XPC PIN CLAMPS & XFC HOOK CLAMPS

Proven locking pin clamp in a new cost saving design

Enhanced locking pin clamp for airless transfer pallets

Easy pin location adjustment using the XYZ shim box

Built in pin riser for improved weld gun access

3mm locking range

See the BTM Pin & Hook Clamp Line of Products www.btmcomp.com/pin-and-hook-products.html

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www.btmcomp.com 810-364-4567



XPC PIN CLAMPS & XFC HOOK CLAMPS



SAFETY NOTE

Customer is responsible for the safe operation and use of the products shown in this literature.

HOW BTM XPC LOCKING PIN CLAMPS WORK



STEP ONE With the clamp finger retracted, the part is loaded over the locating pin.



STEP TWO The material rests on the clamp Rest Block ("Donut")



STEP THREE The finger swings out of the locating pin over the first 5mm of travel.



STEP FOUR The finger then has up to 10mm of straight line travel to the clamped position. The last 3mm is locking range for a BTM locking pin clamp. (No adjustments required.)

TABLE OF CONTENTS

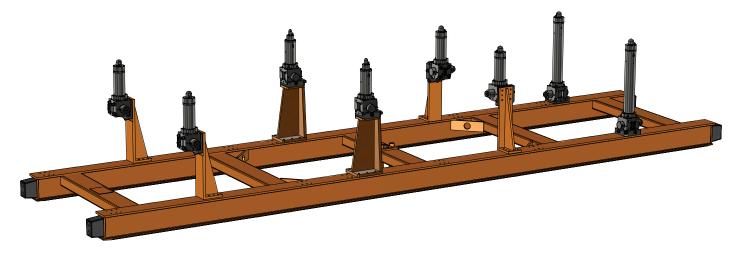
	Overview
	Advantages
	<u>Components</u>
	XPC Clamp Specifications 6
	XPC Clamp How to Order
	XPC Clamp Ordering Options
1	XPC Clamp Dimensions
	<u>XPC Clamp Special Orders</u>
	XFC Clamp Specifications
	XFC Clamp Specifications 10 XFC Clamp How to Order 10
-1	XFC Clamp How to Order
	XFC Clamp How to Order10XFC Clamp Ordering Options11
	XFC Clamp How to Order10XFC Clamp Ordering Options11XFC Clamp Dimensions12

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2

OVERVIEW OF COST SAVINGS

The XYZ Shim Box mount allows easy, accurate and stable adjustment of the pin location during setup or if the pin clamp location is compromised. XPC Pin Clamps can be side or bottom mounted with the XYZ Shim Box mount.



The built in pin riser allows weld gun arms to easily clear the clamp mechanism & mounting brackets, and to reach the area around the pin and into deeper cross sections reducing the need for complex brackets and risers.

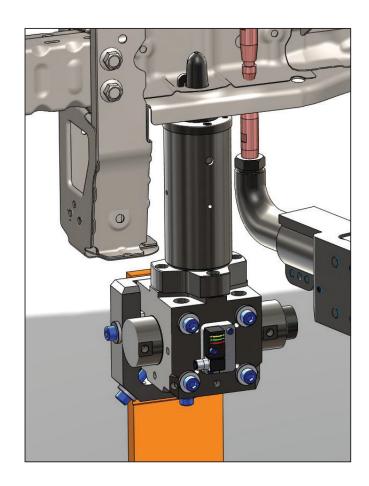
The proven Locking Pin Clamp maintains clamping force with air removed for the accurate and inexpensive transfer of parts in moving tooling and fixtures.

The 3mm clamp locking range accommodates multiple part thicknesses and/or the tolerance in material thickness.

WHAT IS THE ADVANTAGE OF A PIN CLAMP?

Pin Clamps utilize precisely located datum holes which are controlled for accurate and easy assembly.

Pin Clamps combine a locator pin with a power clamp to reduce the number of components required to locate and hold parts being assembled.

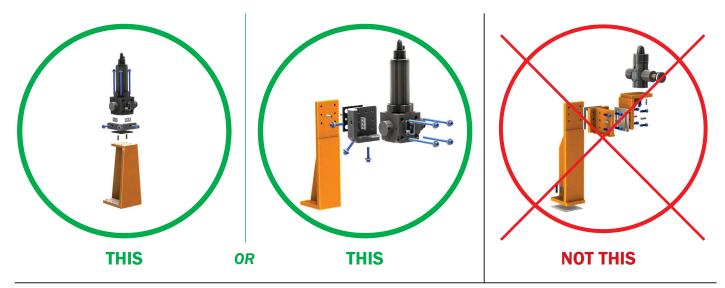




OTHER ADVANTAGES OF THE XPC LOCKING PIN CLAMP

SAVE MONEY ON CLAMP FIXTURES!

Reduces cost and improves clearance and rigidity with direct to pallet or base mounting. Multiple extension lengths are available for access into difficult to reach areas. Mounts to standard risers or direct to base.



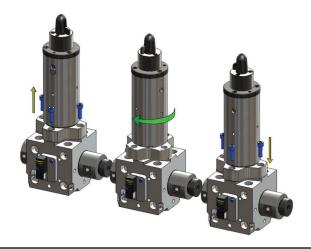
OFFSET CLAMP FINGER DESIGN ALLOWS LOCATING ACROSS SLOTS OR IN SQUARE HOLES!



NEED TO ROTATE THE FINGER AWAY FROM FLANGES, OBSTRUCTIONS, OR WELDING OPERATIONS?

Finger can be rotated to 90° positions to avoid flanges, obstructions or weld contamination.

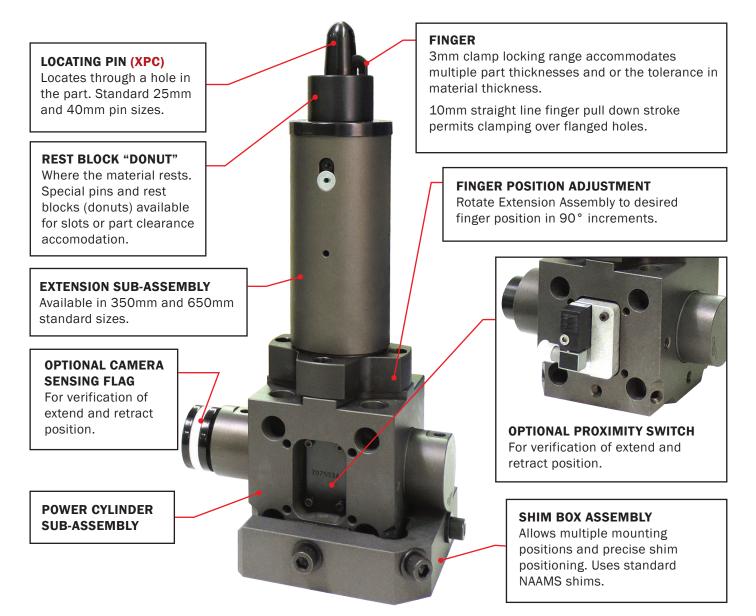
Simply remove four screws and rotate the upper assembly in any one of four directions.



MORE ADVANTAGES

- Improved resistance to weld contamination.
- Symmetric design allows accessibility to fasteners, proximity switches or camera sensing from any side.
- XPCs use a small volume of air to generate a high clamping force.
- The XPC Pin Clamp maintains its locked clamp position when air pressure is removed.
- When the air is removed, XPC's can be manually unlocked by simply pulling on the rod end of the cylinder to release the work piece, or to retract the unit when fitting the work piece to a new fixture.

XPC PIN CLAMP COMPONENTS





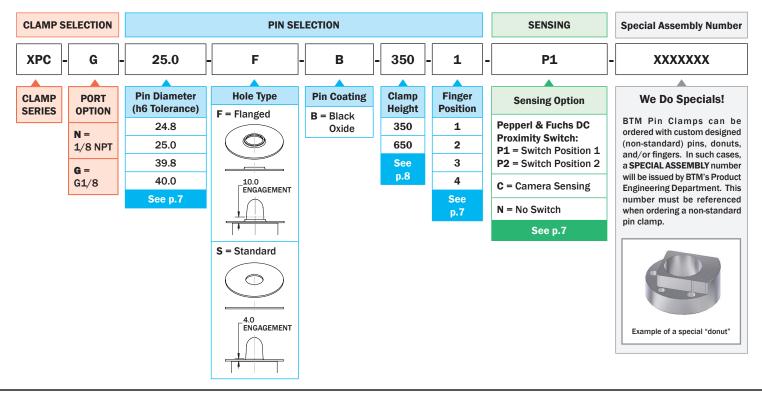
XPC SPECIFICATIONS

Standard Hole/Slot Size	24.8, 25, 39.8, 40mm				
Clamping Force	mping Force 890 - 1334N @ 5.5BAR (200-300lbf @ 80PSI)				
Finger Travel	 15mm Total. Consists of: 5mm rotational 10mm straight line pull down stroke 3.0mm Locking Range (from clamping surface) 				
Bore Diameter	38.1mm - 1140mm²				
Cylinder Stroke	38.5mm				
	Clamp Height	Pin Diameter	Weight		
	Clamp Weight 350 650	24.8 & 25	7.3kg [16.1lbs]		
Clamp Weight		39.8 & 40	8.2kg [18.1lbs]		
		24.8 & 25	10.8kg [23.7lbs]		
		39.8 & 40	11.6kg [25.6lbs]		

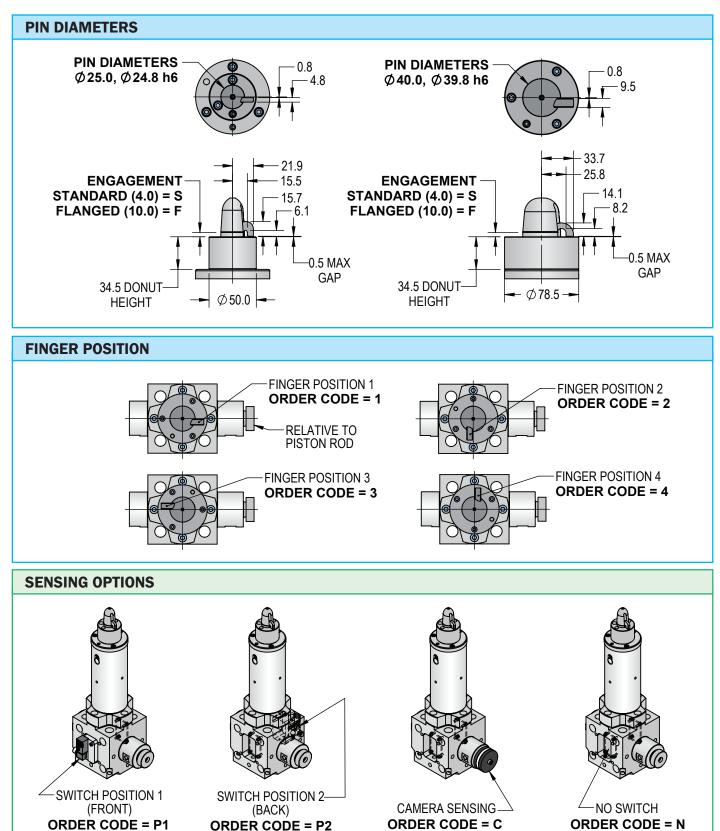


HOW TO ORDER

Call +1-810-364-4567, or email sales@btmcorp.com to request a quote!

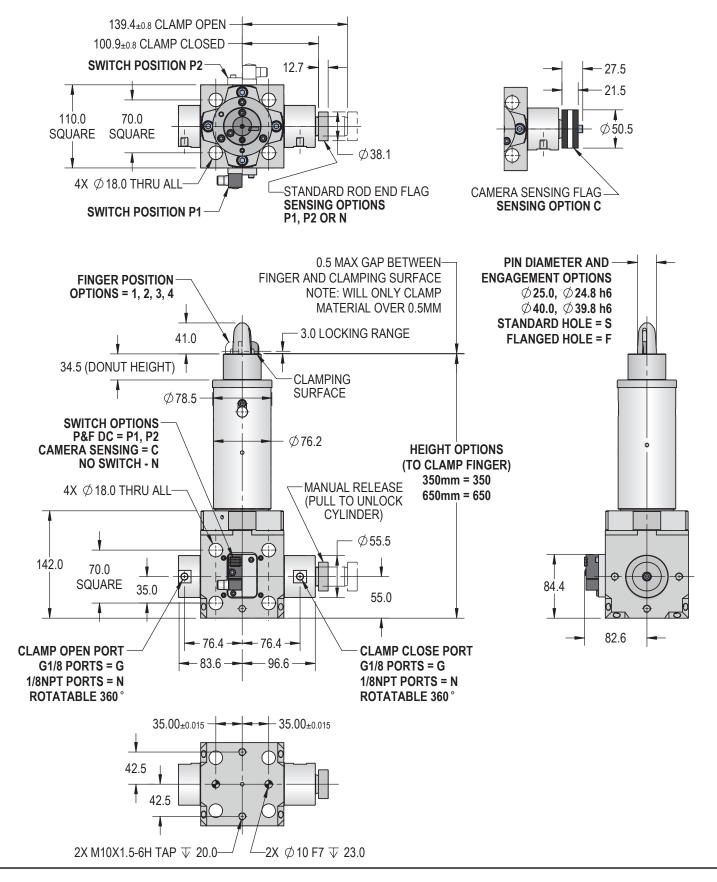


XPC ORDERING OPTIONS





XPC DIMENSIONS





XPC SPECIAL ORDERS

NEED A SPECIAL PIN, DONUT, OR EVEN CLAMP FINGER? WE SPECIALIZE IN SPECIALS!

Custom Pin Locators, Clamp Fingers, Donuts & Clamp Locking on material > 3mm are available.

Contact our sales engineering department to find out how to customize your clamp order for your unique project's needs.

CONTACT BTM TODAY!

Phone: +1-810-364-4567

Email: sales@btmcorp.com

Or visit us on the web at

www.BTMcomp.com



Scan this QR Code to call BTM!



Examples of customized donuts, and a custom length pin.



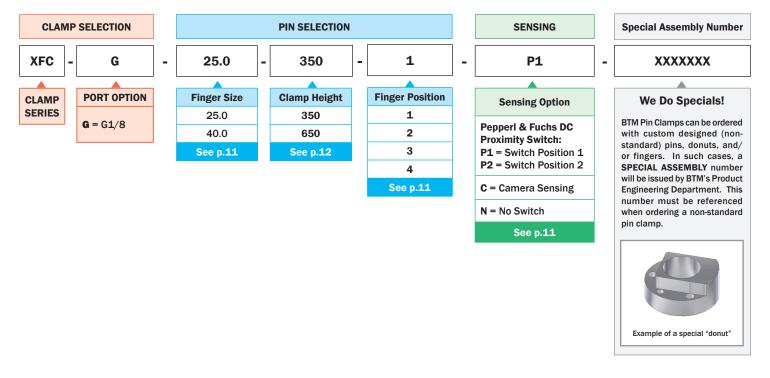
XFC SPECIFICATIONS

Standard Hole/Slot Size	25 - 40mm		
Clamping Force	890 - 1334N @ 5.5BAR (200-300lbf @ 80PSI)		
Finger Travel	15mm Total. Consists of: • 5mm rotational • 10mm straight line pull down stroke • 2.5mm Locking Range (from clamping surfational)		
Bore Diameter	38.1mm - 1140mm ²		
Cylinder Stroke	38.5mm		
	Clamp Height	Weight	
Clamp Weight	350	7.48kg [16.5lbs]	
	650	10.89kg [23.6lbs]	



HOW TO ORDER

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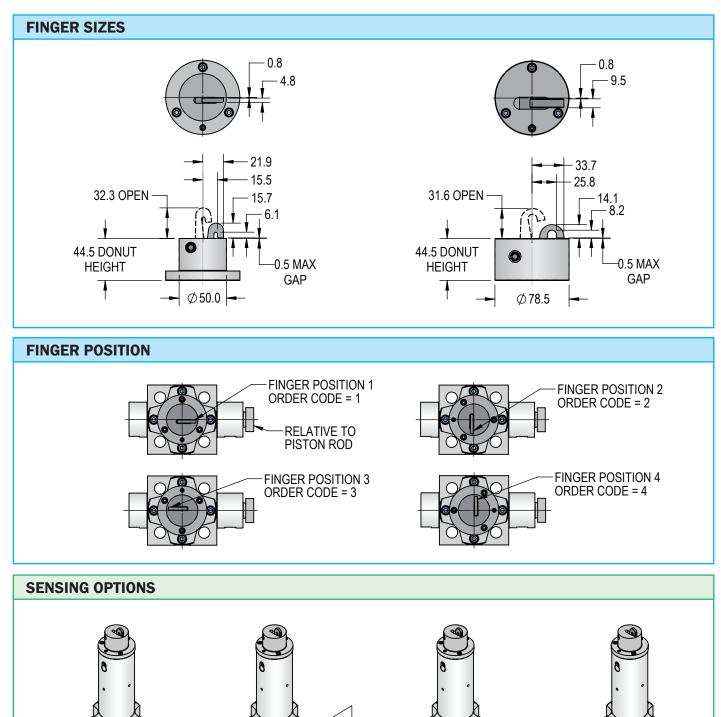


XFC ORDERING OPTIONS

SWITCH POSITION 1

(FRONT)

ORDER CODÉ = P1



CAMERA SENSING

ORDER CODE = C

NO SWITCH

ORDER CODE = N

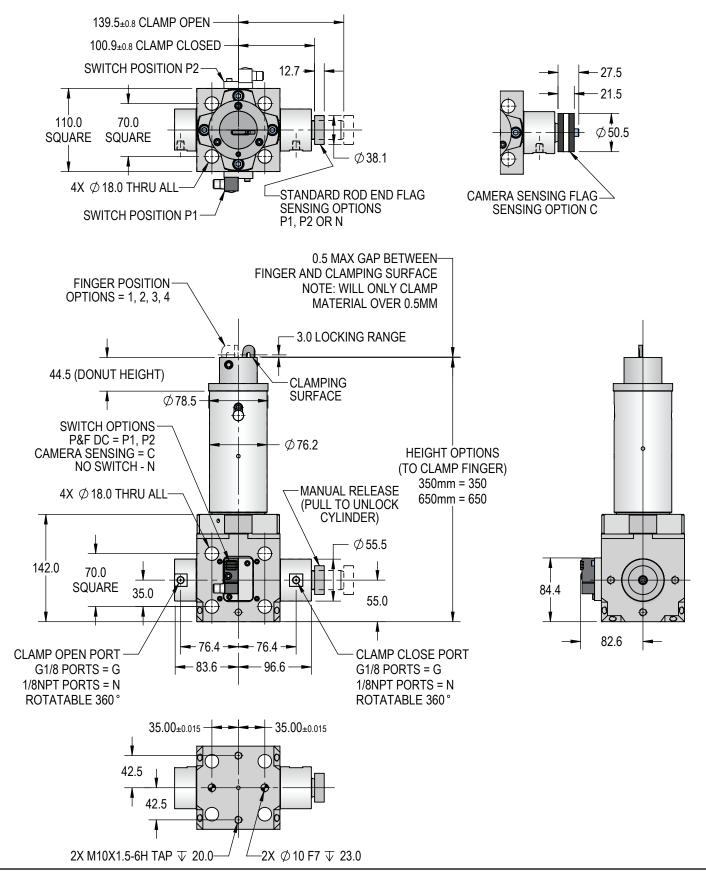
SWITCH POSITION 2-

(BACK)

ORDER CODE = P2



XFC DIMENSIONS





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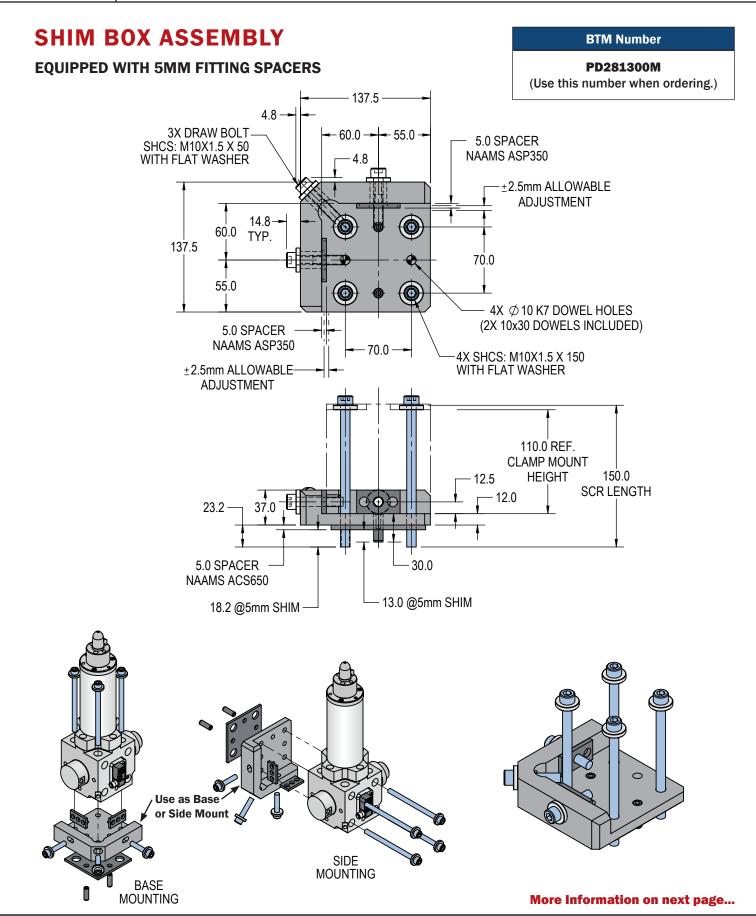


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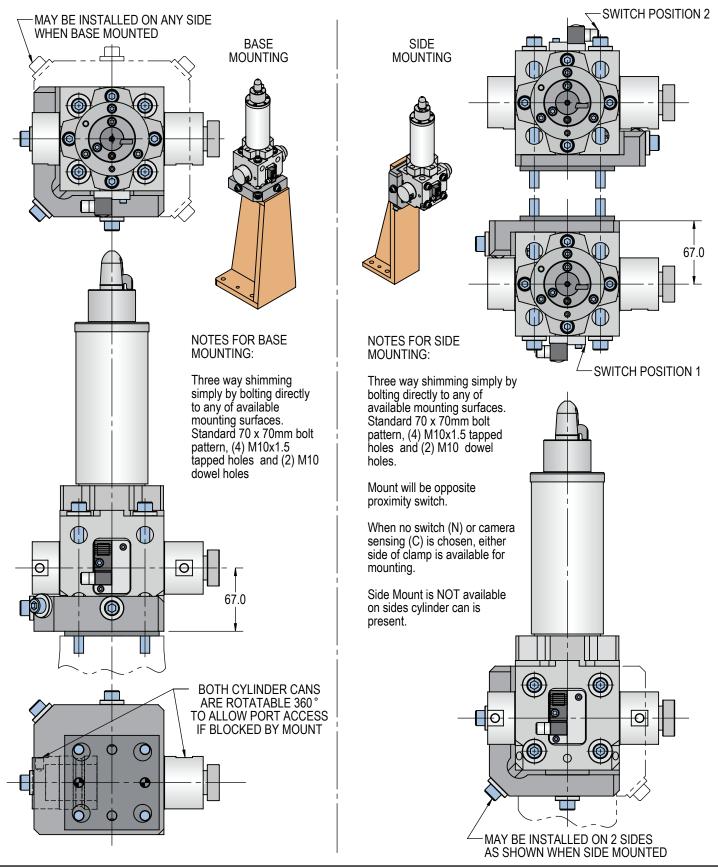


Examples of customized donuts





SHIM BOX ASSEMBLY (CONTINUED)





WARRANTY INFORMATION

BTM Company, LLC. warranties its Pin and Hook Clamps against defects in material and workmanship for one (1) million cycles or a period of three (3) years after the ship date from BTM, which ever comes first.

This warranty is limited to replacing or repairing at BTM's option, F.O.B. BTM's factory, any part found by BTM to be defective in materials and/or workmanship. Any application of a BTM product outside the intended use of the product shall not be warranted by BTM Company, LLC. Furthermore, BTM will not be liable for any expenses incurred for repairs or replacement made outside BTM's facilities without written consent (or damages arising out of such replacements or repairs). Under no circumstances will BTM be held responsible for any consequential damages.

The warranty is limited to the repair or replacement of the defective part(s) and does not include installation.

This warranty is the only warranty extended by the seller in connection with any sale made hereunder and is in lieu of all other warranties, express, implied or statutory including warranties of merchantability and fitness for purpose.

OTHER PIN LOCATOR CLAMPS FROM BTM





Model	Hole/Slot Range	Locking?	Manual Option Available?
PLC-25	6-12mm	No	No
PLC-45	12.5-18mm	No	No
PLC-63	18-40mm	No	Yes
RLPC-45	12.5-18mm	Yes	Yes
RLPC-63	18-40mm	Yes	Yes
LPLC-38	18-40mm	Yes	Yes



For more information, or to view our other products, please visit:

www.BTMcomp.com