-series UV/Visible light curable adhesives are ideal for optical assembly applications such as lens and optical mounting and the attachment of ceramic, glass, quartz, metal, and plastic components.

OP-32-GEL

- 20,000
- 0.3
- 80
- Low yellowing
- Fast curing
- Flexible and rigid substrates

OP-29-GEL

- 5,000
- 0.79
- 60
- Optically clear
- Bonds to metal, glass, ceramic, FR-4, and polycarbonate

OP-112

- 50,000
- 360
- 50
- Soft, sticky, and flexible
- Excellent adhesion to nylon, plastics, and metals

OP-4-2063-GEL

- 156,092
- 15
- Ultra-red fluorescing
- Low outgassing
- Tack free

OP-4-20806

- 1,750
- 80
- Non-yellowing
- Fast curing
- Flexible and rigid substrates

Form-In-Place (FIP) and Cure-In-Place (CIP) Gaskets

FIP/CIP gaskets have fast cure, low compression set, and a wide range of properties which makes them the lowest per-unit cost choice for many gasketing applications.

G A -140

- 3,900
- 14.9
- Tack free
- Low outgassing
- Excellent tear resistance

Dome Coatings

Light-curable dome and decorative coatings are ideal for coating labels, badges, name tags, pens, key chains, and decals.

Dome Curing

Diode Curing

Lens Laminating

Prism Curing

Knife Handle Coating

Keychain Dome Coating

Name Plating Coating

Compatible with Automated Dispensing System

Clear FIP Gasket

Gasket on Plastic Cover

Industrial Adhesives

Diode Curing

Lens Laminating

Prism Curing

Knife Handle Coating

Keychain Dome Coating

Name Plating Coating

Ionomer Curing
### Adhesives for Plastics, Glass & Metal Products

#### Adhesives for Plastics

<table>
<thead>
<tr>
<th>Product*</th>
<th>Viscosity (cP)</th>
<th>Durometer</th>
<th>Hardness</th>
<th>Solvent Resistance</th>
<th>Break (%)</th>
<th>Break Stress (psi)</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-000</td>
<td>4,000</td>
<td>150</td>
<td>80</td>
<td>No</td>
<td>200</td>
<td>Excellent adhesion to different plastics, glass, and metal / Moisture resistant / Blue fluorescing for easy inspection</td>
<td></td>
</tr>
<tr>
<td>4-001</td>
<td>4,000</td>
<td>150</td>
<td>80</td>
<td>No</td>
<td>200</td>
<td>Excellent adhesion to different plastics, glass, and metal / Moisture resistant / Blue fluorescing for easy inspection</td>
<td></td>
</tr>
</tbody>
</table>

#### Adhesives for Glass

<table>
<thead>
<tr>
<th>Product*</th>
<th>Viscosity (cP)</th>
<th>Durometer</th>
<th>Hardness</th>
<th>Solvent Resistance</th>
<th>Break (%)</th>
<th>Break Stress (psi)</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-621-CT</td>
<td>6,200</td>
<td>80</td>
<td>80</td>
<td>No</td>
<td>200</td>
<td>Excellent adhesion to different plastics, glass, and metal / Moisture resistant / Blue fluorescing for easy inspection</td>
<td></td>
</tr>
<tr>
<td>6-621-FT</td>
<td>6,200</td>
<td>80</td>
<td>80</td>
<td>No</td>
<td>200</td>
<td>Excellent adhesion to different plastics, glass, and metal / Moisture resistant / Blue fluorescing for easy inspection</td>
<td></td>
</tr>
</tbody>
</table>

#### Adhesives for Metal & Glass

<table>
<thead>
<tr>
<th>Product*</th>
<th>Viscosity (cP)</th>
<th>Durometer</th>
<th>Hardness</th>
<th>Solvent Resistance</th>
<th>Break (%)</th>
<th>Break Stress (psi)</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>5-20-40</td>
<td>2,000</td>
<td>100</td>
<td>100</td>
<td>No</td>
<td>200</td>
<td>Excellent adhesion to glass assembly / Exceptional tensile strength and adhesion, impact, and moisture resistance</td>
<td></td>
</tr>
</tbody>
</table>

* Products noted in light blue fluoresce blue under 365nm 'black light' after cure. Products noted in dark blue are formulated with See-Cure technology.

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**DYMAX.COM**

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Glass Bonding  
Metal Bonding  
Appliance
**SpeedMask® Masking Resins**

SpeedMask® light-curable, removable masking resins are ideal for temporary surface protection and cavity sealing for metal finishing processes. The resins can be moved with no residue through peeling, burn-off, or dissolving in water.

- **Plasma Spray**, **Turbine Blades**, **CNC Machining**, **Peelable Mask**, **Grid Blast Mask**, and **Plating**

<table>
<thead>
<tr>
<th>Product</th>
<th>AVAILABLE FORMS</th>
<th>Features</th>
<th>Removed Resin</th>
<th>Uncured Appearance</th>
<th>Elongation at Break, %</th>
<th>Tack Free, %</th>
<th>Cure Time (Minutes)</th>
<th>Hardness</th>
<th>Removable/Flexible</th>
<th>Media Finishing</th>
<th>Chemical Processes</th>
<th>Peel</th>
<th>Removable/Peelable</th>
<th>Peel</th>
<th>Media Type</th>
<th>Peel</th>
<th>Manufacturing Aids</th>
</tr>
</thead>
</table>
Dymax dispensing and light-curing systems are perfectly matched to our light-curable materials. Our field-proven dispense solutions are designed to fit many dispensing applications and include various automatic and manual dispense systems, spray valves, and related components for seamless integration into your assembly process. We also offer a complete line of light-curing equipment including spot, flood, and conveyor systems, as well as radiometers and other accessories. Since Dymax designs and manufactures its own curing systems, the lamps are optimized to work with our light-curable materials to gain process efficiencies by targeting rapid surface curing, depth of cure, and speed of cure, all while delivering light in a rapid and economical way.

**Spot-Curing Systems**

Spot lamps provide a wide variety of methods to deliver light to a very precise location. They can be used manually by an operator or incorporated into a high-speed automated assembly line. Dymax offers both broad-spectrum and LED models.

**Flood Lamp Systems**

Dymax flood-lamp systems are designed for area curing or for curing multiple assemblies at once. They can be easily integrated into existing manufacturing processes by mounting the lamps above high-speed assembly lines to achieve rapid cures. Shutter assemblies, mounting stands, and shields are available to create a custom curing system. Dymax offers both LED and multi-spectrum light-emitting flood lamps.

**Conveyor Systems**

Conveyor systems consist of a moving belt that passes through a curing tunnel with multi-spectrum lamps mounted from above or on each side for fast curing of parts. These conveyor systems are designed to offer consistent, fast, and safe curing. They can be outfitted with standard metal halide (longwave UV), mercury (shortwave UV), or visible bulbs. Consistent line speed, lamp height, and intensity provide a consistent light-curing process for high throughput.

**Radiometer**

Measurement of the lamp intensity and dosage is critical to the successful implementation of light-curing technology. Dymax radiometers allow operators to monitor and document a light-curing process. 

**Dispensing Systems**

Dymax offers various automatic and manual dispense systems, spray valves, and related components for seamless integration into your process. Our Application Engineering lab can assist formulators with selecting and integrating the appropriate manual or automatic dispensing systems for your application.
**Lightguides**

Lightguides transmit UV and visible energy from a source mounted inside of a spot-curing unit to the curing area. When choosing a lightguide for your system, the following factors should be considered:

- **Length** - Lightguides are commonly one meter long although other lengths are available.
- **Diameter** - Single-pole lightguides are available with 3-mm, 5-mm, or 8-mm inside diameters. Although the 5-mm lightguide will register a higher intensity, the 8-mm lightguide provides more curing power (intensity x area) because a larger lightguide opening captures more of the light emitted from the bulb. Each pole of a multi-pole lightguide has an inside diameter of 3 mm.
- **Multiple Poles** - Light emitting from a spot lamp can be channeled through a single lightguide (single pole) or split between multiple lightguides (multiple poles). Each pole of a multi-pole lightguide emits equal intensity (typically ±10% for liquid-filled lightguides) and all share a common shutter. Both liquid-filled and quartz-fiber multi-pole lightguides are available from Dymax.

**Connection** - There are basically two types of connectors used in the spot lamp industry, “Wolf” and “D” connectors. Dymax provides lightguides with both connector types, although “D” connectors are an industry standard utilized “Wolf” connectors.

**Curing Area/Intensity vs. Distance**

The chart to the right describes this relationship clearly for the 5-mm liquid lightguide.

**Spot-Curing Systems Accessories**

**Lightguide Mounting Stands**

- **39700 Single Lightguide Mounting Stand**
  - Utilizes a 24” flexible arm for mounting 3, 5, and 8-mm light-guides. This stand offers a 5” x 5” (127 mm x 127 mm) working area and allows repeatable, hands-free spot curing.
- **41235 Acrylic Lightguide Mounting Stand**
  - Multiple lightguides can be securely mounted on this stand for repeatable, hands-free spot curing.
- **41955 Lightguide Stand Expansion Kit**
  - Allows the Dymax acrylic lightguide mounting stand to hold up to four lightguide poles.

**Lightguide Terminators**

Lightguide terminators can be attached to the end of a lightguide to help users get UV light to those difficult-to-reach locations.

- **39029 3 mm/80°**
- **39030 3 mm/90°**
- **38042 5 mm/60°**
- **38049 5 mm/90°**
- **39334 8 mm/60°**
- **39333 8 mm/90°**

**Lightguide Simulators**

A lightguide simulator can be used to accurately measure the direct light intensity from the system’s energy source.

- **38408 Lightguide Simulator, 7-mm Diameter**
- **36987 Lightguide Simulator, 5-mm Diameter**

**Emitter Stands & Shields**

- **36400 BlueWave® MX-Series Single Emitter Mounting Kit**
- **43019 BlueWave® MX-Series Single Emitter Mounting Kit**
  - Mounting adapter for attaching MX-series emitters.
- **43070 BlueWave® MX-Series Multi-Array Mounting Stand**
  - Accommodates up to 4 MX-series emitters.
- **42426 Emitter Holder Assembly Bracket**
  - Securely mount an emitter to the side of the BlueWave® MX-150 controller for configurations using a lightguide.
- **41955 Three-Sided Acrylic Shield**
  - Compatible with the BlueWave® MX-150. A simple and cost effective three-sided shield that is removed manually.

---

**Table: Lightguide Description**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Lightguide Description</th>
<th>Compatible Dymax Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>5221</td>
<td>Single Pole</td>
<td>BlueWave® 75</td>
</tr>
<tr>
<td>5222</td>
<td>Single Pole</td>
<td>BlueWave® 200</td>
</tr>
<tr>
<td>5223</td>
<td>Single Pole</td>
<td>BlueWave® LED Prime UVA</td>
</tr>
<tr>
<td>38041</td>
<td>Two Pole</td>
<td>BlueWave® LED VisiCure®</td>
</tr>
<tr>
<td>38047</td>
<td>Three Pole</td>
<td>BlueWave® DX-1000</td>
</tr>
<tr>
<td>38047*</td>
<td>Four Pole - Fiber Optic</td>
<td>BlueWave® MX-150</td>
</tr>
<tr>
<td>38069</td>
<td>Single Pole - Wolf Style</td>
<td></td>
</tr>
<tr>
<td>39043</td>
<td>Two Pole - Wolf Style</td>
<td></td>
</tr>
<tr>
<td>39001</td>
<td>Single Pole - Wolf Style</td>
<td></td>
</tr>
<tr>
<td>39002</td>
<td>Single Pole - Wolf Style</td>
<td></td>
</tr>
<tr>
<td>39028</td>
<td>Single Pole - Wolf Style</td>
<td></td>
</tr>
<tr>
<td>38957*</td>
<td>Four Pole - Extended Range</td>
<td></td>
</tr>
<tr>
<td>38957</td>
<td>Four Pole</td>
<td></td>
</tr>
<tr>
<td>39331*</td>
<td>Four Pole - Fiber Optic</td>
<td></td>
</tr>
</tbody>
</table>

* Lightguide adapter conversion kit (PN 42932) required for use with BlueWave® MX-150,
Flood Curing Systems

BlueWave® AX-550

The BlueWave® AX-550 combines a controller, emitter, and power supply into a compact, all-in-one LED flood-curing system. Eliminating the need for a large, traditional-style controller and bulky cables, this unit has a greatly reduced footprint and is easily integrated into automated processes. The system features a large 5" x 5" (12.5 x 12.5 cm) curing area, which is controlled by an easy-to-navigate user interface with push-button controls or through a PLC interface. Dymax offers the system with three different wavelength emitters (365, 385, and 405 nm), which are field-upgradable by customers so they can switch to another wavelength easily if needed.

<table>
<thead>
<tr>
<th>RedCore® 365 nm</th>
<th>PrimeCore® 385 nm</th>
<th>VisiCore® 405 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Intensity Output, mW/cm²</td>
<td>1400</td>
<td>1750</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 – 240 VAC ±5%, 50-60 Hz</td>
<td></td>
</tr>
<tr>
<td>Line Pattern LED Emitters</td>
<td>43034</td>
<td>43068</td>
</tr>
<tr>
<td>BlueWave® MX-Series</td>
<td>43186</td>
<td>43183</td>
</tr>
<tr>
<td>BlueWave® MX-MM</td>
<td>43295</td>
<td></td>
</tr>
<tr>
<td>Interconnect Cables</td>
<td>42097</td>
<td>Interconnect Cable Assembly (2M)</td>
</tr>
<tr>
<td></td>
<td>42101</td>
<td>Interconnect Cable Assembly (5M)</td>
</tr>
<tr>
<td></td>
<td>43010</td>
<td>Interconnect Cable Assembly (10M)</td>
</tr>
<tr>
<td></td>
<td>43011</td>
<td>Interconnect Cable Assembly (20M)</td>
</tr>
</tbody>
</table>

*When measured at 25 mm distance with an ACDU CAL-50 LED radiometer in flood mode.

BlueWave® MX-275

The BlueWave® MX-275 curing system is a high-intensity UV LED flood-curing system. Light energy is delivered in a line pattern instead of traditional patterns. A single BlueWave® MX-275 emitter provides a 5 mm x 50 mm curing area, but when paired with a multichannel controller, up to four emitters can be used to produce a curing area as large as 5 mm x 200 mm in line patterns.

<table>
<thead>
<tr>
<th>RedCore® 365 nm</th>
<th>PrimeCore® 385 nm</th>
<th>VisiCore® 405 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Intensity Output, mW/cm²</td>
<td>1400</td>
<td>1750</td>
</tr>
<tr>
<td>Curing Area</td>
<td>1.97&quot; x 1.97&quot; (50 mm x 50 mm)</td>
<td></td>
</tr>
<tr>
<td>Power Requirements</td>
<td>100 – 240 VAC ±5%, 50-60 Hz</td>
<td></td>
</tr>
<tr>
<td>Interconnect Cables</td>
<td>42097</td>
<td>Interconnect Cable Assembly (2M)</td>
</tr>
<tr>
<td></td>
<td>42101</td>
<td>Interconnect Cable Assembly (5M)</td>
</tr>
<tr>
<td></td>
<td>43010</td>
<td>Interconnect Cable Assembly (10M)</td>
</tr>
<tr>
<td></td>
<td>43011</td>
<td>Interconnect Cable Assembly (20M)</td>
</tr>
</tbody>
</table>

*When measured at a working distance of 10 mm using a Dymax ACDU CAL-50 LED radiometer with 3 mm aperture set to corresponding light measurement mode. This is preliminary intensity data for reference; tests using flood-mode without an aperture will yield different results.

BlueWave® MX-250

- Very high uniformity across entire cure area over a wide range of working distances
- LED emitters available in 365, 385, or 405 nm wavelengths
- MX Series controllers can be utilized to power MX-150, MX-250, and MX-275 emitters
- Efficient LED temperature management and system monitoring

EC Series and ECE Series Flood Lamp Systems

<table>
<thead>
<tr>
<th>2000-EC</th>
<th>5000-EC</th>
<th>ECE 2000</th>
<th>ECE 5000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical Intensity Output</td>
<td>165 mW/cm²</td>
<td>225 mW/cm²</td>
<td>165 mW/cm²</td>
</tr>
<tr>
<td>Curing Area (in)</td>
<td>26.7 x 50.8</td>
<td>50.8 x 15.2</td>
<td>26.7 x 50.8</td>
</tr>
<tr>
<td>Working Distance (cm)</td>
<td>5.08 - 15.2</td>
<td>5.08 - 15.2</td>
<td>5.08 - 15.2</td>
</tr>
<tr>
<td>Typical Degradation</td>
<td>&lt;20% over 2,000 hr</td>
<td>&lt;20% over 2,000 hr</td>
<td>&lt;20% over 2,000 hr</td>
</tr>
<tr>
<td>Power Requirements</td>
<td>90-264 V, 47-63 Hz</td>
<td>90-264 V, 47-63 Hz</td>
<td>100-240 V, 50-60 Hz</td>
</tr>
<tr>
<td>Dimensions of Reflector and Power Supply (W x D x H, cm)</td>
<td>26.7 x 22.9 x 19.1</td>
<td>40.6 x 30.5 x 10.8</td>
<td>17.2 x 17.2 x 20.3</td>
</tr>
<tr>
<td>System Options with Part Numbers</td>
<td>Modular (No Shielding or Shutter)</td>
<td>ECE 2000 with ZIP™ Shutter &amp; Light Shield</td>
<td>ECE 5000 with ZIP™ Shutter &amp; Light Shield</td>
</tr>
<tr>
<td></td>
<td>38100</td>
<td>40860</td>
<td>41100</td>
</tr>
<tr>
<td></td>
<td>38105</td>
<td>40850</td>
<td>41105</td>
</tr>
<tr>
<td></td>
<td>38110</td>
<td>40840</td>
<td>41110</td>
</tr>
</tbody>
</table>

*When measured at 25 mm distance with an ACDU CAL-50 LED radiometer in flood mode.
Flood Curing System Accessories

Dymax light-curing flood lamps can be outfitted with the shutters and shielding shown below. Additional shutters, enclosures, and accessories may be available.

Mounting Stands

41268 Standard Mounting Stand
A simple and cost effective mounting stand with adjustable height. Includes an acrylic back shield.

BlueWave® AX-550
43410 BlueWave® AX-550 Mounting Stand
Stand with acrylic back-shield. Includes mounting carriage PN 60036.

60036 BlueWave® AX-550 Mounting Carriage
Mounting carriage to mount the BlueWave® AX-550 on stand PN 41268.

BlueWave® MX-Series
42909 Single Emitter Mounting Kit
Mounting adapter for attaching MX-series emitters.

42390 Single Emitter Mounting Stand
Mounting stand with adjustable height for a single MX emitter.

42909 Single Emitter Mounting Kit
Mounting adapter for attaching MX-series emitters.

42390 Single Emitter Mounting Stand
Mounting stand with adjustable height for a single MX emitter.

43019 Multiple Emitter Mounting Kit
Works with stand PN 41268.

43070 Multi-Emitter Stand with Acrylic Back Shield

Mounting stand with acrylic back shield for multiple MX emitters. Works with stand PN 41395.

Shutters

37863 ZIP™ Shutter (EC Floods)
Timed and manual modes. Foot pedal or PLC controlled.

40885 ZIP™ Shutter (ECE Floods)
Timed and manual modes. Foot pedal or PLC controlled.

35572 Manual Shutter (EC & ECE Floods)
Most cost-effective shutter system.

Shielding

41175 EC Flood Light Shield
360° shielding with lifting door and sliding curing shelf. Compatible with Dymax shutters.

40785 ECE Flood Light Shield
360° shielding with lifting door and sliding curing shelf. Not compatible with Dymax shutters.

41321 BlueWave® LED Flood Light Shield
360° shielding with a swing-up door and slide-out shelf. Not compatible with Dymax shutters.

60419 BlueWave® AX-550 Light Shield
360° shielding with a swing-up door and slide-out shelf.

41395 3-Sided Acrylic Shield
A simple and cost effective 3-sided shield that is removed manually. Compatible with the BlueWave® LED Flood and BlueWave® MX-250 systems.

Conveyors

UVCS 2.0 Conveyors
The standard Dymax conveyor platform, the UVCS series, has a belt width of 12” (304.8 mm) and can be outfitted with a number of different UV light-curing systems. Belt speed is accurately measured using an optical encoder and displayed on a digital LCD. The UVCS series conveyors are completely shielded from UV light for user protection. The standard UVCS 2.0 conveyor is most commonly outfitted with Dymax 5000-EC or Fusion® F300S curing lamps.

One 5000-EC
Two 5000-ECs
Four 5000-ECs (FW)**
One Fusion F300S (CM)*
Two Fusion F300S (FW)**

Asian Version (Type G Plug)
- - - - 42006

Conveyor Voltage

Amperage (With Lamps)
4.8A 2.4A 4.8A 2.4A 4.8A 2.4A 4.8A 2.4A

Belt Width
12” (30 cm)

Belt Speed
1-27 feet per minute

Cure Width
6” (15 cm) 12” (30 cm) 6” (15 cm) 12” (30 cm)

Lamp Adjustment Range
1.7” to 5.5” (4.3 cm to 14 cm)

Max. Parts Height
4.25” (10.8 cm) Adding risers increases to 10” (25.4 cm)

Overall Dimensions (L x W x H)
(Not including Lamps)
56.5” x 29.8” x 16.4” (144 cm x 76 cm x 42 cm)

Shipping Weight
(With Carriage & Lamps)
350-400 lbs. (159-181 kg)

Grated Dimensions (L x W x H)
69” x 44” x 29” (175 cm x 112 cm x 74 cm)

*CW (Center Mounted) - These conveyors have center-mounted lamps and are supplied with removable guides to channel parts into the middle 6” of conveyors.

**FW (Full Width) - These conveyors have lamps that span the full width of the conveyors.
UVCS LED Conveyors with BlueWave® AX-550 Flood

Dymax UVCS bench-top conveyor systems are designed for fast curing of adhesives, coatings, and inks that react in the UVA and/or visible spectral ranges. The conveyors can be outfitted with one of three different wavelength BlueWave® AX-550 LED flood lamps (365 nm, 385 nm, or 405 nm) and can accommodate up to four emitters. If two emitters are used, they can be mounted side-by-side or front-to-back for additional process flexibility.

All UVCS conveyors have adjustable belt speeds of 1 to 32 fpm, as well as adjustable lamp-to-belt distance to address a variety of application requirements. When combined, the UVCS conveyors’ consistent intensity, fast curing, and adjustable line speeds create an optimized LED light-curing process that enables high throughput.

---

**1 Emitter 2 Emitter 4 Emitter**

**Base Conveyor**
- 43555
- 43559
- 43556 FW
- 43557 CM
- 43560 CM
- 43558
- 43562

**Conveyor Voltage (VAC)**
- 120V
- 220V
- 120V
- 120V
- 220V
- 220V
- 120V
- 120V

**Emitter**
- 43248 RedCure®
- 43249 PrimeCure®
- 43250 VisiCure®
- 43549 RedCure® / 43550 PrimeCure® / 43551 VisiCure®
- 43549 RedCure® (Qty 2)
- 43550 PrimeCure® (Qty 2)
- 43551 VisiCure® (Qty 2)

**Controller**
- 43331
- 43331 (Qty 2)
- 43331 (Qty 4)

**Cure Width**
- 5” (13 cm)
- 10” (25 cm)
- 5” (13 cm)
- 10” (25 cm)

**Belt Width**
- 12” (30 cm)

**Belt Speed**
- 0.8 - 32.0 ft/min (3.3 - 9.7 m/min)

**Lamp Adjustment Range**
- 1.5“ - 4.5” (38 mm - 114 mm)

**Max. Parts Height**
- 4.5” (11.4 cm)

**Overall Dimensions (L x W x H) (Not Including Lamps)**
- 50.5” x 25.8” x 16.4” (128 cm x 66 cm x 42 cm)

---

**1 LED Array 2 LED Arrays 4 LED Arrays**

**Asian Version**
- (Type G Plug)

**Controller**
- 43331
- 43331 (Qty 2)
- 43331 (Qty 4)

**Conveyor Voltage (VAC)**
- 120V
- 220V
- 120V
- 120V
- 220V
- 220V

**Belt Speed**
- 1-32 feet per minute

**Cure Width**
- 5” (12.7 cm)
- 10” (25.4 cm)
- 5” (12.7 cm)
- 10” (25.4 cm)

**Belt Width**
- 12” (30 cm)

**Lamp Adjustment Range**
- 1.5“ - 4.5” (38 mm - 114 mm)

**Max. Parts Height**
- 4.25” (10.8 cm)

**Overall Dimensions (L x W x H) (Not Including Lamps)**
- 50.5” x 25.8” x 16.4” (128 cm x 66 cm x 42 cm)

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**UVCS LED Conveyors with BlueWave® LED Flood Lamps**

Dymax LED light-curing conveyor systems offer consistent, fast, safe, and efficient LED curing of widths up to 10” in a 12” wide parts width platform. These conveyors are designed for curing LED-curable adhesives, coatings, and inks that react in the UVA and/or UVV spectral ranges.

Consistent line speed, lamp height, and intensity together provide a consistent curing process. These conveyors do not emit stray light and can be outfitted with up to four 365, 385, or 405 nm lamps positioned in either in-line or side-by-side configurations as required by the application.

---

**1 Emitter 2 Emitter 4 Emitter**

**Base Conveyor**
- 43547 RediCure®
- 43548 PrimeCure®
- 43549 VisiCure®
- 43550 RediCure®
- 43551 PrimeCure®
- 43552 VisiCure®

**Conveyor Voltage (VAC)**
- 120V
- 220V
- 120V
- 220V
- 120V
- 220V

**Controller**
- 43331
- 43331 (Qty 2)
- 43331 (Qty 4)

**Cure Width**
- 5” (12.7 cm)
- 10” (25.4 cm)
- 5” (12.7 cm)
- 10” (25.4 cm)

**Belt Width**
- 12” (30 cm)

**Belt Speed**
- 1-32 feet per minute

**Cure Width**
- 5” (12.7 cm)
- 10” (25.4 cm)
- 5” (12.7 cm)
- 10” (25.4 cm)

**Belt Width**
- 12” (30 cm)

**Lamp Adjustment Range**
- 1.5“ - 4.5” (38 mm - 114 mm)

**Max. Parts Height**
- 4.25” (10.8 cm)

**Overall Dimensions (L x W x H) (Not Including Lamps)**
- 50.5” x 25.8” x 16.4” (128 cm x 66 cm x 42 cm)

---

**1 LED Array 2 LED Arrays 4 LED Arrays**

**Asian Version**
- (Type G Plug)

**Controller**
- 43331
- 43331 (Qty 2)
- 43331 (Qty 4)

**Conveyor Voltage (VAC)**
- 120V
- 220V
- 120V
- 220V
- 120V
- 220V

**Belt Speed**
- 1-32 feet per minute

**Cure Width**
- 5” (12.7 cm)
- 10” (25.4 cm)
- 5” (12.7 cm)
- 10” (25.4 cm)

**Belt Width**
- 12” (30 cm)

**Lamp Adjustment Range**
- 1.5“ - 4.5” (38 mm - 114 mm)

**Max. Parts Height**
- 4.25” (10.8 cm)

**Overall Dimensions (L x W x H) (Not Including Lamps)**
- 50.5” x 25.8” x 16.4” (128 cm x 66 cm x 42 cm)

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**UVCS LED Conveyors with BlueWave® AX-550 Flood**

Dymax UVCS bench-top conveyor systems are designed for fast curing of adhesives, coatings, and inks that react in the UVA and/or visible spectral ranges. The conveyors can be outfitted with one of three different wavelength BlueWave® AX-550 LED flood lamps (365 nm, 385 nm, or 405 nm) and can accommodate up to four emitters. If two emitters are used, they can be mounted side-by-side or front-to-back for additional process flexibility.

All UVCS conveyors have adjustable belt speeds of 1 to 32 fpm, as well as adjustable lamp-to-belt distance to address a variety of application requirements. When combined, the UVCS conveyors’ consistent intensity, fast curing, and adjustable line speeds create an optimized LED light-curing process that enables high throughput.

---

**1 Emitter 2 Emitter 4 Emitter**

**Base Conveyor**
- 43547 RediCure®
- 43548 PrimeCure®
- 43549 VisiCure®
- 43547 RediCure®
- 43548 PrimeCure®
- 43549 VisiCure®

**Conveyor Voltage (VAC)**
- 120V
- 220V
- 120V
- 220V
- 120V
- 220V

**Controller**
- 43331
- 43331 (Qty 2)
- 43331 (Qty 4)

**Cure Width**
- 5” (12.7 cm)
- 10” (25.4 cm)
- 5” (12.7 cm)
- 10” (25.4 cm)

**Belt Width**
- 12” (30 cm)

**Belt Speed**
- 0.8 - 32.0 ft/min (3.3 - 9.7 m/min)

**Lamp Adjustment Range**
- 1.5“ - 4.5” (38 mm - 114 mm)

**Max. Parts Height**
- 4.5” (11.8 cm)

**Overall Dimensions (L x W x H) (Not Including Lamps)**
- 50.5” x 25.8” x 16.4” (128 cm x 66 cm x 42 cm)
Edge-Carry Conveyors

Dymax Edge-Carry conveyors are designed for efficient curing of UV and/or visible light-sensitive adhesives, inks, and coatings. These conveyors can be outfitted with a variety of lamp configurations to address a variety of application specific requirements. They offer complete shielding from UV light and consistent cure times. Configuration options allow flexibility when defining intensity requirements to keep operating costs to a minimum. Standard height clearance is 0.75” across the entire 18” width, which is ideal for low profile parts such as PCBs, and up to 6 inches across a 13.75” width, which can be increased to either 8” or 12” with optional risers installed.

UVCS SideCure Conveyor

The UVCS SideCure conveyor system is designed for the UV curing of adhesives and coatings from the sides and/or top. The SideCure conveyor can be outfitted with up to eight 5000-EC UV curing flood lamps that offer complete shielding from UV light and consistent exposure times. The conveyor’s 12” wide belt and 5” high side-curing capability makes the SideCure a very versatile UV curing solution. The SideCure conveyor is ideal for masking, medical, and electronic applications where 180° UV curing is required.

UVCS SideCure with up to FOUR Side Lamps (Lamps sold separately)

<table>
<thead>
<tr>
<th>Lamps (SideCure 5000-ECs P/N 39798)</th>
<th>Up to eight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part Number</td>
<td>39767</td>
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<tr>
<td>Conveyor Voltage</td>
<td>115V</td>
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<tr>
<td>Ampereage (With Lamps)</td>
<td>1.6A</td>
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<tr>
<td>Belt Width</td>
<td>12” (30 cm)</td>
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<tr>
<td>Belt Speed</td>
<td>1-25 feet per minute</td>
</tr>
<tr>
<td>Cure Width</td>
<td>6” (15 cm)</td>
</tr>
<tr>
<td>Lamp Adjustment Range</td>
<td>3.5” - 12” (8.9 cm - 30.5 cm)</td>
</tr>
<tr>
<td>Max. Parts Height</td>
<td>6.25” (15.86 cm)</td>
</tr>
<tr>
<td>Overall Dimensions (L x W x H)</td>
<td>51” x 30” x 21.5” (130 cm x 76 cm x 55 cm)</td>
</tr>
<tr>
<td>Shipping Weight (With Crates &amp; Lamps)</td>
<td>450-500 lbs (204-227 kg)</td>
</tr>
<tr>
<td>Crated Dimensions (L x W x H)</td>
<td>51” x 30” x 31” (130 cm x 76 cm x 79 cm)</td>
</tr>
</tbody>
</table>

* CM (Center Mounted) - These conveyors have center mounted lamps and are supplied with removable guides to channel parts into the middle 6” of conveyor.

FW (Full Width) - These conveyors have lamps that span the full width of the conveyor.

### UVCS SideCure with up to FOUR Side Lamps (Lamps sold separately)

<table>
<thead>
<tr>
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<th>Up to eight</th>
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<tbody>
<tr>
<td>Part Number</td>
<td>39766</td>
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<tr>
<td>Conveyor Voltage</td>
<td>115V</td>
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<tr>
<td>Ampereage (With Lamps)</td>
<td>0.9A</td>
</tr>
<tr>
<td>Belt Width</td>
<td>12” (30 cm)</td>
</tr>
<tr>
<td>Belt Speed</td>
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<td>Cure Width</td>
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</tr>
</tbody>
</table>

* CM (Center Mounted) - These conveyors have center mounted lamps and are supplied with removable guides to channel parts into the middle 6” of conveyor.

FW (Full Width) - These conveyors have lamps that span the full width of the conveyor.
Radiometers

Radiometers measure the intensity of energy at specific wavelengths. UV light is, by definition, not visible to the human eye, so a radiometer is required to determine the amount of UV energy. The ability to measure light intensity is useful for three reasons:

- Maintaining a light-curing process – A radiometer can measure whether a light-curing system is providing intensity above the "bulb change" intensity. A radiometer is to a light-curing process what a thermometer is to a heat-curing process.
- Providing a worker-friendly light-curing process – A radiometer is required to determine if any UV light is reaching operators or bystanders.
- Measuring transmission rates through substrates – A radiometer can be used to measure the transmission rates of various wavelengths through substrates that absorb UV and/or visible light. To assure an effective curing process it is critical to measure the light intensity reaching the light-curable material below the intervening substrate.

### WIDECURE® Conveyor

The WIDECURE® conveyor system is designed to offer consistent, fast, and safe curing. Equipped with a 25” (63.5 cm) wide belt, this system is ideal for curing light-curable materials on larger parts, or larger quantities of smaller parts. It can be outfitted with either a longwave (metal halide, UVA/Visible) bulb or a shortwave (mercury, UVB/UVC) bulb and delivers up to 700 mW/cm² of curing energy.

### Radiometers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>ACCU-CAL™ 50</th>
<th>ACCU-CAL™ 50V</th>
<th>ACCU-CAL™ 50-LED</th>
<th>ACCU-CAL™ 160</th>
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</thead>
<tbody>
<tr>
<td>Wavelength Range</td>
<td>320 - 395 nm</td>
<td>400 - 470 nm</td>
<td>350 - 450 nm</td>
<td>328 - 382 nm (UVA model) / 350 - 460 nm (LED model)</td>
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<tr>
<td>Intensities Range</td>
<td>1.0 mW/cm² - 40 W/cm²</td>
<td>1.0 mW/cm² - 40 W/cm²</td>
<td>1.0 mW/cm² - 40 W/cm²</td>
<td>1.0 mW/cm² - 40 W/cm²</td>
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<tr>
<td>Battery Life</td>
<td>250 hr</td>
<td>250 hr</td>
<td>250 hr</td>
<td>10 hr (backlight on, no operation) / 6 hr (backlight on, full operation)</td>
</tr>
</tbody>
</table>

### WIDECURE® UV Light-Curing Conveyor System

<table>
<thead>
<tr>
<th>Part Number</th>
<th>ACCU-CAL™ 50</th>
<th>ACCU-CAL™ 50V</th>
<th>ACCU-CAL™ 50-LED</th>
<th>ACCU-CAL™ 160</th>
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</thead>
<tbody>
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<tr>
<td>Battery Life</td>
<td>250 hr</td>
<td>250 hr</td>
<td>250 hr</td>
<td>10 hr (backlight on, no operation) / 6 hr (backlight on, full operation)</td>
</tr>
</tbody>
</table>

### Part Number

- 43560 - Standard WIDECURE Conveyor where belt travels left-to-right
- 43561 - Optional WIDECURE Conveyor where belt travels right-to-left

### Specifications

- **Conveyor Voltage**: 480V
- **Amperage (With Lamps)**: 30A
- **Belt Width**: 25” (63.5 cm)
- **Belt Speed**: Adjustable 4 - 30 feet per minute
- **Cure Width**: 30” (76.2 cm)
- **Lamp Adjustment Range**: 4” to 24” (10.16 cm to 61 cm)
- **Max. Parts Height**: 18” (45.7 cm)
- **Overall Dimensions (L x W x H)**: 113.5” x 46” x 76” (288.3 cm x 116.8 cm x 193 cm)
- **Shipping Weight (With Crate)**: 1,700 lbs. (771 kg)
- **Rated Dimensions (L x W x H)**: 120” x 56” x 90” (305 cm x 142 cm x 229 cm)

* Requires modification charge and additional lead-time.
### Dispensing Equipment

Dymax is committed to providing the best chemistry, curing equipment, and dispensing systems that fit many adhesive dispensing applications. These systems include various automatic and manual dispense systems, spray valves, and related components for seamless integration into your assembly process.

**Model/Number**

<table>
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<tr>
<th>Micro-Dot™</th>
<th>Shopper™</th>
<th>SD-100</th>
<th>aco-FEN</th>
<th>300</th>
<th>400</th>
<th>455</th>
<th>495</th>
<th>400</th>
<th>47S</th>
<th>80S</th>
<th>77S-Series</th>
<th>56-KD</th>
<th>56-200</th>
<th>iDS Spray</th>
<th>eco-DPR™</th>
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**Dispenser Modes**

- Short Stroke
- Long Stroke

**Valves**

- Piston
- Diaphragm
- Needle
- Dispensable Fluid Path
- Disposable Fluid Path
- Dispersant

**Control**

- Manual
- Automatic

**Material Compatibility**

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