

## **LinkMotion and DesignCAD 3D Max 19:**

After you install LinkMotion software and setup all settings launch DesignCAD software.

### **Important notes:**

**Zero or thinnest line width and No fill are the most important things to remember when you are designing a file for Vector or line output. Line type of output is required by rotary tool machines like engraving, routing, and CNC. Do not fill shapes with bit maps for any line or vector output. Raster or bitmap fills are used by laser machines. It is important to remove fill when you import scanned files.**

**Solustan's LinkMotion driver tests the primary function of accepting hair lines (vector lines) generated by popular application software packages for job design. It is important for the user to learn the job design software and to make sure that the jobs are properly prepared for successful execution of a job.**

**Do not check Design Using Plate Size feature in LinkMotion Material properties.**

**Solustan's liability is limited to the purchase price of the LinkMotion driver software.**

It is necessary for the user to acquire the application that will be used for the job design. There are many books of various levels available for all these popular applications. This document is simply a guideline to point the user in the right direction. We welcome feedback from our users. Share your findings with us and we will include them here for all users benefit.

Following are helpful details for a user of DesignCAD design software:

### **(1) How to set Print Command in DesignCAD properly for LinkMotion?**

**1. Select Print Setup from the File menu and setup following in the Print setup dialog box.**

**Printer** – Make sure that **your machine name** that you have installed LinkMotion for is selected.

**Units** – Select same as what you have selected in LinkMotion.

**Area** – Uncheck Fit to Paper. Uncheck Center Drawing. Select Scale to be 1:1 by using scrolling arrow.

**Panel** – Mark none should be selected.

**Paper** –Orientation selection will be dependent on your table size declared in LinkMotion's Machine setup area. If X is larger than Y table size then normally you will select Landscape mode. Similarly if X is smaller than Y table size then you will select Landscape mode. Make Margins 0, 0 for all positions as seen on the screen for Top, Bottom, Left and Right. Custom size will be displayed in case of LinkMotion Win 7 driver.

**Type** – Pen width 0.00mm selected and select **wire frame** here.

**2. Select Print from the File menu and setup following in the Print dialog box.**

Under Text tool (Text dialog box) select **True Type Font** and check box for **Save in Vector Form.**

Check **Save Current Print Settings with Drawing.**

This setup proper for all vector jobs using rotary engraving machines.

**(2) How to setup design in DesignCAD properly for LinkMotion?**

Depending on the tool's parking position on your machine you will setup proper Start position in LinkMotion's Origin setup area. Most rotary engraving machines have Top Left to be the start position and in that case you will start your design also on top left of the page in DeasignCAD application. CNC machines use Bottom left start position so you can design from the bottom left. Some time it is necessary to start the actual cutting or engraving work with few inches of offsets and you can learn to use these offsets that you can declare in LinkMotion or your design application. **Please read, understand, experiment and then do the final production.**