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# HSAjet TCU

# Quick Start

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**Guide to design first layout on TCU unit**  
**Please also see "TCU setup guide" for**  
**connection instructions**

For full instruction about object properties, machine features and use of  
CB INKdraw, please refer to either "TCU manual" or "CB INKdraw manual"

Version: 29 September 2005

# Install CB INKdraw

The design software CB Inkdraw is used to design TCU files. You need to install this software before you can design your own TCU files.

1. Run "Setup.exe" from the supplied CD
2. Default install location is **C:\{Program Files}\OBJ INKdraw**  
But if you choose, you can use any location.
3. Choose if you need shortcut on the desktop. Click "Next" and "Install" to start installation.

# Design a TCU picture

## Start OBJ INKdraw and create new picture

Select "File-> New".

Select HP as head type and check "TCU" checkbox

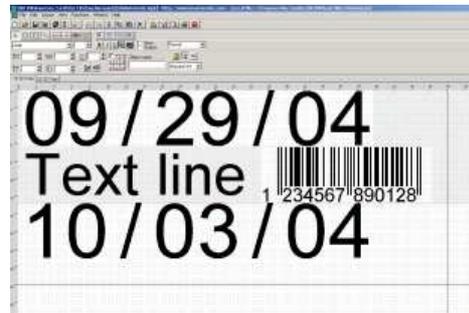


You can add one or two heads as needed, or select a 25.4 mm double stall.

This screen is also where you set the message length. Maximum length is about 2.7 m.

## Place the objects as desired

You can use both fixed and variable objects as you please.



### Fixed objects:

Circle, square, line, text, logo, barcode, field, system variable



### Variable objects:

Date, Counter, Time, Text (prompt)



**NOTICE** You have 3 fonts available for each TCU file. Click



(next to font type) to edit.

# Adjust print parameters

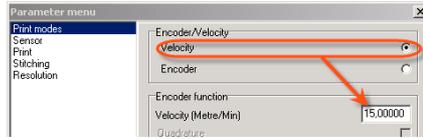
Press **F9** or parameter icon  to adjust parameters

Parameters are stored in the TCU files.

## Print mode (fixed speed / encoder)

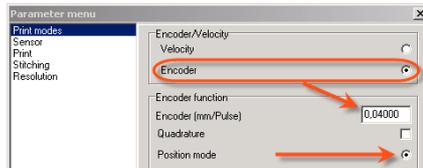
**NOTICE**  If you select encoder and don't have one connected, the TCU will not print anything.

*FIXED SPEED* - select "Velocity" and enter "m/minute"



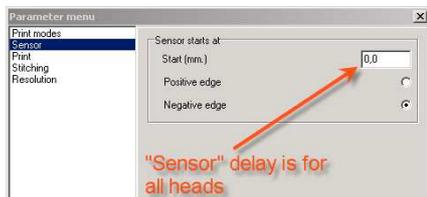
**OR**

*ENCODER* - select "Encoder" and enter "mm/pulse" (typically 0,04 - can be calculated in dialog window)

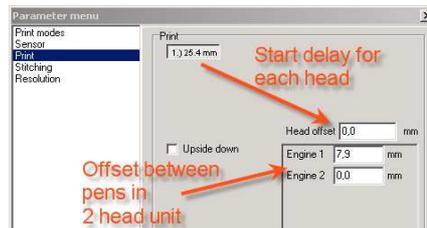


## Offsets (start delay / head distances)

*GLOBAL* start delay, set under "SENSOR"



*PER-HEAD* start delay, set under "PRINT"

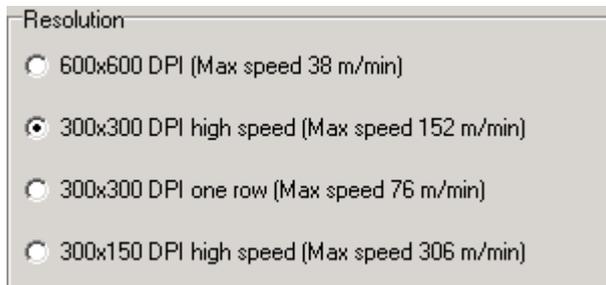


## Print direction

Under "PRINT" section, select by the arrow 

## Resolution

Under "Resolution" section, select appropriate



## Compile the layout into TCU file

Press "F10" or press



"Compile icon" to compile the TCU files.

The file name should be 8 characters maximum.

You can save directly onto your CF card

Choose drive of your CF reader here



You must make sure that the system files are on the card.



**NOTICE** CB INKdraw can copy these files automatically, if you click "Advanced Mode" in save box.



**FPGAFILE.EPR  
LANGUAGE**

## Print picture

TCU without message selector

- Insert card and turn on power. The TCU file will load, LED blinking
- Press RED button to start print mode
- Activate photo cell to print

TCU with message selector

- Make sure you name files "TCU-1" through "TCU-10"
- Rotate switch to number to load file. One blink indicates successful load
- Press RED button to start print mode
- Activate photo cell to print

TCU with terminal /  
Integrated TCU

- Select name with arrow keys / predictive input (start typing name)
- Press ENTER to load
- Start print mode by pressing "PRINT" button (upper left)
- Activate photo cell to print