

Full Service Machine Shop & Work Holding Product Innovators

**THE FUTURE
IS MODULAR –
DON'T BE
LEFT BEHIND**

**DELIVER PERFECT
PARTS FASTER!**

Quick-Swap Fixture Products
Quick-Fixture Design
Quick-Ship Orders

INSPECTION[®]
ARSENAL

**Phillips
Precision**

Fixturing—Simple by Design.

Inspection Arsenal® for CMM, 3D gage arm, optical comparator, and vision inspection.

Modular, magnetically interlocking,
easy to implement, quick-swap
fixture solution designed to help
break workflow bottlenecks.

You are guaranteed to process more
parts per shift with these lean,
low-cost solutions.

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**Phillips
Precision**
Fixturing—Simple by Design.

**INSPECTION
ARSENAL**
**LASER
ARSENAL**

Universal Fixturing

Fixture up with Inspection Arsenal® and Make Production Faster Than Ever Before!

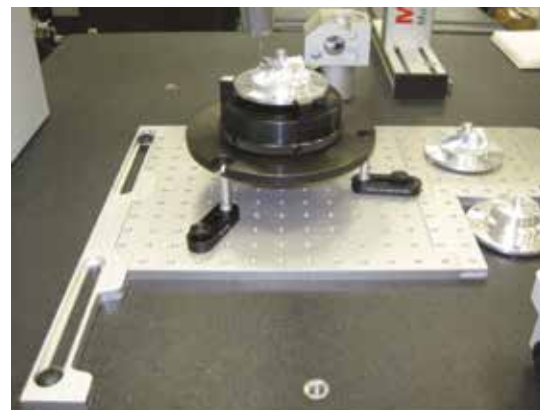
From the spindle to inspection and back again,
the ability to quickly and accurately inspect
improves the entire production pipeline—
and your profits!

Quality inspection no longer needs to
be complex, costly and time consuming.
Inspection Arsenal® Loc-N-Load™ quick-
swap, modular fixture plates and work holding
help you deliver perfect parts to customers
faster, easier and more affordably than ever.

Phillips Precision is your one source for quick-
swap, modular inspection fixture products,
fast and creative custom fixture designs, and
quick shipping of orders. Inspection Arsenal®
is the only universal fixturing system providing
a complete arsenal of inspection tools for most
inspection machines.

The lean design resolves the issues that affect
profits. It reduces wait time, defective parts
and overproduction. Inspectors will work more
efficiently, with less excess motion. In fact, we
guarantee that you will process more parts per
shift— even with less skilled labor.

Inspection Arsenal® speeds and simplifies
inspection using modular, magnetically
interlocking quick-swap fixture solutions.



18" Bundled System

- Enjoy a rapid return on investment
- Inspect more parts per shift
- Create multiple quick-swap setups per CMM
- Move fixtures from one machine to another
- Increase the number of employees who inspect
- Adapt and reuse existing fixtures effortlessly
- Access granite surface easily
- Use CMM palletization features
- Work toward lights-out inspections
- Use as dedicated tooling - add it to your job box
- Ships immediately, as product is ready-made

**Learn about the complete arsenal, as well
as individual parts on our website.
www.inspectionarsenal.com.**

Would you spend \$1,000 to save \$100,000?

Now that you know that the ability to deploy a Lean process is readily available, take into account the following.

- | | |
|---|---|
| <input type="checkbox"/> Shop labor hourly rate | <input type="checkbox"/> Value of your reputation if impacted by unsatisfied customers |
| <input type="checkbox"/> Metrology Lab hourly labor rate | <input type="checkbox"/> Annual Cost of Quality \$ overall |
| <input type="checkbox"/> Value of rejected product \$ in-process | <input type="checkbox"/> Make (design, material, labor, machine time, etc.) versus Buy (purchase) decisions for fixturing costs |
| <input type="checkbox"/> Value of rejected product \$ in final inspection | <input type="checkbox"/> Value of standardized and modular fixturing equipment and processes that minimize personnel training. |
| <input type="checkbox"/> Value of rework \$ incurred throughout | |
| <input type="checkbox"/> Annual warranty returns in \$ or % of revenue | |
| <input type="checkbox"/> Penalty \$ for missed deadlines that could lead to a revoked contract \$ | |

See website for ROI Calculator.

We're here to help. Inquire about our fixture design services and customization of plates and rails.

Read what our customers have to say...

Kennebec saved \$40K on parts fixtured with Inspection Arsenal®.



"As part of its lean focus, Kennebec made this fixture system the standard, thereby reducing fixture and training costs and allowing production personnel to inspect parts. In order of priority, CMM programmers have designed 10 dedicated Loc-N-Load™ fixtures for some of their most complex parts. **Bump roughly calculated a savings of nearly \$40,000 in 2014 for the first seven of the 10 parts converted to Loc-N-Load™ plates.**

"We are saving several minutes of inspection time each on these 5,500 pieces, which require 100% inspection. At our shop rate, the plate is paid for in little more than an hour."

Trevy Bump
Quality Supervisor
Kennebec Technology

Methods Machine Tools saves money daily with lean approach to fixturing.



"We are constantly shuffling between CMM training classes, customer demos, and turnkey inspections. **"The quick-swap features of Loc-N-Load™ and Open-Sight™ fixture systems from Inspection Arsenal® make moving between these setups quite simple and efficient.**

"Reducing the time it takes to build and break down inspection setups and faster recalibration means more time can be spent teaching about equipment features and programming techniques."

Tom Oakes
Quality Applications Engineer
Zeiss

PDQ, Inc. saved \$12K with one new fixture.



"The housing parts were previously measured in batches of two, with measurement taking approximately 40 minutes each. Using this new method, each part is measured in 11.25 minutes and the CMM can inspect eight parts in one setup. Using a conservative \$100 per hour quality control rate, this yields a savings of \$384 per batch. **Because this eight-part inspection job repeats 10 times per year, the annual savings for this three-part family is \$11,523."**

Kurt Stephens
Quality Assurance Manager
PDQ, Inc.

The future is modular – don't be left behind!

Quality inspection can be complex, time consuming and expensive.

Phillips Precision designs quick swap, modular fixturing that speeds up inspection and makes production faster than ever before!

Triangle Manufacturing saved \$125K on just one project.



"The initial product launch of the implant consists of 3,120 complex parts requiring 100% inspection. Previously, the time to inspect was nearly one hour per piece. The new, leaner process now takes just 35 minutes. **If a \$100 an hour rate is used, the savings in the inspection cycle time alone for this part equates to roughly \$40 per piece or a savings of approximately \$125,000.**

"Much greater savings being realized, but not calculated, are the savings in setup time and the reduction of expensive spindle down-time on the shop floor. This one project, once approved, will require the inspection of thousands more pieces and is just one of the hundreds of parts manufactured by Triangle that will now become a great deal more profitable."

Ken Gredick
Engineering Manager
Triangle Manufacturing Company

"The Inspection Arsenal® product line eliminates many non-value added setup steps through their CMM and vision fixture plates and work holding. By 'fixturing-up' and simplifying the inspection task for repeatable and documented steps, a standard work opportunity has been created to speed inspection and increase the number of parts inspected, even with a less-skilled inspector. Implementation will reduce the downtime of expensive machines on the shop floor – higher machine utilization (e.g., running spindles, cutting chips) increases profits"

Dwight Delgado
LEAN Six Sigma Instructor and
Practitioner, CQE

Read more success stories at:
www.inspectionarsenal.com/case studies

Select Docking Rail and Plate Bundle size that suits your application, then add a work-holding kit. See page 4.

Loc-N-Load™ CMM Bundled Systems

Loc-N-Load™ aluminum fixture plates interlock magnetically to remain firmly secured, yet release quickly and easily for the next job. The system installs effortlessly on all CMMs.

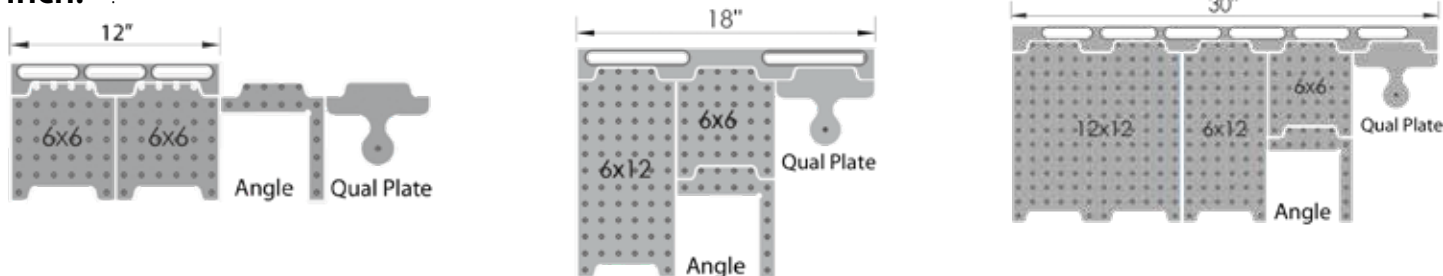
We've made selection easy with preconfigured CMM bundled fixture systems. Select the docking rail and plate bundle that suits your application. Choose from 3 standard and 3 metric sizes.

Next, choose one of 3 size work-holding kits that will suit your application. They all contain selections of the **Inspection Arsenal®** trigger action, low-profile clamps, rails, stops, and hold-downs to enable quick and easy set-ups.

Choose a work-holding kit for your bundled system: ■ **Starter** - 58 pcs. ■ **Complete** - 70 pcs. ■ **The Works** - 146 pcs.

See page 5 for additional plates, clamps and kit contents. Additional work-holding components on pages 14-17.

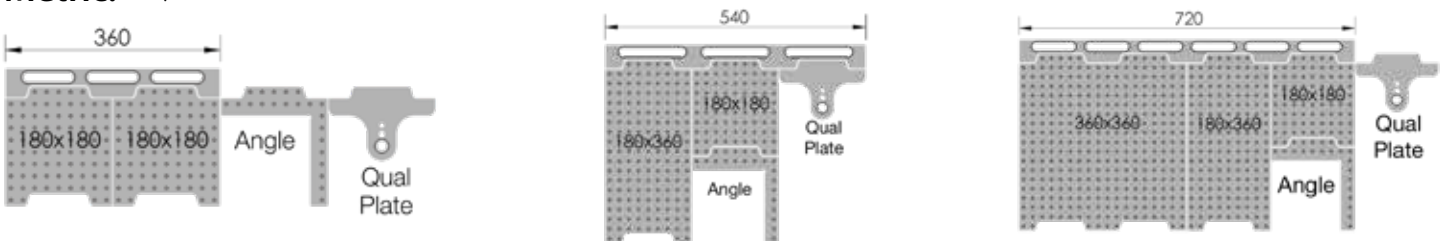
Inch:



12" Rail Bundles			18" Rail Bundles			30" Rail Bundles		
Part #	Description	Price	Part #	Description	Price	Part #	Description	Price
SYS05_DK12TR03	12" dock + Starter Kit	\$1,729	SYS10_DK18TR03	18" dock + Starter Kit	\$1,839	SYS20_DK30TR03	30" dock + Starter Kit	\$2,258
SYS05_DK12TR02	12" dock + Complete Kit	\$1,769	SYS10_DK18TR02	18" dock + Complete Kit	\$1,879	SYS20_DK30TR02	30" dock + Complete Kit	\$2,298
SYS05_DK12TR01	12" dock + The Works Kit	\$3,369	SYS10_DK18TR01	18" dock + The Works Kit	\$3,479	SYS20_DK30TR01	30" dock + The Works Kit	\$3,898

Plate dimensions: .5" thick, 1"x1" hole pattern, 1/4-20 thread

Metric:



360mm Rail Bundles			540mm Rail Bundles			720mm Rail Bundles		
Part #	Description	Price	Part #	Description	Price	Part #	Description	Price
SYSM1_DK360TR03	360 dock + Starter Kit	\$2,139	SYSM2_DK540TR03	540 dock + Starter Kit	\$2,369	SYSM3_DK720TR03	720 dock + Starter Kit	\$3,269
SYSM1_DK360TR02	360 dock + Complete Kit	\$2,179	SYSM2_DK540TR02	540 dock + Complete Kit	\$2,409	SYSM3_DK720TR02	720 dock + Complete Kit	\$3,309
SYSM1_DK360TR01	360 dock + Works Kit	\$3,729	SYSM2_DK540TR01	540 dock + Works Kit	\$3,959	SYSM3_DK720TR01	720 dock + Works Kit	\$4,859

Plate dimensions: 12.7 mm thick, 20 mm x 20 mm hole pattern, M6 thread

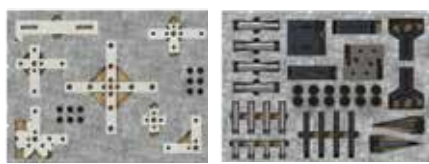
Loc-N-Load™ Fixture Plates and Docking Rails

Workholding Kit Contents – (Choice of one included with bundle)
See kit contents on page 14.

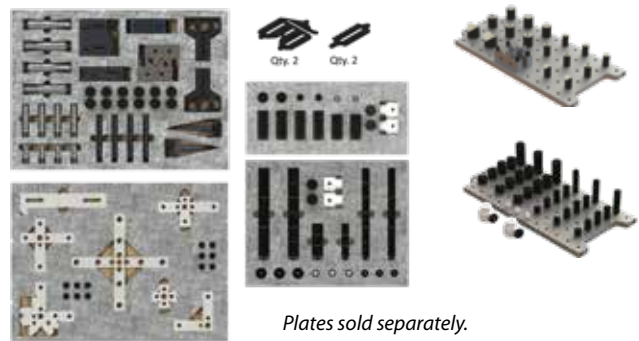
■ **Starter Kit:** 58 pcs.
Inch: TR-KIT-03
Metric: TR-KIT-03M



■ **Complete Kit:**
70 pcs.
Inch: TR-KIT-02
Metric: TR-KIT-02M

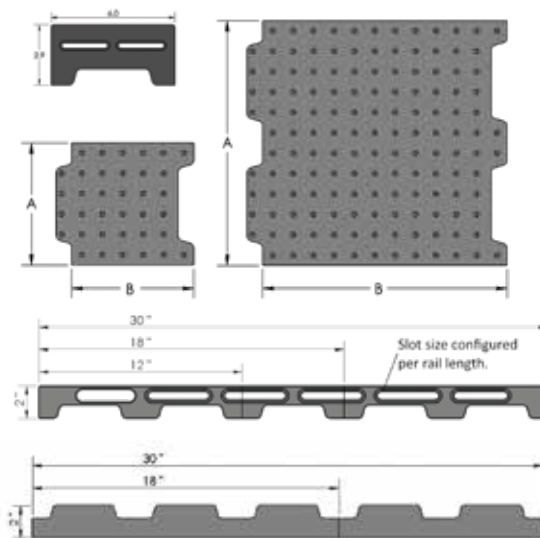


■ **The Works Kit:** 146 pcs.
Inch: TR-KIT-01 Metric: TR-KIT-01M

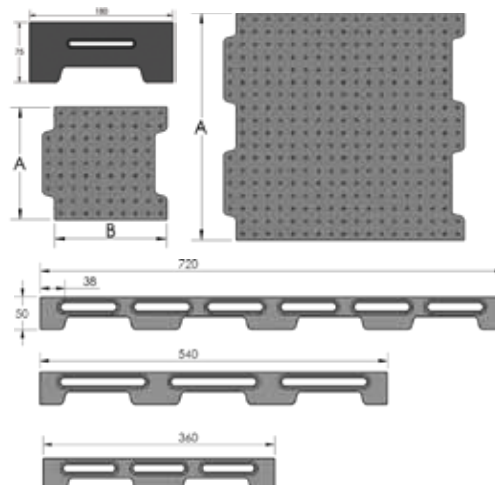


Loc-N-Load™ fixture plates and docking rails can be ordered individually.

Inch Plates: 0.5" thick, 1/4-20 threads, 1" x 1" hole spacing



Metric Plates: 12.7mm thick, M6 threads, 20mm x 20mm hole spacing



Inch: Loc-N-Load™ Docking Rails and Fixture Plates (1/4-20)

Part #	Description	A	B	Price
Docking rails		Inch	Inch	
OC-DOCK-06	Docking rail 6"	6"	3"	\$205
LNL-DOCK-12	Docking rail 12"	12"	2"	\$280
LNL-DOCK-18	Docking rail 18"	18"	2"	\$320
LNL-DOCK-30	Docking rail 30"	30"	2"	\$420
End caps				
LNL-ENDCAP-18	End cap 18"	18"	2"	\$250
LNL-ENDCAP-30	End cap 30"	30"	2"	\$310
Fixture plates				
LNL-PLT-0606	Fixture plate 6 x 6	6"	6"	\$180
LNL-PLT-0612	Fixture plate 6 x 12	6"	12"	\$250
LNL-PLT-0618	Fixture plate 6 x 18	6"	18"	\$320
LNL-PLT-1212	Fixture plate 12 x 12	12"	12"	\$400
LNL-PLT-1218	Fixture plate 12 x 18	12"	18"	\$550
LNL-PLT-1818	Fixture plate 18 x 18	18"	18"	\$1,175
LNL-PLT-1824	Fixture plate 18 x 24	18"	24"	\$1,685

Metric: Loc-N-Load™ Docking Rails and Fixture Plates (M6)

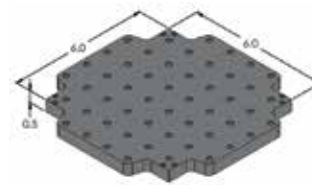
Part #	Description	A	B	Price
Docking rails, plates		mm	mm	
OC-DOCK-M180	Docking rail 180	180	75	\$290
LNL-DOCK-M360	Docking rail 360	360	50	\$340
LNL-DOCK-M540	Docking rail 540	540	50	\$380
LNL-DOCK-M720	Docking rail 720	720	50	\$490
LNL-M180180	Fixture plate 180 x 180	180	180	\$290
LNL-M180360	Fixture plate 180 x 360	180	360	\$480
LNL-M360360	Fixture plate 360 x 360	360	360	\$790
LNL-M360540	Fixture plate 360 x 540	360	540	\$1,140

Accessory and Specialty Plates/Pneumatic Systems

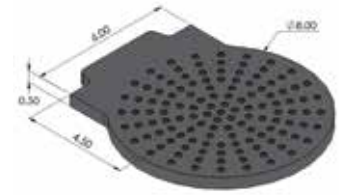
 Air-Glide™ Option for Loc-N-Load™ Plates

The **Indexable Loc-N-Load™ Plate** allows rotation and access to complex parts and the **Radial Loc-N-Load™ Plate** is perfect for measuring round parts.

System accessories: A **Qualifying Ball Plate** can be removed quickly when not in use. An **Angle Plate** provides a stop when you need to inspect quickly on the granite. An **Adapter Plate** enables you to re-use existing fixtures with **Loc-N-Load™** system.



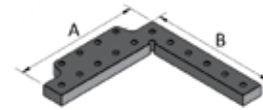
Indexable Loc-N-Load™ Plate



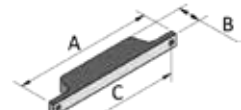
Radial Loc-N-Load™ Plate

Inch: Accessory Plates - 1/4-20, 1" hole pattern					
Part #	Description	A	B	C	Price
LNL-ADPT-06	Adapter plate	6"	1"	5.5"	\$119
LNL-ANGL-0603	Angle plate/stop	6"	6"		\$180
LNL-QUAL-PLT*	Qualifying ball plate	6"	3"	M8 x 1.25	\$250
LNL-0606-4X	Indexable plate				\$385
LNL-RND-0608	Radial plate				\$430
Metric: Accessory Plates - M6, 20 mm hole pattern (mm)					
LNL-ADPT-M6	Adapter plate	180	30	146.05	\$130
LNL-ANGL-M6	Angle plate/stop	180	180		\$260
LNL-QUAL-PLT-M	Qualifying ball plate	180	80	M8 x 1.25	\$270

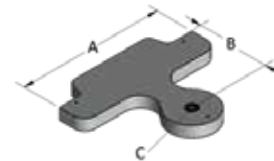
Inquire about Metric for LNL-0606-4X, LNL-RND-0608



Angle Plate/Stop



Adapter Plate



Qualifying Ball Plate

**Inquire about other threaded inserts available*

Air-Glide™ Option for Loc-N-Load™ Plates

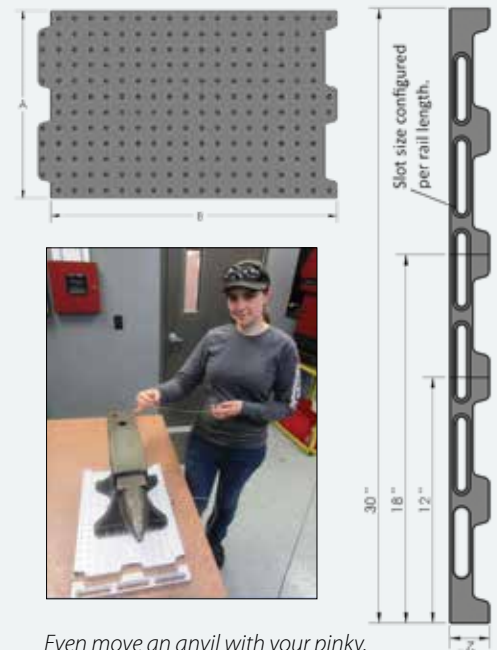
Loc-N-Load™ fixture plates can be ordered with air assist. Let your CMM and fixture plates do the heavy work. With a flip of a switch and one pinky finger, inspectors can easily glide the weight of an anvil across the granite!

An **Air-Glide™** feature can be added to the standard 12" x 18" plate or larger. When the Air-Glide™ feature is added, a range of larger plates can be used. (See chart.) The air assist plates are made to order and come complete with air line and switches. Simply connect to your CMM's compressed air hose and get started.

Air Glide™ Loc-N-Load™ plates include valves, tubing, and brackets.
Clear anodized aluminum, 0.5" thick, 1" x 1" spacing, 1/4-20 thread

Part#	Description	A	B	Price
LNL-DOCK-12	Docking rail 2" x 12"			\$280
LNL-DOCK-18	Docking rail 2" x 18"			\$320
LNL-DOCK-30	Docking rail 2" x 30"			\$420
LNL-PLT-1218-AIR	Fixture plate - Air-Glide™	12"	18"	\$1,019
LNL-PLT-1818-AIR	Fixture plate - Air-Glide™	18"	18"	\$1,749
LNL-PLT-1824-AIR	Fixture plate - Air-Glide™	18"	24"	\$2,195
LNL-PLT-2424-AIR	Fixture plate - Air-Glide™	24"	24"	\$2,695
LNL-PLT-2436-AIR	Fixture plate - Air-Glide™	24"	36"	\$2,995



Inquire about Metric



Even move an anvil with your pinky.

Air-Glide™ lets your CMM and fixture plates do the heavy work.

See page 5 to add plates and accessories.

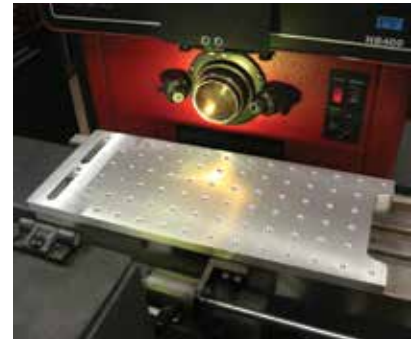
-  Optical Comparator Bundled System
-  Portable 3D Gage Arm Bundled System

Loc-N-Load™ Bundled Systems

Optical Comparator Bundled System

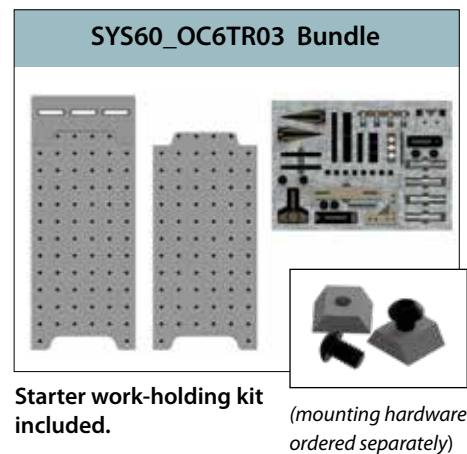
The Optical Comparator bundle includes **Loc-N-Load™** fixture plates and rails PLUS 58-pc. clamp kit and a dock that's made to fit optical comparators. Speed up inspections and alternate setups between two 6" x 12" or 180 mm x 360 mm plates. Add fixture plates or mounting hardware as needed.

This smaller fixture system is perfect for your optical comparators' inspection applications. **Loc-N-Load™** fixture rails, plates, and work-holding clamps create affordable, repeatable, and durable fixtures that reduce setup time and process more parts per shift. Plates can be dedicated and kept with the job box for fast, repeatable setups.



Optical Comparator Fixture System

Part #	Inch: Optical Comparator Options	Price
SYS60_OC6TR03	Bundled System: 6" x 3" docking rail, two 6" x 12" fixture plates, plus 58-pc. Starter work-holding kit	\$1,379
OC-DOCK-06	6" optical comparator docking rail	\$205
NUT-DT-ASY	Mounting hardware (1/4-20) for tables with dovetail slot	\$29
Part #	Metric: Optical Comparator Options	Price
SYS60M_OC180TR03	Bundled System: 180 mm Docking Rail, two 180 mm x 360 mm, LNL fixture plates plus, 58 pc. Starter work-holding kit	\$1,800
OC-DOCK-M180	Optical comparator dock: 180 mm	\$290
NUT-DT-ASY-M	Mounting hardware (M6) for tables with dovetail slot	\$29



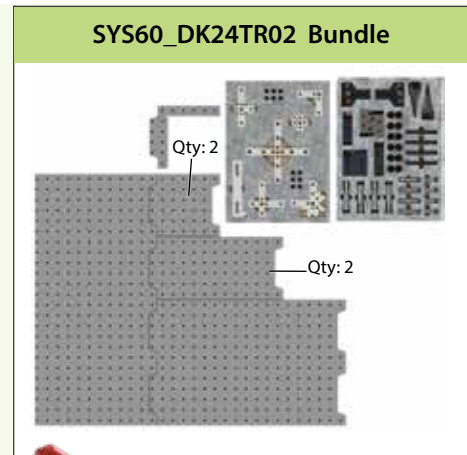
Portable 3D Gage Arm Bundled System

Further enhance the value of your portable 3D Gage Arm/CMMs with the lean, quick-swap **Loc-N-Load™** fixture system. Install the gage onto the Loc-N-Load™ base and start inspecting. Interlocking fixture plates quickly secure and release with the use of magnets, creating highly repeatable setups.

Get started with a preconfigured bundle and add plates as work requires.

You'll save money on shop floor inspection when you use Loc-N-Load™ quick-swap fixturing.

Part #	Inch: 3D Gage Arm Options	
SYS60_DK24TR02	Bundled System: 24" x 12" dock, two 6" x 6" plates, two 6" x 12" plates, one 12" x 18" plate; angle plate; 70-pc. Complete work-holding kit	\$2,899
LNL-DOCK-2412	24" x 12" docking plate	\$790
Additional Plates		
LNL-PLT-0606	Loc-N-Load™ Fixture plate 6" x 6"	\$180
LNL-PLT-0612	Loc-N-Load™ Fixture plate 6" x 12"	\$250
LNL-PLT-0618	Loc-N-Load™ Fixture plate 6" x 18"	\$320
LNL-ADPT-06	Loc-N-Load™ Adapter plate	\$119
GA-MAG-0909	Magnetic Mount for Gage Arm 9" x 9" x .27"	\$585
Part #	Metric: 3D Gage Arm Options (mm)	
SYS60M_DK540TR02	Bundled System: 540 dock, 180 x 180, 180 x 360; 360 x 360 plates; angle plate, 70 pc. Complete work-holding kit, M6 threads	\$3,690
LNL-DOCK-M540300	Loc-N-Load™ 540 mm x 300 mm docking plate	\$1,190



3D Gage Arm Fixture System

Vises and Specialty Clamps

Rapid-Loc™ Pneumatic Vise for CMM

The **Rapid-Loc™** pneumatic vise for CMM inspection is designed to take advantage of the air at your CMM. Soft jaws for the Rapid-Loc™ vise can be customized to hold almost any part. Regulated air pressure can produce just enough clamping force to hold delicate parts or as much as 150 lbs. if needed.

Mount Rapid-Loc™ vises on **Loc-N-Load™** quick-swap fixture plates for fast, accurate, and highly repeatable setups that help break inspection bottlenecks. Rapid-Loc™ can also be mounted on existing CMM grid plates.

Plates and rails sold separately.

2.5" Rapid-Loc™ Air Vise System		
Part#	Description	Price
RL-VISE-SYS02	2.5" Rapid Loc™ Vise System - assembled Soft jaws, valve and fittings included. Request product sheet.	\$949.00
RL-REGULATOR	Air regulator with mounting bracket**	\$80.00
Consumable Accessories/Additional Fittings (purchase for multi-vise setups)		
RL-SJAW-02	Aluminum soft jaws (set of 2)	\$59.95
RL-MV-PACK	Multi-vise connector pack: Elbows, tees and 6' tubing	\$36.95
RL-PORT-PLUGS	Multi-vise connector pack: 1/8" tube to 1/8" NPT 4 port w/3 plugs	\$34.00
Metric: Rapid-Loc™		
RLM-ADAPT-02	Rapid-Loc™ Adapter Base Plate (needed for metric)	\$90.00

Air regulator needed – sold separately.

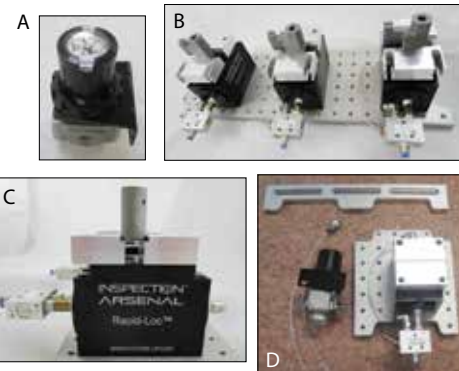
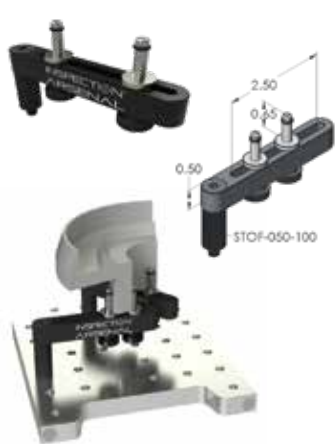


Photo Descriptions:

- A: Air regulator with mounting bracket.
 B: 2.5" Rapid-Loc™ multi-vise assembly mounted on Loc-N-Load™ plate. Configure with air regulator**, tubing and additional fittings.
 C: Assembled 2.5" Rapid-Loc™ vise system.
 D: Assembled 2.5" Rapid-Loc™ vise system, plus 12" LNL docking rail and 6" Plate; configure with regulator.
 E: Rapid-Loc™ Adapter Base Plate for metric only

** Customer must have a quick connector to attach to the CMM's air hose.

Vises and Specialty Clamps



Spider-Clamp™ – SC-06-01
SC-06-01-M
\$149.00

1 legged, 3" length
 Hold parts of infinite size and shape.



Spider-Clamp™ – SC-06-03
SC-06-03-M
\$595.00

3 legged for holding round parts from 1.18" to 6" in diameter
 Hold delicate round parts without distortion for Vision and CMM.



ER 16 Collet Chuck – CC-ER16
\$265.00

with flanged bottom, opening from .012" to .416"
 Hold small diameter parts, flanged for more stability.
(Collet not included)



ER 11 Collet Chuck – CC-ER11
\$182.00

opening from .012" to .312"
 Hold small diameter parts and create multi-part fixture.
(Collet not included)



Vises, Specialty Clamps and NEW Products



Adjustable Riser-Grip™ – RG-2.75
\$325.00

Full-Access clamp, adjustable. Secure parts from .0 to 2.1" in thickness.



Spanner-Vise™ – SP-VISE-2.50
\$675.00

2 pc. vise can infinitely adjust to accommodate work piece and lock down securely.

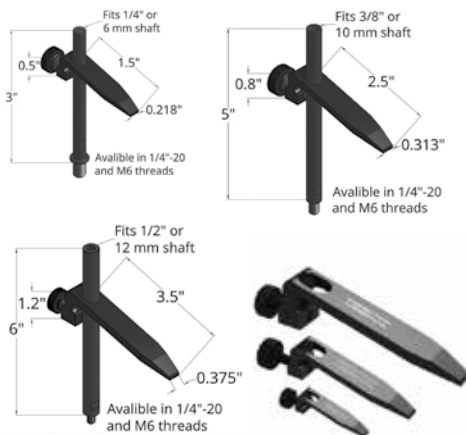


M5 Edge Finder™
EF-375-400-00
\$69.95

Edge find in your CNCs with the door open and spindle off!



NEW! Vises and Specialty Clamps



Sturdy Lever Clamps
Call for Pricing - Coming Soon!

3 SIZES! 1.5", 2.5" and 3.5" length
When extra force is required, clamps can be angled and secured.

Skinny-Vise™ Available in Two Styles: Thumb Screw and Spring Loaded



Skinny-Vise™
SV-4375 with thumb screw: \$359.00
SV-4375-SPR with 3 compression springs: \$359.00

Static jaw is adjustable up to 1.25" while locking jaw easily engages with a gentle twist of thumb screw OR choose the vise with compression springs (3 strengths) to ensure consistency of force between inspectors. Jaws are customizable.



Inch: Open-Sight™ for Vision Bundled Systems

Open-Sight™ is the **Inspection Arsenal®** version that is especially designed for vision systems and it offers the same profit-enhancing benefits. Docking rails fit the stage of any optical machine. Black anodized aluminum rails and scratch-resistant polycarbonate plates are 0.5" thick with 1/4-20 holes and 0.5" hole spacing.

VIS-KIT-01 comes complete with steel, scalloped spring clamps, hole adjusters, low profile rails and hold down clamps. An acrylic riser platform helps to hold parts out over the viewing surface.

VIS-KIT-02 comes with a full-access **Riser-Grip™**, magnetic vblocks, clear scalloped corner stops, a variety of stand-offs and 2 style hold downs.

VISION Work-Holding Kit-01

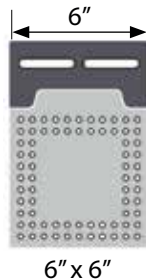


Choose Work Holding Kit Option (see page 11 for kit contents)

VISION Work-Holding Kit-02

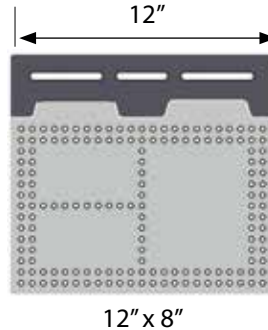


6" VISION Bundle + Vision Kit



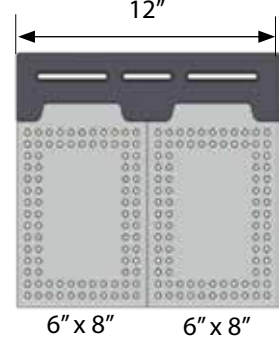
SYS01_DK06VIS01: \$967
SYS01_DK06VIS02: \$1,519

12" VISION Bundle + Vision Kit



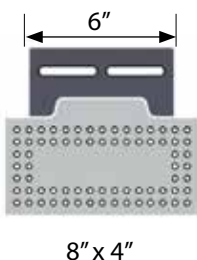
SYS02_DK12VIS01: \$1,297
SYS02_DK12VIS02: \$1,849

12" VISION Bundle + Vision Kit



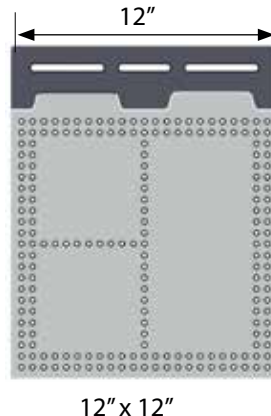
SYS03_DK12VIS01: \$1,397
SYS03_DK12VIS02: \$1,904

6" VISION Bundle + Vision Kit



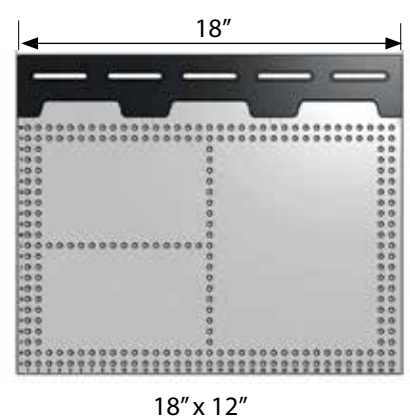
SYS04_DK06VIS01: \$1,037
SYS04_DK06VIS02: \$1,589

12" VISION Bundle + Vision Kit



SYS06_DK12VIS01: \$1,697
SYS06_DK12VIS02: \$2,249

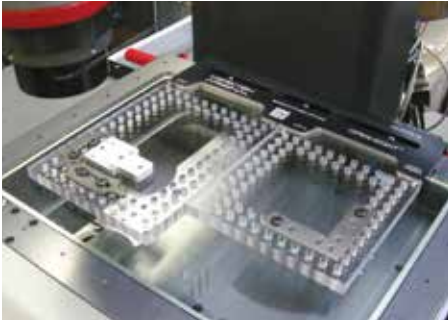
18" VISION Bundle + Vision Kit



SYS07_DK18VIS01: \$1,927
SYS07_DK18VIS02: \$2,489

We've made selection easy with preconfigured bundled systems. Bundles include docking rail, plate(s), and work-holding kit designed for vision set ups.

Inch: Open-Sight™ Vision Plates, Rails and Accessories



12" Open-Sight™ docking rail with fixture plates.

Vision Kits

Vision Work-Holding Kit-01	Inch	Metric
Hole adjuster	2	
Adjustable platform	1	
Sliding-Stop™	2	
Spring-Loc™	2	
Simple-Stop™ #01-OS, #06, #07	3	
Trigger-Finger™	2	
Trigger-Point™	2	
Steel shaft/stand-off	4	
Hex key, assorted screws	16	
TOTAL	34	

Vision Work-Holding Kit-02 w/Riser-Grip™		
Inch	Metric	Qty.
Trigger-Finger™	Trigger-Finger™	2
Trigger-Point™	Trigger-Point™	2
Steel shaft/stand-off	Steel shaft/stand-off	4
Stand-off 1/2" x 1"	Stand-off 12.7 x 25	4
Stand-off 1/2" x 2"	Stand-off 12.7 x 50	4
Stand-off 1/2" x 4"	Stand-off 12.7 x 100	4
V-Block 90° angle	V-Block 90° angle	2
Riser-Grip™ adjustable	Riser-Grip™ adjustable	1
Clr. Corner Stop, pc*	Clr. Corner Stop, pc*	2
MISC screws, etc.	MISC screws, etc.	9
	TOTAL	34

* polycarbonate



Customize Blank Plates
(see chart)

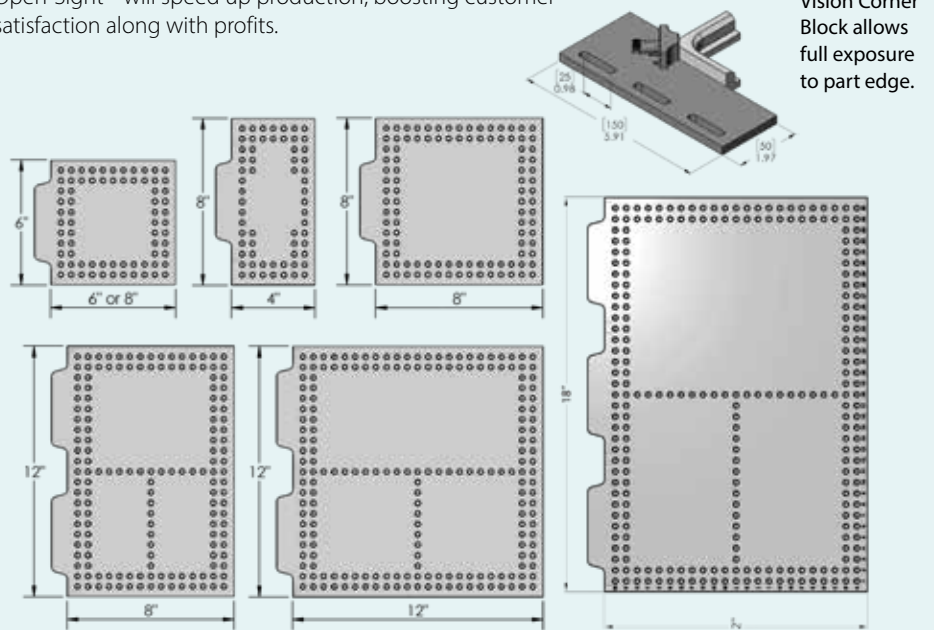
- For greater savings, order blank plates and add only holes you need.
- Add docking rails on sides of stage to create more locations for inspection.

Open-Sight™ offers the same lean fixture concept for vision systems.

Docking rails fit the stage of any optical machine. The **Open-Sight™** fixture plate system's lean, quick-swap features make it the clear choice for vision inspections.

Inspectors have the flexibility to join docking rails end-to-end for added length, or opposite each other to create more locations and provide greater stage coverage. You can dedicate low-cost plates for gauging to speed recalibration. Or dedicate plates for repeat parts to become part of a job kit, reducing setup time.

Open-Sight™ will speed up production, boosting customer satisfaction along with profits.



Polycarbonate Fixture Plates, Aluminum Docking Rails and Accessories - 0.5" thick, 1/4-20 thread

Part #	Description	Price
OS-DOCK-06	Docking rail 6" x 3"	\$205
OS-DOCK-12	Docking rail 12" x 3"	\$295
OS-DOCK-18	Docking rail 18" x 3"	\$335
OS-DOCK-24	Docking rail 24" x 3"	\$395
OS-PLT-0606	Plate 6" x 6"	\$255
OS-PLT-0606-B	Plate blank 6" x 6"	\$195
OS-PLT-0608	Plate 6" x 8"	\$275
OS-PLT-0804	Plate 8" x 4"	\$325
OS-PLT-0808	Plate 8" x 8"	\$325
OS-PLT-1208	Plate 12" x 8"	\$495
OS-PLT-1208-B	Plate blank 12" x 8"	\$395
OS-PLT-1212	Plate 12" x 12"	\$895
OS-PLT-1812	Plate 18" x 12"	\$1,095
VCB-150M	Vision Corner Block	\$375
LNL-ADPT-06	Adapter plate 6" x 1"	\$119




6", 12", 18", 24" rails
Slot size configured
per length.

Metric: Open-Sight™ for Vision Systems - See page 10-11 for kit contents.

Metric Open-Sight™ Vision Bundles - Includes choice of kits.


100 mm Vision Bundle



100x100

SYSM4_DK100V01: \$1,022
SYSM4_DK100V02: \$1,614

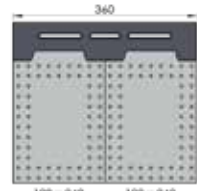
200 mm Vision Bundle



200x200

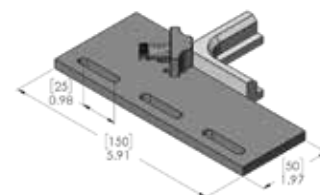
SYSM4_DK200V01: \$1,299
SYSM4_DK200V02: \$1,894

360 mm Vision Bundle



180 x 240 180 x 240

SYSM4_DK360V01: \$1,889
SYSM4_DK360V02: \$2,476



Vision Corner Block
allows full exposure to part edge.

Our **Open-Sight™** system is transparent so inspectors can see their work clearly, and inspect with greater speed and accuracy.

Black anodized aluminum rails and clear, polycarbonate plates are 12.7 mm thick, with 10 mm, 20 mm spacing and M6 holes.

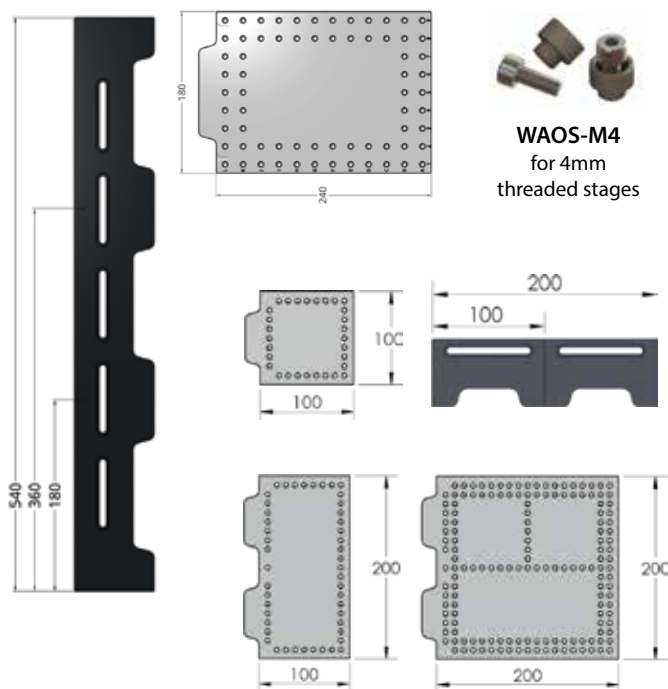
System comes in increments of 100 and 180 mm.

- Durable, scratch-resistant polycarbonate plates.
- Leveling feet available upon request.
- More open viewing area.
- Dedicate a plate to gauging for fast recalibration.
- **Blank plates are available for you to customize.**

Open-Sight™ Vision Bundles: Choose (100, 200 or 360 mm) Docking Rail and Plates PLUS Vision Kit

Part#	Bundle Description	Rail (mm)	Price
SYSM4_DK100V01	100 mm dock and plate + VIS-KIT-01M	100 x 60	\$1,022
SYSM4_DK100V02	100 mm dock and plate + VIS-KIT-02M	100 x 60	\$1,614
SYSM4_DK200V01	200 mm dock and plate + VIS-KIT-01M	200 x 60	\$1,299
SYSM4_DK200V02	200 mm dock and plate + VIS-KIT-02M	200 x 60	\$1,894
SYSM4_DK360V01	360 mm dock + (2) 180 x 240 mm plates + VIS-KIT-01M	360 x 75	\$1,889
SYSM4_DK360V02	360 mm dock + (2) 180 x 240 mm plates + VIS-KIT-02M	360 x 75	\$2,476
VIS-Kit-01M	Vision Work-Holding kit (34 pcs.)		\$597
VIS-Kit-02M	Vision Work-Holding kit (34 pcs.)		\$1,179

Metric Open-Sight™ Vision Fixture Plates and Docking Rails



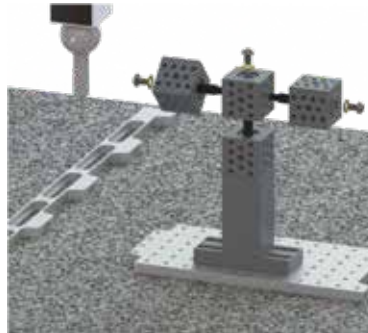
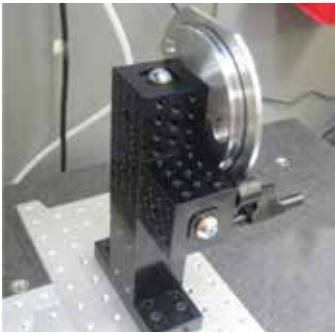
Open-Sight™ Aluminum Docking Rails and Polycarbonate Plates

Part #	Description (mm)	Size (mm)	Price
OS-DOCK-M100	Docking rail 100 x 60	100 x 60	\$185
OS-DOCK-M180	Docking rail 180 x 75	180 x 75	\$290
OS-DOCK-M200	Docking rail 200 x 60	200 x 60	\$255
OS-DOCK-M360	Docking rail 360 x 75	360 x 75	\$439
OS-DOCK-M540	Docking rail 540 x 75	540 x 75	\$540
OS-M100100	Plate 100 x 100	100 x 100	\$250
OS-M200100	Plate 200 x 100	200 x 100	\$320
OS-M200200	Plate 200 x 200	200 x 200	\$460
OS-M180240*	Plate 180 x 240	180 x 240	\$429
OS-M100100-B	Blank plate 100 x 100	100 x 100	\$225
OS-M200200-B	Blank plate 200 x 200	200 x 200	\$410
VCB-150M	Vision Corner Block	150 x 50	\$375
WAOS-M4	4mm thread: 2 washers 2 screws		\$49.50

Metric dimensions:

*10 mm spacing is on all plates - EXCEPT OS-M180240 has 20 mm hole spacing.

Modular Tower System for CMM Inspections



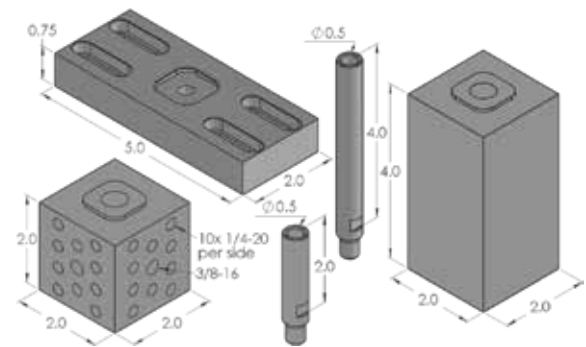
Modular tower built vertically and horizontally.

Our modular fixture tower expands the CMM work area, enabling inspectors to work more efficiently – and more effectively.

The first in our line of towers is a 2" interlocking system that can be built both vertically and horizontally. Cubes added horizontally can be turned to any angle and locked securely.

- Building-block design lets you determine the height you want.
- Staggered hole pattern adds flexibility for work holding.
- Adds even more versatility to **Inspection Arsenal®** work-holding and **Lock-N-Load™** fixture plates.
- Build vertically and horizontally – it's secure at any angle.
- Works with all existing 1/4-20 or M6 fixture plates.
- Use more available space of the CMM work envelope.
- Won't interfere with the probe's travel.

Inspectors are no longer limited to a few towers of fixed sizes. Maximize the work area of your CMM without interfering with the probe's travel.



For metric option, cubes and mounting base are the only parts different. Cubes have M6 threaded holes and mounting base works with 20mm metric plate hole pattern – all other parts in the system remain the same.

Modular Tower System					\$749
Inch		Metric		Qty.	
MT2-SYS-01		MT2-SYS-01-M			
MT-BASE-2.0	Mounting base with 1/4-20 slots	MT-BASE-2.0-M	Mounting base with M6 slots	1	
MT-CUBE-2.0	2" x 2" cubes 1/4-20	MT-CUBE-2.0-M	2" x 2" cubes M6	4	
MT-SPACER-4.0	4" blank spacer block	MT-SPACER-4.0-M	4" blank spacer block M6	1	
MT-POST-2	1/2" diameter, 2" steel post	MT-POST-2	1/2" diameter, 2" steel post	4	
MT-POST-4	1/2" diameter, 4" steel post	MT-POST-4	1/2" diameter, 4" steel post	1	

Modular Tower Components

Part #	Description	Price
Inch - Steel Posts, Cubes, Spacers, Base		
MT-BASE-2.0	Mounting base for 2" tower system, black anodized aluminum with 1/4-20 mounting slots	\$142.50
MT-SPACER-4.0	2" x 4" high interlocking blank spacer	\$77.50
MT-CUBE-2.0	2" black anodized aluminum cube, 1/4-20 threaded holes with a 3/8"-16" threaded hole to accept a 1/2" post for rotating blocks. Male/female connectors to create stability. Request additional button heads	\$123.00
MT-POST-2	1/2" diameter, 2" steel post, black oxide coated	\$28.00
MT-POST-4	1/2" diameter, 4" steel post, black oxide coated	\$38.00
Metric - Steel Posts, Cubes, Spacers, Base		
MT-BASE-2.0-M	Mounting base for 2" tower system, black anodized aluminum with 20 mm M6 mounting slots	\$142.50
MT-CUBE-2.0-M	2" black anodized aluminum cube, M6 x1.0 threaded holes with a 3/8"-16" threaded hole to accept a 1/2" post for rotating blocks. Male/female connectors to create stability. Request additional button heads	\$123.00

Preconfigured system includes several interchangeable components:

- Highly accurate components designed with male/female locating features.
- Mounting base, 2" x 2" cubes, 1/4-20 or M6 slots, 4" blank spacer block.
- 2" and 4" posts that connect the system and provide pivot points.
- Each cube has 10 (1/4-20 or M6) holes per side for flexibility in holding positions and a 3/8" x 16" threaded centered hole that allows cubes to be added horizontally.
- Made from aluminum that is black anodized for durability.
- Choose the preconfigured system or order pieces individually.

- **Includes hardware for mounting and assembling.**
- **Purchase additional parts to add to your system as needed.**
- **Watch for additions to the system.**
- **Inquire about custom-sized systems.**

Inspection Arsenal® Work-Holding Kits

- Starter Kit
- Complete Kit
- The Works Kit

The **Inspection Arsenal's®** fast trigger action, low-profile, non-marring clamps enable inspectors to set up quickly and cleanly. **Its trigger-action makes it so easy to use**, parts can be put in place with one hand, eliminating the need for tools, messy tape, and glue.

Components are sold in several affordable kit combinations. Components include:

- **Trigger-Block™**, **Cross-Bow™**, and **D-Block™** spring clamps
- **Trigger-Finger™** hold-down
- **Silver-Bullet™** stand-offs
- **Simple-Stop™** low-profile rails and stops
- **V-Blocks**, which can be used horizontally or vertically
- Magnetic stand-off and rest pads
- Traditional stand-offs

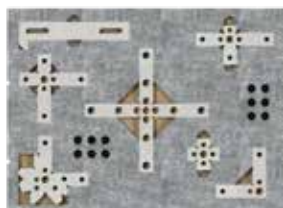
See Pages 16-17 for a complete listing of **Inspection Arsenal®** work-holding components.

1/4-20 threads or M6 threads

Starter Kit Inch: TR-KIT-03, \$659 Metric: TR-KIT-03M, \$689



Complete Kit Inch: TR-KIT-02, \$699 Metric: TR-KIT-02M, \$729



Starter Kit	Inch	Metric
Cross-Bow™ spring clamp	2	
D-Block™ spring stop	2	
V-Block, set of 2	2	
Silver-Bullet™, 2 sets of 4: 1" and 3"	8	
3" Steel shaft, stackable	2	
Trigger-Finger™ hold downs	2	
Hole adjuster	2	
Simple-Stops™, 2 ea. #01, #07	4	
Stand-offs, assorted sizes	13	
Hex keys, assorted screws, wrench	21	
Total	58	

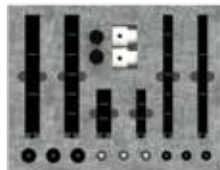
Complete Kit	Inch	Metric
Cross-Bow™ spring clamp	4	
D-Block™ spring stop	4	
Trigger-Block™ spring clamp	2	
Silver-Bullet™, 3 sets of 4: 1", 2", 3"	12	
V-Block, set of 2	2	
3" Steel shaft, stackable	4	
Trigger-Finger™ hold downs	2	
Hole adjuster	2	
Simple-Stop™, set of 7	7	
Hex keys, assorted screws, wrench	31	
Total	70	

The Works Kit Inch: TR-KIT-01: \$2,229 Metric: TR-KIT-01M: \$2,279

The Works kit combines components found in **Inspection Arsenal®** sets, including clamps, rails, stand-offs, and magnetic risers.

This kit contains everything you need to create multiple fixtures across several CMMs.

1/4-20 threads or M6 threads



Plates sold separately.

The Works Kit	Inch	Metric
Spring Clamps		
Cross-Bow™ spring clamp	4	
D-Block™ spring stop	4	
Trigger-Block™ spring clamp	2	
Trigger-Finger™ hold downs	2	
3" Steel shafts, stackable	4	
Spring-Loc™ low profile clamp	2	
Risers and Stand-Offs		
Silver-Bullet™, 3 sets of 4: 1", 2", 3"	12	
V-Block, set of 2	2	
Stops and Rails		
Simple-Stop™ rails, set of 7	7	
Hole adjuster	2	
Sliding-Stop™ low profile stop	2	
Hex keys, plus assorted screws	43	
Stand-Off and Riser Sets		
Stand-Off and Rest Pad Set	37	
Magnetic Riser Set	23	
Total	146	

Plus 55 foam drawer inserts included with all kits.

Magnetic Riser Set

Stand-Off and Rest Pad Set

Enhanced Stand-Off Set

Magnetic Riser Set

Inch: MAGN-SET-30, \$989

Metric: MAGN-SET-30M, \$989



Magnetic clamping allows for unlimited probe access and MORE holding options for steel parts during CMM inspection. Combine with stand-offs and other work-holding kits for fixture building. (1/4-20 or M6 threads)

Components sold in kit form only.

Magnetic Riser Set, MAGN-SET-30

	Inch (1/4-20)	Qty.	Metric (M6)	Qty.
Magnetic Rest Pad	1/2" dia. x 1" ht.	3	12.7 dia. x 25.4 mm ht.	3
Magnetic Rest Pad	3/4" dia. x 1" ht.	3	19 dia. x 25.4 mm ht.	3
Magnetic Pin Rest	1/2" dia. x 1" ht.	3	12.7 dia. x 25.4 mm ht.	3
Magnetic Pin Rest	3/4" dia. x 1" ht.	3	19 dia. x 25.4 mm ht.	3
Magnetic V stand-off	1/2" dia. x 1" ht.	2	12.7 dia. x 25.4 mm ht.	2
Magnetic V stand-off	1" dia. x 1" ht.	2	25.4 dia. x 25.4 mm ht.	2
1" ht. Magnetic V-Block Set (set includes 1 hex key and 4 bolts)		2	25.4 mm ht. Magnetic V-Block Set (set includes hex key and 4 bolts)	2
Total		23	Total	23

Plates sold separately - see page 5.

Stand-Off & Rest Pad Set

Inch: STOF-SET-30, \$525

Metric: STOF-SET-30M, \$545



High quality stand-offs and rest pads add flexibility to CMM fixture design. Made of plastic and steel with 1/4-20 threads for inch and M6 threads for metric. Combine with Starter, Complete and The Works kits.

Inquire about purchasing individual components.

Additional size stand-offs on page 16.

Stand-Off & Rest Pad Set

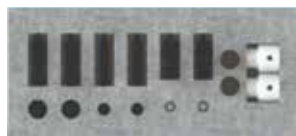
STOF-SET-30 Inch	Qty.	STOF-SET-30M Metric	Qty.
Plastic height adjuster	2	Plastic height adjuster	2
Plastic cone	3	Plastic cone	3
Stand-off 1/2" dia. x 3/4" ht.	3	12.7 mm dia. x 20 mm ht.	3
Stand-off 1/2" dia. x 1" ht.	6	12.7 mm dia. x 25 mm ht.	6
Stand-off 1/2" dia. x 2" ht.	3	12.7 mm dia. x 50 mm ht.	3
Thumb screws (1/4-20)	2	Thumb screws (M6)	2
Pin rest 1/2" dia. x 1/2" ht.	3	12.7 mm dia. x 12.5 mm ht.	3
Pin rest 3/4" dia. x 1/2" ht.	3	19 mm dia. x 12.5 mm ht.	3
Stand-off 3/4" dia. x 3/4" ht.	6	19 mm x 20 mm ht.	6
Stand-off 3/4" dia. x 1" ht.	6	19 mm. x 25 mm ht.	6
Stand-off 3/4" dia. x 2" ht.	3	19 mm x 50 mm ht.	3
Total	37	Total	37

Plates sold separately - see page 5

Enhanced Stand-Off Set

Inch: STOF-SET-30, \$749

Metric: STOF-SET-30M, \$789



Enhance other work holding with articulating height adjusters and stand-offs that can be angled in any direction. This set adds flexibility to inspection setups. Plastic and steel with 1/4-20 or M6 threads. Combine with other kits for added versatility.

Inquire about purchasing individual components.

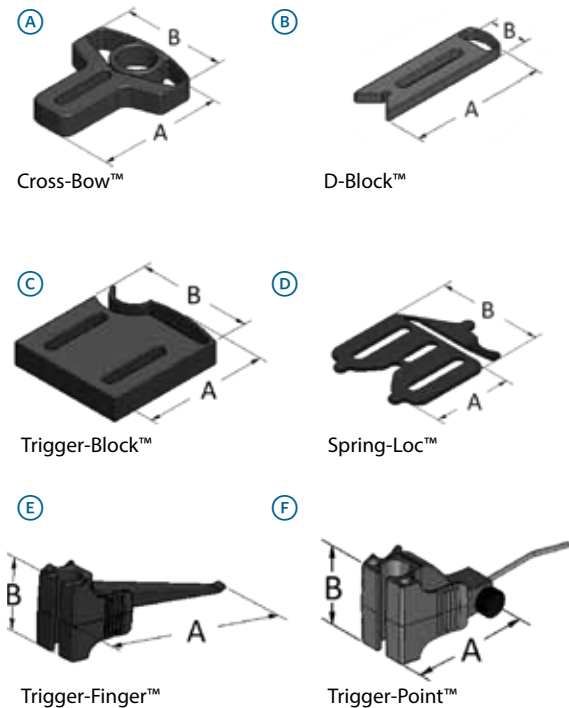
Enhanced Stand-Off Set

STOF-SET-30	Inch (1/4-20)	Qty.	STOF-SET-30M Metric (M6)	Qty.
Adjustable stand-off	1/2" dia.	2	12.7 mm dia.	2
Adjustable stand-off	3/4" dia.	2	19 mm dia.	2
Adjustable knuckle	3/4" dia.	2	19 mm dia.	2
Plastic height adjuster		2	Plastic height adjuster	2
Thumb screws (1/4-20)		2	Thumb screws (M6)	2
Plastic cone		2	Plastic cone	2
Stand-off 1/2" dia. x 1" ht.		2	12.7 mm dia. x 25 mm ht.	2
Stand-off 3/4" dia. x 1" ht.		2	19 mm dia. x 25 mm ht.	2
Total		16	Total	16

Plates sold separately - see page 5

Work-Holding Sets and Components for CMM and Vision

Spring Clamps



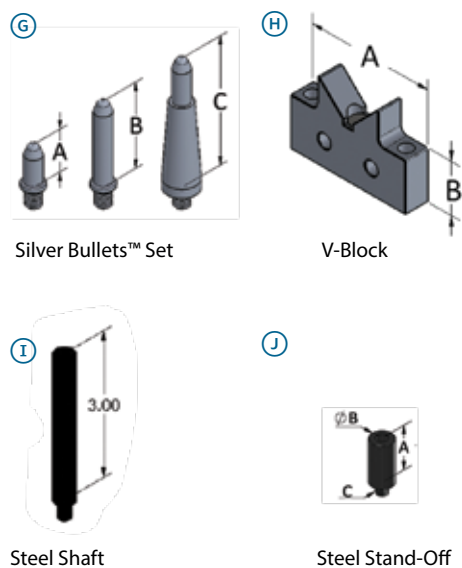
Inch: Spring Clamps (with 1/4-20 mounting hardware) Sizes in inches

Part #	Description	A	B	Qty.	Price
CRBW-30	(A) Cross-Bow™ spring clamp	3.03	2.54	8	\$59.00
D-BLK-30	(B) D-Block™ spring-stop	3.55	1.00	8	\$56.00
TRBL-30	(C) Trigger-Block™ spring clamp	2.76	2.57	6	\$56.00
SPR-LOC	(D) Spring-Loc™ low-profile clamp	1.88	2.50	2	\$79.95
TRFN-20	(E) Trigger-Finger™ with steel shaft			4	\$99.95
TRFN-15	Trigger-Finger™ without shaft	3.64	1.25	4	\$43.80
TRPT-20	(F) Trigger-Point™, 3 tips, steel shaft	1.82	1.25	4	\$199.00

Metric: Spring Clamps (with M6 mounting hardware) Sizes in millimeters

Part #	Description	A	B	Qty.	Price
CRBW-30M	Cross-Bow™ spring clamp	77	65	8	\$69.00
D-BLK-30M	D-Block™ spring-stop	90	25	8	\$69.00
TRBL-30M	Trigger-Block™ spring clamp	70	65	6	\$69.00
SPR-LOC_M	Spring-Loc™ low-profile clamp	47	64	2	\$89.00
TRFN-20M	Trigger-Finger™ with steel shaft			4	\$105.00
TRFN-15M	Trigger-Finger™ without shaft	92	32	4	\$43.80
TRPT-20M	Trigger-Point™, 3 tips, steel shaft	47	32	4	\$209.00

Risers and Stand-Offs



Inch: Risers and Stand-Offs (with 1/4-20 threads/hardware) Sizes in inches

Part #	Description	A	B	C	Qty.	Price
SIBU-SO-100	(G) Silver-Bullet™ module, set of 12	1	2	3	12	\$249.00
SIBU-SO-1	Silver-Bullet™ stand-off set	1			4	\$79.00
SIBU-SO-2	Silver-Bullet™ stand-off set		2		4	\$89.00
SIBU-SO-3	Silver-Bullet™ stand-off set			3	4	\$99.00
VB-001	(H) V-Block 90° included angle	2.45	1		2	\$99.90
TRFN-SHAFT-10	(I) 3" steel shaft, sold individually	3			1	\$16.95
TRFN-SHAFT-20	(I) 3" steel shaft, set of 4	3			4	\$67.80
STOF-050-400	(J) Steel Stand-off	4	.50	1/4 -20	1	\$18.95
STOF-050-600	Steel Stand-off	6	.50	1/4 -20	1	\$20.95
STOF-075-400	Steel Stand-off	4	.75	1/4 -20	1	\$19.95
STOF-075-600	Steel Stand-off	6	.75	1/4 -20	1	\$21.95

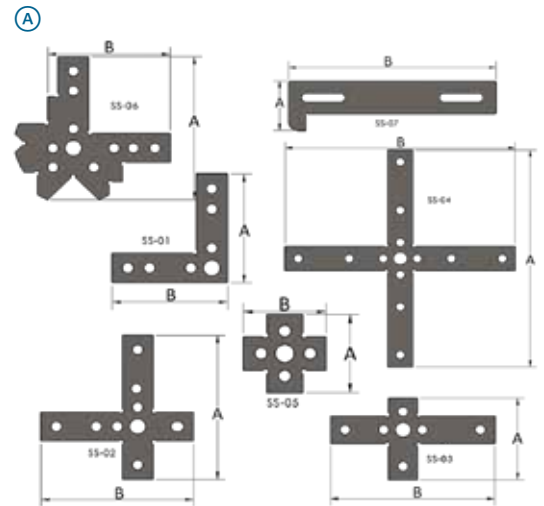
Metric: Risers and Stand-Offs (with M6 threads/hardware) Sizes in millimeters

Part #	Description	A	B	C	Qty.	Price
SIBU-SO-100_M	Silver-Bullet™ module, set of 12	25	50	75	12	\$299.00
SIBU-SO-25MM	Silver-Bullet™ stand-off	25			4	\$95.00
SIBU-SO-50MM	Silver-Bullet™ stand-off		50		4	\$105.00
SIBU-SO-75MM	Silver-Bullet™ stand-off			75	4	\$115.00
VB-001M	V-Block 90° included angle	62	25		2	\$159.00
TRFN-SHAFT-10M	Steel shaft, sold individually	76			1	\$16.95
TRFN-SHAFT-20M	Steel shaft, set of 4	76			4	\$67.80
STOF-050-M100	Steel Stand-off	100	12.7	M6 x 1.0	1	\$18.95
STOF-050-M150	Steel Stand-off	150	12.7	M6 x 1.0	1	\$20.95
STOF-075-M100	Steel Stand-off	100	19	M6 x 1.0	1	\$19.95
STOF-075-M150	Steel Stand-off	150	19	M6 x 1.0	1	\$21.95

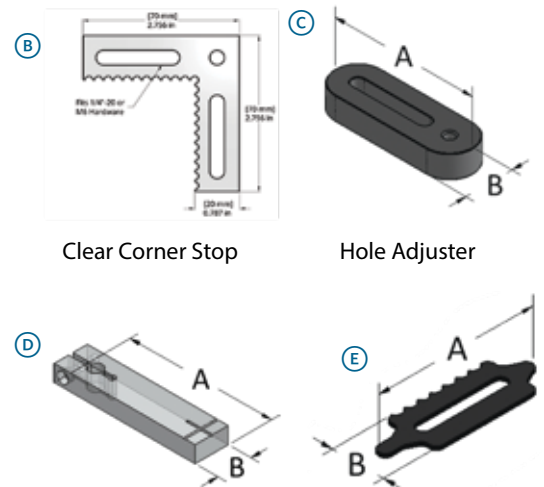
Inspection Arsenal® provides an arsenal of tools to fight inefficiency and waste. Set up quickly and cleanly with **Trigger-Block™**, **Cross-Bow™** and **D-Block™** non-marring spring clamps, **Trigger-Finger™** hold-down, **Silver-Bullet™** stand-offs, and **Simple-Stop™** low-profile rails and stops.

Inch: Stops and Rails (with 1/4-20 mounting hardware) Sizes in inches					
Part #	Description	A	B	Qty.	Price
SIST-RS-100	(A) Simple-Stop™ brushed stainless steel. Set of 7, SS-01, SS-02, SS-03 SS-04, SS-05, SS-06, SS-07			7	\$199.00
SS-01-OS	Simple-Stop™ w/serrated edge	2.75	2.75	1	\$29.95
SS-02	Simple-Stop™	3.75	3.75	1	\$29.95
SS-03	Simple-Stop™	2.25	4.25	1	\$29.95
SS-04	Simple-Stop™	6.75	6.75	1	\$29.95
SS-05	Simple-Stop™	1.75	1.75	1	\$29.95
SS-06	Simple-Stop™	3.75	3	1	\$29.95
SS-07	Simple-Stop™	1.50	6	1	\$29.95
SS-01-PC	(B) Clear Corner Stop, polycarbonate	2.756	.787	1	\$92.50
HA-1420	(C) Hole adjuster for Trigger-Finger™	3	1	2	\$49.95
ADJ-PLT-10	(D) Adjustable platform for TRFN, TRPT	4.25	1	1	\$49.95
SLI-STOP	(E) Sliding Stop™ low-profile stop	3	1	2	\$39.95
Metric: Stops and Rails (with M6 mounting hardware) Sizes in millimeters					
SIST-RS-100M	Simple-Stop™ brushed stainless steel. Set of 7, SS-01M, SS-02M, SS-03M, SS-04M, SS-05M, SS-06M, SS-07M			7	\$239.00
SS-01OSM	Simple-Stop™ w/serrated edge	70	70	1	\$36.00
SS-02M	Simple-Stop™	95	95	1	\$36.00
SS-03M	Simple-Stop™	60	60	1	\$36.00
SS-04M	Simple-Stop™	180	180	1	\$36.00
SS-05M	Simple-Stop™	52	52	1	\$36.00
SS-06M	Simple-Stop™	94	94	1	\$36.00
SS-07M	Simple-Stop™	30	150	1	\$36.00
SS-01-PC	Clear Corner Stop, polycarbonate	70	20	1	\$92.50
HA-M6	Hole adjuster for Trigger-Finger™	76	25	2	\$69.00
ADJ-PLT-10M	Adjustable platform for TRFN, TRPT	108	25	1	\$49.95
SLI-STOP_M	Sliding Stop™ low-profile stop	76	25	2	\$49.00

Stops & Rails



Simple-Stop™ set of 7



Clear Corner Stop

Hole Adjuster

Adjustable Platform

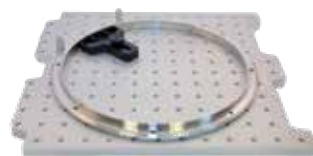
Sliding Stop™



Trigger-Finger™ hold downs with Simple-Stop™



Riser-Grip™ full access clamp.



Cross-Bow™ with Silver-Bullets™ as stops



D-Block™ with Simple-Stop™

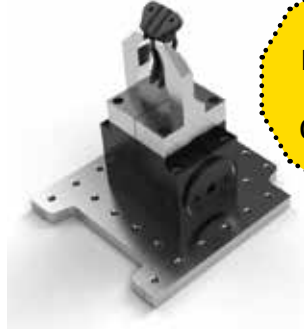


Spanner-Vise™ – 2-piece vise infinitely adjusts

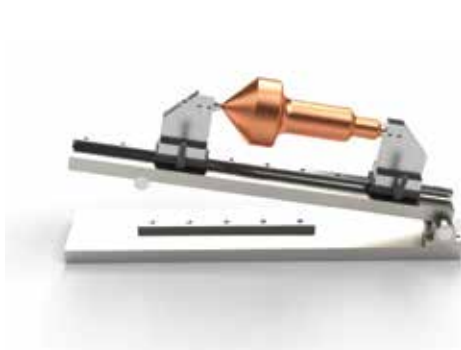
"We are very pleased with the reduction in set up times it offers us allowing quick changeovers between set up. The product is proving to be a great help. We now make our inspection fixtures to attach directly to the rail which allows us to automate more of our inspection programs as we are starting from known locations."

Andrew Walmsley
President at Volo Aero MRO
Springfield, MA

Fixture Design Services and Custom Plate Orders



Smart
Fixturing and
Robotic App
Coming Soon!



Phillips Precision Designs Custom Fixtures We're your "manufacturing laboratory".

Every workplace is different. What is most efficient in one workplace may not work as well in another workplace.

While Inspection Arsenal® is a universal system, we can also custom-design the perfect work-holding components for your parts. We design around Loc-N-Load™ quick-swap fixture plates which increases savings immediately.

- 1-up or multi-part fixtures designed for CMM and vision systems.
- Custom pneumatic fixtures or custom jaws for **Rapid-Loc™** vises.
- Special marking, barcoding, or part numbers added to fixtures.
- 3D printing of sample parts available.

Contact us to talk about your custom design needs.

Send requests to: Quotes@phillips-precision.com



Fixture Design Services Policy

To create the most efficient service to you, we ask that you:

- complete the request form at www.inspectionarsenal.com
- accompany form with prints and electronic files

We will call you to review the details of the project. Fixture designs will be developed around Inspection Arsenal® products whenever possible. When standard product does not provide the solution, custom clamps and work holding will be designed.

- A **design concept deposit** is required prior to the start of the project. This will be determined at the time the form and files have been received. If the project is awarded, this up-front fee will be deducted from the final invoice.
- **Project scope** must be detailed in writing and Phillips Precision will ask for approvals throughout the design process.
- A **not-to-exceed project cost** can be determined to initiate the project purchase order.
- Custom fixture projects are **non-refundable**.
- **Alterations after final approval** will be billed out at the current Phillips Precision rate.
- Phillips Precision, Inc. reserves the right to use images and graphical representations of fixture designs in promotional material.

We look forward to supporting you with your inspection fixture needs.

**Phillips
Precision**
Fixturing—Simple by Design.

INSPECTION
ARSENAL®
LASER
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Request for Fixture Design

Equipment description Manufacturer _____ Model _____ Equipment Type: <input type="checkbox"/> Vision <input type="checkbox"/> Touch Probe <input type="checkbox"/> Multi-sensor Stage size: X: Y: Z: Measuring area: X: Y: Z:				Probe style <input type="checkbox"/> Star <input type="checkbox"/> Straight <input type="checkbox"/> Articulating <input type="checkbox"/> N/A - Vision Fixture Systems Considered <input type="checkbox"/> Rapid-Loc™ Vise <input type="checkbox"/> Modular Tower System <input type="checkbox"/> Air-Glide (heavy and large parts)		Additional info available <input type="checkbox"/> Part print/drawing <input type="checkbox"/> Solid model file <input type="checkbox"/> Highlighted model files <input type="checkbox"/> Sample part available <input type="checkbox"/> Pictures showing key features <input type="checkbox"/> Request 3D printed part <input type="checkbox"/> Laser mark fixture Can Phillips Precision use images of this part fixtured in promotional material? <input type="checkbox"/> yes <input type="checkbox"/> no If not now, is there a day by which it can be used? _____ Phillips Precision, Inc. reserves the right to use images and graphical representations of fixture designs in promotional marketing material– electronic and print form – including, but not limited to catalogs, sales flyers, and company website. <i>Fixtures will be sanitized to eliminate details of customer parts.</i> Customer Nondisclosure Agreement on file. <input type="checkbox"/> yes <input type="checkbox"/> no	
Material for Fixture <input type="checkbox"/> Raw Aluminum <input type="checkbox"/> Anodized Alum.: Color <input type="checkbox"/> Stainless Steel <input type="checkbox"/> Plastic: type _____ <input type="checkbox"/> Other _____							
Material for Fixture Material _____ Easily marred? <input type="checkbox"/> yes <input type="checkbox"/> no Flexible? <input type="checkbox"/> yes <input type="checkbox"/> no Number of parts per fixture _____ Fixture for part families <input type="checkbox"/> yes <input type="checkbox"/> no						Is this a fixture part for families? If yes, please describe. (variations, supply prints, etc.) <div style="border: 1px solid black; height: 100px; width: 100%;"></div> <p>Please attach completed form together with all drawings and/or solid model files in a zipped folder. Make sure to name the folder with the part name and number. Email: quotes@phillips-precision.com Fax: 508.869.6576</p>	

Phillips Precision, Inc. does not perform gage R&R studies on fixtures it designs for customers. This is the sole responsibility of the customer, unless specifically requested by customer and quoted as part of the initial work.



Inspection Arsenal®

Catalog no.: C201901

Air-Glide™
Cross-Bow™
D-Block™
Indexable Loc-N-Load™ Plate
Loc-N-Load™
M5 Edge Finder™
Magnetic Stand-Offs
Modular Tower System
Open-Sight™
Radial Loc-N-Load™ Plate
Rapid-Loc™
Silver-Bullet™
Simple-Stop™
Skinny-Vise™
Spanner-Vise™
Spider-Clamp™
Trigger-Block™
Trigger-Finger™
Traditional and Enhanced Stand-Offs

For helpful product videos visit:

www.youtube.com/user/InspectionArsenal/inspectionarsenal.com/videos

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