

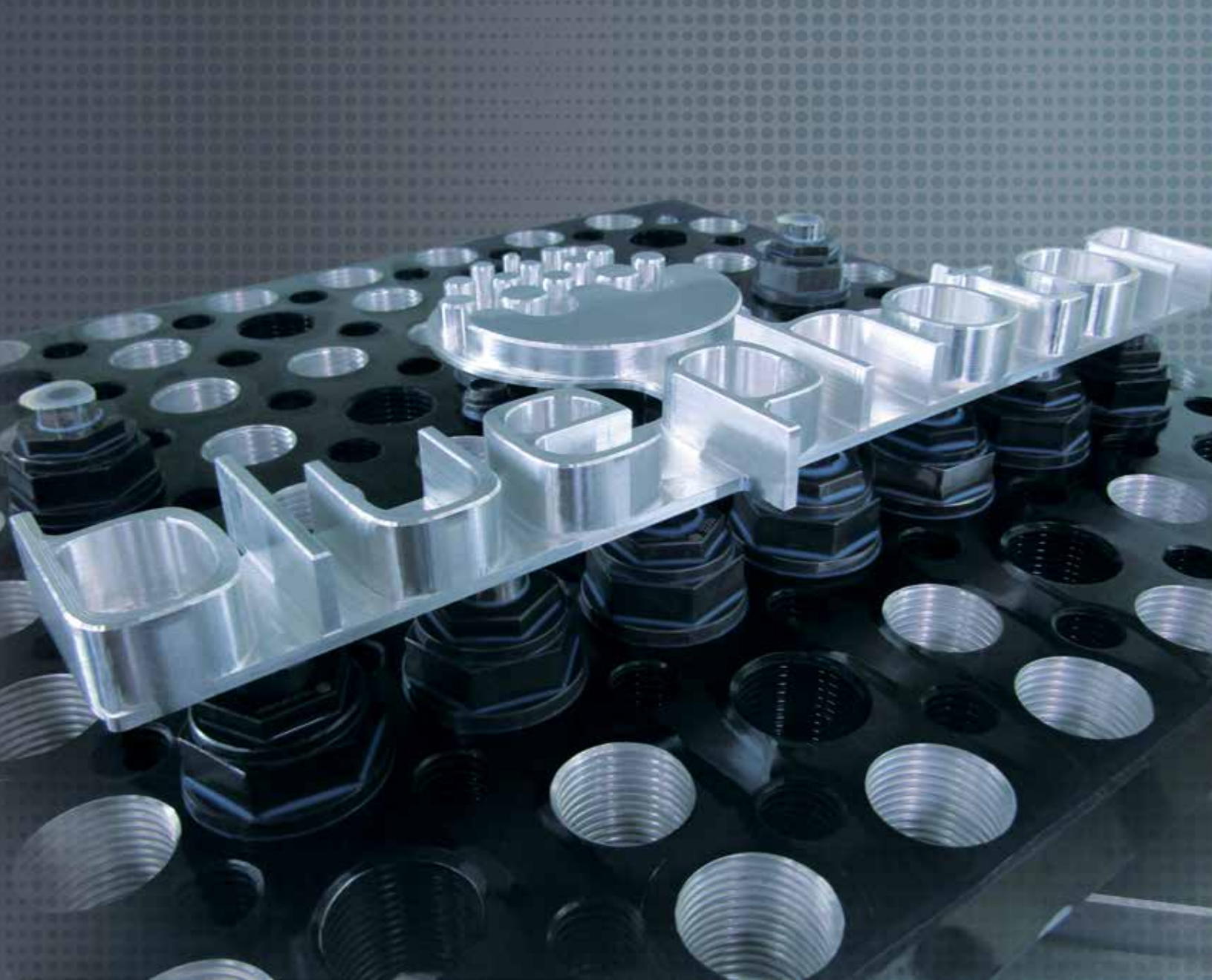


**blue photon**<sup>®</sup>  
Technology & Workholding Systems LLC



## 2021 Product Catalog

### POWERFUL WORKHOLDING





## Warranty

Blue Photon is proud to offer a 3-year warranty on all Blue Photon grippers. Grippers are warranted against manufacturer's defects when used exclusively with BlueGrip workholding adhesives.

All other Blue Photon equipment is warranted for a period of one year from the date of delivery against manufacturing defects that affect the performance of the Blue Photon system. Equipment and supplies not manufactured by Blue Photon may have different manufacturer warranties.

Consult the information provided with the equipment or contact the Blue Photon sales team for additional information.

**FAILURE TO USE BLUEGRIP WORKHOLDING ADHESIVES AND BLUE PHOTON APPROVED EQUIPMENT WILL VOID ALL WARRANTIES AND MAY SUBJECT THE USER TO UNSAFE CONDITIONS.**



### DESIGN CONSIDERATIONS

The user guide provides general operating procedures. Your specific application will have special considerations in setup, function and use. There are several design considerations that must be addressed before implementing Blue Photon workholding. Review these considerations with your design and engineering teams, including the number and position of grippers, adhesive joint temperature, adhesive cure time, amount of adhesive, setting the part on applied adhesive, and part and gripper cleaning.



### CAUTION

The user guide as well as additional manuals provide a description of the function, application and safety considerations of the Blue Photon system. These manuals must be read and understood before any attempt is made to install or use this system. Improper use could result in damage to the product or unsafe conditions for the user. Follow these safeguards to prevent serious injury or property damage.



### WARNING

The user guide provides general operating procedures. Your specific application will have special considerations in setup, function and use. There are several design considerations that must be addressed before implementing Blue Photon workholding. Review these considerations with your design and engineering teams, including the number and position of grippers, adhesive joint temperature, adhesive cure time, amount of adhesive, setting the part on applied adhesive, and part and gripper cleaning.

Before you begin, refer to our user guide and read the manual carefully. In particular, pay attention to the warnings and cautions that appear in the safety and design sections at the front of the manual. For more information, visit our website for the most up-to-date product and safety information: [www.BluePhotonGrip.com](http://www.BluePhotonGrip.com).

Sales and Engineering Support  
Blue Photon Technology & Workholding Systems LLC  
1002 Industrial Park Dr., Shelby, MI 49455  
855-777-2040 • [sales@BluePhotonGrip.com](mailto:sales@BluePhotonGrip.com)





# 2021 Product Catalog

## INTRODUCTION



**Blue Photon manufactures a patented** photo-activated adhesive workholding system. The Blue Photon grip technology solves problems associated with current workholding devices including distortion and machine access. Our technology allows you to hold parts and most materials without the use of clamps.

### Your workholding advantage

From machining optical glass to medical and jet propulsion components, Blue Photon is unlike any workholding system in the world. Ask us how to put Blue Photon to work for you in your applications.

Offering fixture design, engineering and workholding for:

- Surface grinding
- Creep feed grinding
- Milling
- Turning
- Electrical discharge machining (EDM)
- Electro-chemical machining (ECM)
- 3D printing/additive manufacturing
- Laser, inspection and assembly

### The Blue Photon difference

Blue Photon grippers and BlueGrip adhesives create a versatile and simplified workholding system that can give you:

- Less scrap
- No or reduced part distortion
- Fewer operations
- Lower cost
- Higher efficiency
- Improved machine access
- Improved accuracy
- Simplified fixture design
- Better automation

### The Blue Photon workholding system:

- Holds ceramic and glass
- Holds composite and laminate materials
- Holds most metals
- Holds irregular and complex shaped parts
- Stands up to oils and cutting fluids
- Stands up to heavy machining





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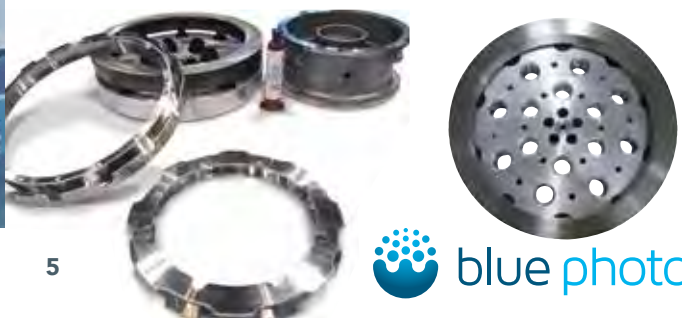
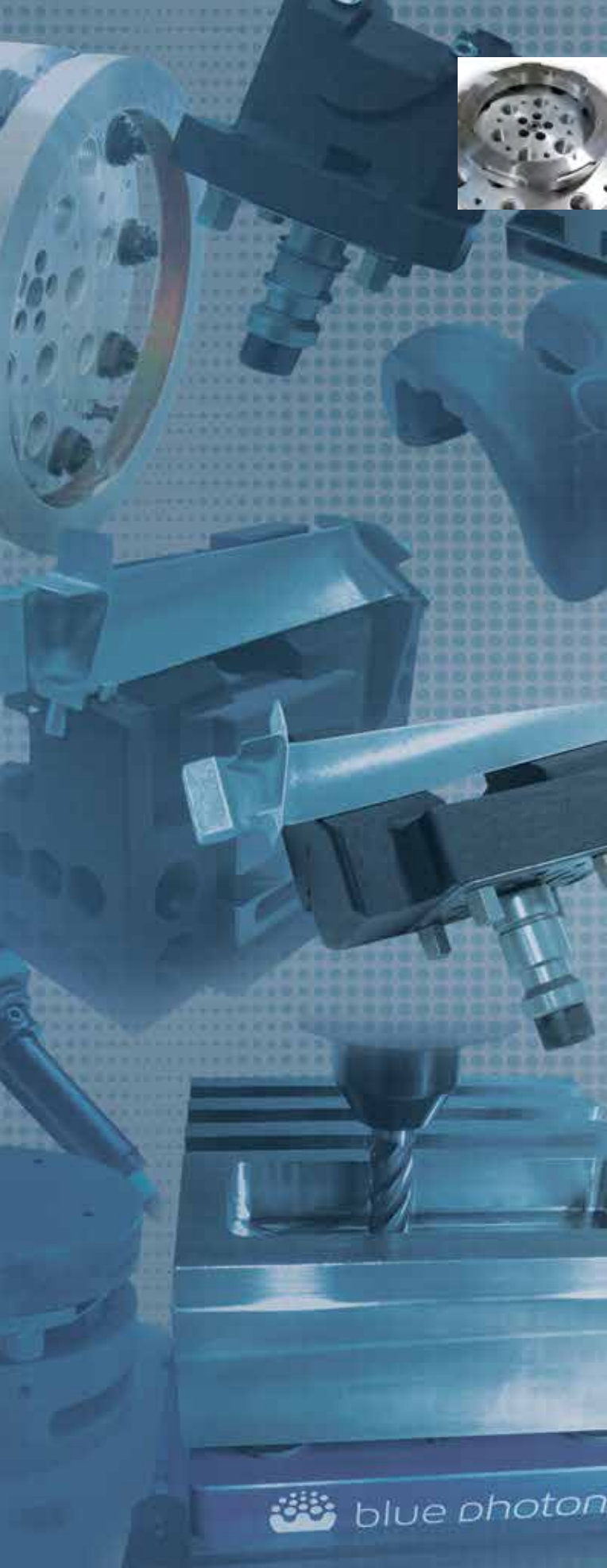
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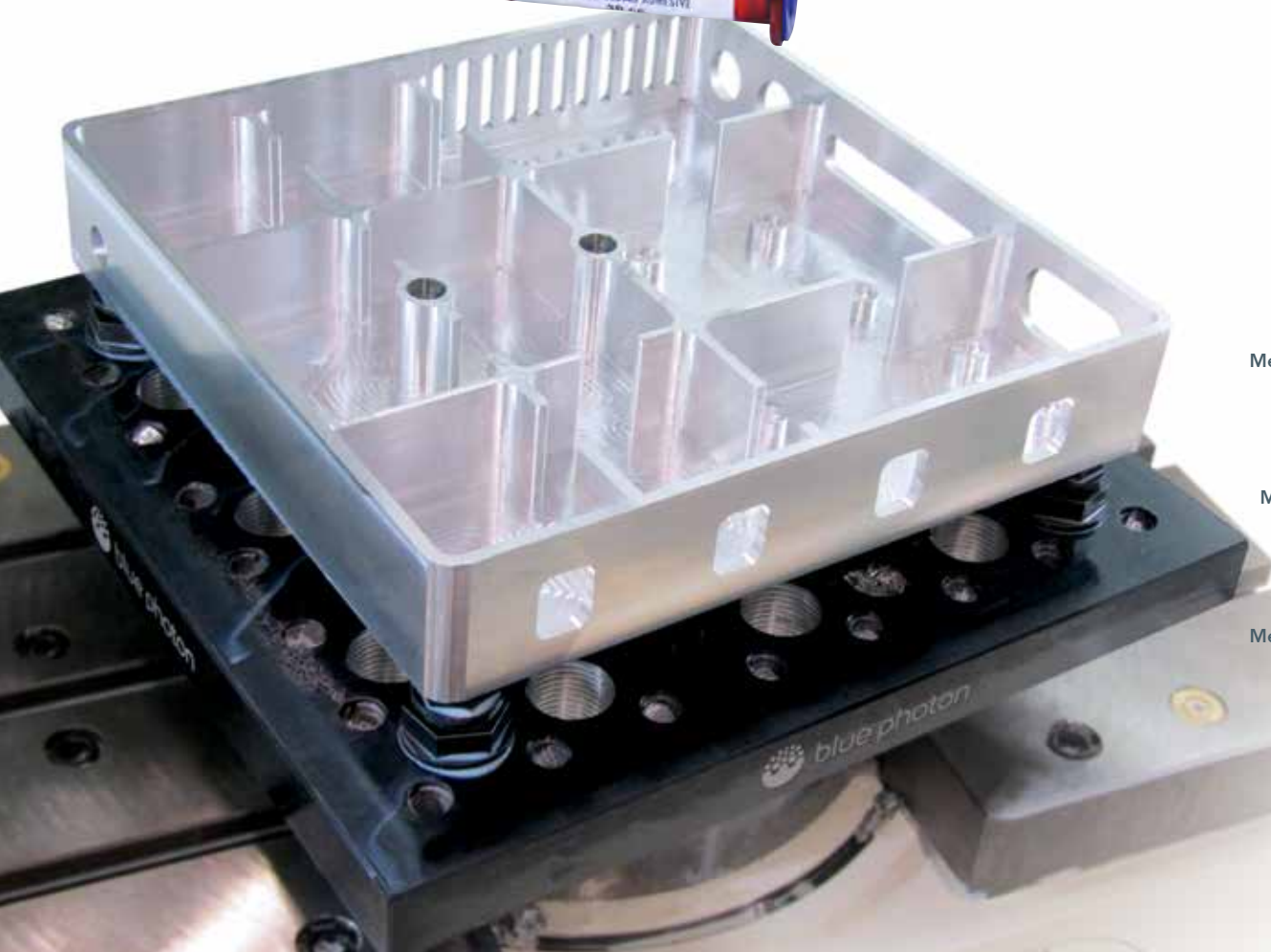


# GRIPPERS



Effective Jan. 1, 2022, imperial products are no longer available.

Go to [www.BluePhotonGrip.com](http://www.BluePhotonGrip.com) for additional product info and to download tech specs. Click on [technical resources](#) for a list of all compatible materials.



Small Head-In Gripper



Small Corrosion Resistant Head-In Gripper



Small Head-Out Gripper



Small Corrosion Resistant Head-Out Gripper



Medium Head-In Gripper



Medium Corrosion Resistant Head-In Gripper



Medium Head-Out Gripper



Medium Corrosion Resistant Head-Out Gripper



Large Head-In Gripper



Large Corrosion Resistant Head-In Gripper



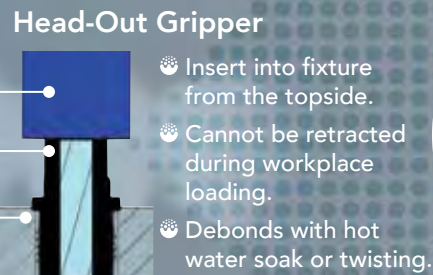
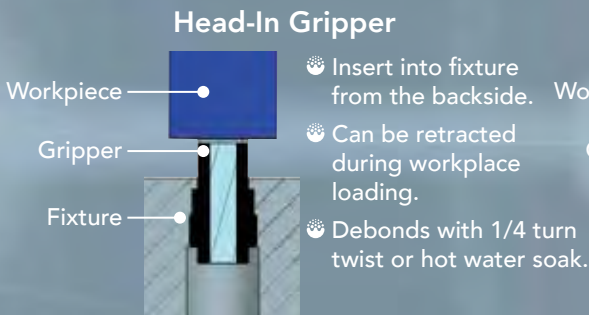
Large Head-Out Gripper



Large Corrosion Resistant Head-Out Gripper



Unique workholding grippers that allow for complete BlueGrip workholding adhesive curing. Blue Photon's workholding grippers are a patented, load bearing and light transmitting fixture component. The grippers are inserted into a fixture. The workpiece is secured to the grippers with BlueGrip workholding adhesive, which is cured with UV light transmitted through the core of the gripper.



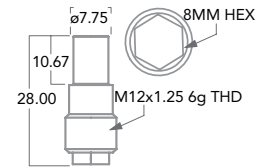
### Small Head-In Gripper

Part #: 14130 - Metric

Part #: 14131 - Metric Corrosion Resistant

#### Features

- To hold small size workpieces for lighter duty machining.
- Average tensile holding power with BlueGrip S2 workholding adhesive is 150 lbs.\*
- Use P/N 14131\*\* where deionized water or acid is used.



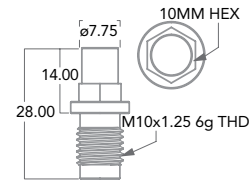
### Small Head-Out Gripper

Part #: 14230 - Metric

Part #: 14231 - Metric Corrosion Resistant

#### Features

- To hold small size workpieces to apply added stand-off to .55".
- Use in applications for simplified fixture design.
- Average tensile holding power with BlueGrip S2 workholding adhesive is 150 lbs.\*
- Use P/N 14231\*\* where deionized water or acid is used.



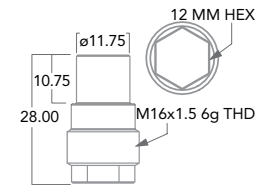
### Medium Head-In Gripper

Part #: 15130 - Metric

Part #: 15131 - Metric Corrosion Resistant

#### Features

- To hold small to medium size workpieces.
- Average tensile holding power with BlueGrip S2 workholding adhesive is 400 lbs.\*
- Use P/N 15131\*\* where deionized water or acid is used.



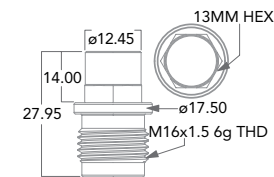
### Medium Head-Out Gripper

Part #: 15230 - Metric

Part #: 15231 - Metric Corrosion Resistant

#### Features

- To hold small to medium size workpieces to apply added stand-off to .55".
- Use in applications for simplified fixture design.
- Average tensile holding power with BlueGrip S2 workholding adhesive is 400 lbs.\*
- Use P/N 15231\*\* where deionized water or acid is used.



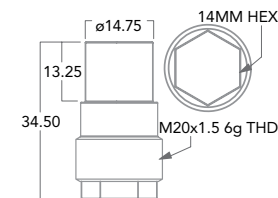
### Large Head-In Gripper

Part #: 16160 - Metric

Part #: 16161 - Metric Corrosion Resistant

#### Features

- To hold medium to large size workpieces.
- Offers more surface area on gripper head for stronger holding power.
- Average tensile holding power with BlueGrip S2 workholding adhesive is 605 lbs.\*
- Use P/N 16161\*\* where deionized water or acid is used.



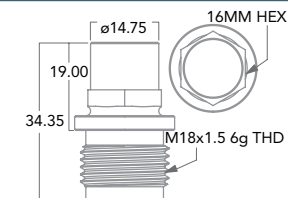
### Large Head-Out Gripper

Part #: 16260 - Metric

Part #: 16261 - Metric Corrosion Resistant

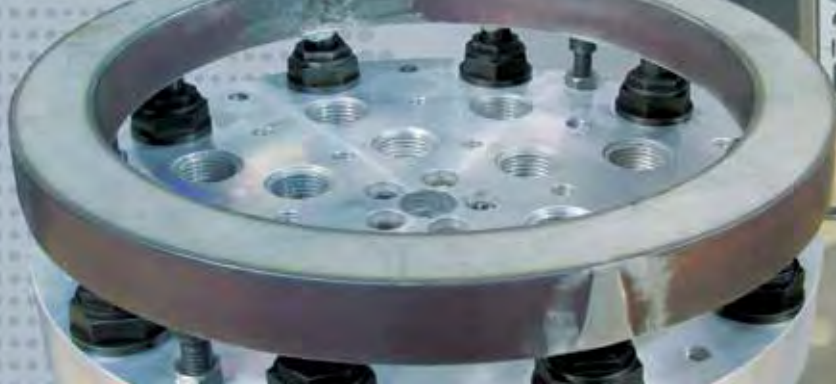
#### Features

- To hold medium to large size workpieces to apply added stand-off to .55".
- Use in applications for simplified fixture design.
- Average tensile holding power with BlueGrip S2 workholding adhesive is 605 lbs.\*
- Use P/N 16261\*\* where deionized water or acid is used.





# INSERTS



Consult a [Blue Photon Representative](#) or the factory about your applications.



Medium Gripper Internal Insert



Medium Gripper External Insert



Large Gripper Internal Insert



Large Gripper External Insert

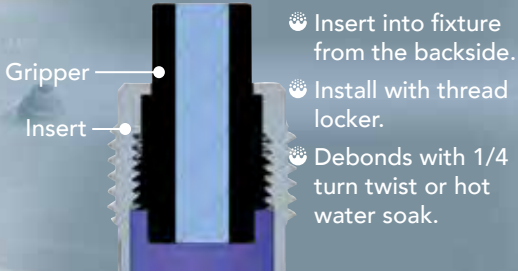


Blue Photon's workholding inserts are available in medium and large for imperial and metric sizes. The internal inserts are thread locked into the fixture. The external inserts include the gripper insert and nut to increase standoff from the fixture to allow for height adjustability and to protect aluminum fixtures from thread galling.

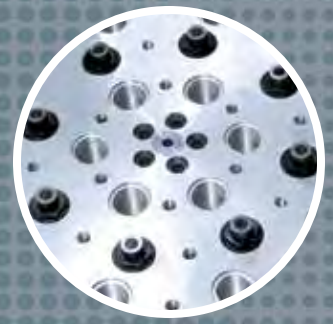
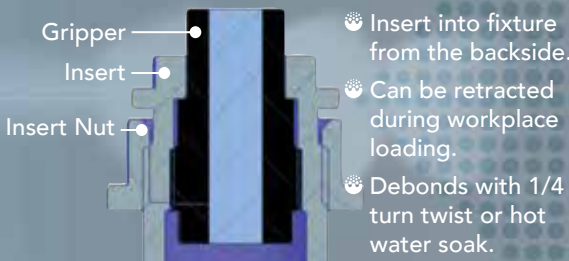




## Gripper Internal Insert



## Gripper External Insert Assembly



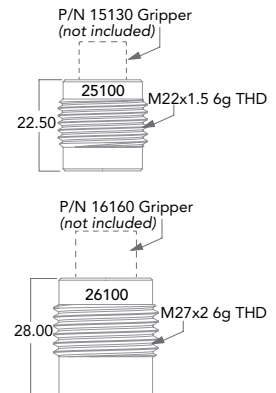
## Gripper Internal Insert

Part #: 25100 - Metric medium internal insert to use with gripper P/N 15130

Part #: 26100 - Metric large internal insert to use with gripper P/N 16160

### Features

- Use gripper inserts to protect aluminum fixtures from thread galling.
- Made from hardened steel with a black oxide finish.
- Install with thread locker.
- Screws in from the bottom.



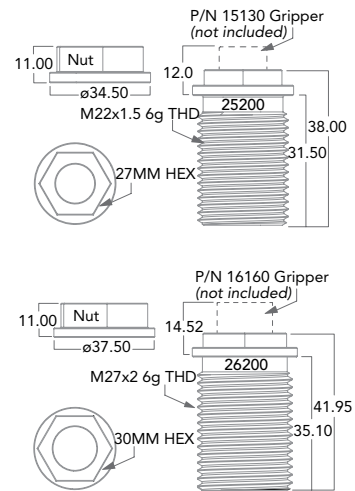
## Gripper External Insert

Part #: 25200 - Metric medium external insert to use with gripper P/N 15130

Part #: 26200 - Metric large external insert to use with gripper P/N 16160

### Features

- Includes the gripper insert and insert nut.
- Use to increase standoff from the fixture and/or to protect aluminum fixtures from thread galling.
- Inserts allow for additional flexibility for exact gripper height positioning.
- Made from hardened steel with a black oxide finish.
- Screws in from the top.



## Ratchet and Sockets

Grippers debond with 1/4 turn twist of ratchet.

Part #: 50200 - 3/8 drive ratchet use with sockets P/N 53595 and 54595

Part #: 52200 - 1/4 drive ratchet use with socket P/N 57595

Part #: 51525 - 1/4 drive 8 mm thin wall socket use with small grippers

Part #: 54595 - 3/8 drive 12 mm thin wall socket use with medium grippers

Part #: 58595 - 3/8 drive 14 mm thin wall socket use with large grippers



# WORKHOLDING ADHESIVES

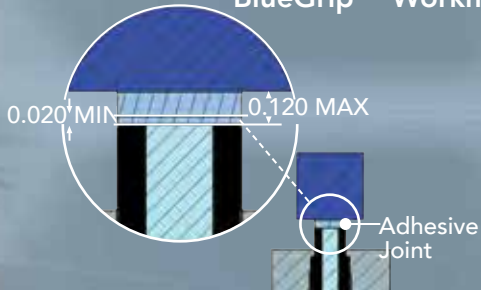


BlueGrip workholding adhesive is designed specifically and exclusively for Blue Photon's workholding system. The gel-like adhesive fills the gap between the surface of the gripper and the surface of the workpiece for outstanding holding power. Joint thickness can range from .020" to .120".  
*Technical glass images courtesy of S.I. Howard Glass Co., Inc.*





## BlueGrip™ Workholding Adhesives



- Works on ferrous and non-ferrous metals, ceramics, composite materials and some plastics.
- Cures in 60 seconds.
- Impervious to cutting fluids and oils.
- Cured adhesive removable with steam or hot water.
- Available with a fluorescent dye.



### BlueGrip™ S2 Workholding Adhesive

Specifically formulated for Blue Photon's photo-activated adhesive workholding.

Part #: 43200 - 30 cc syringe

Part #: 46200 - 1L cartridge

#### Features

- 30 cc syringes are for manual and pneumatic dispensing.
- 1L cartridges for automated dispensing, see page 19 for additional information.
- BlueGrip S2 workholding adhesive is curable with heat.
- Impervious to most cutting fluids and oils.
- Cured adhesive easily removable with CNC machine mounted cleaning tool, hot water, steam, hot water spray or dry ice blasting.
- Fills gaps between the gripper and workpiece of .020" to .120".



### BlueGrip™ S2-F Fluorescent Workholding Adhesive

Specifically formulated with a dye that fluoresces under black light for easy identification of residual adhesive on workpieces.

Part #: 43210 - 30 cc syringe

Part #: 46210 - 1L cartridge

#### Features

- 30 cc syringes are for manual and pneumatic dispensing.
- 1L cartridges for automated dispensing, see page 19 for additional information.
- Impervious to most cutting fluids and oils.
- Cured adhesive easily removable with CNC machine mounted cleaning tool, hot water, steam, hot water spray or dry ice blasting.
- Fills gaps between the gripper and workpiece of .020" to .120".



### BlueGrip™ S3 Workholding Adhesive

Specifically formulated for automated dispensing systems that generate heat.

Part #: 48300 - 40 lb pail

#### Features

- 40 lb pails for automated dispensing, see page 19 for additional information.
- Impervious to most cutting fluids and oils.
- Cured adhesive easily removable with CNC machine mounted cleaning tool, hot water, steam, hot water spray or dry ice blasting.
- Fills gaps between the gripper and workpiece of .020" to .120".



# WORKHOLDING KITS



The basic starter workholding kit includes everything you need to start using Blue Photon's workholding technology. We offer simple solutions to solve your workholding problems. The workholding kit includes grippers of your preferred style and size bundled with a UV LED controller, light heads, adhesive, plunger and steamer.





# WORKHOLDING KITS

The Workholding Kits include everything you need to start using the Blue Photon workholding system to manufacture your parts.

## Part Number Configurator

Select your kit based on the configuration below:

Kit	Measuring System	Gripper*	Controller	UV LED Head Assembly	UV LED Head Qty.	Insert**
3	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	3 - Metric	1 - Small Head-In Gripper 2 - Small Head-Out Gripper 3 - Medium Head-In Gripper 4 - Medium Head-Out Gripper 5 - Large Head-In Gripper 6 - Large Head-Out Gripper	2 - 4 Channel	1 - Small Adapter and 55 mm Head Length 2 - Small Adapter and 125 mm Head Length 3 - Medium Adapter and 55 mm Head Length 4 - Medium Adapter and 125 mm Head Length 5 - Large Adapter and 55 mm Head Length 6 - Large Adapter and 125 mm Head Length	1 2 3 4	1 - Medium Gripper Internal Insert 2 - Medium Gripper External Insert 3 - Large Gripper Internal Insert 4 - Large Gripper External Insert

In addition to your selections above, each kit contains:

- BlueGrip S2 Workholding Adhesive
- Manual Plunger
- Scraper
- Handheld Steamer (Actual unit may vary from one shown.)

\*6 grippers included within each kit. \*\*Inserts optional with kit order.



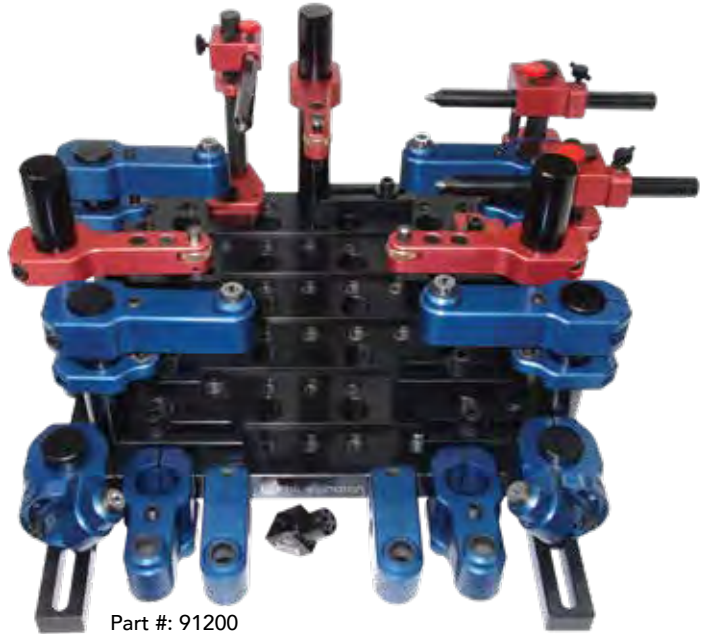
# UNIVERSAL FIXTURE KIT & COMPONENTS



Part #: 91200 - Universal Fixture Kit

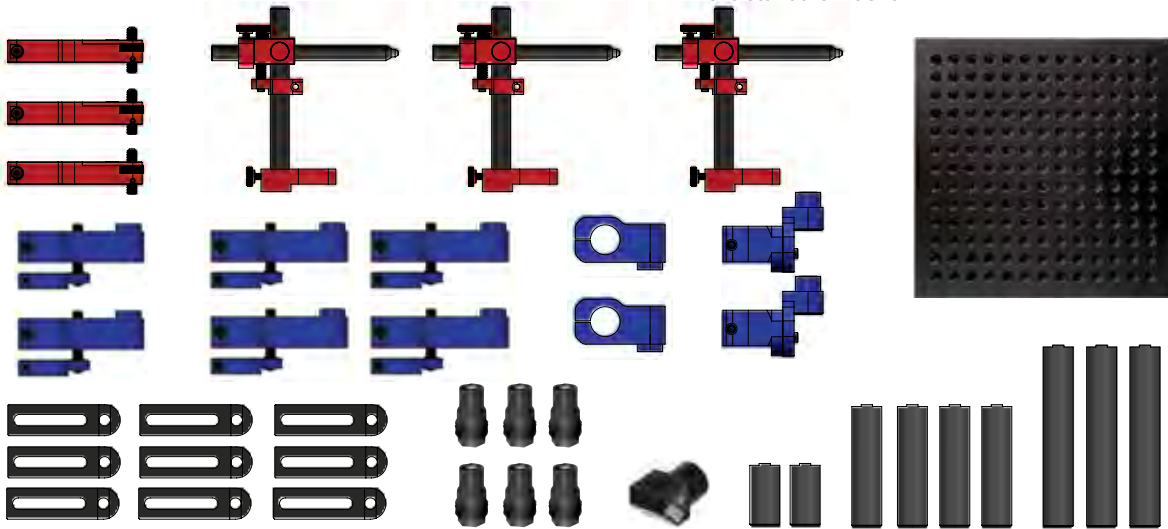
Each kit includes the following components:

P/N	QTY	DESCRIPTION
91201-000	3	Z Locator Assembly
91202-000	3	XY Locator Assembly
91203-200	2	50 mm Vertical Gripper Arm Assembly
91203-300	4	75 mm Vertical Gripper Arm Assembly
91203-400	2	Horizontal Gripper Arm Assembly
91204-000	2	Pivoting Gripper Assembly
91205-100	1	300 mm Square Base Plate*
91209-110	9	Shaft Foot
91209-420	2	Shaft Support, 50 mm length
91209-440	4	Shaft Support, 100 mm length
91209-460	3	Shaft Support, 150 mm length
15130	6	Medium Head-In Gripper
64860	1	Right Angle Adapter, Extended Medium



Part #: 91200  
Universal Fixture Kit  
Entire standard kit shown.

Order UV LED controller, UV LED head assemblies and workholding adhesive separately. \*Custom sizes available upon request.



Blue Photon's groundbreaking universal fixture kit revolutionizes rapid prototype workholding. The universal fixture kit saves time and money for prototyping, one-offs and low volume parts because of its capability to easily hold near-net shaped parts; including parts that are generated by additive manufacturing. This results in lower fixture costs, and quick turnaround times.



This Universal Fixture Kit allows the user to very simply and immediately get started using Blue Photon workholding technology. The collection of included gripper arms and locator assemblies can be set up to hold a workpiece for 5- and even 6-sided tool access.



Part #: 91201-000  
Z Locator Assembly



Part #: 91202-000  
XY Locator Assembly



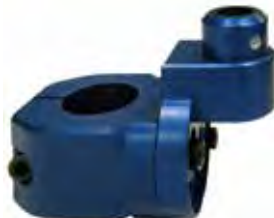
Part #: 91203-200  
50 mm Vertical Gripper  
Arm Assembly



Part #: 91203-300  
75 mm Vertical Gripper  
Arm Assembly



Part #: 91203-400  
Horizontal Gripper  
Arm Assembly



Part #: 91204-000  
Pivoting Gripper  
Assembly



Part #: 15130  
Medium Head-In  
Gripper



Part #: 64860  
Right Angle Adapter,  
Extended Medium



Part #: 91205-100  
300 mm Square Base Plate



Part #: 91209-460  
Shaft Support, 150 mm length



Part #: 91209-440  
Shaft Support, 100 mm length



Part #: 91209-420  
Shaft Support, 50 mm length



Part #: 91209-110  
Shaft Foot

Blue Photon offers custom fixture solutions! Contact our engineers for assistance in designing application solutions.

# LED CONTROLLER & ACCESSORIES



## UV LED Controller

LX500 spot curing system is for curing BlueGrip workholding adhesive.

Part #: 65540 - UV LED controller, 4 channel

### Features

- 1-4 individual UV LED heads, interchangeable to any channel.
- 2.4 inches full color display with main control, input configurations, system maintenance and LED information.
- Start/stop – control start or stop of the LED emission.
- Alarm icon on screen in the event of an error or fault.
- External control via optional foot pedal, PLC or PC through USB communication.



## UV LED Head Assembly

Gripper adapter and UV LED head cures BlueGrip workholding adhesive through grippers.

Part #: 56802 - Small adapter with 125 mm head length, 1M cable length

Part #: 56803 - Medium adapter with 125 mm head length, 1M cable length

Part #: 56804 - Large adapter with 125 mm head length, 1M cable length

Part #: 59802 - Small adapter with 55 mm head length, 1M cable length

Part #: 59803 - Medium adapter with 55 mm head length, 1M cable length

Part #: 59804 - Large adapter with 55 mm head length, 1M cable length

Part #: 56811 - UV LED head: 125 mm head length, 1M cable length

Part #: 59811 - UV LED head: 55 mm head length, 1M cable length

*When ordering, use the above part numbers to specify small, medium or large adapter to coincide with gripper size.*



## UV Safety Glasses

Anti-scratch eyewear protection. Glasses offer 99% protection against harmful UV rays. Meets ANSI Z87.1.

Part #: 50010



## Extension Cable

Provides extra cable length from the UV LED controller to the UV LED head where the UV curing process is farther away from the controller.

Part #: 50907 - 3 ft length

Part #: 50908 - 6 ft length

Part #: 50904 - 8 ft length

Part #: 50909 - 10 ft length

Part #: 50903 - 15 ft length

### Features

- Cable type - HDMI
- Cable characteristic - extension cable
- Color - black







### Gripper Adapter

Gripper adapter with UV LED head cures BlueGrip workholding adhesive through grippers.

Part #: 51705 - Small adapter to use with UV LED head P/N 56811 or 59811

Part #: 52705 - Medium adapter to use with UV LED head P/N 56811 or 59811

Part #: 57705 - Large adapter to use with UV LED head P/N 56811 or 59811

*When ordering adapters as a replacement or add-on, please specify small, medium or large adapter to coincide with gripper size..*



### Right Angle Adapter

Attaches to the UV LED head when clearance issues arise in tight places.

Part #: 64850 - Standard medium adapter use with medium grippers

Part #: 64860 - Extended medium adapter use with medium grippers

Part #: 64950 - Standard large adapter use with large grippers

Part #: 64960 - Extended large adapter use with large grippers



### Handheld Radiometer

Measures stray UV light output in the range of 280 to 400 nm.

Part #: 62020

#### Features

- Measuring Range - 1 to 1999 uW/cm2, 0.01 to 40 mW/cm2
- Accuracy +/-4% +/- 1 Digit
- Display - Backlit 4 Digit LCD
- Data Hold
- Min./Max. Memory
- Memory - 20 Point
- Battery Type - 9V
- Cord Length - 46 inches
- Calibration Certificate - NIST



### UV LED Light Sensor

Measures UV light output from LED head.

Part #: 62600 - UV LED light sensor must use with P/N 66700

#### Features

- Accuracy +/- 10%
- Calibration Cycle - One Year
- Operating Temperature Range - Ambient to 40° Centigrade
- Certification - Complies with IEC, Canadian and US Standards, RoHS compliant
- Traceability - NIST and NRC Compliant
- Sensor Dimension (LxWxH) - 75 mm x 25 mm x 11.95 mm



### Beam Positioning Kit

Centers the LED head over the UV sensor. Consistent measurements by accurately positioning the beam on the detector sensor.

Part #: 66700 - Beam positioning kit use with P/N 62600



# ADHESIVE DISPENSERS



## Pneumatic Dispenser

Pneumatic adhesive dispensing unit with digital time/pressure display.

Part #: 71906

### Features

- Digital time/pressure display.
- Foot-operated adhesive dispenser.
- Timed or steady modes of operation.
- Vacuum control keeps thin fluids from dripping between cycles.
- Optional electric finger switch (P/N 75490) available to order with pneumatic dispenser.



## Digital Pneumatic Dispenser

Fully digital adhesive dispenser with all-digital, multi-function display and 16 memory settings.

Part #: 72006

### Features

- Foot-operated adhesive dispenser.
- All-digital, multi-function display.
- Multilingual display.
- Operator security lockout.
- 16 memory settings and a 4-decimal time setting.
- High-speed solenoid for highly accurate deposits.
- Universal power supply.



## High Precision Dispenser with Optimeter

Includes controls and settings to electronically change/adjust dispensing time, pressure and vacuum. Consists of an auto-increment feature to adjust dispensing parameters after a certain number of shots or a specific lapsed time and auto-sequence mode that allows deposit patterns to be repeated automatically.

Part #: 73006

### Features

- 400 individual memory storage cells.
- Scroll or select cells via front panel keypad or external PC/PLC control.
- Switch between steady, timed and teach modes.
- Front panel manual cycle key.
- Teach function.
- Multi-level operator lockout.
- Alarm indicators.
- End of cycle feedback loop.
- Soft button data input 0-9 keypad.
- Operator control of LCD display brightness.
- Easy up/down arrow key navigation.
- External PC interface for data input.
- Display cycle counter.
- RS-232 communication capability.
- ESD safe via connection with external ESD.
- 0-100 psi (0-6.9) bar air regulation range.
- D-sub I/O (15-pin) and communication (9-pin) connections.
- Alarm I/O signals.
- Optimeter (P/N 75500) included to operate dispenser.





Manual or automated adhesive dispensers for Blue Photon's workholding system. From a simple, manual plunger to sophisticated, automated and precise delivery, Blue Photon offers a range of adhesive dispensers compatible with BlueGrip workholding adhesives. Options include pneumatic dispenser, digital pneumatic dispenser and a high precision dispenser.

Contact us for help selecting the best adhesive dispensing equipment for your application.



## Manual Plunger

Plunger fits into 30 cc adhesive tubes for dispensing by hand.

Part #: 74000



## Optimeter

Specifically designed to provide greater control when dispensing adhesives by automatically increasing airflow as the syringe barrel empties.

Part #: 75500

### Features

- Blue 6 ft (1.8 m) hose.
- Included with the high precision dispenser (P/N 73006) to operate dispenser using 30 cc adhesive tubes.
- Increases accuracy and consistency through precise mechanical regulation.



## Dispenser Adapter Assembly

Adapter fits onto 30 cc adhesive tubes for dispensing with pneumatic dispensers.

Part #: 75880

### Features

- Blue 6 ft (1.8 m) hose.
- Required in order to operate all automated dispensers using 30 cc adhesive tubes.
- Designed with a positive safety locking action to prevent accidental disengagement, adapters are easy to install and remove.
- Each adapter assembly is precision molded for secure attachment to the adhesive tube with minimal effort, making its connection to the air output of a fluid dispensing unit fast and seamless.



## 5 Gallon Pail Dispenser

For efficient unloading of BlueGrip workholding adhesive into smaller liters. Highly efficient unloading for one component material, using durable components, and wear resistant coatings.

Part #: 77707

- Single-post unloader
- Manual bulk filling station
- Use to fill 1L cartridges

### Features

- Dispensing Consistency** – Fast air motor changeover with rapid-cycling, dual air-piloted cylinder provides uniform material output and consistent material pressure.
- Ease of Operation** – Simple and intuitive front facing pneumatic controls that feature auto shutdown to prevent damage to the unit when the pump reaches the bottom of the container.
- Speed of Maintenance** – Removable packing gland provides fastest repair in industry, without having to remove the pump from the line.
- Production Efficiencies** – Interchangeable follower plate and seal design reduce wasted material and lengthy changeover procedures.
- Safety Compliance** – Tapered solvent cup and finger safe design for CE compliance.
- Easy Pail Changeover** – Pail hold down feature facilitates ease of container changeover procedure, preventing movement when the follower is withdrawn.

*Automated recommendations available upon request.*



Accessories

P/N 46600

P/N 74000

P/N 71906

## 5 Gallon Pail Protector

Optional pail protectors to extend seal life and reduce clean-up of BlueGrip workholding adhesive. To be inserted between the dispenser follower plate and the adhesive in the pail.

Part #: 48006 - 10 per box

# ADHESIVE ACCESSORIES



## Syringe and Cartridge Barrels

UV blocking barrels block UV light, while allowing fluid levels to be monitored.

Part #: 43402 - 30 cc amber syringe barrel with piston and label, 20 per box

Part #: 46402 - 1L amber cartridge barrel with piston and label, 10 per box



## Tip Caps

Tip caps protect BlueGrip workholding adhesive from light exposure.

Part #: 43700 - Use to cap 30 cc amber syringe barrel, 20 per box

Part #: 46700 - Use to cap 1L amber cartridge barrel, 10 per box



## End Caps

End caps fit securely over syringe and cartridge tabs, and feature a center push button that makes it easy to create a snug, airtight seal.

Part #: 43800 - Use to cap 30 cc amber syringe barrel, 20 per box

Part #: 46802 - Use to cap 1L amber cartridge barrel, 10 per box



## Barrel Loader

Barrel-filling system for BlueGrip workholding adhesive.

Part #: 46600

### Features

- 1L cartridge reservoir.
- Includes stand with retainer block.
- Use to fill 30 cc syringes from a 1L cartridge.





# CLEANING EQUIPMENT

Debonding and clean up is simple. Blue Photon offers a variety of soak tanks, pressure washers and cleaning tools to efficiently debond the workpiece and remove any cured, residual adhesive.

Contact us for more information about our cleaning equipment and methods.



## Soak Debond Tank

The soak debond tank allows for debonding the part from the grippers without twisting. This method is preferred in applications where twist debonding could cause delamination or other damage to the workpiece.

Part #: 81300

### Features\*

- Stainless steel construction
- Electric heat
- Programmable temperature control/sensor
- Simple push button cycle operation
- Easy access for clearing and maintenance
- High performance insulation to avoid heat loss
- Thermal insulation
- Easy fill and drain tank
- Low energy consumption
- Emergency stop button
- Dipping time timer
- Manual or automatic operation
- No water alarm light
- Interlock casters

### Product Specifications

- Maximum product height - 10 inches (255 mm)
- Immersion platform size - 23 x 14 inches (584 x 355mm)
- Immersion depth - 12 inches (305 mm)
- Cycle time - up to 15/min.
- Volume of water - 100 liters
- Electrical - 220V / 60 Hz / 3 Ø, 10 amps
- Machine size - 27 L x 33.5 W x 57.25 H inches (673 x 1016 x 1454mm) with cover up (63 H inches (1600mm))
- Weight - 394 lb (179 kg)



*\*All external walls of the unit are insulated to help protect from hot surface contact. All specifications subject to change.*

# CLEANING EQUIPMENT



## CNC Spindle Mounted Cleaning Tool

The spindle mounted gripper cleaning tool loads in a CNC machine to remove cured adhesive from grippers.

Part #: 82400 - Gripper Cleaning Tool Assembly

Part #: 82500 - Replacement Head

### Features

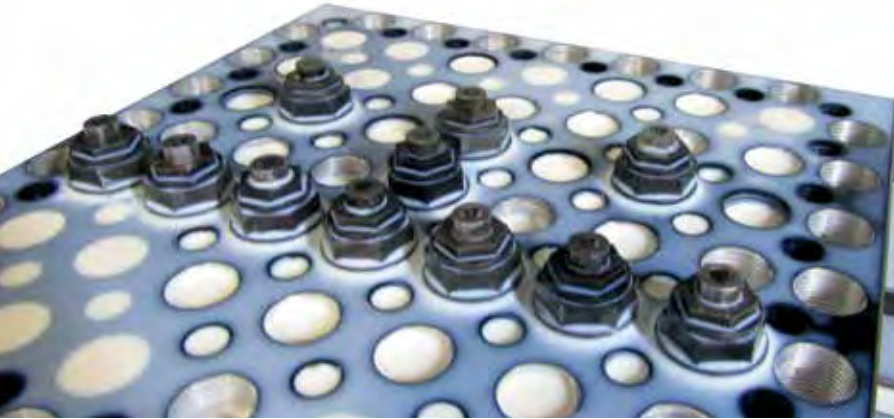
- Mounts in any 3/4 diameter collet or end mill holder.
- Replaceable head for P/N 82400 tool assembly.
- Cleans an estimated 1,000 grippers before replacing head.
- Do not use with corrosion resistant grippers.



P/N 82400



P/N 82500



## Handheld Pressurized Steamer

The handheld steamer provides pressurized steam for easy removal of residual cured adhesive from grippers and workpieces. Economical solution for prototypes or low-volume parts.

Part #: 84750

### Features\*

- 8 x 5.2 x 10.7 inches
- 3 lbs
- 6 oz water capacity
- Emits steam continuously for 10 minutes
- 15 ft power cord
- 900W
- 200°F steam temperature

\*Actual unit may vary from one shown.



## Scraper

The scraper is used to clean parts and grippers of cured adhesive after heating.

Part #: 80030 - 5" aluminum handle knife with a heavyweight adhesive removing blade





# CLEANING EQUIPMENT

## Heavy Duty Steamers

### *Cured Adhesive Steam Cleaners*

These heavy duty steamers produce 60 PSI to unlimited hours of continuous steam pressure, and reaches temperatures up to 221°F at the tip. These steamers are ideally suited for cleaning away cured adhesive on grippers.

**Part #: 84870** - Approximately 6 hours of continuous steam

#### Features

- 110V/120V 1200W element
- 1.25 gallon, 4.5 L water capacity
- Low water light indicator
- 61 PSI, 4.1 bar operating pressure
- Pressure/safety switch
- 30A heavy-duty contactor
- 12-gauge heavy-duty wiring
- Stainless steel tank and outer casing
- Carrying handle
- 15-20 minute heat up time



**Part #: 84880** - Minimum 8 hours of continuous steam

#### Features

- 110V/120V
- 2.37 gallon, 9 L water capacity
- 1200W heating element
- Visual water level indicator
- Low water light indicator
- Regular tap water
- Ranco pressure control/li>
- 12-gauge heavy-duty wiring
- Stainless steel tank and outer casing
- 2 incoloy heating elements (1-spare)
- Carrying handle
- 30-40 minute heat up time



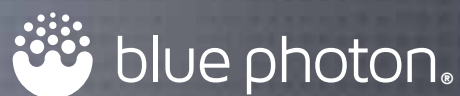
**Part #: 84890** - Full-time steam

#### Features

- 110V/120V
- Automatic shut-off of pump in case water supply is interrupted
- Boiler thermostat reset switch
- Heavy-duty adjustable feet
- Low water light indicator
- Regular tap water
- Ranco pressure control
- 12-gauge heavy-duty wiring
- 1 Incoloy heating elements
- Stainless steel tank and outer casing
- Blow down valve
- 20-30 minute heat up time
- 20-amp plug required
- Direct connection to a water line







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