

TECHNICAL DOCUMENT

Machine Arm Installation for Mill with Full Enclosure

Product Identification: Machine Arm for PCNC 1100 or PCNC 770 with Full Enclosure (PN 34668)

Purpose: This document details the installation of the machine arm assembly on either the PCNC 1100 or PCNC 770 mill with a full enclosure installed.

Qty. Machine Arm for Full Enclosure

1	Square Tube Arm w/ 2-hole Mounting Clevis
1	Round Monitor Post
1	Monitor Mounting Plate
4	8 mm Socket Head Cap Screws (short) w/ Lock and Flat Washers
4	8 mm Socket Head Cap Screws (long) w/ Lock Washers
4	5 mm Socket Head Cap Screws w/ Lock and Flat Washers
4	Wood Screws (for optional mount of E-stop to table)
10	4 mm Flat Head Screws
4	Wire Tie Mounts
4	Wire Ties
2	E-stop Cable Clips
1	Keyboard Table
1	1/32" Drill Bit

NOTE: If any of these items are missing, contact Tormach Customer Service at (608) 849-8381 for a replacement.



Optional Products	PN
USB Bulkhead Port Assembly	31289
17" LCD Monitor	30615
Mini Keyboard	31371
Keyboard Cover	31384
Shuttle Jog Controller	30616

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1. Use the 2-hole mounting clevis as a template to identify and mark the correct mounting position for the machine arm on the machine stand.

Before finalizing the mounting location, make sure there are no obstructions inside the machine stand.

2. Use the included 13/32" drill bit to drill two holes through the machine stand.

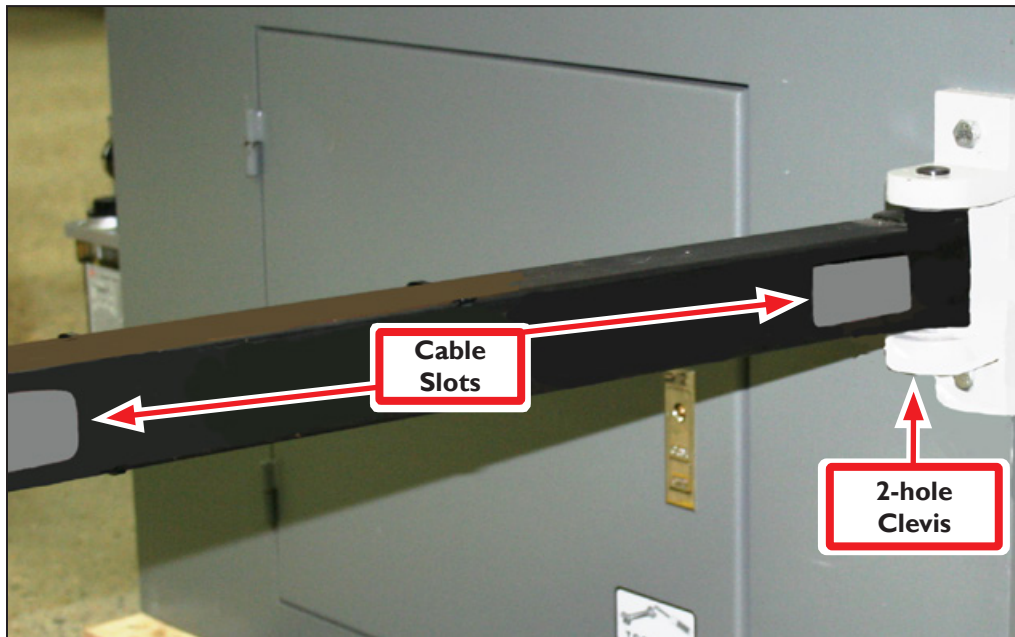


Figure 1



Figure 2

3. Use four sets of 8 mm socket head cap screws (long), nuts, and washers to attach the mounting clevis to the machine stand (see **Figure 1**). Make sure the cable slots are facing as shown in **Figure 1**.

4. Insert the round monitor post into the square tube arm and tighten the cross bolt (see **Figure 2**). Make sure the holes are along the inside of the round monitor post as shown in **Figure 2**.

The working height of the post can be adjusted after the keyboard and monitor are attached.

5. Use a dead-blow hammer (or similar) to tap the end plug into the square tube arm (see **Figure 3**).

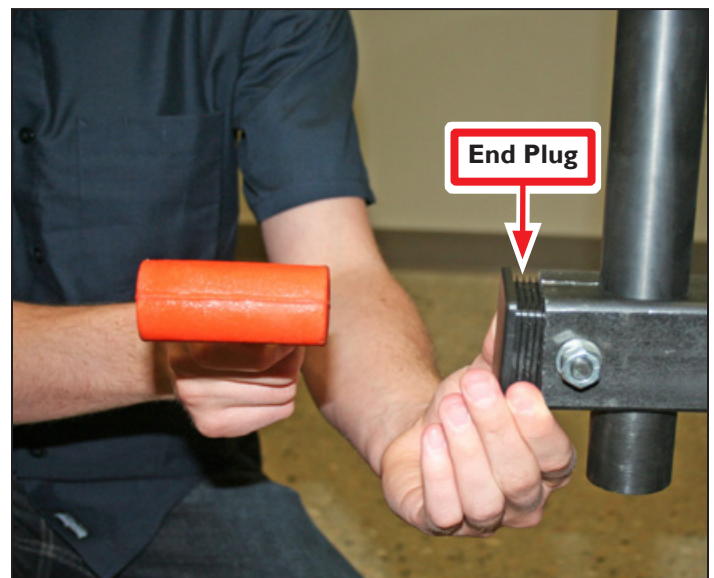


Figure 3

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Figure 4

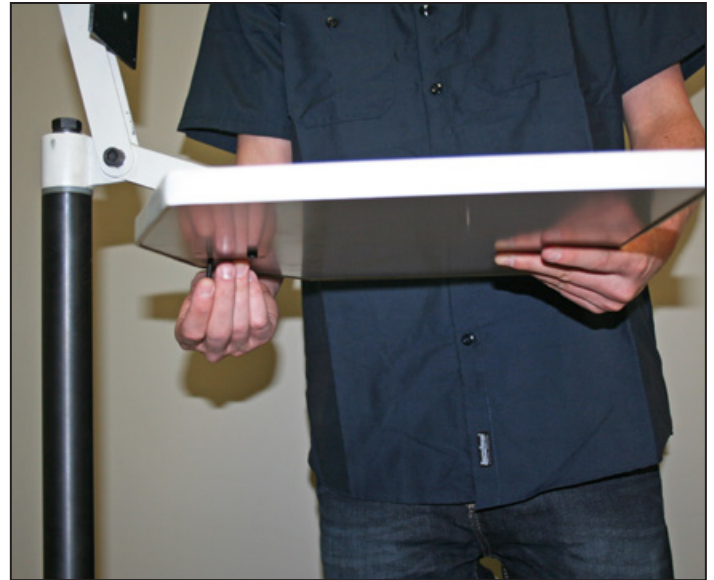


Figure 5

6. Position the round monitor post for mounting of the keyboard table as shown in **Figure 4**. Tighten the applicable screws to hold the desired position.
7. Use four 5 mm socket head screws to attach the keyboard table to the round monitor post (see **Figure 5** and **Figure 6**).



Figure 6

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8. Use four 4mm flat head screws to attach four wire tie mounts to the round monitor post (see **Figure 7**).
9. Use two 4 mm flat head screws to attach two Emergency Stop cable clips to the bottom of the square tube arm.
10. Attach monitor and route cables.

NOTE: We recommend wrapping all cable connections in electrical tape.

11. Adjust the monitor height and keyboard angle as needed.

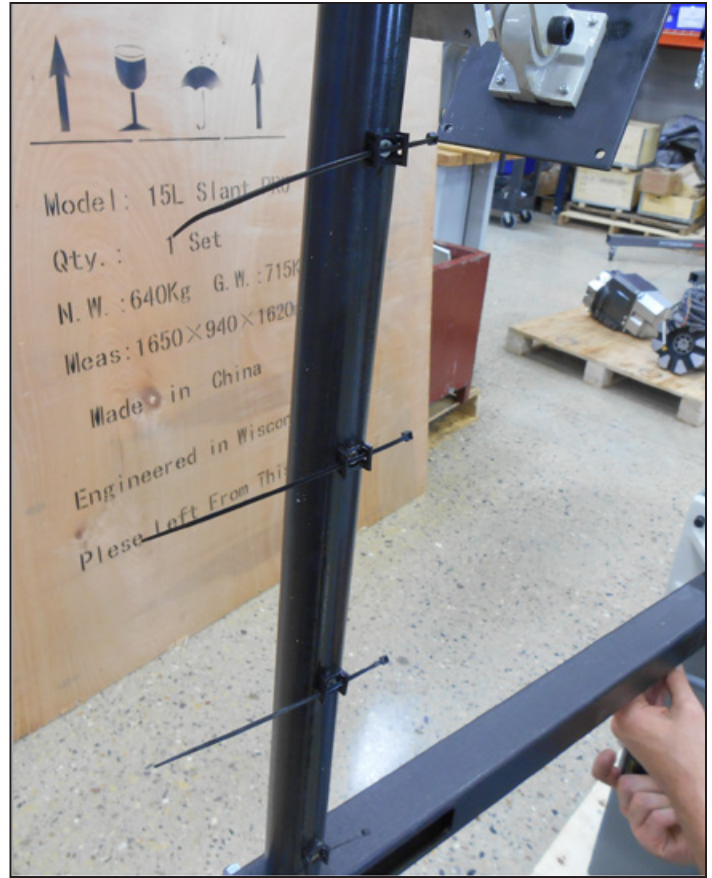


Figure 7