

Printer Mounting Instruction Set

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Instructions for Mounting PM417 and PM836 on a 12" or 18" conveyor.

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Introduction: This instruction set will provide a step by step walkthrough of how to properly mount a PM417 or PM836 Printer on a 12” or 18” conveyor. This guide will describe the included parts and necessary tools before covering the installation process.

Step 1: Unwrap all included extrusion and hardware to ensure all parts are included in the kit.

A complete installation kit includes:

TABLE 1: Included Hardware (Figures 1&2).

Part #	Description	Quantity
1	40x40x360mm Extrusion	2
2	M6x1.0 35mm Hex Bolt	6
3	M6x1.0 12mm Button Head Torx Bolt	6
4	M6 Roll-in T-Nut with Ball Spring	6
5	M6 Self-Aligning Slide-in T-Nut	6
6	40x40mm Extrusion Endcap	4



Figure 1: Included hardware, #2: M6x1.0 35mm Hex Bolt, #3: M6x1.0 12mm Button Head Torx Bolt, #4: M6 Roll-in T-Nut with Ball Spring, #5: M6 Self-Aligning Slide-in T-Nut.

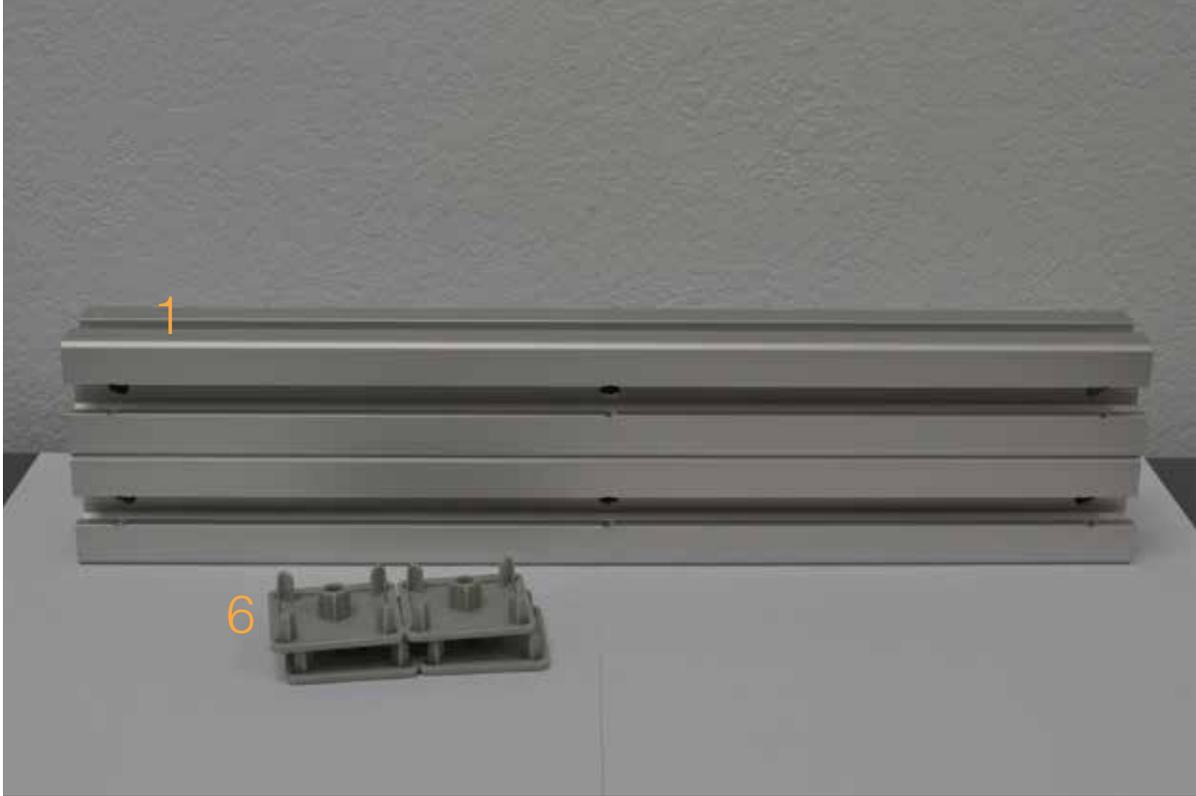


Figure 2: Included hardware, #1: 40x40x360mm Extrusion, #6: 40x40mm Extrusion Endcap

In addition to the included parts, the following tools will be required to complete the installation:

TABLE 2: Necessary tools for installation

5mm Hex Key
4mm Hex Key
T30 Torx Head Bit Driver

Step 2: Insert 3 M6 T-nuts with ball spring into each side of the conveyor extrusion (Figure 3).



Figure 3: Conveyor extrusion with M6 ball springed T-nuts.

Fastening Printer to Extrusion

Step 3: Starting with the center T-nut, thread the M6x1.0 35mm Hex Nut through the access holes in the extrusion, only partially tightening each bolt (Figure 4).

Once each bolt is threaded, center the extrusion on the conveyor by aligning it vertically with the underside hanging support (Figure 5), then fully tighten all three bolts.

Repeat for the other side, ensuring that both pieces of extrusion are aligned.



Figure 4: M6x1.0 35mm Hex Nut inserted through 40x40mm extrusion and threaded through M6 spring ball T-nuts.



Figure 5: M6x1.0 35mm Hex Nut vertically aligned with hanging conveyor support.

Fastening Printer to Extrusion

Step 4: Carefully lift printer onto the conveyor. The extrusion connected to the printer and the mounting bracket will sit on the mounted 40x40mm extrusion (Figures 6 & 7).

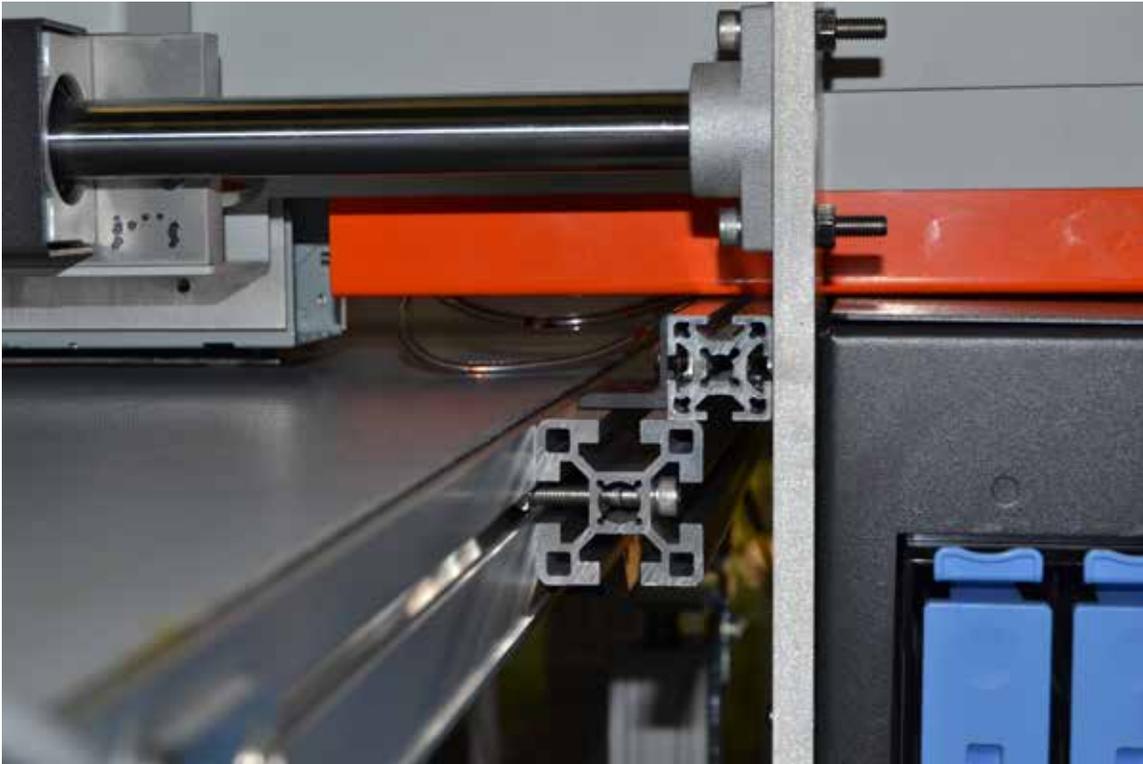


Figure 6: Extrusion with L-brackets attached rests on the mounted 40x40mm extrusion.

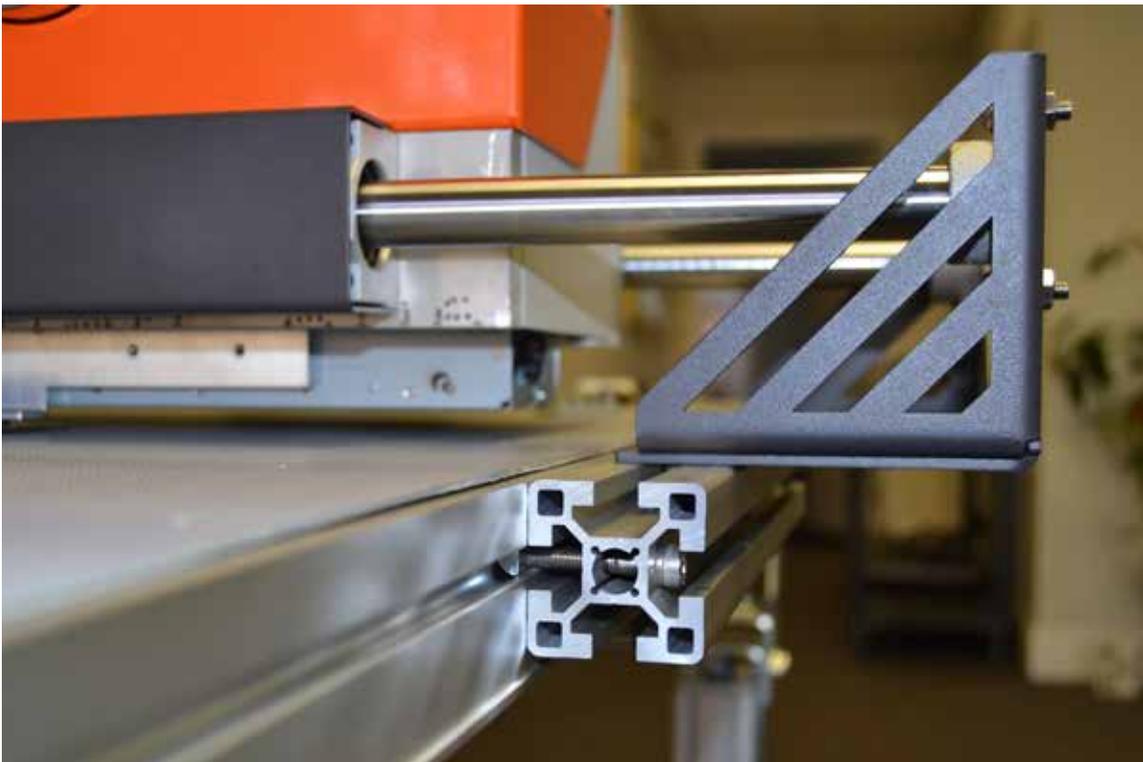


Figure 7: Printer mounting bracket rests on the mounted 40x40mm extrusion.

Fastening Printer to Extrusion

Step 5: Loosen the shaft support bracket bolts on the mounting bracket side of the printer to allow length adjustment (Figure 8).



Figure 8: Loosen support shaft brackets to allow printer mounting bracket to be moved to align holes with slots in extrusion.

Step 6: Align the holes in the L-brackets with the slot in the extrusion by moving the entire printer forwards or backwards.

Slide the M6 Self-Aligning Slide-in T-Nuts into the slot in the extrusion, then use M6x1.0 12mm torx bolts to fasten the printer to the extrusion. Be sure to push the printer all the way forward while the screws are loosely threaded to ensure parallelism (Figure 9).



Figure 9: Holes in L-bracket are aligned with slot in extrusion. The T-nuts are inserted into the extrusion slot and then fastened using M6x1.0 12mm bolts.

Step 7: Align the holes in the printer mounting bracket with the slot in the extrusion (Figure 10).

Slide the M6 Self-Aligning Slide-in T-Nuts into the slot in the extrusion, then use M6x1.0 12mm bolts to fasten the printer to the extrusion by inserting the bolts through the mounting bracket.



Figure 10: The printer mounting bracket holes are aligned with the slot in the extrusion. The M6 self aligning T-nut fastens the bracket to the 40x40mm extrusion.

Step 7: Retighten the shaft support bracket bolts to lock the linear shafts in place.

Add the 40mm Extrusion Endcaps to all 4 exposed sides of the 40x40mm extrusion.

Finalizing the Mounted Printer

Final Testing: The printer should be securely fastened to the conveyor. Gently press on the mounting bracket and linear shafts to ensure that the printer will not move.

The printer should be secured at all places where it touches the conveyor extrusion. (Figure 11).

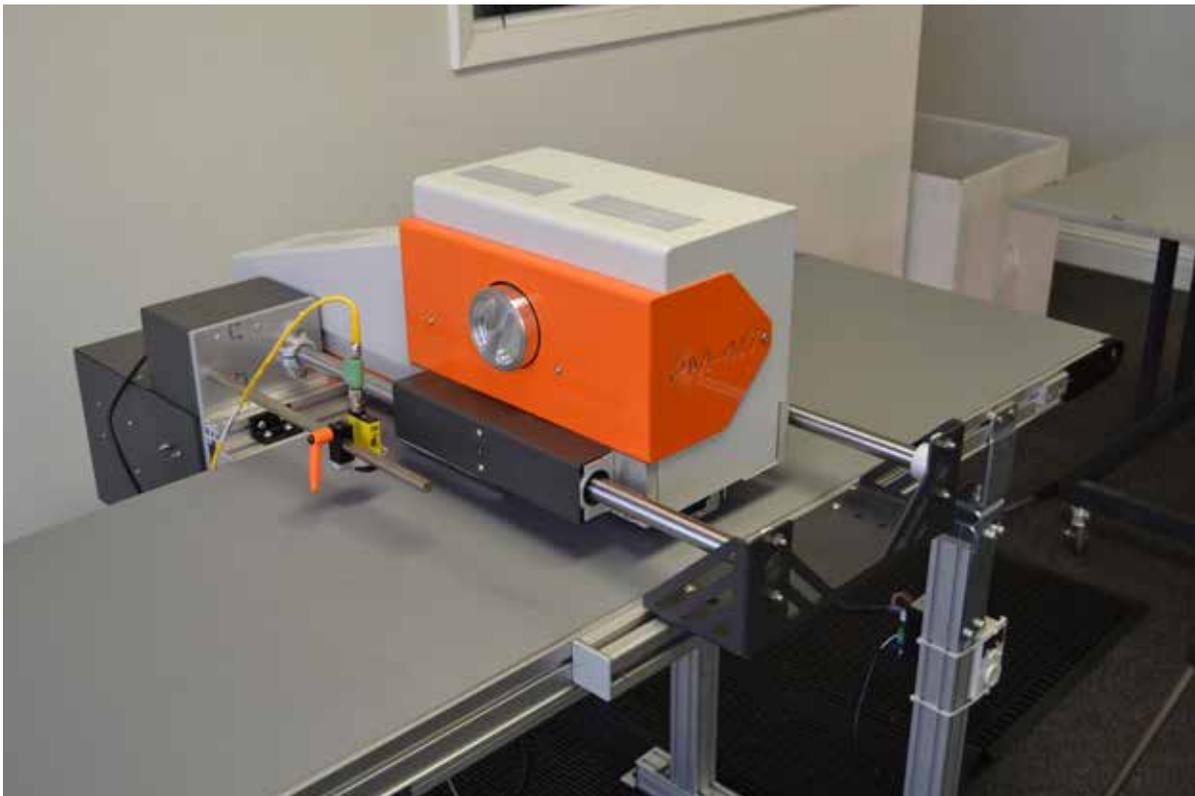
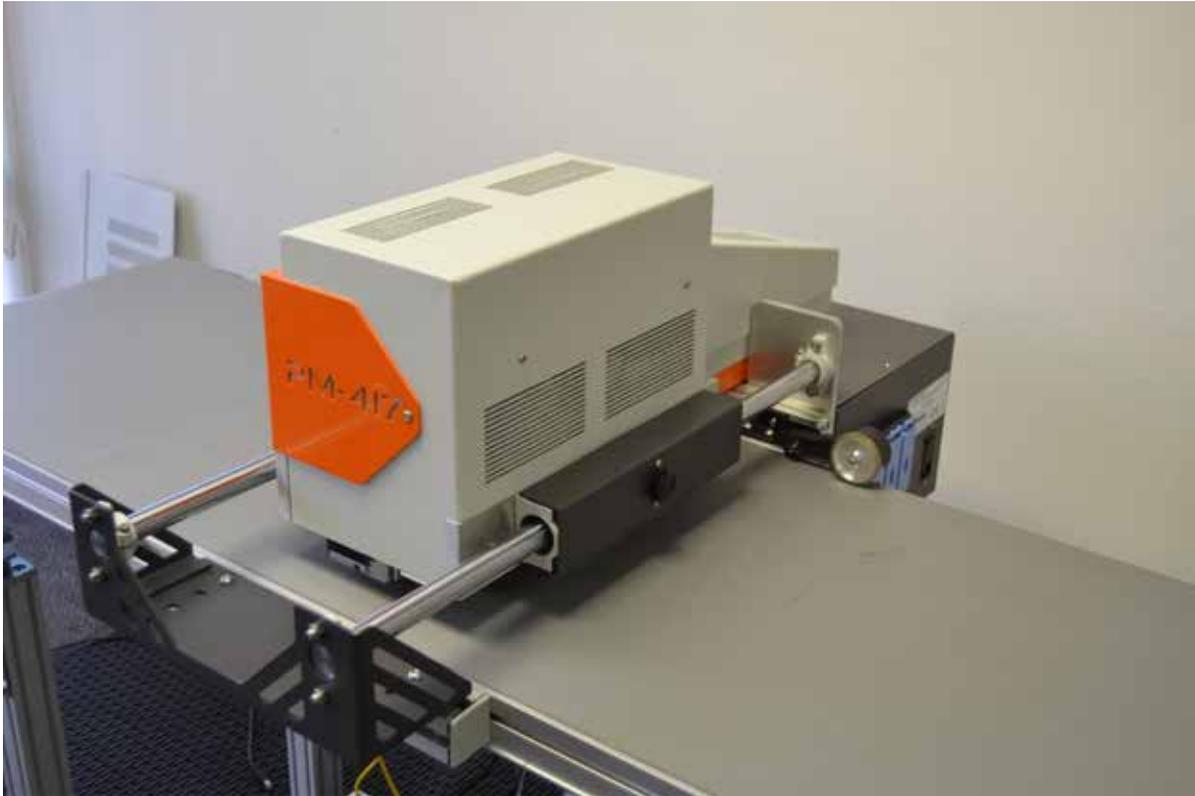


Figure 11: Different views of the mounted PM417 Printer on a 18" conveyor.