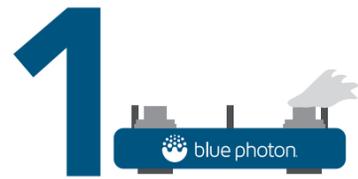


HOW IT WORKS

AN EASY & EFFECTIVE PROCESS



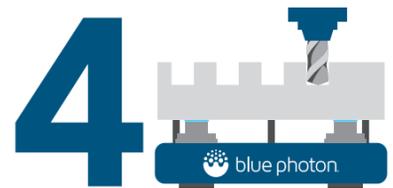
Clean dirt and oil from the grippers and workpiece.



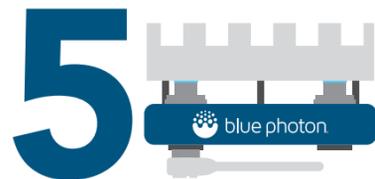
Apply enough adhesive to the grippers to fully fill the gap between the part and gripper.



Polymerize the adhesive by applying UV light for 60 seconds.



Machine the workpiece.



Separate the fixture from the workpiece with a 1/4 inch turn twist or hot water soak.



Remove and peel away residual adhesive with steam, hot water spray, dry ice blasting, or machine cleaning tool.



ABOUT BLUE PHOTON

DESIGNED FOR DIFFICULT & DELICATE PARTS

We manufacture unique adhesive workholding solutions designed to securely hold most parts including some of the most challenging.

The Blue Photon system eliminates the need for clamps, resulting in the end of distortion and greater machine access.

Our dedicated team is committed to providing consistently innovative, high quality workholding products and systems that deliver real and lasting value to manufacturers.

CONTACT US

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ADHESIVE WORKHOLDING

A UNIVERSAL PART GRIPPING SOLUTION





APPLICATIONS

A POWERFUL WORKHOLDING SOLUTION



MILLING

Adhesive workholding is your ideal solution for milling applications ranging from aggressive roughing to high speed finishing. Blue Photon's workholding system withstands milling forces while simplifying part holding. By relying on grippers instead of clamps, our system eliminates clamping induced distortion from over-tightening.



5-AXIS

Blue Photon workholding adhesive solution opens up access to your 5-axis machine. Grippers are configured to maintain the necessary clearances around the workpiece allowing for five, and sometimes, six-sided access to the part. Say good-bye to tool interference issues.



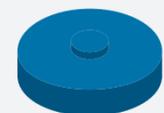
ADDITIVE MANUFACTURING

Many 3D printed parts require some type of post process machining and the Blue Photon system is ideal for holding these net shaped (often very complex) parts. Savings are realized as inexpensive fixtures can be designed and built quickly and the need to print clamping features on the part is eliminated.



TURNING

Can eliminate chuck jaws that add clamping pressure while securely holding delicate workpieces that are prone to distortion in the turning process.



GRINDING

BlueGrip™ workholding adhesive dampens vibration common in grinding applications, resulting in reduced chatter. Automated part loading is simplified when coupled with a zero point system.



EDM

Our workholding system can hold EDM parts and eliminate the need for cumbersome fixtures with moving parts that tend to gum up in the EDM machine. Shim checking may be completely eliminated when a zero point system is used in conjunction with the Blue Photon system.



WHY CHOOSE ADHESIVE WORKHOLDING

INNOVATIVE SOLUTIONS FOR CHALLENGING APPLICATIONS

The Blue Photon workholding solution is a patented, photo-activated adhesive fixturing and workholding solution that improves part quality, reduces waste, and saves on labor in workholding applications that have traditionally challenged precision part manufacturers.



01 STRONG BOND, LIGHT TOUCH

- Patented, load bearing, light transmitting grippers replace clamps
- BlueGrip™ adhesive provides outstanding holding power
- Standard and custom fixtures integrate with existing systems, simplify part loading and increase spindle up-time

02 BENEFITS

- Reduces or eliminates part distortion
- Requires fewer operations
- Lowers cost and scrap
- Increases efficiency
- Increases machine access
- Improves accuracy
- Stands up to oils & cutting fluids
- Withstands heavy machining

03 MATERIAL VERSATILITY

Blue Photon can securely hold:

- Ferrous & non-ferrous metals
- Ceramic
- Glass
- Composites
- Laminates

04 IMPROVED PRODUCTIVITY

- Integrates with existing automated tooling
- Integrates with standardized tooling
- Improves part access
- Decreases operational steps
- Reduces time spent engineering the workholding/fixturing process



MARKETS WE SERVE

SOLVING PROBLEMS THROUGHOUT INDUSTRIES



AEROSPACE

Solves challenges associated with machining materials common to the Aerospace industry while lowering fixture costs and decreasing turnaround times.



CERAMIC

Reduce setup to nearly half the time of traditional workholding through the elimination of wax, resin, and mechanical clamps.



MEDICAL

Facilitates first-pass machining and finishing with a single setup eliminating inaccurate positioning and decreasing labor costs.



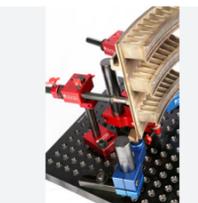
HIGH VOLUME PRODUCTION

Integrates with existing automated operations to reduce the risk of inaccuracy during part transfer.



JOB SHOP

Solves multiple workholding challenges allowing manufacturers to remain on the leading edge.



PROTOTYPING

Holds near net shaped parts saving money for rapid prototyping and one-off or low volume parts manufacturing. Reduces costly one time use fixtures.