RETICLE RED TUTORIAL

Free LightBurn Test Grid

**A material test card as a real .lbrn2 file,
one layer per cell. Free in your browser.**

Recorded on the live site · material grid · line spacing · kerf

reticle-red.com/free-lightburn-test-grid

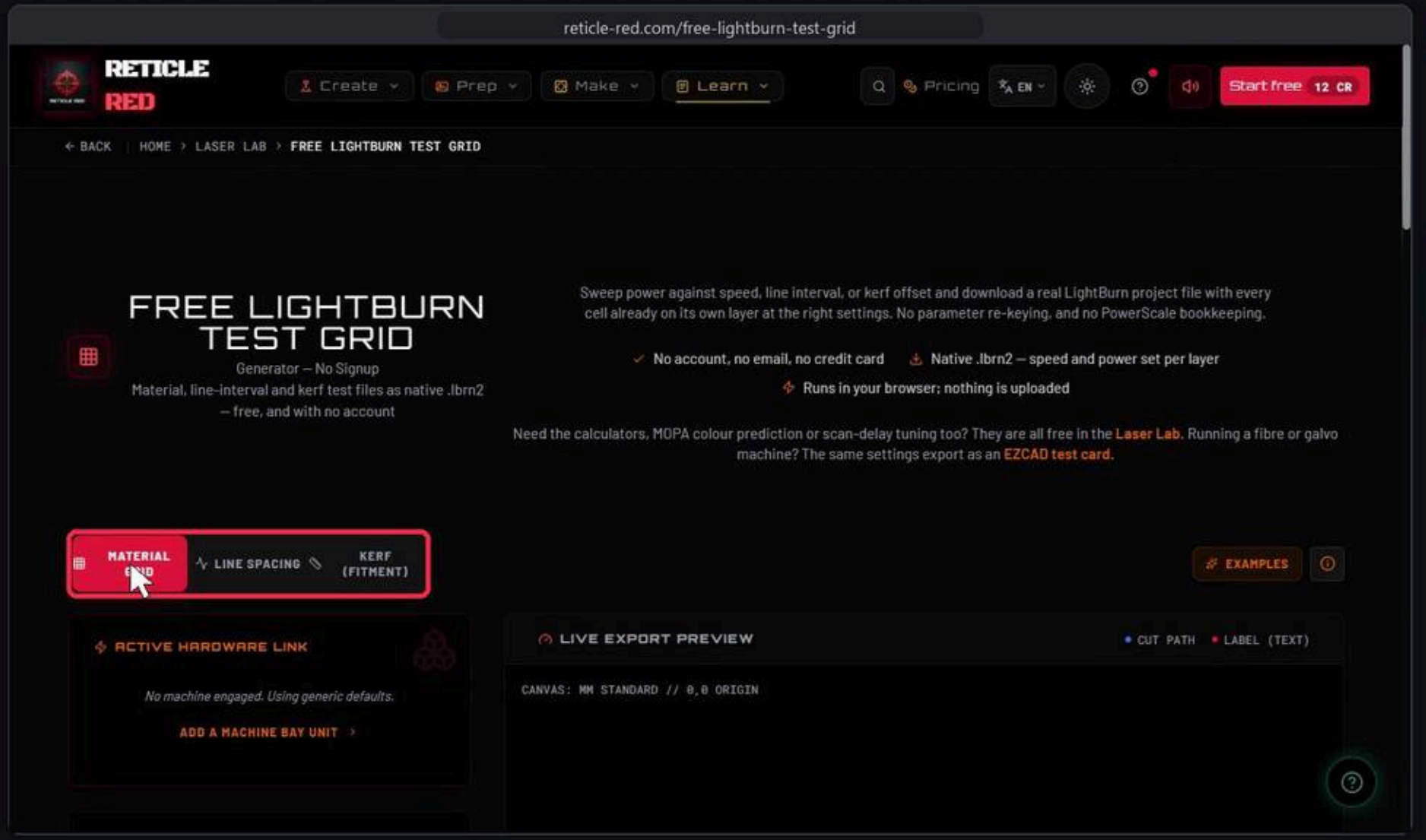
PART 1 OF 1

A power and speed grid

Test type, substrate, axes, preview and the .lbrn2 export

RETICLE RED · FREE LIGHTBURN TEST GRID TUTORIAL

A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 1 OF 10

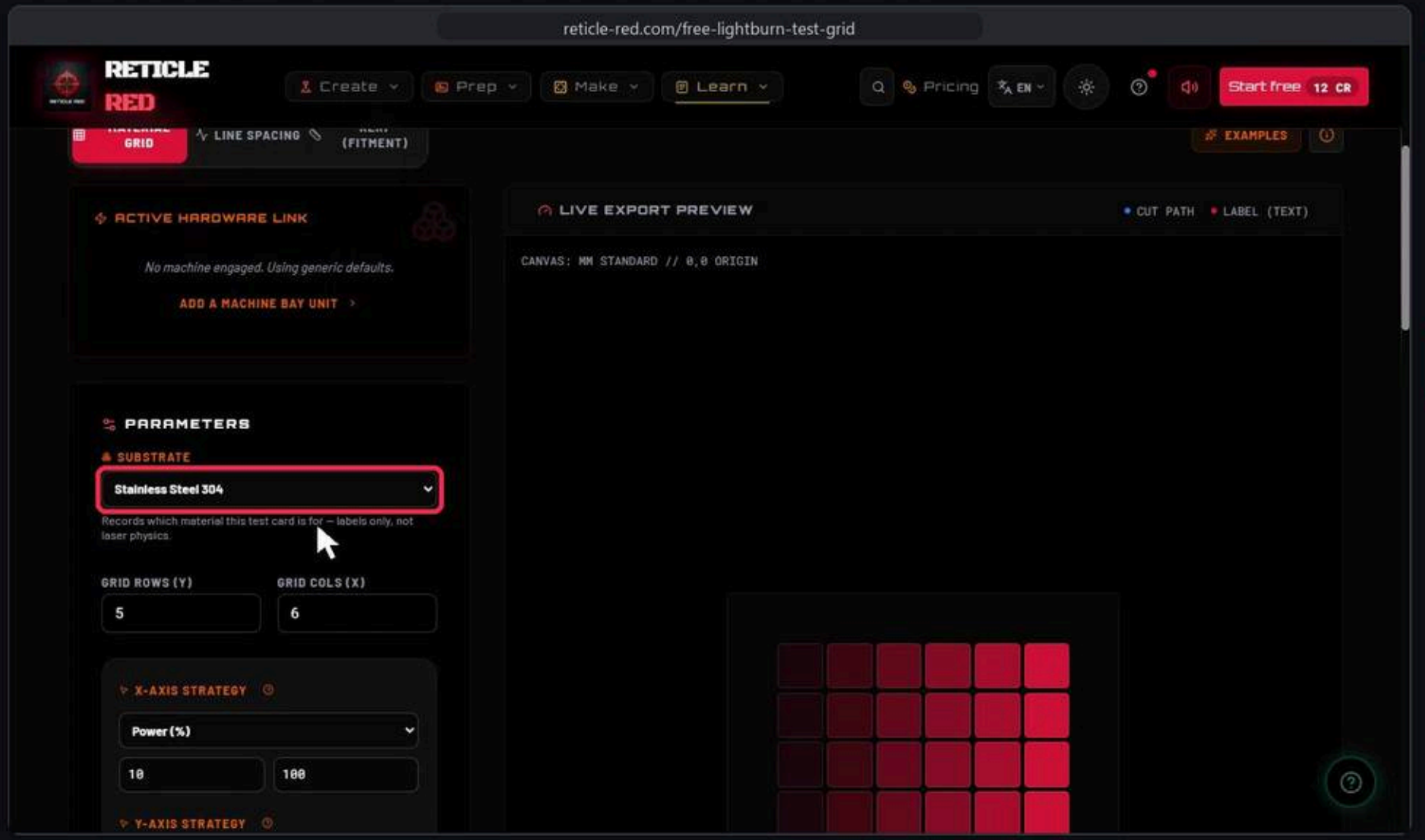
Three tests

Material Grid · Line Spacing · Kerf (Fitment)

CLOSE-UP



A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 2 OF 10

Substrate

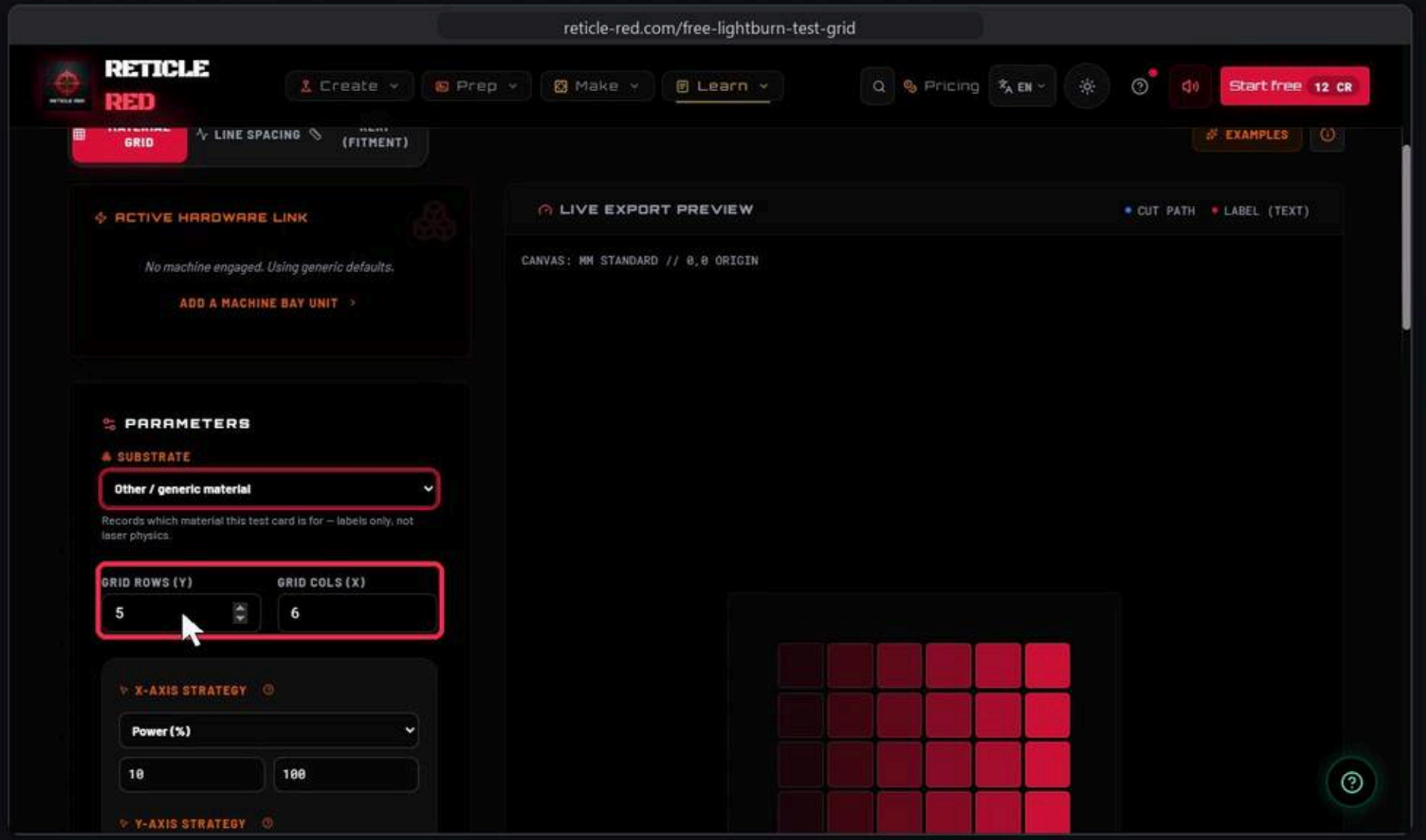
Names the card and the file only.

Not listed? Other / generic material.

CLOSE-UP



A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 3 OF 10

Rows and columns

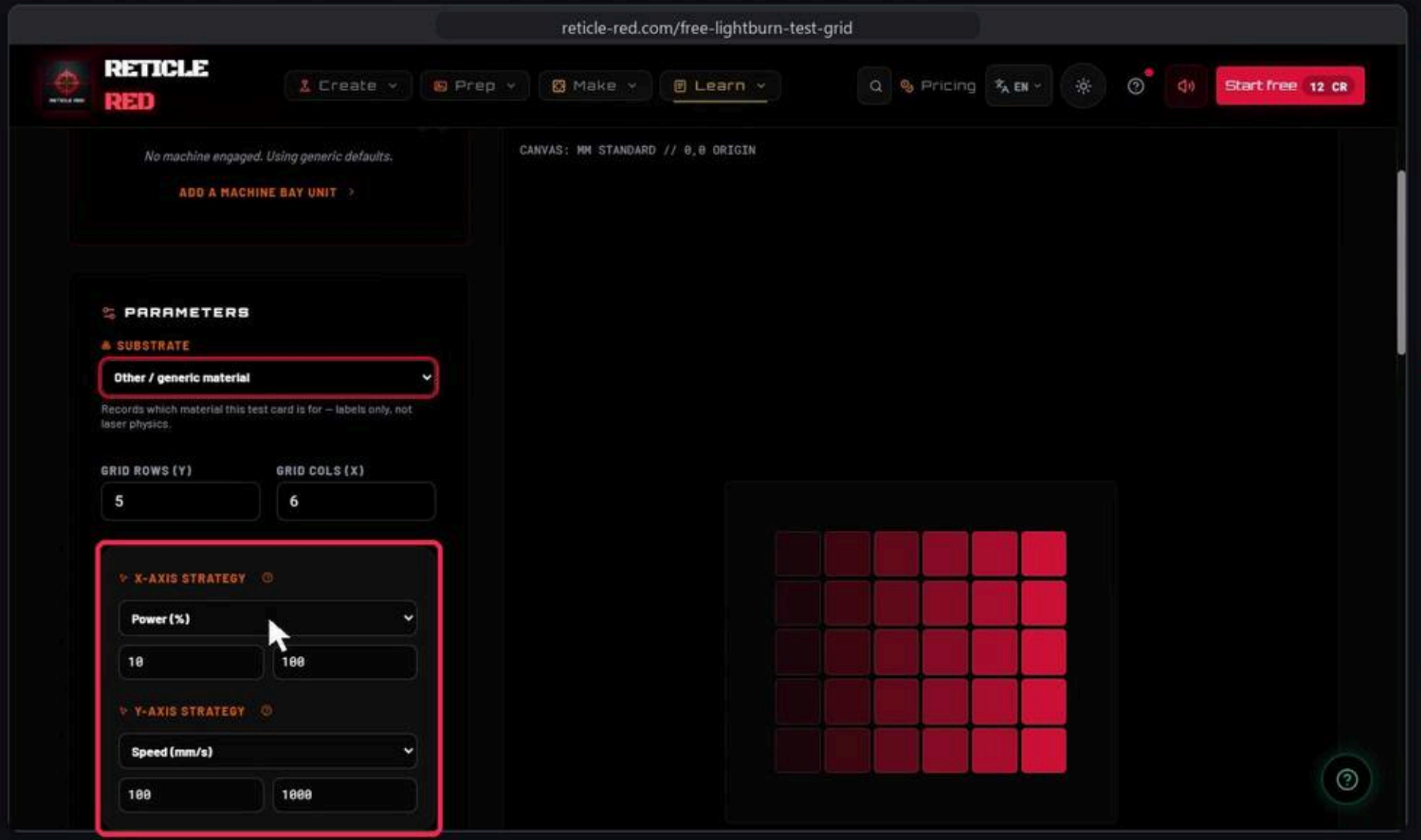
Default 5 × 6 = 30 cells: the limit,

one LightBurn layer per cell.

CLOSE-UP



A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



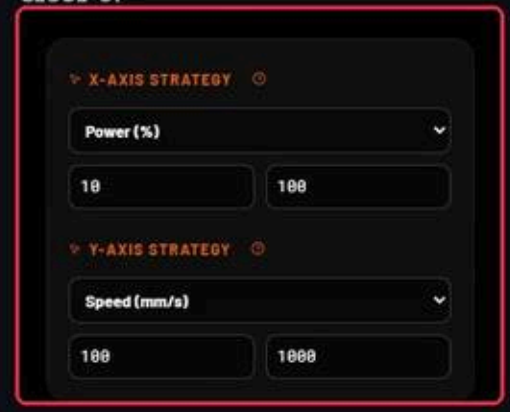
STEP 4 OF 10

What each axis sweeps

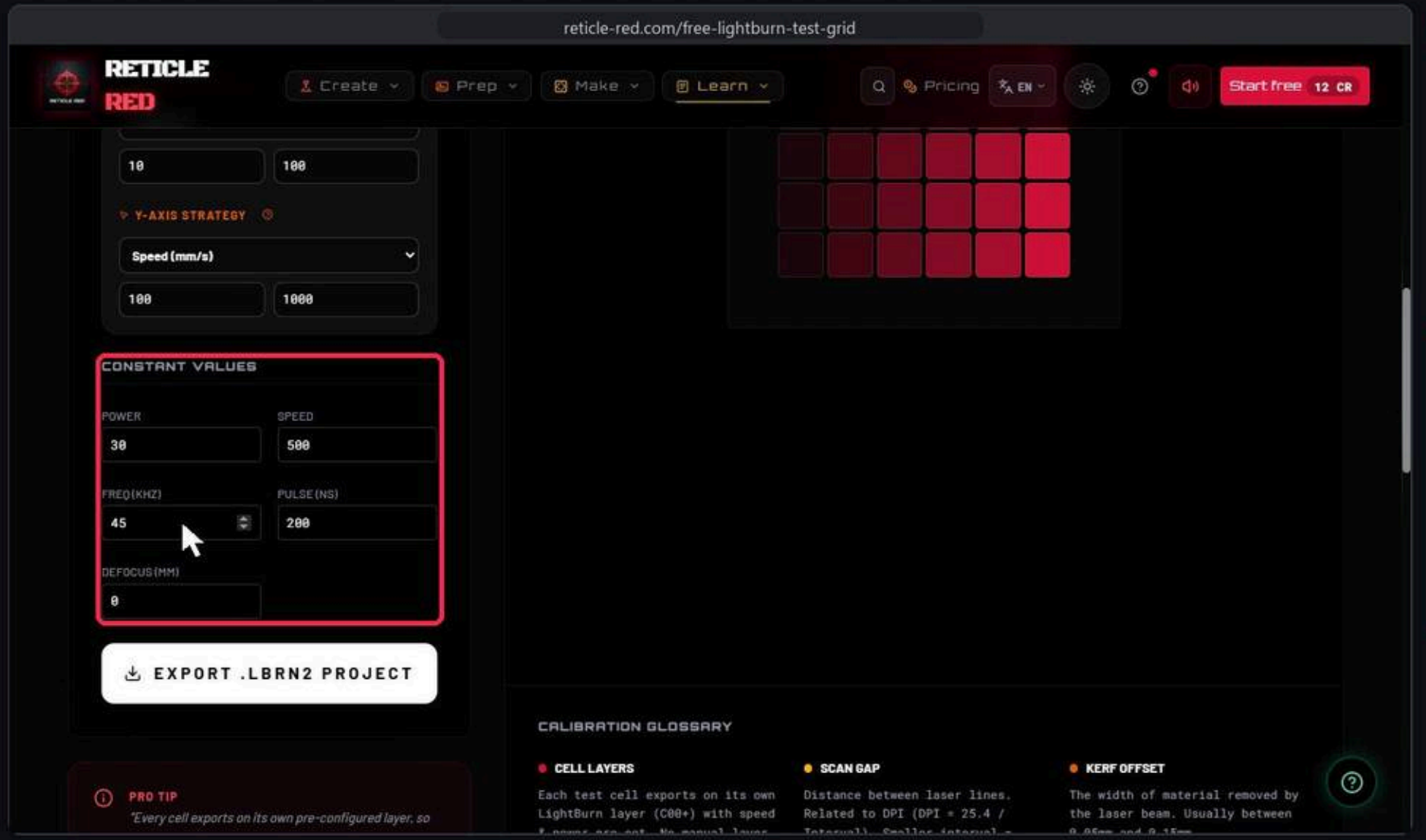
X: power 10 → 100 % across the columns.

Y: speed 100 → 1000 mm/s down the rows.

CLOSE-UP



A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 5 OF 10

Constant Values

Used by every setting that is not on an axis:

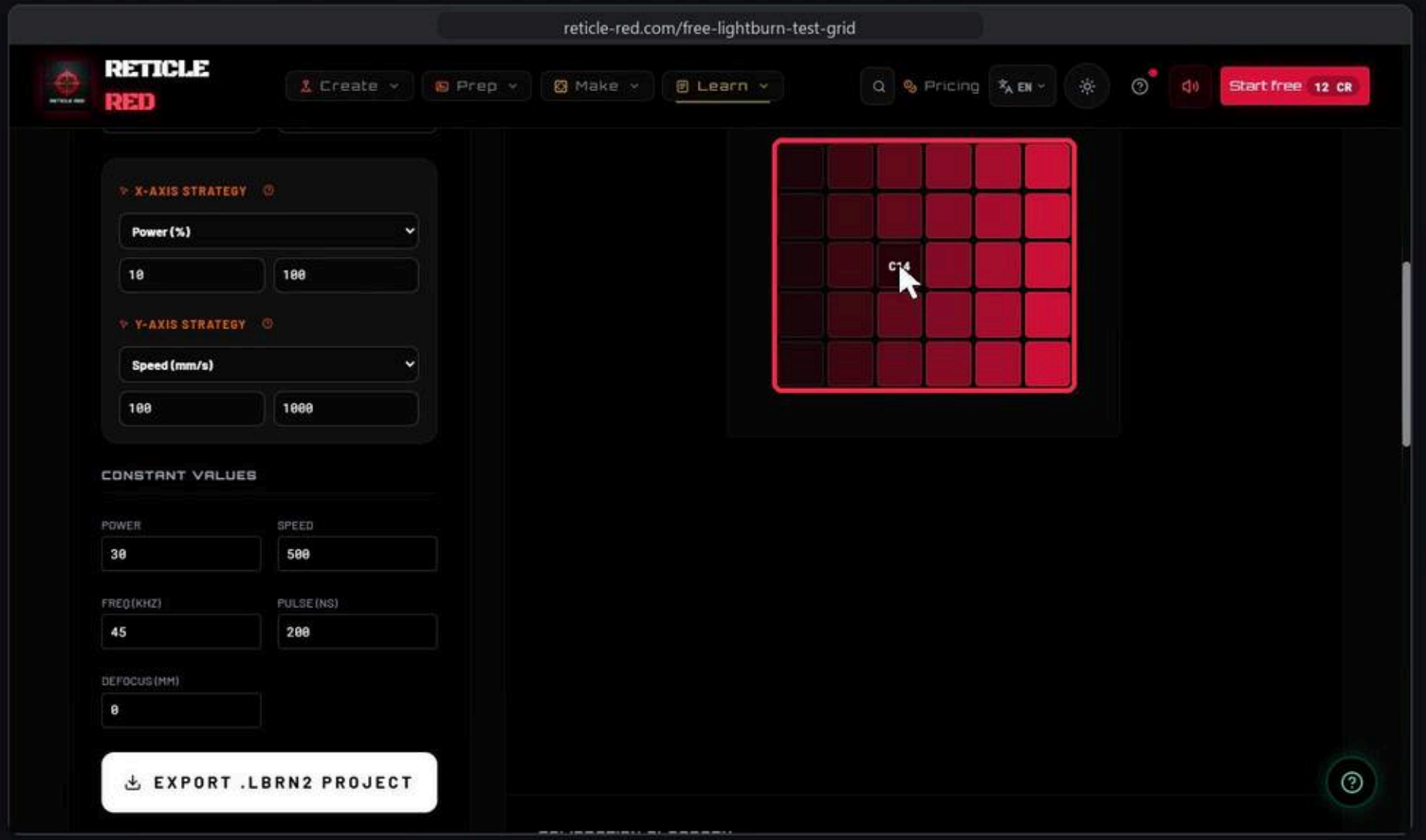
here frequency, pulse width and defocus.

CLOSE-UP



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A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export

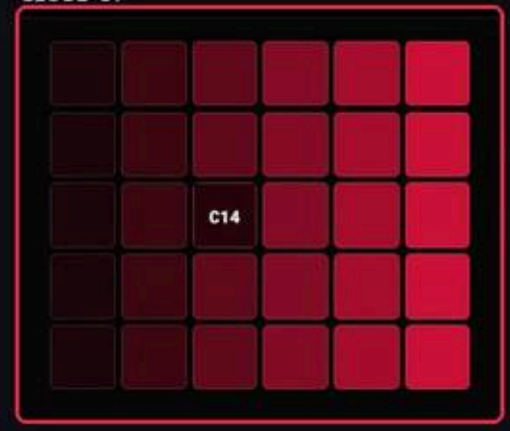


STEP 6 OF 10

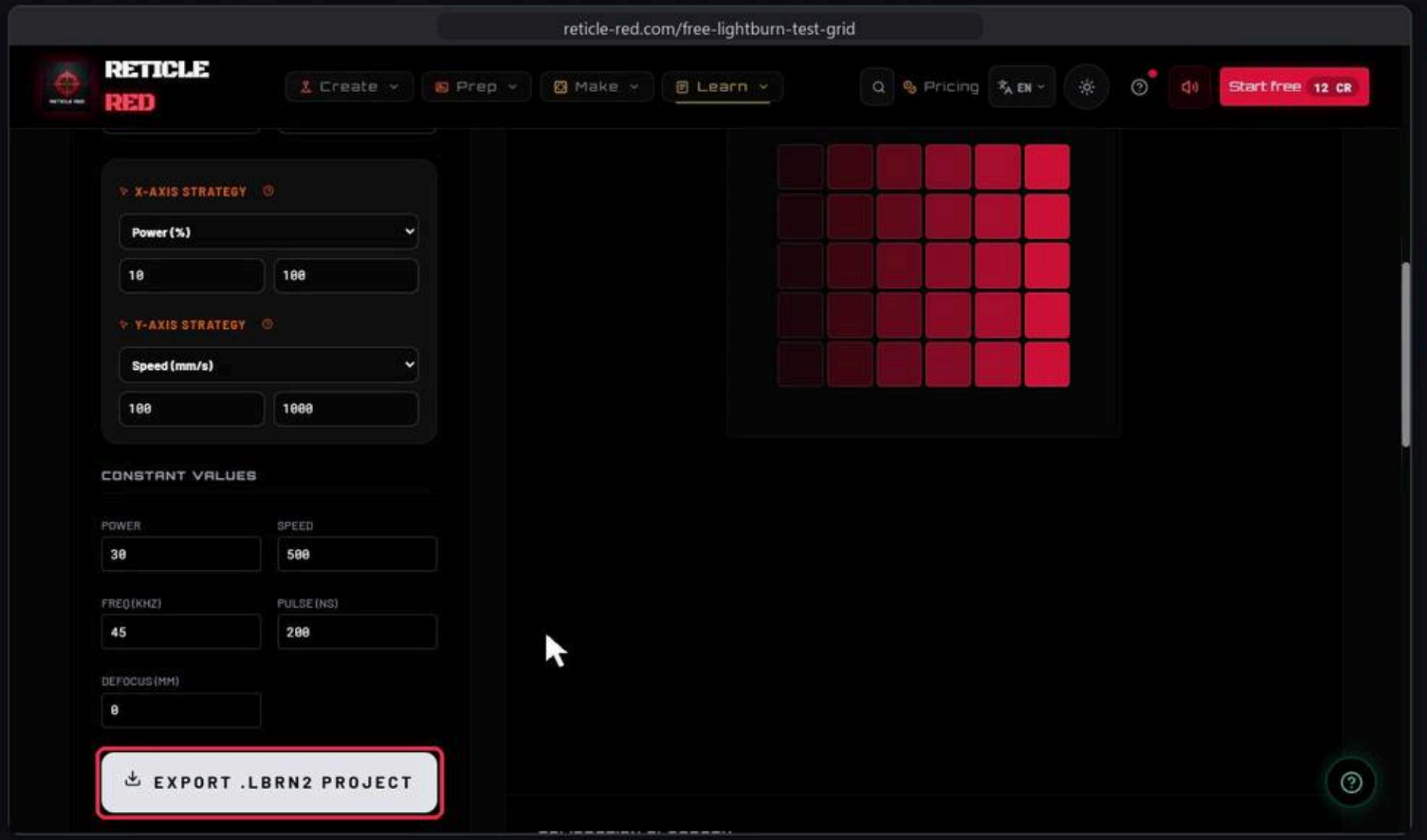
Live Export Preview

Hover a square for its layer: C00 … C29.

CLOSE-UP



A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 7 OF 10

Export .lbrn2 Project

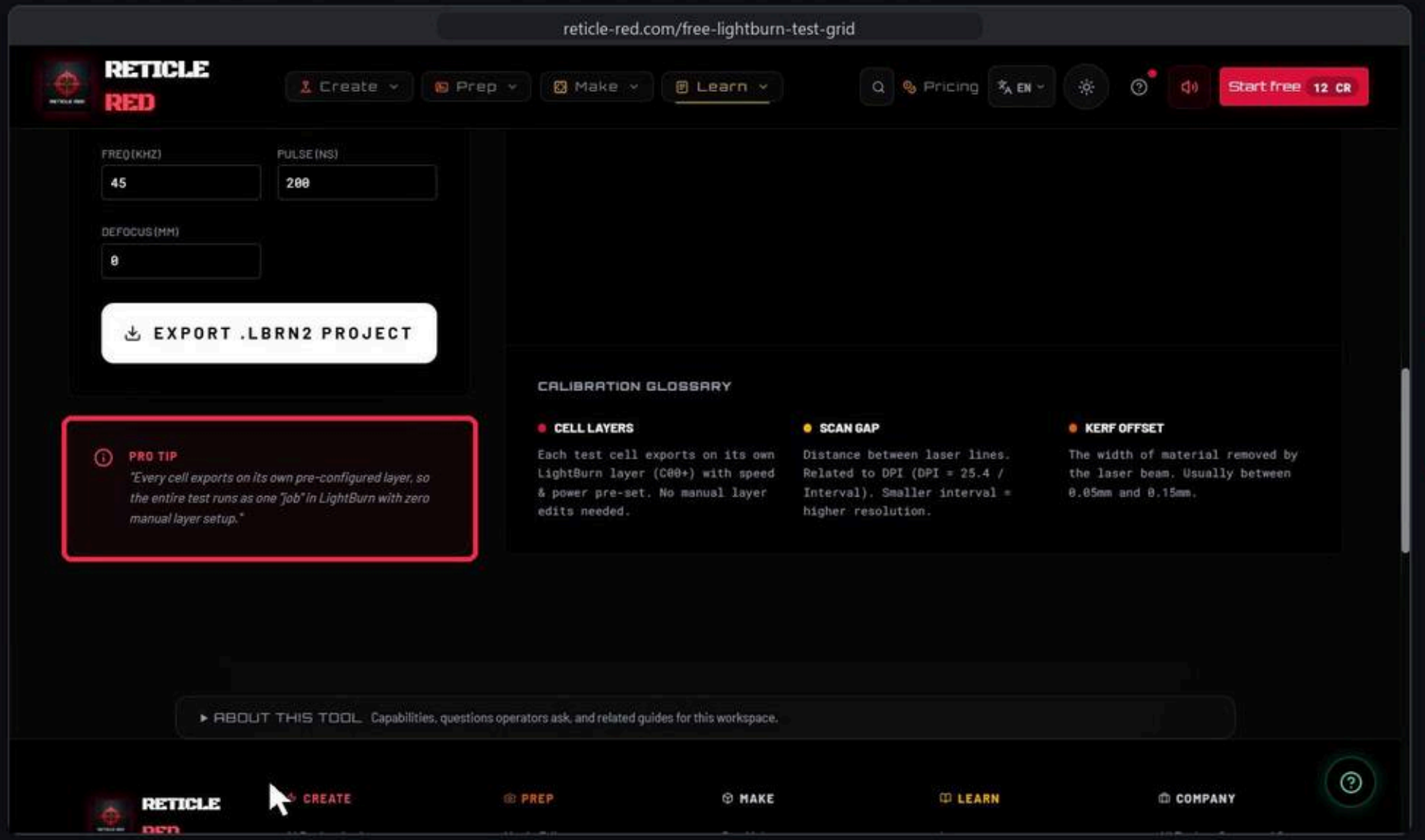
The LightBurn project file downloads at once.

CLOSE-UP



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A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 8 OF 10

Inside the file

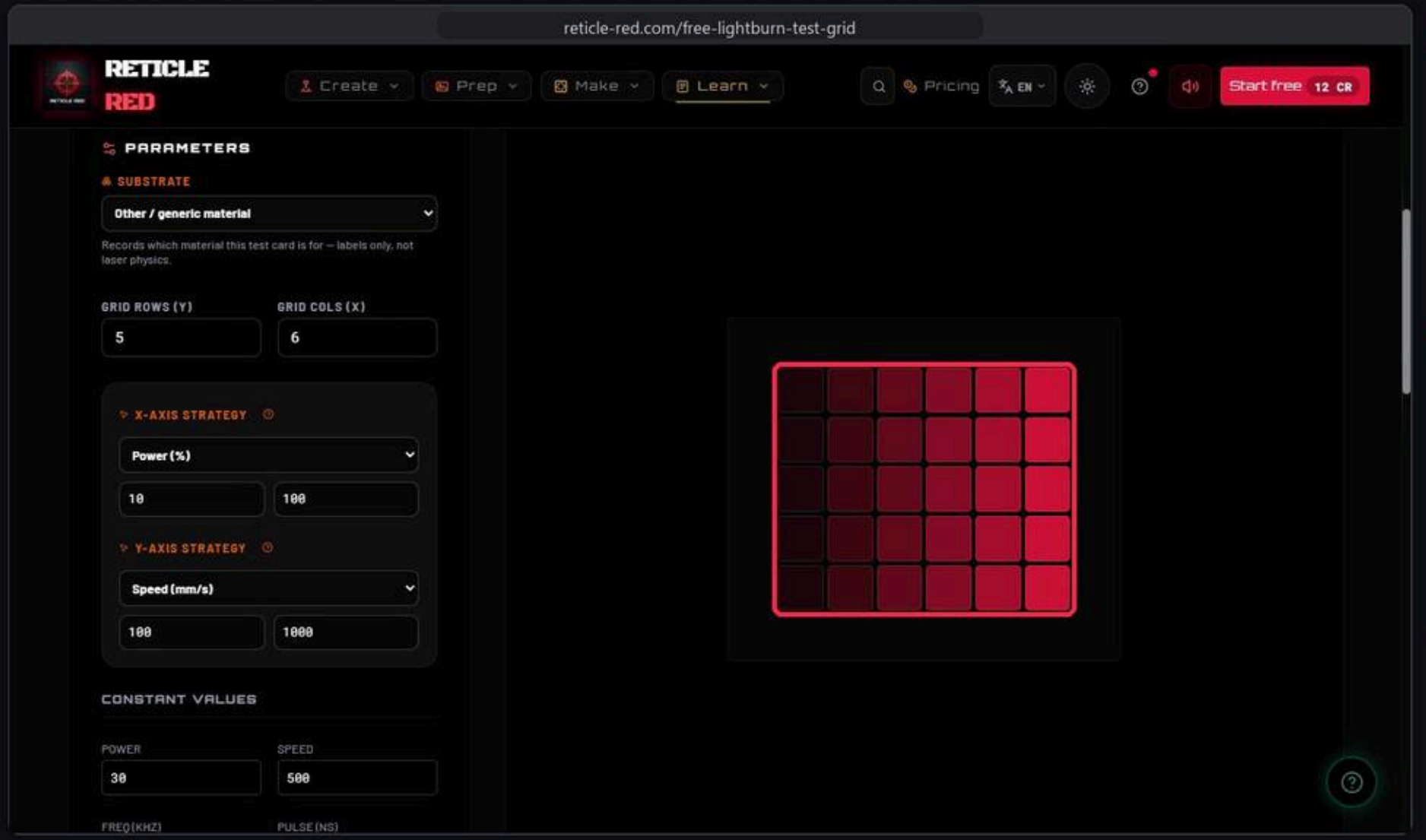
30 Scan layers, C00 to C29, each with its own power and speed.

Labels on the T1 tool layer: on screen, never burned.

CLOSE-UP



A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



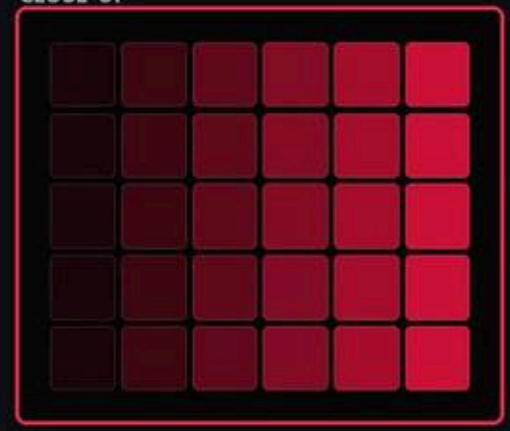
STEP 9 OF 10

Burn and read

Burn on scrap. The cleanest cell is your setting:

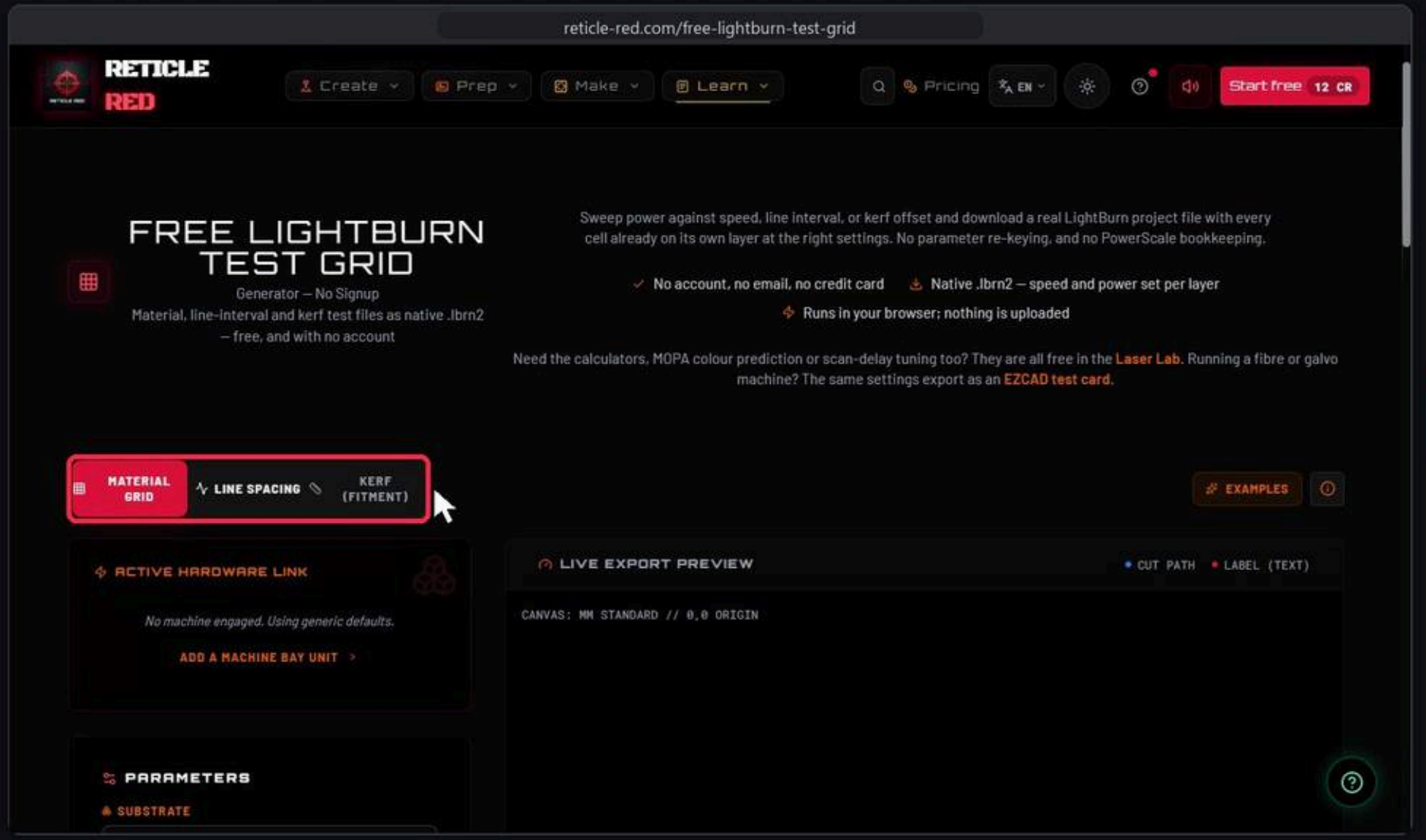
read its row and column back to speed and power.

CLOSE-UP



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A power and speed grid — Test type, substrate, axes, preview and the .lbrn2 export



STEP 10 OF 10

Line Spacing and Kerf

Line Spacing: fills from fine to coarse.

Kerf (Fitment): slotted blocks for a snug fit.

CLOSE-UP



Your test grid, ready to burn

Learn → Free LightBurn Test Grid

Free in your browser, no account needed.

More tutorials: reticle-red.com/tutorials

Narration: AI voice (ElevenLabs). Screens: the real reticle-red.com.