



## HP Scitex FB7x00

### Technical Note

<b>Product</b>	HP Scitex FB7x00
<b>T/N #</b>	emr_na-c04359603
<b>Revision</b>	Rev. A
<b>Subject</b>	Replacing the Printing Table
<b>No. Pages</b>	19
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<b>Date</b>	August 4, 2014
<b>Confidential</b>	No

#### Revision History

Revision	Date	Description
A	August, 2013	Initial version

## Overview

This TN describes how to replace the printing table assembly on the FB7x00 machine.

## Required personnel

2 engineers

**Note:** For lifting the printing table, you need a help of up to 9 people depending on method you choose.

## Required tool

- Allen set
- Ratchet set + long adaptor
- P/N P395A00028 - MAGNETIC LEG FOR INDICATOR SPECIAL PRESCRIPTION
- P/N 5189-6230 - INDICATOR DIGIMATIC ID-S

*Note: The best way is to use 8 legs + 8 indicators. If you don't have 8 you can use 4 or even one (with one set it will take a long time).*

## Required time

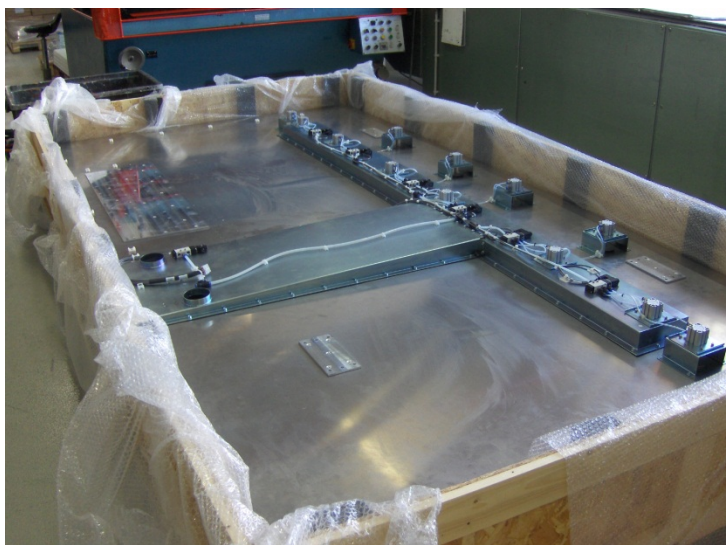
5 days

## Catalog numbers

Part number	Description	Quantity
CX154-03390	VACUUM TABLE STEP 1 (SERVICE)	1

## Preparation for Upgrade

1. Open the new table crate and check the new table for any mechanical or any other visible damages.

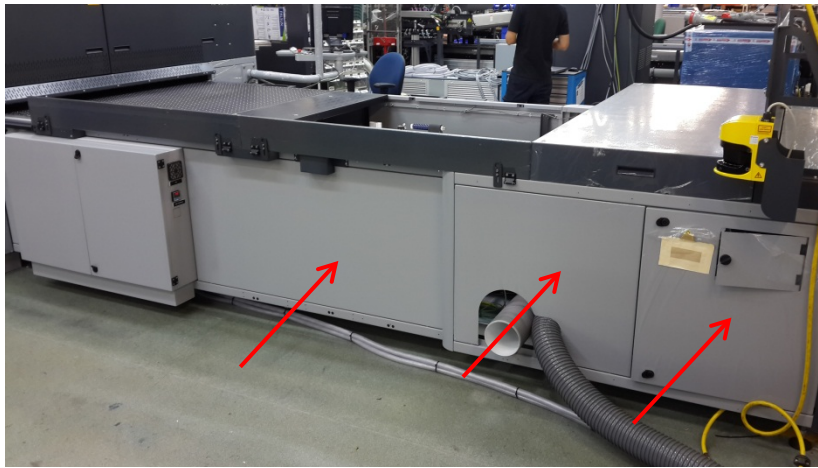


2. Take out new table from crate and place on some table for next actions
3. Print the reference files:
  - Head Signature
  - Engineer reference file in POP34, POP48 and Prod70
  - Perform the TY test for manual and automatic loading
4. Shutdown the machine.

## Removing the Covers

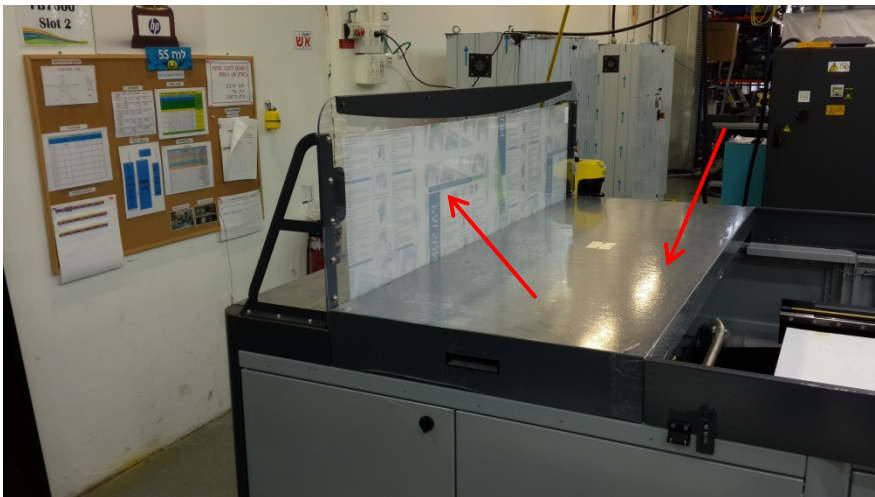
**Note:** This step should be performed by 2 persons.

1. Remove all bottom covers on the front and rear sides of machine (operator and non-operator side).





2. Remove the maintenance bath cover and the Perspex plate.



3. Remove UV protector cover.



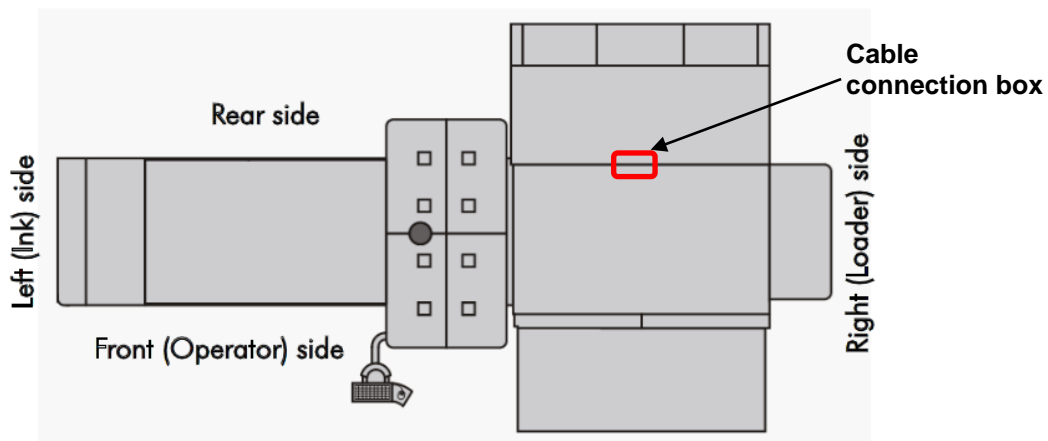


4. Remove the fans beam.



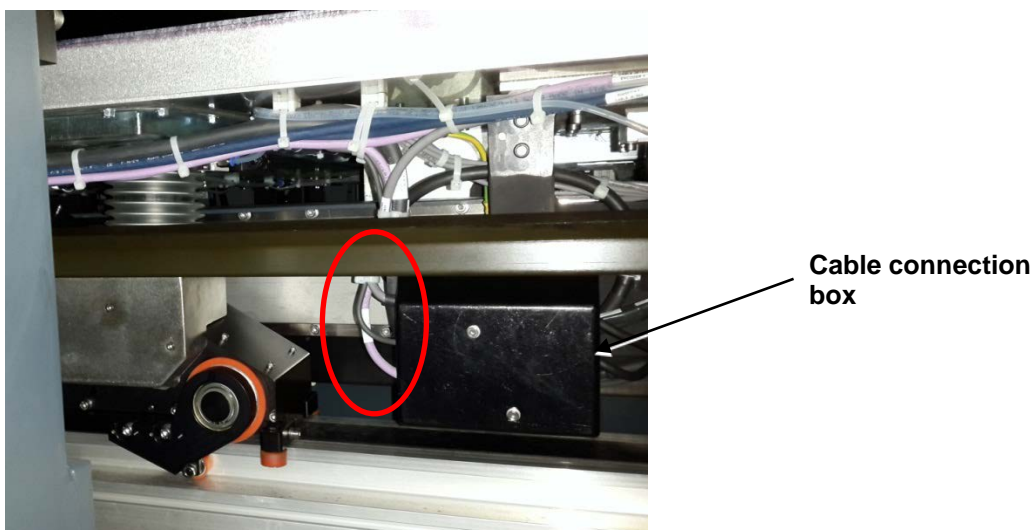
## Removing the Old Printing Table

**Note:** For better understanding of the procedure, see the machine directions below.



**Note:** This step should be performed by 2 persons.

1. Disconnect all data and power cables from the left side of the cable connection box (near the VCU).



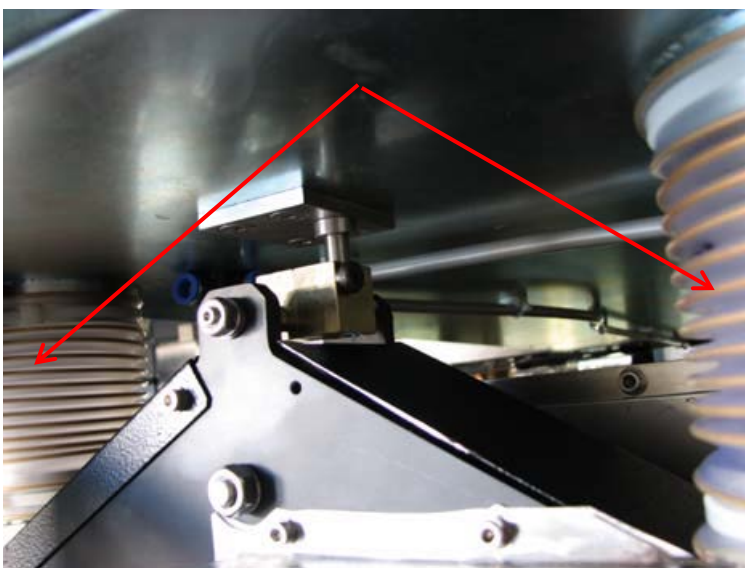
2. Disconnect cable p/n 504000775D from the right side of the cable connection box.



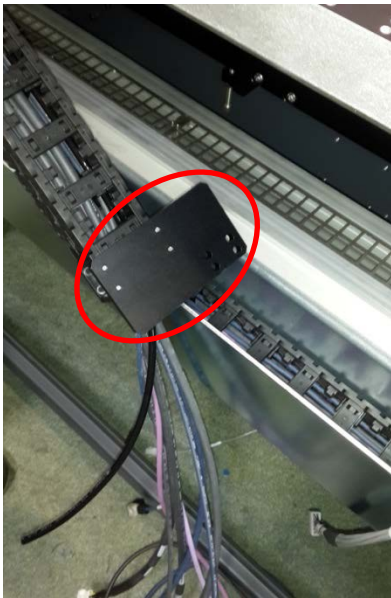
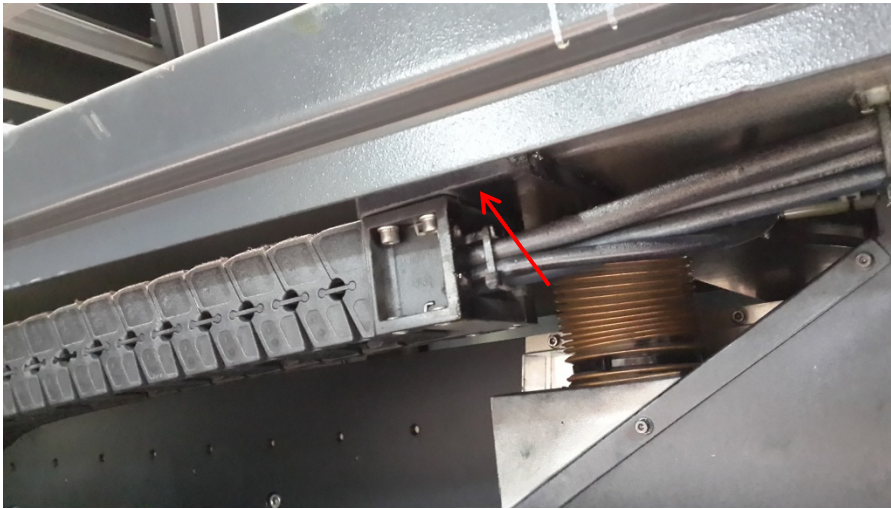
3. Disconnect the pneumatic tube that is connected to the table.



4. Disconnect the 2 VCU pipes from the table.



5. Disconnect the Igus chain bracket from the table by opening 4 Allen screws.

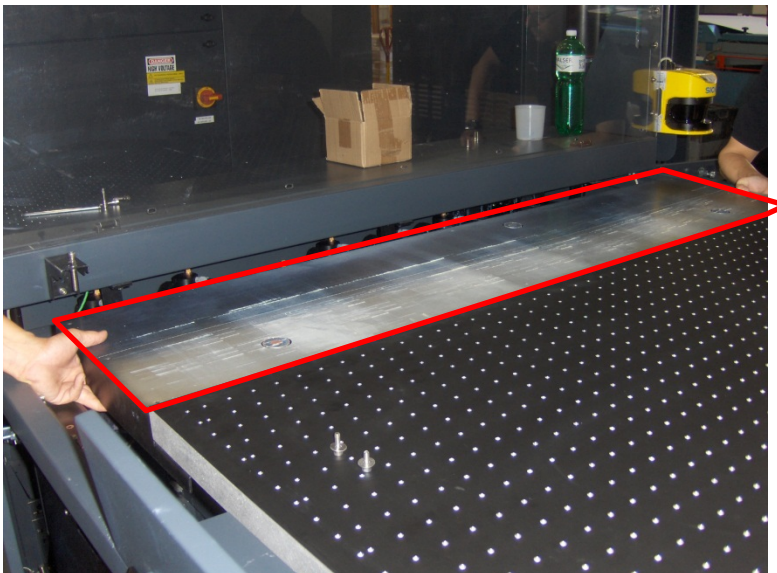
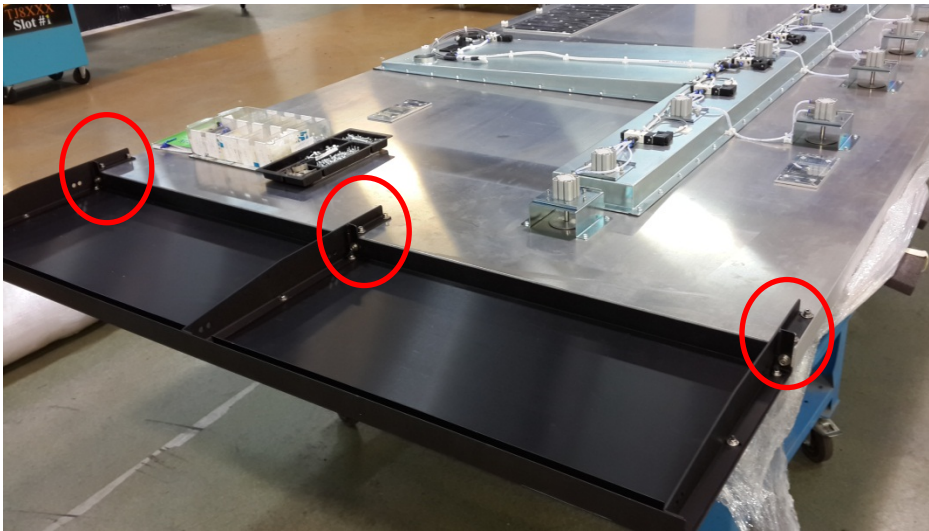


6. Disconnect the VCU rod-eye bracket from the vacuum table by opening the 4 Allen screws.





7. Remove table extensions on both sides by opening the 12 Allen screws (see the table bottom view below).



8. Disconnect the 2 grease nipples bracket from the table by opening the 2 Allen screws from each bracket.



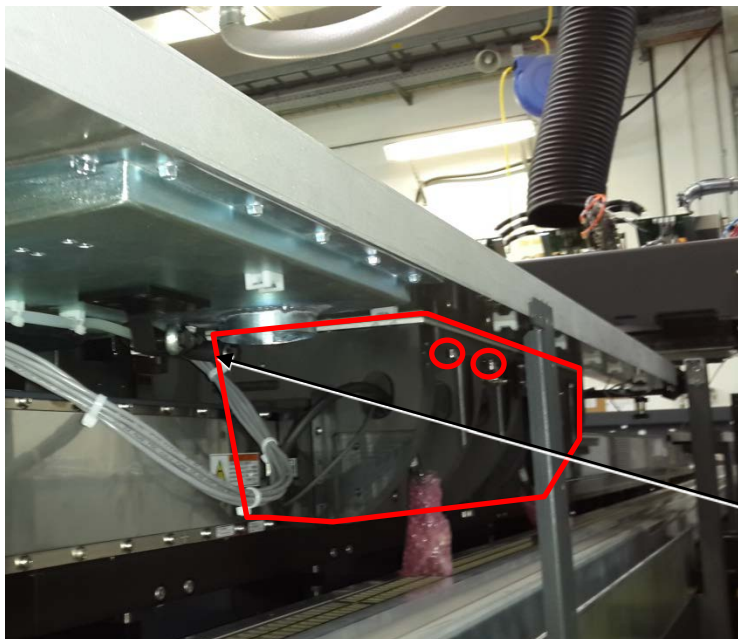


9. Disconnect the encoder convertor by opening the 3 Allen screws.



**Note:** When removing the screws, be careful not to lose them – you work near the X magnet area.

10. Disconnect the 40 Allen screws from the X motor support/slider. You can use a long ratchet adaptor to access the screws located on the back side of the motor.



Back side of the motor

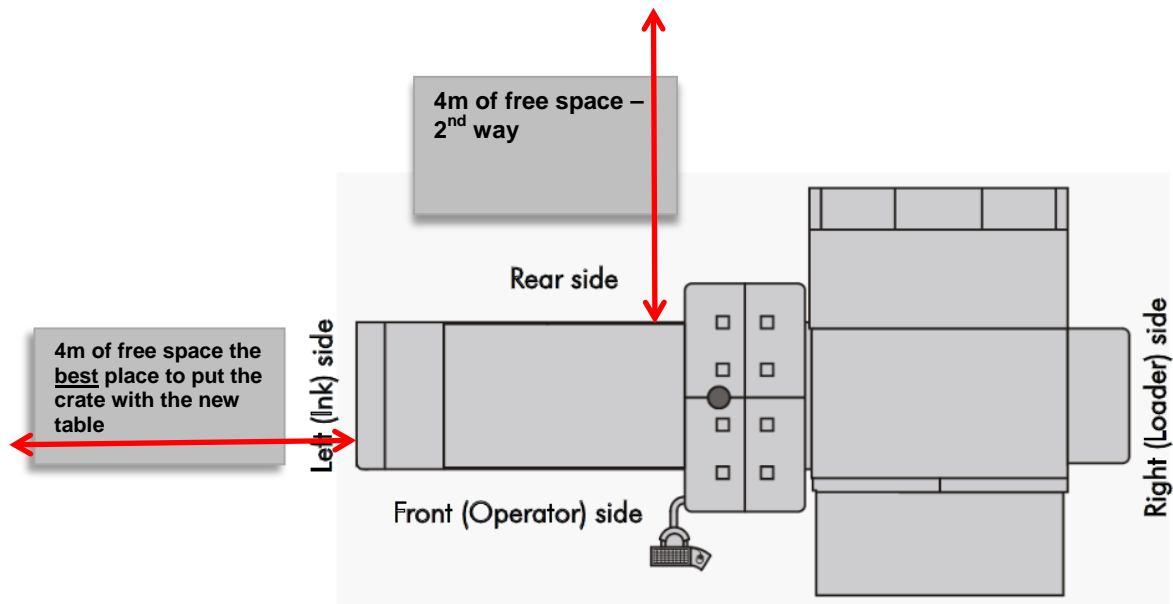
11. Disconnect all screws from the 3 table supports - 6 screws on each support.



12. Remove the table from machine.

There are 3 ways to lift up the old table from the machine depending on the free space around the machine.

- **1st (easy way)** - if you have 4 m of the free space from the ink cabinet. In this case, 3 persons lift the table from each side (totally, **6** persons).
- **2nd** - if you have 4 m of free space on the rear side of the machine. In this case, you should move the table to non-operator side. **8-9** persons are required.
- **3rd** - lift the table with forklift and belts (1 ton) - **4** people are required. Forklift requirements:
  - The forklift should have extensions of 2m length.
  - Only local driver can drive the forklift.



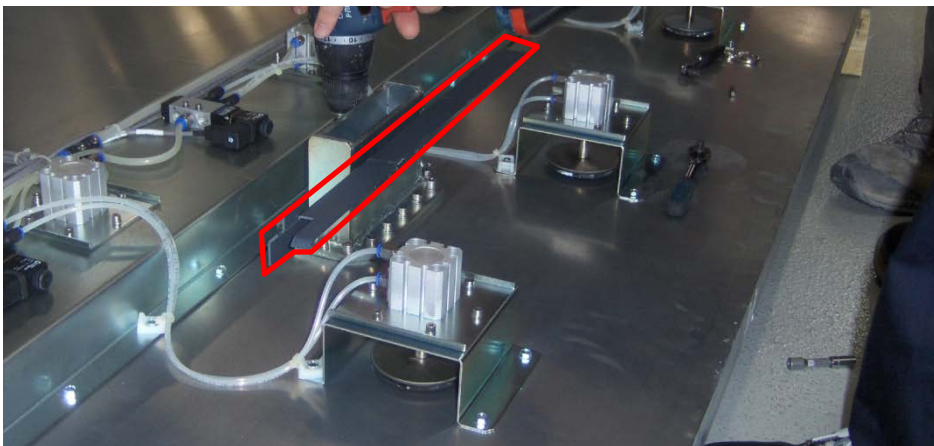
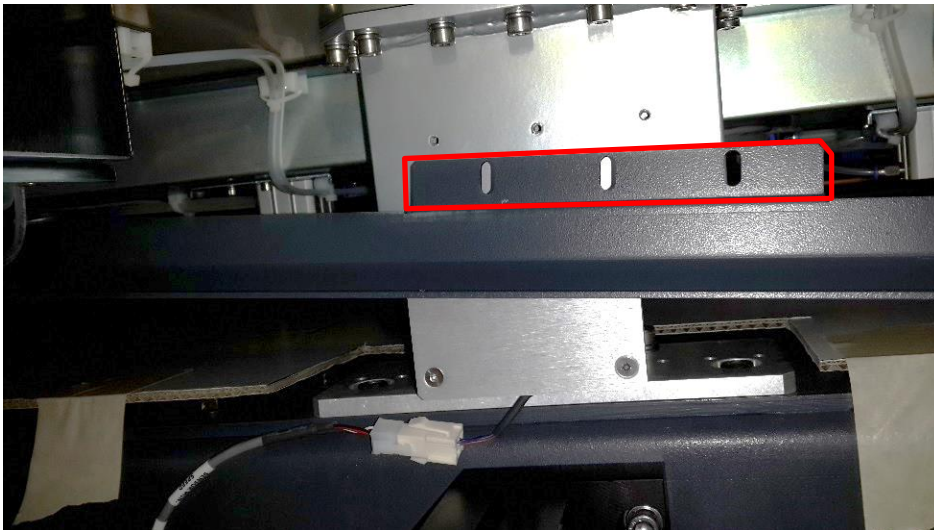
13. After removing the table, turn it upside down.

### Preparing the New Table

1. Remove the 2 stoppers from old table and install on the new table (16 Allen screws).

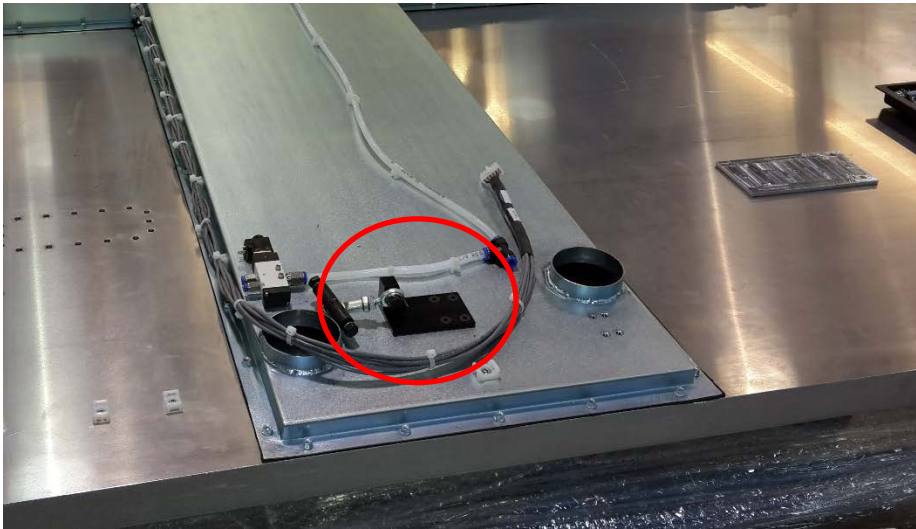


2. Remove the X flag from old table and install on the new table (3 Allen screws).





3. Remove the VCU adaptor from old table and install on the new table.



4. Turn the new table upside down and put it on the 2 pieces of woods on the floor.



## Installing the New Printing Table

**Note:** Install the new printing table by performing the steps of “**Removing the Old Printing Table**” in the reverse order.

1. Place new table on the machine.

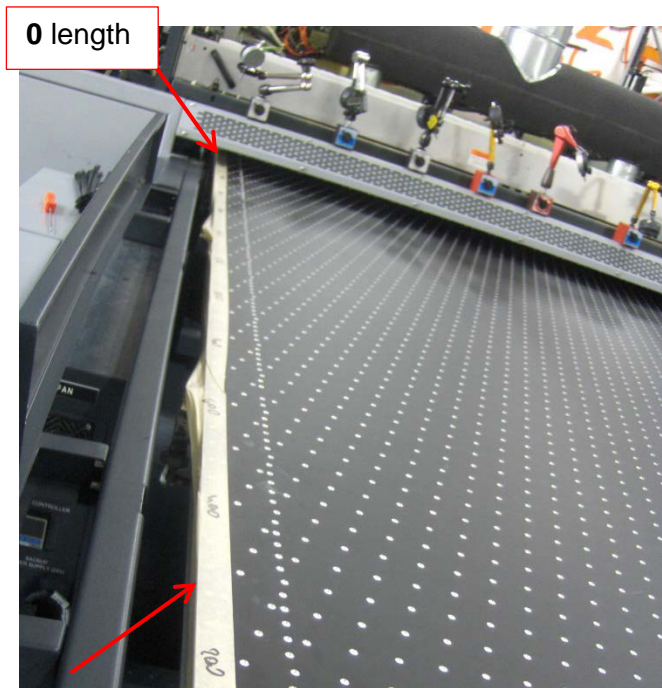
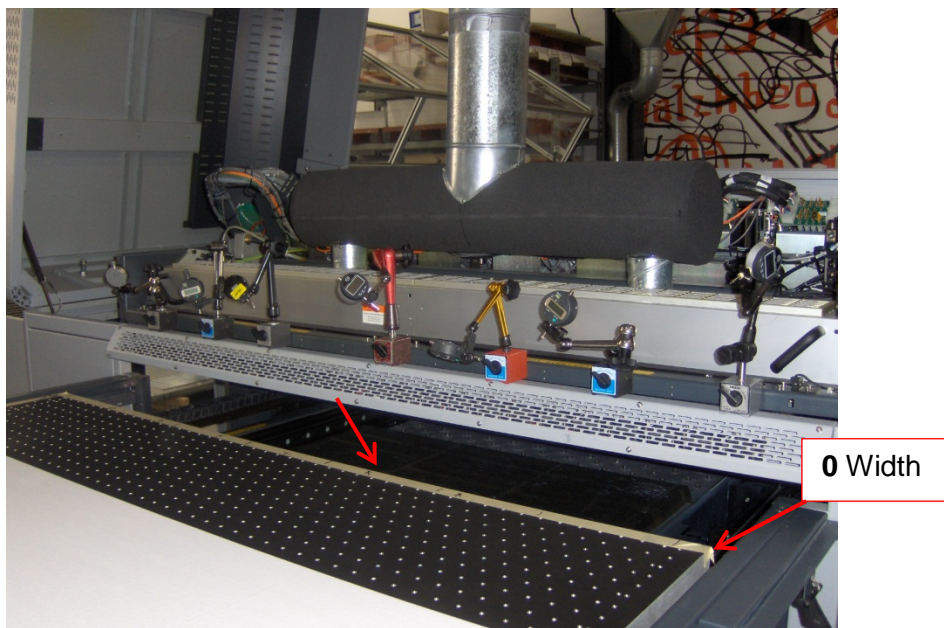
**Note:** Be careful not to lose the screws when working in the X magnet area.

2. Tighten the screws on the 3 table supports, 6 screws on each support.
3. Tighten the 40 Allen screws on X motor support/slider. You can use a long ratchet adaptor to access the screws located on the back side of the motor.
4. Install table extensions on both sides using the 12 Allen screws.

5. Connect 2 grease nipples bracket, by closing 2 Allen screws from each bracket
6. Connect the VCU rod-eye.
7. Connect all data and power cables to the table.
8. Connect all pneumatic tube.
9. Connect the Igus chain by closing 4 Allen screws.
10. Connect the 2 VCU pipes to the table.

## Leveling the New Printing Table

1. Place masking tape on the table edge along the width and the length.
2. Mark on the tape distance of 20 cm.



3. Assemble the fans beam.
4. Place on the fans beam, 8 magnetic legs + 8 indicators. The indicators should touch the table at **0** position.
5. Manually move the table by steps of 20 cm and enter the results into the table.

**Note:** The best way is to use 8 legs + 8 indicators. If you don't have 8, you can use 4 or even 1 (with 1 set it will take a long time).





## Leveling page for FB7x00 printing table

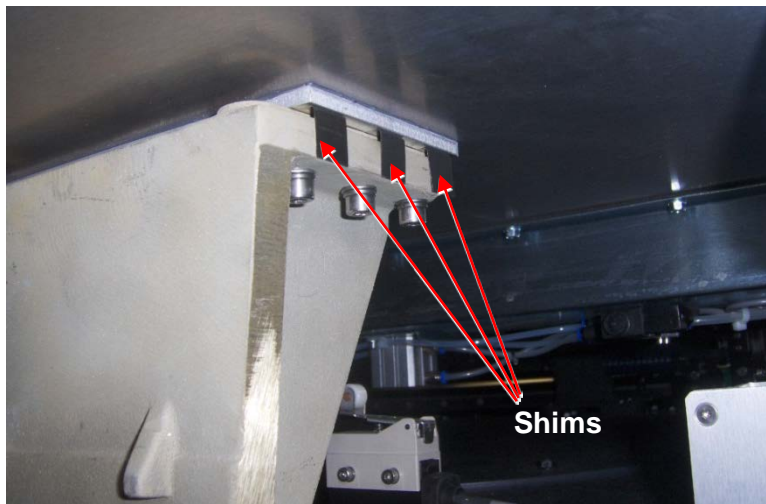
Machine #: \_\_\_\_\_

Date: \_\_\_\_\_

3200	3000	2800	2600	2400	2200	2000	1800	1600	1400	1200	1000	800	600	400	200	0	Measure
																	8
			Support									Support					7
																	6
																	5
																	4
			Support					X motor support									3
																	2
																	1

The tolerance is **0.3mm** on one meter and **0.6mm** for the entire table. You must try to minimize the results to minimum difference.

6. If the measurements are not in the tolerance, you need to add shims between the table and table supports (or X motor support/slider).
7. Release the screws on the table supports to allow inserting the shims.



**B a d**

3200	3000	2800	2600	2400	2200	2000	1800	1600	1400	1200	1000	800	600	400	200	0	מידה	סרגל
-0,06	-0,03	-0,00	-0,05	-0,04	-0,07	-0,07	0	0	0	-0,02	-0,03	0	-0,01	0	0	0	8	
-0,13	-0,10	-0,13	-0,15	-0,11	-0,17	-0,15	-0,07	-0,05	-0,06	-0,06	-0,09	-0,13	-0,05	-0,03	-0,02	0	7	
-0,16	-0,13	-0,17	-0,24	-0,21	-0,23	-0,20	-0,13	-0,13	-0,09	-0,17	-0,24	-0,05	-0,02	-0,01	0	0	6	
-0,16	-0,14	-0,19	-0,27	-0,28	-0,30	-0,28	-0,27	-0,14	-0,12	-0,11	-0,16	-0,16	-0,07	-0,05	0	0	5	
-0,14	-0,14	-0,19	-0,27	-0,27	-0,28	-0,19	-0,23	-0,17	-0,11	-0,09	-0,14	-0,10	-0,06	-0,07	-0,02	0	4	
0,13	-0,14	-0,19	-0,21	-0,21	-0,22	-0,17	-0,13	-0,15	-0,11	-0,10	-0,14	-0,09	-0,05	-0,08	-0,01	0	3	
0,11	-0,13	-0,16	-0,17	-0,18	-0,20	-0,17	-0,15	-0,17	-0,13	-0,14	-0,17	-0,06	-0,04	-0,08	-0,01	0	2	
-0,10	-0,15	-0,19	-0,19	-0,23	-0,25	-0,23	-0,22	-0,19	-0,18	-0,18	-0,14	-0,11	-0,10	-0,10	-0,02	0	1	

הערת חשובה: טווח סטיית הוא 0.3 מ"מ במטר או 0.6 מ"מ לכל השולחן

**G o o d**

3200	3000	2800	2600	2400	2200	2000	1800	1600	1400	1200	1000	800	600	400	200	0	מידה	סרגל
-0,02	-0,04	-0,03	-0,03	-0,07	-0,07	-0,03	0	0	0	0	-0,03	-0,04	-0,01	-0,01	0	0	8	
-0,06	-0,04	-0,09	-0,12	-0,09	-0,15	-0,14	-0,05	-0,05	-0,06	-0,06	-0,09	-0,13	-0,05	-0,03	-0,02	0	7	
-0,08	-0,04	-0,12	-0,17	-0,15	-0,19	-0,11	-0,11	-0,13	-0,13	-0,08	-0,17	-0,21	-0,05	-0,05	-0,01	0	6	
-0,03	-0,04	-0,12	-0,17	-0,15	-0,19	-0,11	-0,11	-0,13	-0,13	-0,08	-0,17	-0,21	-0,05	-0,05	-0,01	0	5	
-0,03	-0,03	-0,11	-0,10	-0,21	-0,24	-0,19	-0,13	-0,19	-0,14	-0,09	-0,08	-0,13	-0,10	-0,05	-0,07	-0,01	4	
0,02	-0,01	-0,07	-0,13	-0,17	-0,20	-0,13	-0,19	-0,14	-0,09	-0,08	-0,13	-0,10	-0,05	-0,07	-0,01	0	3	
0,05	-0,02	-0,03	-0,09	-0,09	-0,14	-0,11	-0,10	-0,11	-0,10	-0,14	-0,09	-0,10	-0,05	-0,07	-0,01	0	2	
0,08	-0,04	0	0	-0,04	-0,10	-0,11	-0,11	-0,11	-0,14	-0,15	-0,17	-0,07	-0,03	-0,04	-0,02	0	1	

הערת חשובה: טווח סטיית הוא 0.3 מ"מ במטר או 0.6 מ"מ לכל השולחן

## **Complete the Installation**

1. Mount the covers on both sides of the machine.
2. Mount the maintenance bath cover.
3. Install the Perspex plate.
4. Install UV protection cover.
5. Start up the machine.
6. Perform the Z-axis calibration procedure.
7. From the machine application, activate the vacuum to the printing table on each zone separately.
8. Perform the TY test for both manual and automatic loading.
9. Print the reference files.