

SLMS Trotec Vector Engrave Test Cards

Concept

A standardised set of cards, material settings and tests to determine optimal settings for specific materials and combinations of material and sheet thickness.

Test 1: Variable speed

1. Design screen
 - 1.1. Import *Desktop\Test Cards\Test card – vector engrave.svg*
 - 1.2. Click on *Material name here*
 - 1.3. Press the edit icon on the top right of the text
 - 1.4. Change to the name of the material (no thickness specification needed)
 - 1.5. Press enter to accept the change
 - 1.6. Create job
2. Prepare screen
 - 2.1. Material = *Test card – vector engrave – variable speed*
 - 2.2. Edit the cut speed (black) to ensure that the laser cuts through the material
 - 2.3. Push to laser
 - 2.4. **Do not revert, do not overwrite**
3. Produce screen
 - 3.1. Start

Test 2: Variable power

1. Return to the Design screen
 - 1.1. Change *Variable speed* to *Variable power*
 - 1.2. Change *Power at 100%* to *Speed at 100%*
 - 1.3. Create job
2. Prepare screen
 - 2.1. Material = *Test card – vector engrave – variable power*
 - 2.2. Edit the cut speed (black) to ensure that the laser cuts through the material
 - 2.3. Push to laser
 - 2.4. **Do not revert, do not overwrite**
3. Produce screen
 - 3.1. Start

How to interpret the result

Each card will show you how your specific materials respond to the laser. Each block represents a 10% change (in speed or power, depending on the test). You may find that some settings yield no result, and therefore some blocks are not present. This simply means that the material doesn't vaporise at that combination of power and speed.