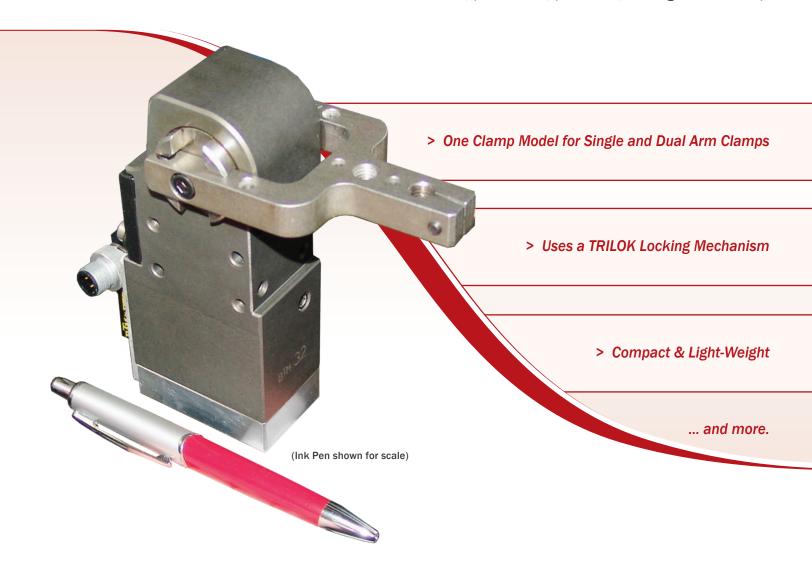
TPC-32 Power Clamp Catalog

Weld-contamination sealed, pneumatic, precision, locking Power Clamp



Part of our **Power Clamp** line of Products.

http://www.btmcomp.com/tpc-32-clamp.html





www.btmcomp.com 810-364-4567



SAFETY NOTE

It is the customer and/or user's responsibility to provide proper safety controls and/or guarding when a pinch point is present.

INTRODUCTION

BTM's TPC-32 features a 32mm bore, and a three point locking mechanism which is designed to remain locked even if air pressure is lost. This clamp is compact, light weight, and sealed against weld-contamination.

TPC-32 CLAMP FEATURES

- Patented TriLok Mechanism
- Sealed Mechanism Lubricated for Life of Clamp
- Integral Cylinder with Heavy Wall
- Body is constructed of Aircraft Aluminum,
 Hard coated to a Rockwell C-70 for
 Excellent Wear Characteristics
- One clamp model for single and dual arm clamps
- · Access to manually unlock clamp linkage
- Integrated proximity switches do not need to be readjusted when arm opening changes.



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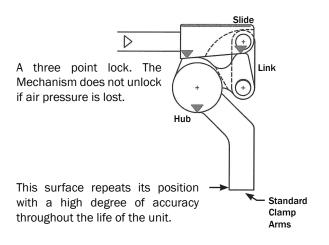
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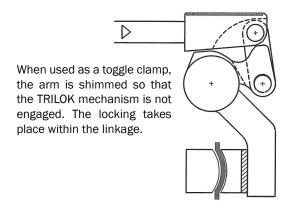
BTM reserves the right to make changes to its literature without any prior notice. Go to www.btmcomp.com for latest version.

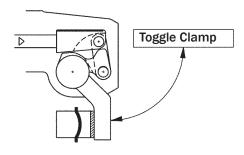


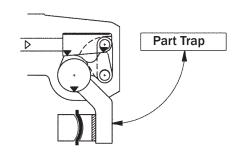
TPC-32 CLAMPS UTILIZE PATENTED

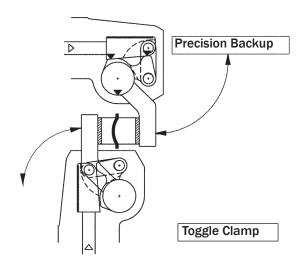




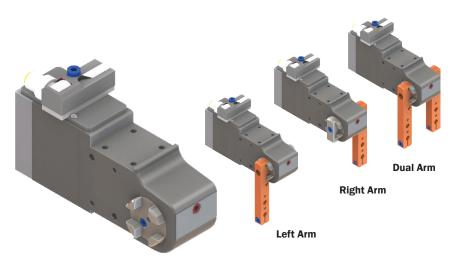




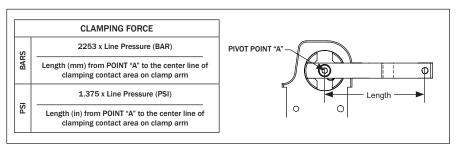




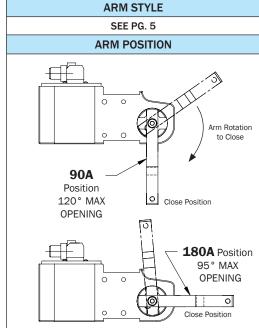


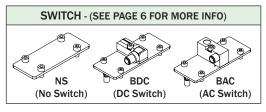


Bore Size		31.8 [1.25] DIA 791.7mm² [1.23in²]							
Arm Rotation (Deg.)	rm Rotation (Deg.) 35				95	110	120		
Cylinder Stroke (mm)	ylinder Stroke (mm) 11.5			19.2	21.8	24.4	24.6		
Maximum Full Cycle Cylinde	38.5 cm ³ [2.35in ³]								
Recommended Operating Pr	2.75 to 7 BAR [40 to 100 PSI] (Lubricated or Non-Lubricated Compressed Air)								
Weight		1.0 kg [2.21 lbs] Without Arm							
Clamping Torque	12.4 Nm @ 5.5 BAR [9.16 lbf @ 80 PSI]								
Cycle Time (based on a 120° opening at 5.5 BAF	1.0 second closing cycle 1.25 second opening cycle								



PORT OPTION							
N	1/8 NPT						
G	G1/8						
CLAMP ASSEMBLY							
Arm Opening	BTM Number						
35°	PD217700A						
50°	PD217700B						
65°	PD217700C						
80°	PD217700D						
95°	PD217700E						
110°	PD217700F						
120°	PD217700G						

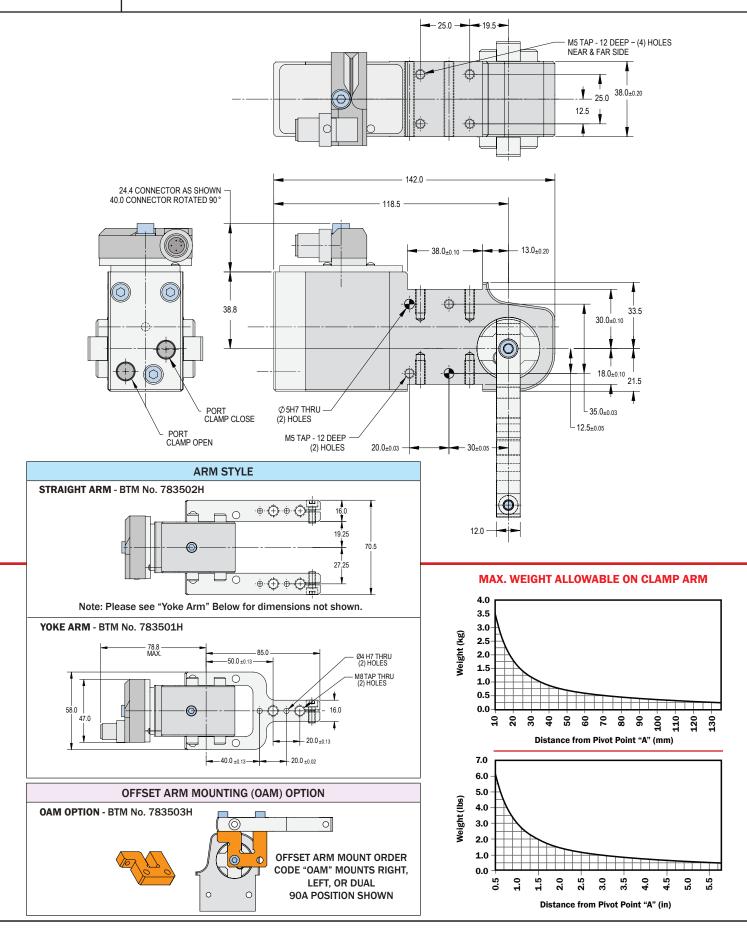




HOW TO ORDER

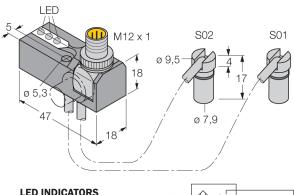
	CLAN	IP			LEFT A	\RM			RIGHT ARM				OFFSET ARM MOUNTING		SWITCH
TPC	32	N	120	-	783502H	90A	L	-	783502H	90A	R	-	OAM	-	BDC
CLAMP SERIES -	CLAMP SIZE -	PORT OPTION -	ARM OPENING -		ARM STYLE	ARM POSITION	ARM SIDE —		ARM STYLE	ARM POSITION	ARM SIDE —		OFFSET ARM MOUNT (leave blank for normal mounting)		SWITCH CODE





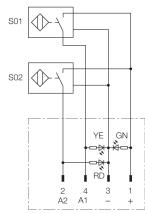
BDC - TURCK DC

Ni2-BTM-0,16-BDS-2AP6X3-H1141/S34



LED INDICATORS

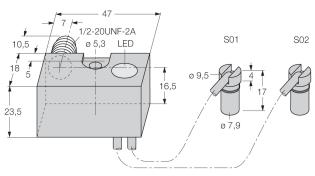
YELLOW - SO1 OUTPUT ENERGIZED GREEN - POWER ON RED - SO2 OUTPUT ENERGIZED



SPECIFICATIONS								
RATED OPERATING DISTANCE Sn	2mm							
MOUNTING MODE	NON-FLUSH							
HYSTERESIS H (DIFFERENTIAL TRAVEL)	3 - 15%							
MAX. RELATIVE TEMPERATURE DRIFT	≤ ± 10%							
MIN. REPEAT ACCURACY	≤2%							
OPERATION TEMPERATURE	-25°C to +70°C (-13°F to +158°F)							
RATED OPERATIONAL VOLTAGE (DC) U _B	10-30 VDC							
MAX. RIPPLE	≤ 10% U _{ss}							
RATED OPERATIONAL CURRENT (DC) I _e	≤ 200 mA							
NO-LOAD CURRENT I ₀	≤ 15 mA							
MAX. OFF-STATE CURRENT	≤ 0,1 mA							
MAX. SWITCHING FREQUENCY	≤ 0,03 kHz							
RATED INSULATION VOLTAGE	0,5 kV							
OUTPUT FUNCTION	4-WIRE, NORMALLY OPEN, PNP							
SHORT-CIRCUIT PROTECTION	YES							
MAX. VOLTAGE DROP AT I _B	≤ 1,8 V							
WIRE BREAKAGE AND REVERSE POLARITY PROTECTION	YES, COMPLETE							
DEGREE OF PROTECTION	IP 67							
HOUSING STYLE	DUAL SENSOR; BTM							
DIMENSIONS	47 X 18 X 18mm (1.85" X .71" X .71")							
HOUSING MATERIAL	PLASTIC, PBT-GF20-V0							
WIRING	CONNECTOR, M12X1 EUROCON							
CABLE	Ø 2; LiF9Y-11Y3; PUR; 0,16 m							
CROSS SECTION	3 X 0,08mm ²							
VIBRATION RESISTANCE	55 Hz (1 mm)							
SHOCK RESISTANCE	30 X g (11 ms)							

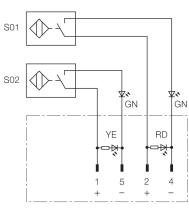
BAC - TURCK AC

Ni2-BTM-0,16-BA-2ADZ32X4-B3151/S34



LED INDICATORS

YELLOW - SO1 OUTPUT ENERGIZED GREEN - POWER ON RED - SO2 OUTPUT ENERGIZED



SPECIFICATIONS								
RATED OPERATING DISTANCE Sn	2mm							
MOUNTING MODE	NON-FLUSH							
HYSTERESIS H (DIFFERENTIAL TRAVEL)	3 - 15%							
MAX. RELATIVE TEMPERATURE DRIFT	≤ ± 10%							
MIN. REPEAT ACCURACY	≤2%							
OPERATION TEMPERATURE	-25°C to +70°C (-13°F to +158°F)							
RATED OPERATIONAL VOLTAGE (AC) U _B	20-250 VAC							
RATED OPERATIONAL VOLTAGE (DC) U _B	10-300 VDC							
RATED OPERATIONAL CURRENT (AC) I	≤ 100 mA							
RATED OPERATIONAL CURRENT (DC) I _e	≤ 100 mA							
MAX. OFF-STATE CURRENT	≤ 1,7 mA							
MAX. SWITCHING FREQUENCY	≤ 0.03 kHz							
RATED INSULATION VOLTAGE	1,5 kV							
OUTPUT FUNCTION	4-WIRE, 2 X NORMALLY OPEN							
MAX. VOLTAGE DROP AT I _B	≤ 6 V							
MIN. OPERATIONAL CURRENT I _m	3 mA							
DEGREE OF PROTECTION	IP 67							
HOUSING STYLE	DUAL SENSOR; BTM							
DIMENSIONS	47 X 18 X 18mm (1.85" X .71" X .71")							
HOUSING MATERIAL	PLASTIC, PBT-GF20-V0							
WIRING	CONNECTOR, M12X1 EUROCON							
CABLE	Ø 2; LiF9Y-11Y3; PUR; 0,16 m							
CROSS SECTION	3 X 0,08mm²							
VIBRATION RESISTANCE	55 Hz (1 mm)							
SHOCK RESISTANCE	30 X g (11 ms)							



WARRANTY INFORMATION

BTM Company, LLC. warranties its TPC-32 Clamps against defects in material and workmanship for the life of the tool/program for which the clamp was originally sold or one million cycles, whichever 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 PRODUCTS FOR AUTOMATION

Clamps



From heavy duty precision sealed locking power clamps to simple light duty OMNI models, BTM manufactures clamps in a range of styles and sizes for a wide variety of applications.

Grippers



BTM manufactures a high quality line of grippers ranging from heavy duty models to light duty models in a variety of styles and sizes.

OTHER QUALITY BTM PRODUCTS TO CONSIDER

Pin Locator Clamps



BTM's Locator Clamps are ideal for locating & holding production material and are used in a variety of manufacturing areas including automotive & refrigeration.

Pin Sizes range from as small as 6mm (PLC-25 Light Duty Clamp) to as large as 40mm (PLC-63 & LPLC-38 locking clamp).

Single Finger Hook Models (without the locating pin) are also available in both locking and non-locking configurations.

Rod-Locking Pin Locator Clamps



These clamps employ a rod locking feature which allows the clamp to retain the part when air pressure is removed/lost.

Precision Shot Pin Cylinders



BTM's Precision Shot Pin Cylinders are ideal for locating production material through precisely pierced holes - including clamping and fixturing.



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

www.BTMcomp.com