

LPC1M LOW PROFILE CLAMP KIT Components Organization

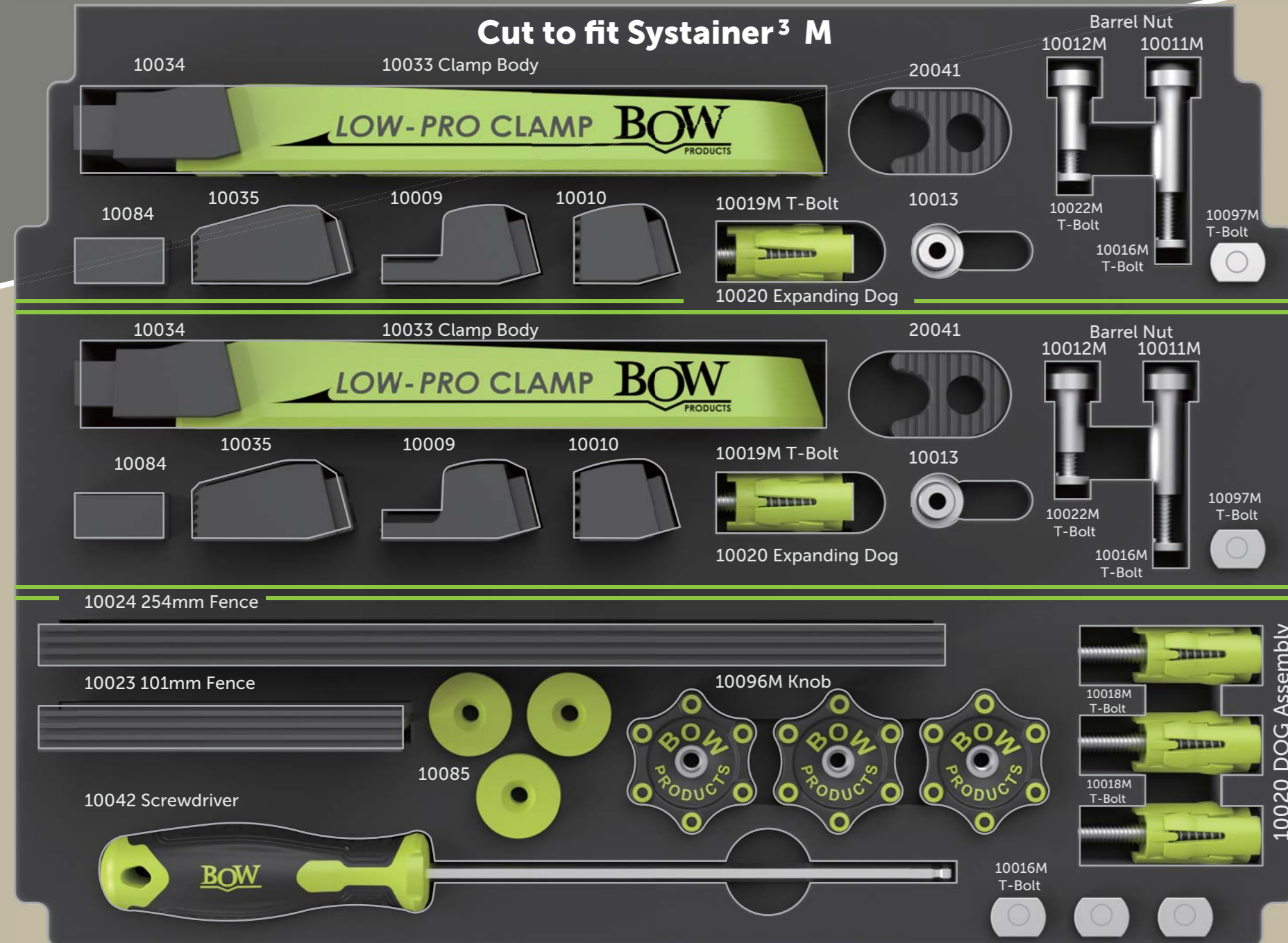
Innovation.
Performance.
Safety.



Clamp 1 and Hardware

Clamp 2 and Hardware

Fence/Stops and Hardware



Low Profile Clamp Kit Application Chart

Part #	Description	QTY	CNC	T-Track	Dog Table	Workbench
10033	Clamp Body	2	X	X	X	X
10034	EVA Holder Tip	2	X	X	X	X
10035	Corner / Curved Tip	2	X	X	X	X
10009	Low Profile Tip	2	X	X	X	X
10010	Max Grip Tip	2	X	X	X	X
10084	EVA Tip Insert	4	X	X	X	X
20041	Index Washer	2	X	X	X	X
10011M	Long Barrel Nut M6x1	2	X			
10016M	T-Bolt M6x1 x 30mm	5	X	X		
10012M	Short Barrel Nut M6x1	2	X	X	X	
10022M	T-Bolt M6x1 x 13mm	2	X	X		
10097M	T-Bolt M6x1 x 22mm	2	X			
10013	Clamp Screw Adapter	2	X			X
10020	Expanding Dog	5			X	
10018M	T-Bolt M6x1 x 50mm	3	X	X	X	
10019M	T-Bolt M6x1 x 38mm	2	X	X	X	
10096M	Low Profile Knob M6x1 thread	3	X	X	X	X
10085	Fence Screw Adapter	3	X	X	X	X
10023	101mm Fence	1	X	X	X	X
10024	254mm Fence	1	X	X	X	X
10042	Screwdriver 3/16" Hex Ball End	1	X	X	X	X

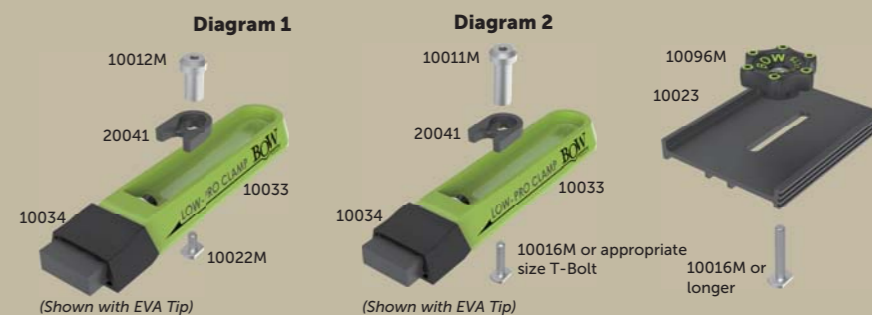
Assembly & Specification



T-Track Applications: Standard T-Track Tables and CNC Tables

For standard T-Track Tables where the T-Track is flush to the table surface, use the Short Barrel Nut (10012M) and 13mm T-Bolt (10022M) for each Clamp and assemble as per the Diagram 1. For CNC applications where the T-Track is below Spoilboard Slats, use the Long Barrel Nut (10011M) and the 30mm T-Bolt (10016M). This will reach T-Track when using 13mm to 32mm thick Spoilboard Slats. As Spoilboard thickness may vary, you may choose any combination of either Barrel Nut with any T-Bolt to secure the clamp – up to the maximum 32mm spoilboard thickness. Refer to T-Bolt Lengths and Barrel Nut Thread Depths on the Chart at the right. See Diagram 2 for assembly.

We use M6x1 thread T-Bolts with common head dimensions; See Diagram of Hardware. If these T-Bolt head dimensions do not fit your T-Track, there are plenty of T-Bolts available that can accommodate your T-Track. Consider Barrel Nut thread depths when selecting T-Bolt Length. The 101mm Fence is secured with one knob and hardware and the 254mm Fence with two knobs and hardware. For CNC application with longer T-Track Depth, use 50mm T-Bolt (10018M) secure Fence. For Standard T-Track Tables, use 30mm T-Bolt (10016M) secure Fence. For CNC application with flat substrate – see screw adapter section below.



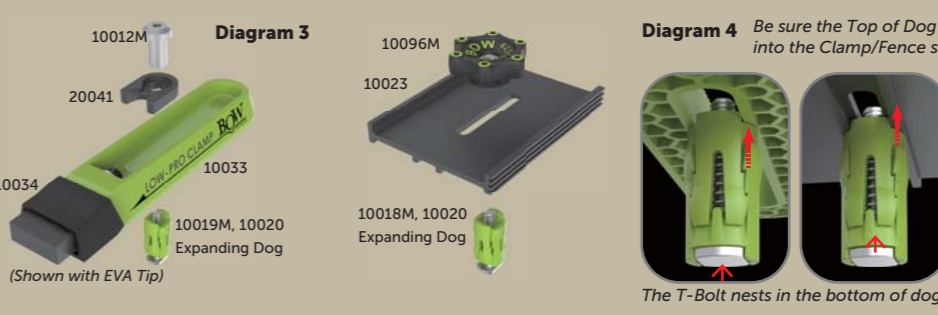
Hardware

M6x1 Thread	10018M 50mm Length
	10019M 38mm Length
	10016M 30mm Length
	10097M 22mm Length
	10022M 13mm Length

Long Barrel Nut 10011M Thread Depth 25mm
Short Barrel Nut 10012M Thread Depth 14mm

Dog Table Application

Expandable Dog fits 19mm and 20mm Dog holes. IMPORTANT: Assemble the Clamp / Fence to the Expanding Dog so that the Expanding Dog engages the track on the bottom of the Clamp / Fence, and the T-Bolt seats properly on the opposite and the Expanding Dog. Tighten Knob enough where the Expanding Dog stays engaged. See Diagram 3 & 4. Be careful not to over tighten the Expanding Dog to ensure it fits into 19mm Dog holes. See Video demonstration - QR code below. Note that the Expanding Dog is designed symmetrical on each end. The Expanding Dog will lock on various depths of the dog hole.



Secure using a Wood Screw. Workbench or CNC Substrate

Use #10 Countersink Wood Screws with the Clamp Screw Adapter (10013) and Fence Screw Adapter (10085). Wood Screws were not provided in the kit as application depths vary and wood screws are readily available. Assemble as per the Diagram 5.



Clamp And Fence Set up and Use Set Up Considerations:

The Clamp is Provided with Multiple Clamp Tips. Choose appropriate Clamp Tip for your project. Clamp Tip Extends forward to apply pressure using the Ball Driver. Clockwise to extend and counterclockwise to retract. Prior to positioning the clamp for use, fully retract the Clamp Tip in order to maximize extension and desired pressure. Clamp body has a 101mm long slot for position adjustment. Generally it is better to position the hold down T-Bolt, Dog or Screw closer to the tip/front of the clamp. The Barrel Nuts are tightened with Ball Driver. ONLY USE DRIVER PROVIDED. DO NOT USE POWER TOOLS. Choose either the 101mm or 254mm fence (or both) depending on your application. Check to ensure your workpiece is secure after tensioning Clamps with fences, before starting your work operation.

Operation:

- Set up the Fence. Position the Workpiece against the Fence and secure the Fence to the table.
- Ensure Clamp Tip is fully retracted. Position the Clamp's Tip against the Workpiece and secure Clamp to table.
- Advance the Tip with Ball driver to apply tension on the workpiece. ONLY USE DRIVER PROVIDED. DO NOT USE POWER TOOLS.
- Check workpiece for movement. Make any adjustments if necessary.
- Remove clamp by retracting the Tip first to release tension on the workpiece. Loosen the clamp from the table.

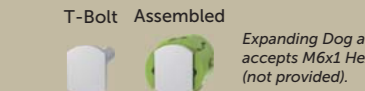
Assembly & Use Video



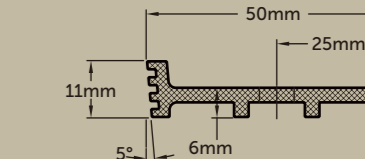
Instructions Multi-languages



Expanding Dog with T-Bolt



Fence Profile

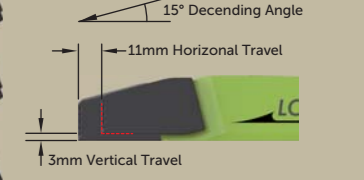


Flat side of Fence for delicate material. Serrated side of Fence for aggressive grip.

Clamp Tips



Slope and Travel



EVA Holder Tip

EVA Tip Inserts are replaceable, reversible, conforming and non-marring. Ideal for soft woods, corners, rounds, hold downs. Replacement EVA tip Inserts available.

Tip Operation:

Clockwise to extend Tip and apply Pressure to workpiece. Counterclockwise to attach.



CUSTOMER SERVICE:

Visit our website at www.bow-products.com for replacement Parts. You may also call us at 844-895-4488 or email us at Customerservice@bow-products.com.