RETICLE RED TUTORIAL

Settings by Material

Every recipe in the library as plain tables, grouped by material. Free, no sign-in.

Recorded on the live site · tables · evidence · test grid

reticle-red.com/laser-settings-by-material

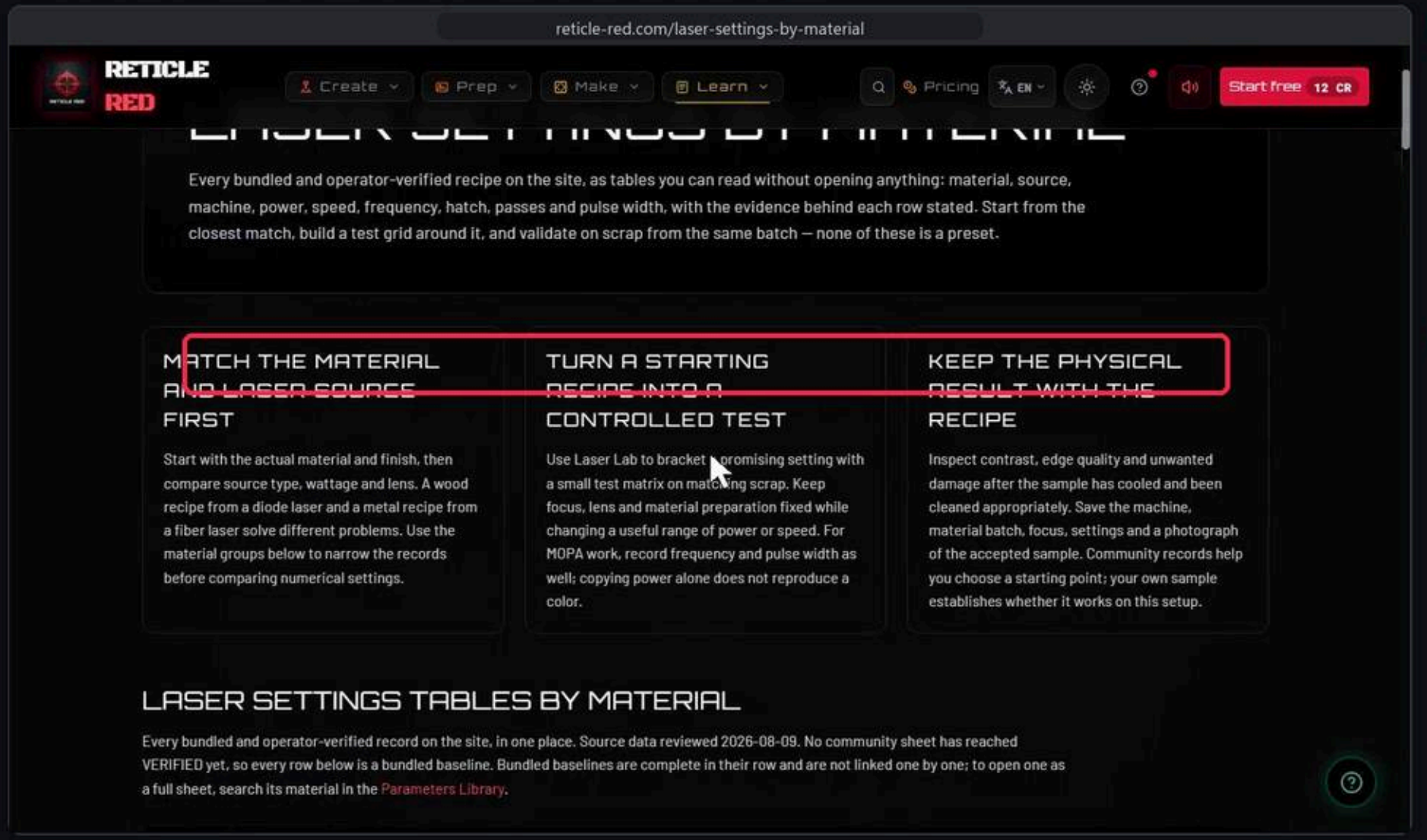
PART 1 OF 1

Read the tables

Jump to a material, read the evidence, build a test grid

RETICLE RED · SETTINGS BY MATERIAL TUTORIAL

Read the tables — Jump to a material, read the evidence, build a test grid



STEP 1 OF 9

Laser Settings by Material

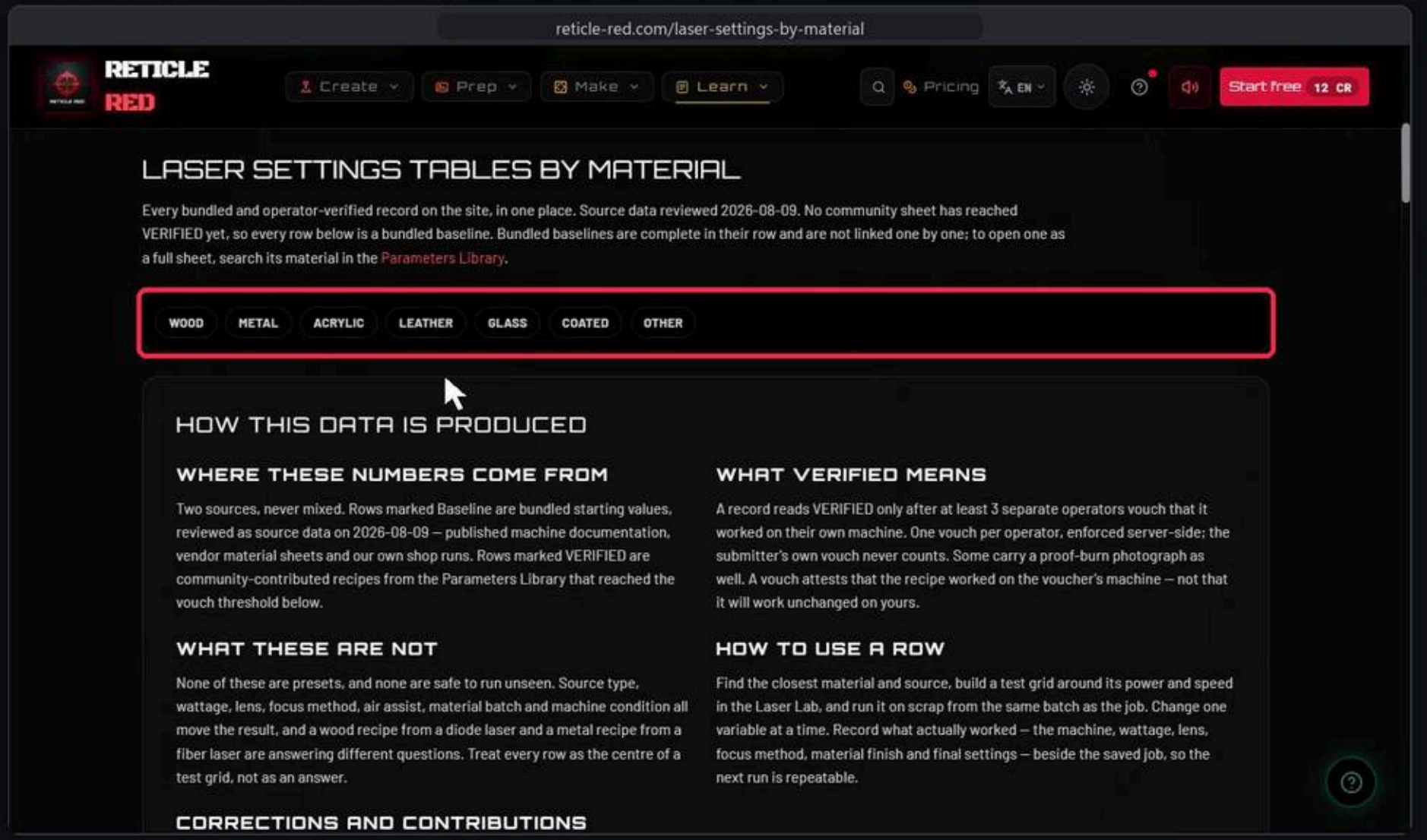
Every bundled and operator-verified recipe, as tables.

CLOSE-UP



RETICLE RED · SETTINGS BY MATERIAL TUTORIAL

Read the tables — Jump to a material, read the evidence, build a test grid



STEP 2 OF 9

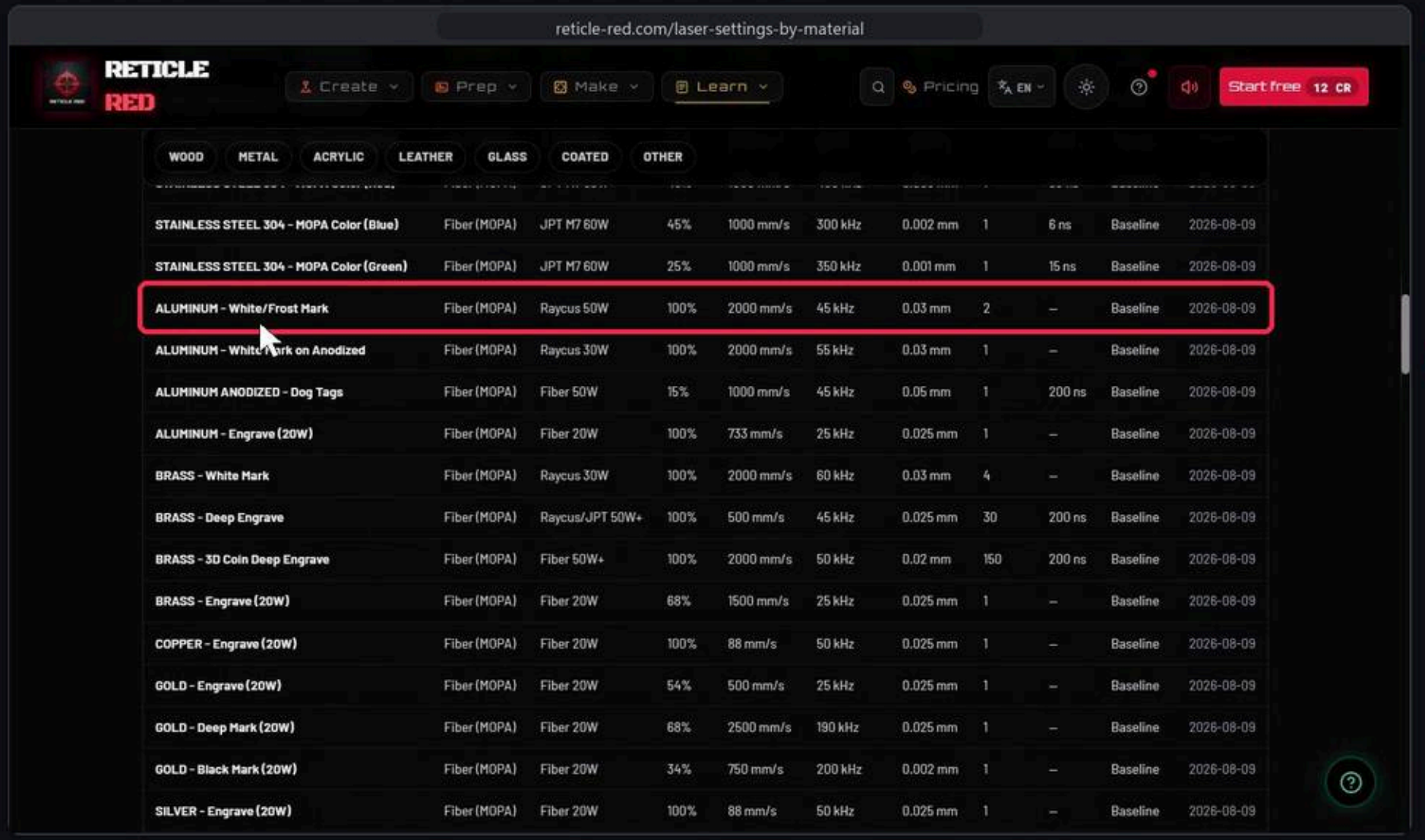
Jump to section

Wood, metal, acrylic, leather, glass, coated, other.

CLOSE-UP

RETICLE RED · SETTINGS BY MATERIAL TUTORIAL

Read the tables — Jump to a material, read the evidence, build a test grid



STEP 3 OF 9

One table per material

Material, source, machine, power, speed, frequency,

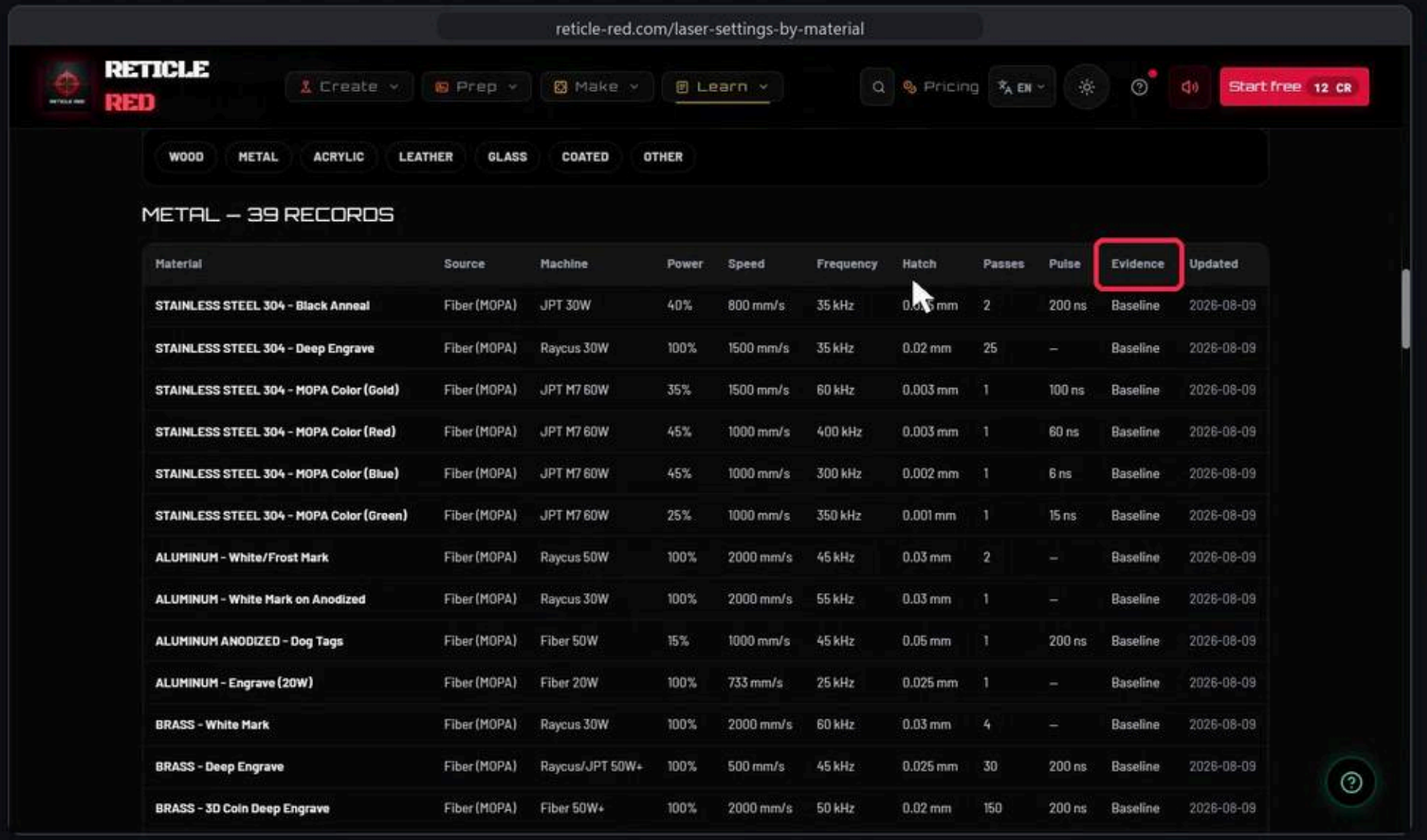
hatch, passes and pulse width.

CLOSE-UP



RETICLE RED · SETTINGS BY MATERIAL TUTORIAL

Read the tables — Jump to a material, read the evidence, build a test grid



Material	Source	Machine	Power	Speed	Frequency	Hatch	Passes	Pulse	Evidence	Updated
STAINLESS STEEL 304 - Black Anneal	Fiber (MOPA)	JPT 30W	40%	800 mm/s	35 kHz	0.0[illegible] mm	2	200 ns	Baseline	2026-08-09
STAINLESS STEEL 304 - Deep Engrave	Fiber (MOPA)	Raycus 30W	100%	1500 mm/s	35 kHz	0.02 mm	25	–	Baseline	2026-08-09
STAINLESS STEEL 304 - MOPA Color (Gold)	Fiber (MOPA)	JPT M7 60W	35%	1500 mm/s	60 kHz	0.003 mm	1	100 ns	Baseline	2026-08-09
STAINLESS STEEL 304 - MOPA Color (Red)	Fiber (MOPA)	JPT M7 60W	45%	1000 mm/s	400 kHz	0.003 mm	1	60 ns	Baseline	2026-08-09
STAINLESS STEEL 304 - MOPA Color (Blue)	Fiber (MOPA)	JPT M7 60W	45%	1000 mm/s	300 kHz	0.002 mm	1	6 ns	Baseline	2026-08-09
STAINLESS STEEL 304 - MOPA Color (Green)	Fiber (MOPA)	JPT M7 60W	25%	1000 mm/s	350 kHz	0.001 mm	1	15 ns	Baseline	2026-08-09
ALUMINUM - White/Frost Mark	Fiber (MOPA)	Raycus 50W	100%	2000 mm/s	45 kHz	0.03 mm	2	–	Baseline	2026-08-09
ALUMINUM - White Mark on Anodized	Fiber (MOPA)	Raycus 30W	100%	2000 mm/s	55 kHz	0.03 mm	1	–	Baseline	2026-08-09
ALUMINUM ANODIZED - Dog Tags	Fiber (MOPA)	Fiber 50W	15%	1000 mm/s	45 kHz	0.05 mm	1	200 ns	Baseline	2026-08-09
ALUMINUM - Engrave (20W)	Fiber (MOPA)	Fiber 20W	100%	733 mm/s	25 kHz	0.025 mm	1	–	Baseline	2026-08-09
BRASS - White Mark	Fiber (MOPA)	Raycus 30W	100%	2000 mm/s	60 kHz	0.03 mm	4	–	Baseline	2026-08-09
BRASS - Deep Engrave	Fiber (MOPA)	Raycus/JPT 50W+	100%	500 mm/s	45 kHz	0.025 mm	30	200 ns	Baseline	2026-08-09
BRASS - 3D Coin Deep Engrave	Fiber (MOPA)	Fiber 50W+	100%	2000 mm/s	50 kHz	0.02 mm	150	200 ns	Baseline	2026-08-09

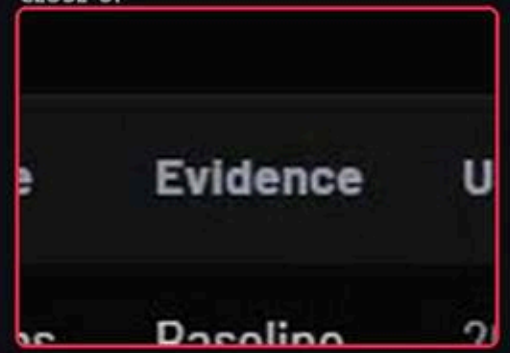
STEP 4 OF 9

Evidence and date

Baseline rows: bundled starting values.

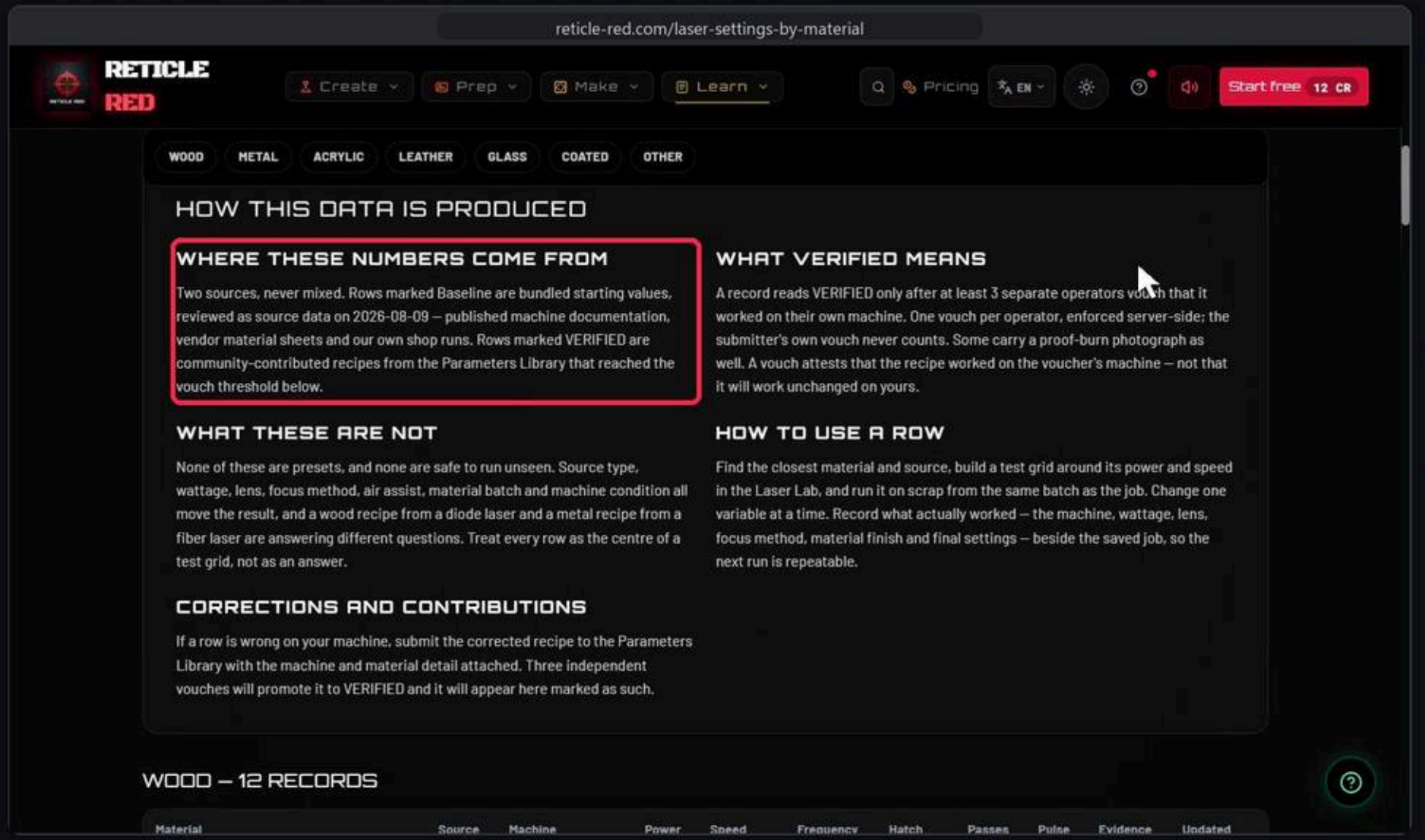
VERIFIED: three operators vouched.

CLOSE-UP



RETICLE RED · SETTINGS BY MATERIAL TUTORIAL

Read the tables — Jump to a material, read the evidence, build a test grid



STEP 5 OF 9

Where the numbers come from

Machine documentation, vendor material sheets

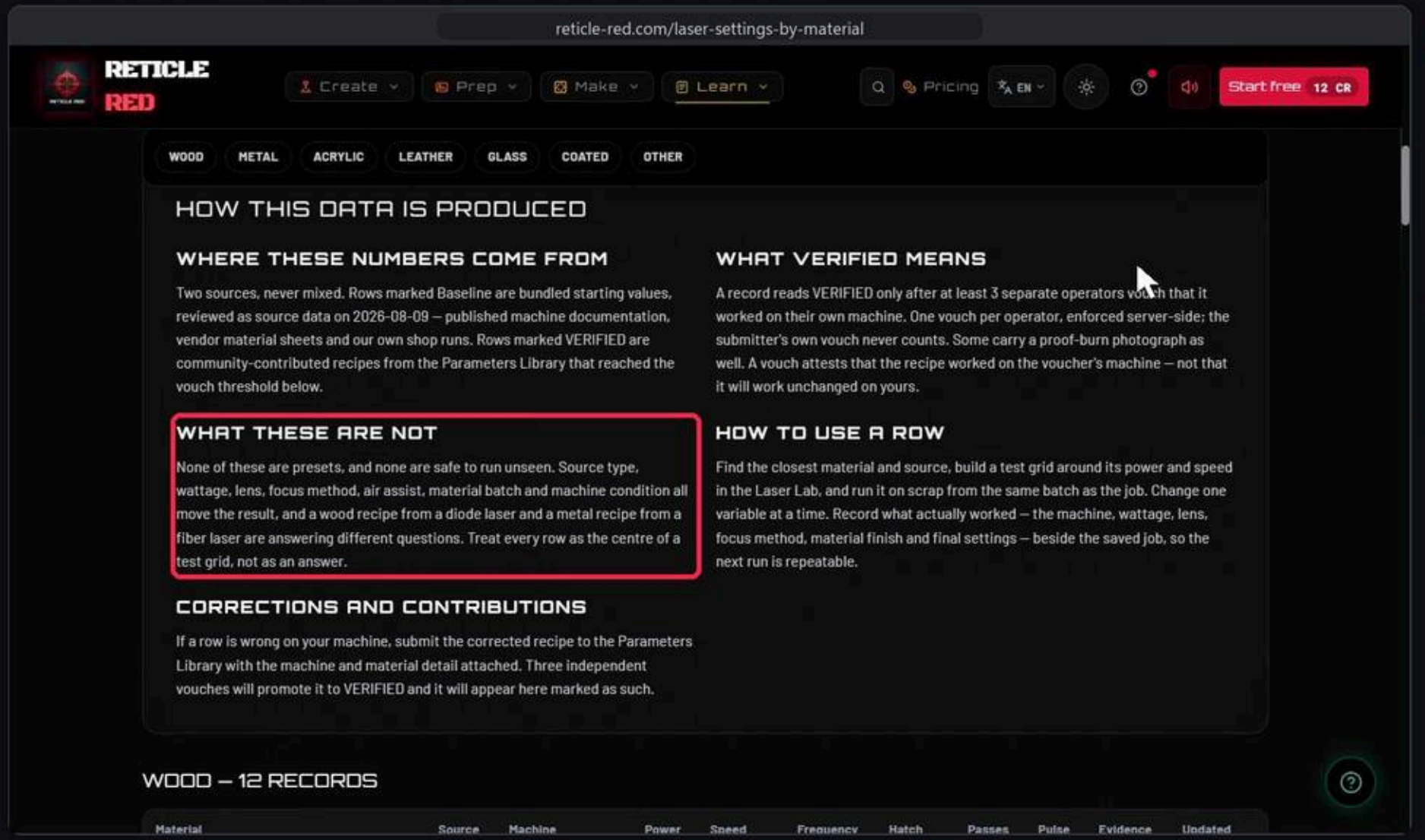
and our own shop runs.

CLOSE-UP

WHERE THESE NUMBERS COME FROM

Two sources, never mixed. Rows marked Baseline are bundled starting values, reviewed as source data on 2026-08-09 — published machine documentation, vendor material sheets and our own shop runs. Rows marked VERIFIED are community-contributed recipes from the Parameters Library that reached the vouch threshold below.

Read the tables — Jump to a material, read the evidence, build a test grid



STEP 6 OF 9

What these are not

None of these are presets.

Treat every row as the centre of a test grid.

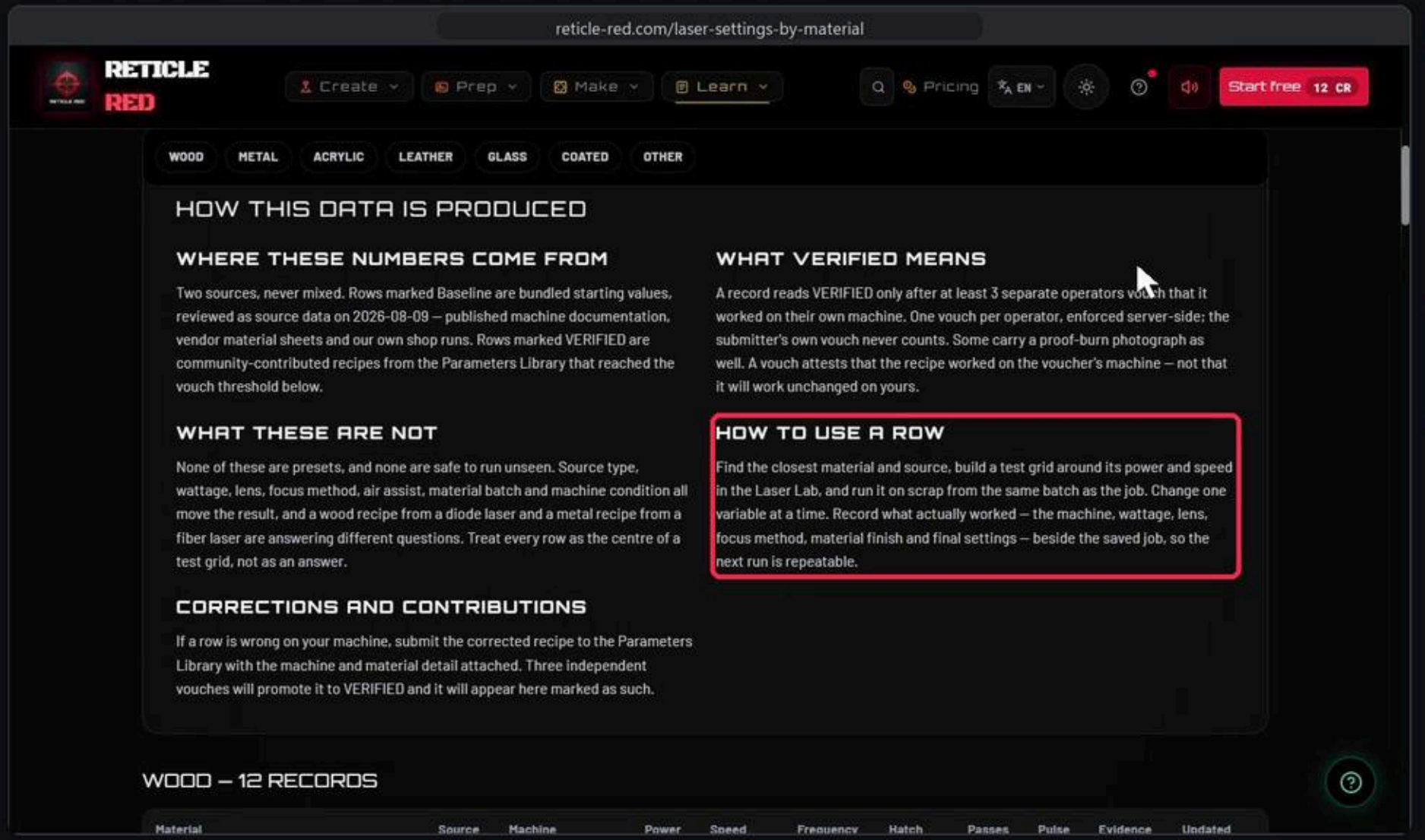
CLOSE-UP

WHAT THESE ARE NOT

None of these are presets, and none are safe to run unseen. Source type, wattage, lens, focus method, air assist, material batch and machine condition all move the result, and a wood recipe from a diode laser and a metal recipe from a fiber laser are answering different questions. Treat every row as the centre of a test grid, not as an answer.

RETICLE RED · SETTINGS BY MATERIAL TUTORIAL

Read the tables — Jump to a material, read the evidence, build a test grid



STEP 7 OF 9

How to use a row

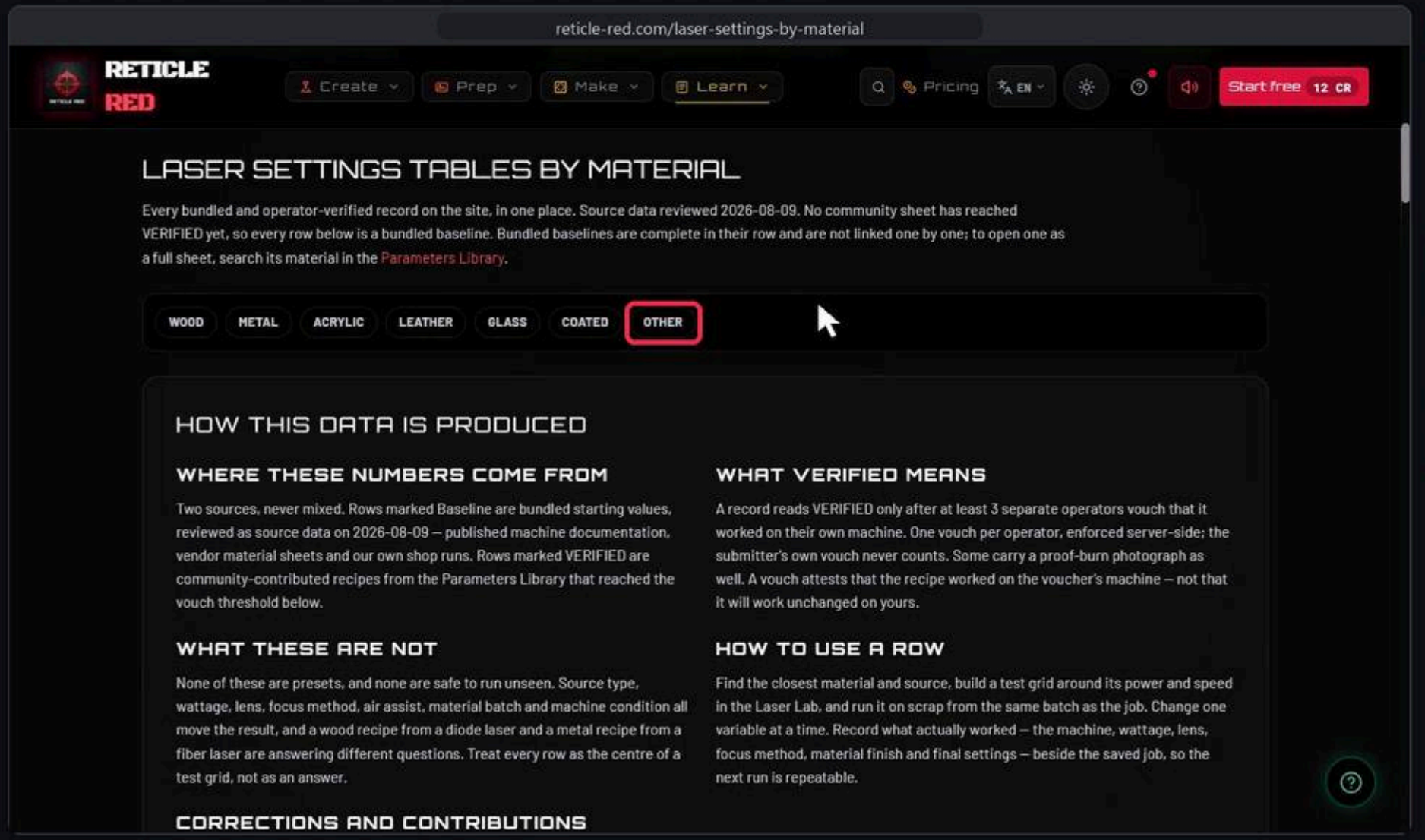
Closest match, test grid on scrap from the same batch,

one variable at a time.

CLOSE-UP

HOW TO USE A ROW

Find the closest material and source, build a test grid around its power and speed in the Laser Lab, and run it on scrap from the same batch as the job. Change one variable at a time. Record what actually worked — the machine, wattage, lens, focus method, material finish and final settings — beside the saved job, so the next run is repeatable.

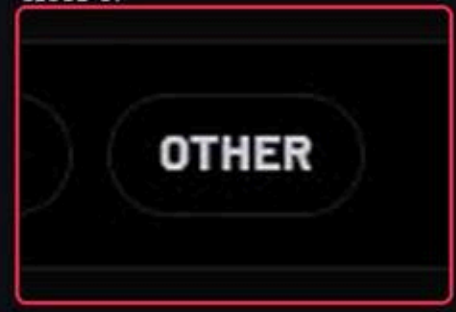


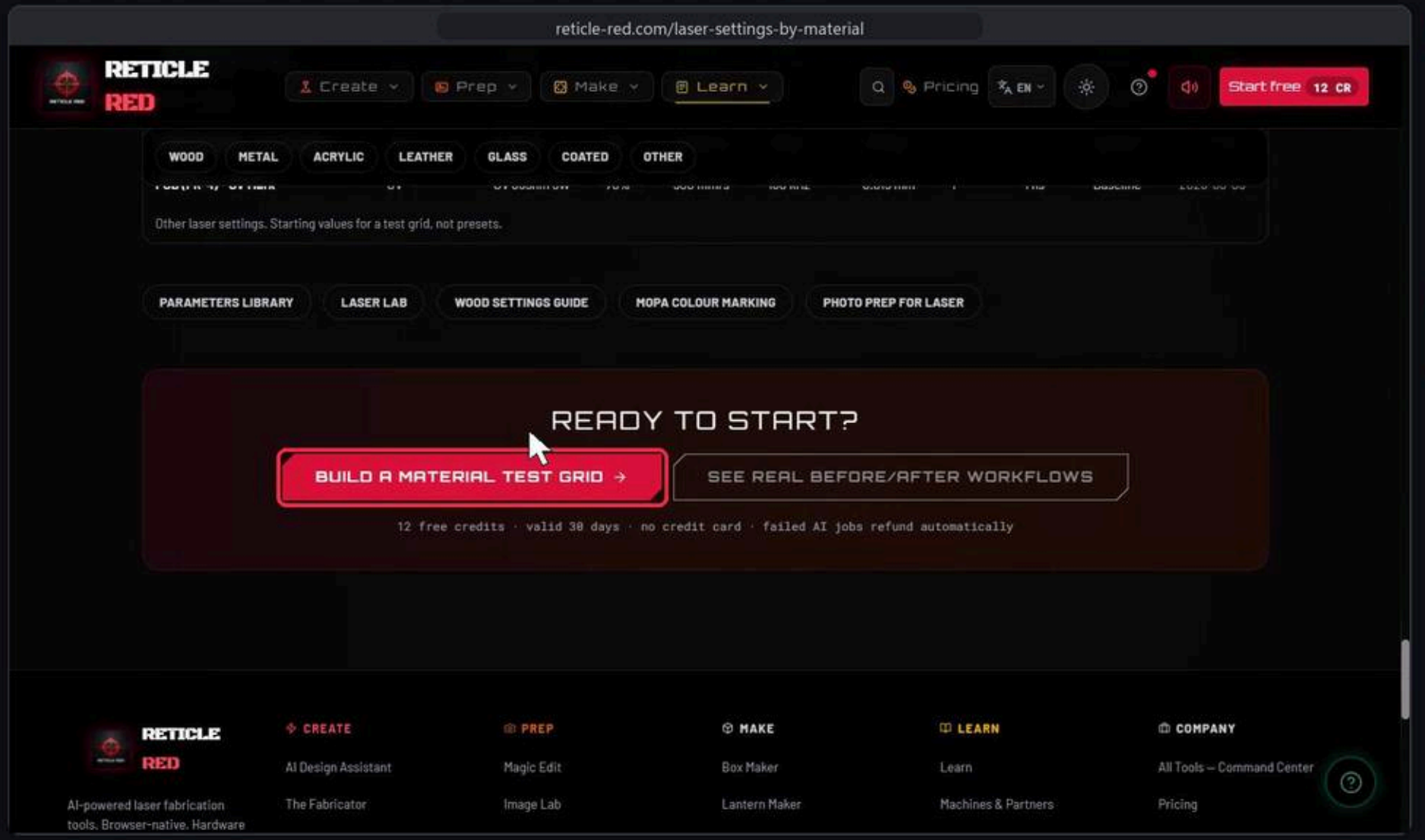
STEP 8 OF 9

Other materials

Delrin, slate, granite, rubber stamp, felt, PCB and more.

CLOSE-UP





STEP 9 OF 9

Build a material test grid

Opens Laser Lab > Material & Kerf Tests.

CLOSE-UP



Pick a row, then test it

Learn → Settings by Material

Free in your browser, no account needed.

More tutorials: reticle-red.com/tutorials

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