RETICLE RED TUTORIAL

V-Carve Text

Any text becomes an exact 16-bit depth map for V-bit carving. Free in your browser.

Recorded on the live site · the default name, a hardwood preset, a batch of names

reticle-red.com/v-carve-text

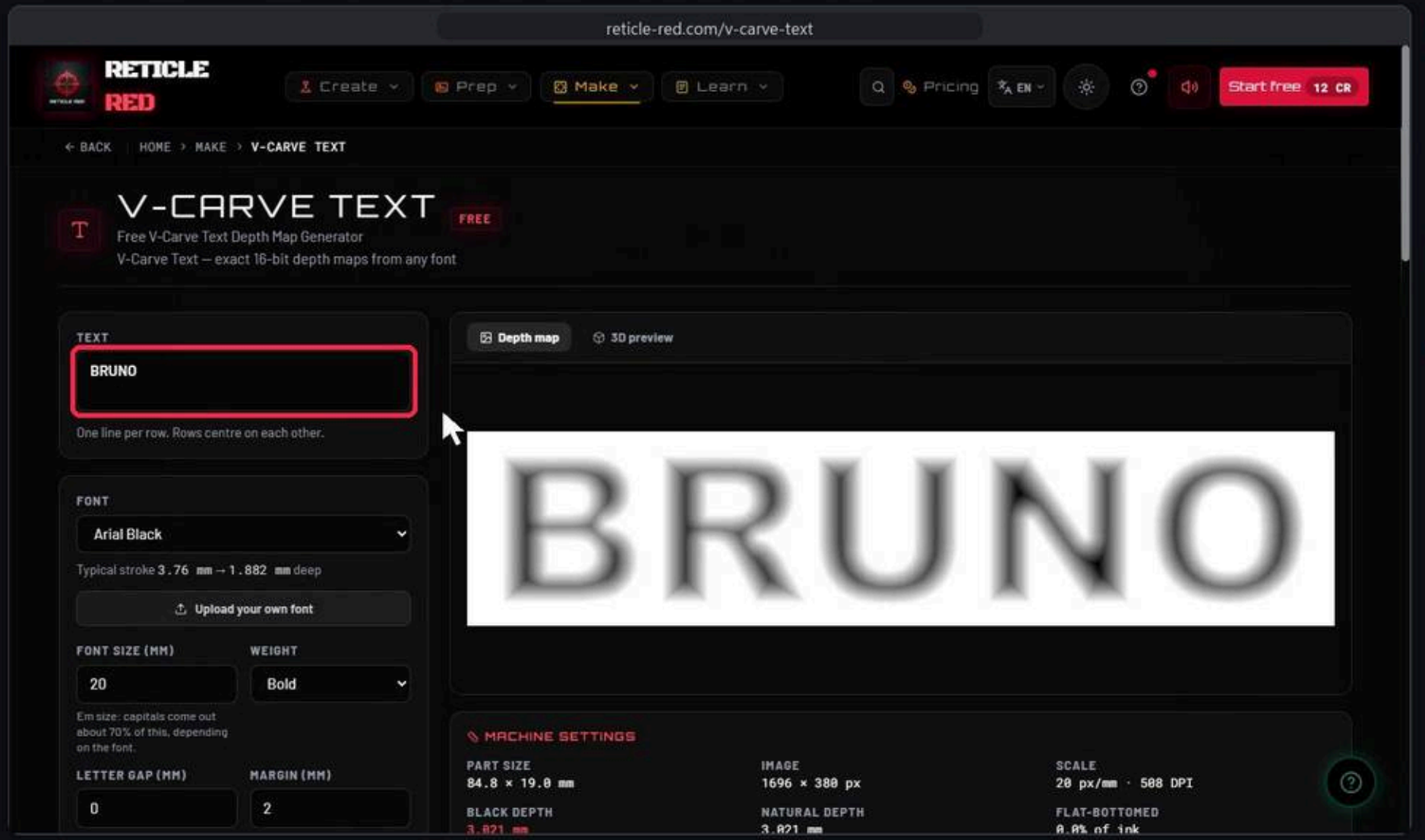
PART 1 OF 1

Text to depth map

Font, size, bit, preset, depth map, downloads and batch

RETICLE RED · V-CARVE TEXT TUTORIAL

Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 1 OF 10

Your text

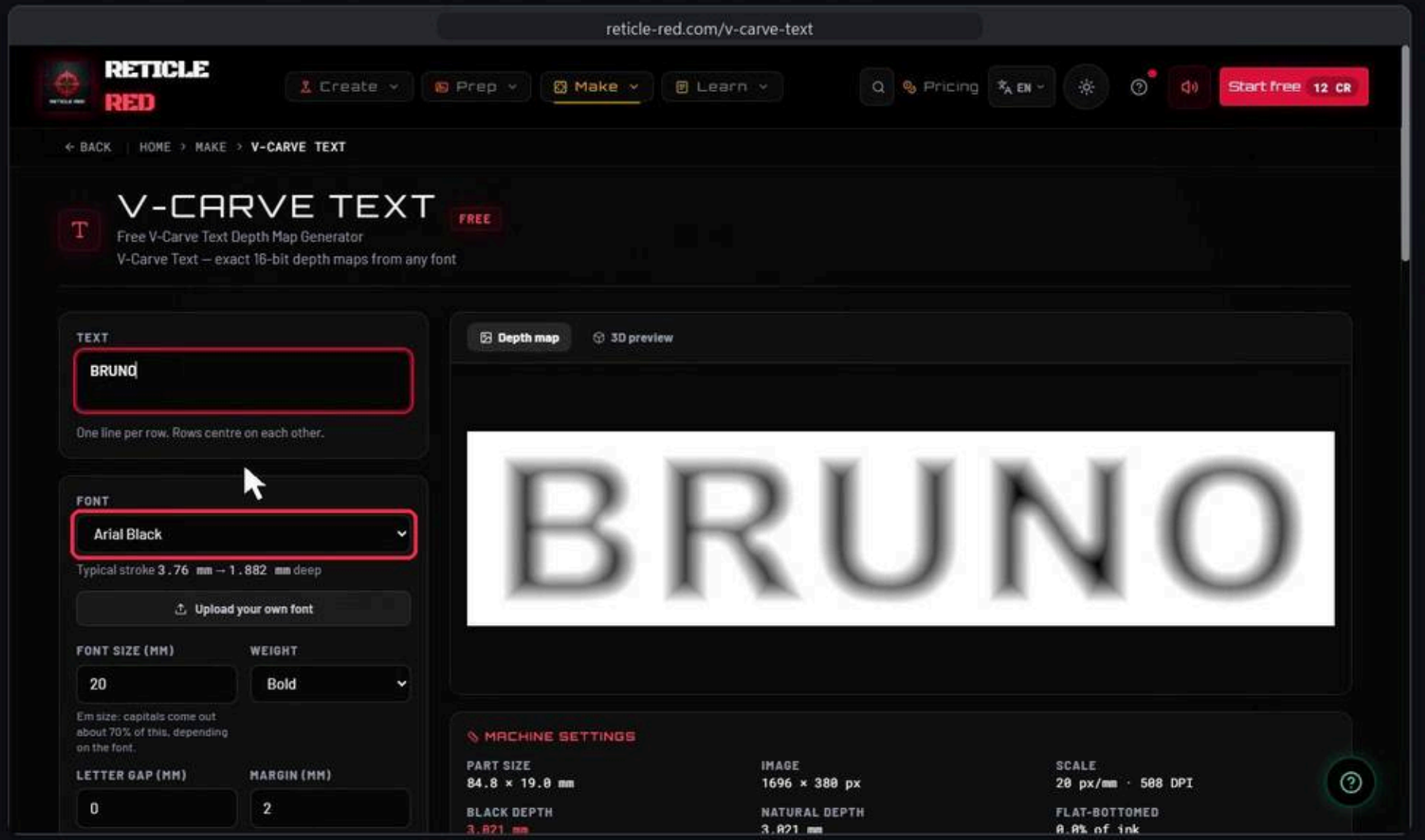
One line per row; the map redraws as you go.

CLOSE-UP

TEXT

BRUNO

Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 2 OF 10

Font

Pick one, or upload your own.

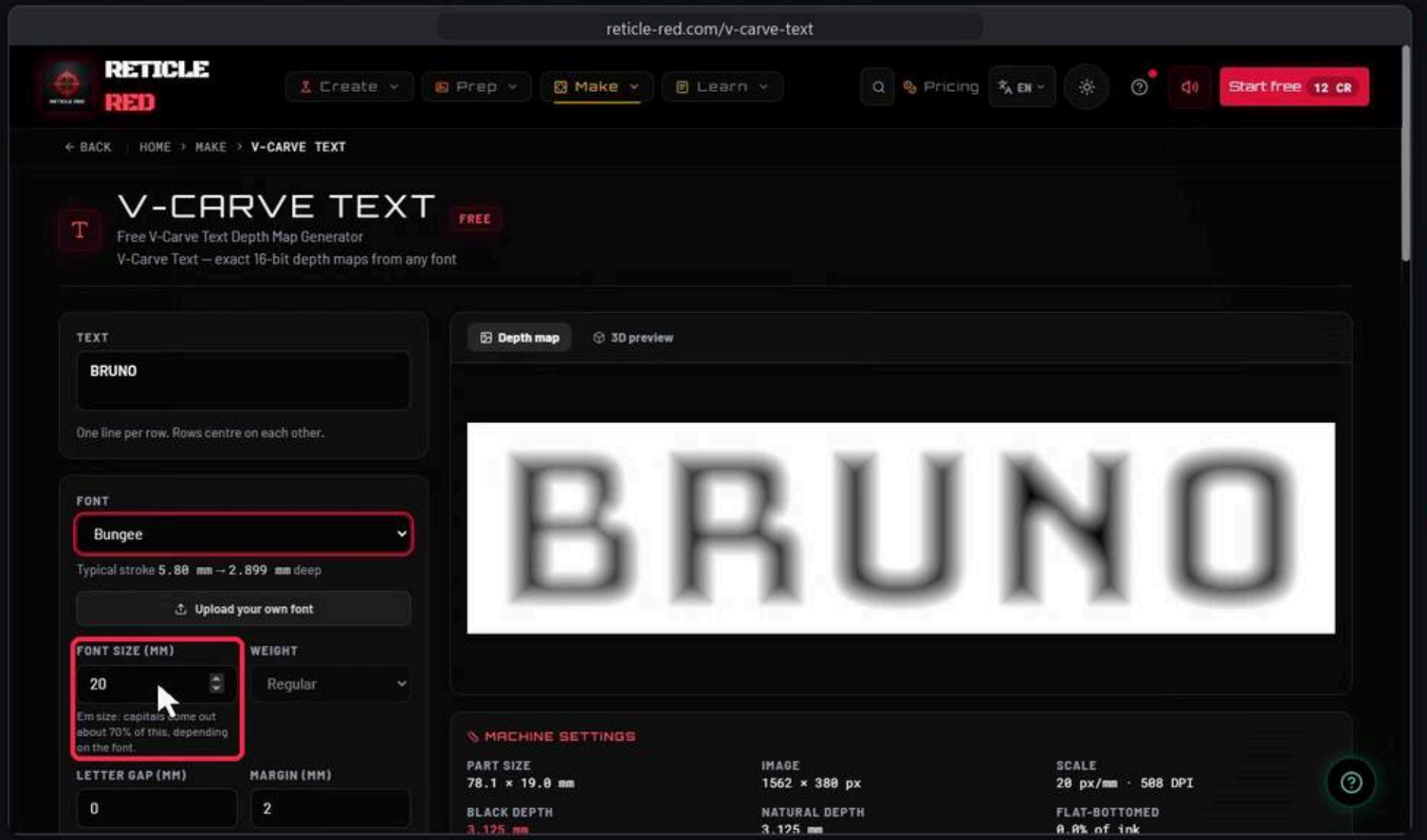
CLOSE-UP

FONT

Arial Black

Typical stroke 3.76 mm → 1.882 mm deep

Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 3 OF 10

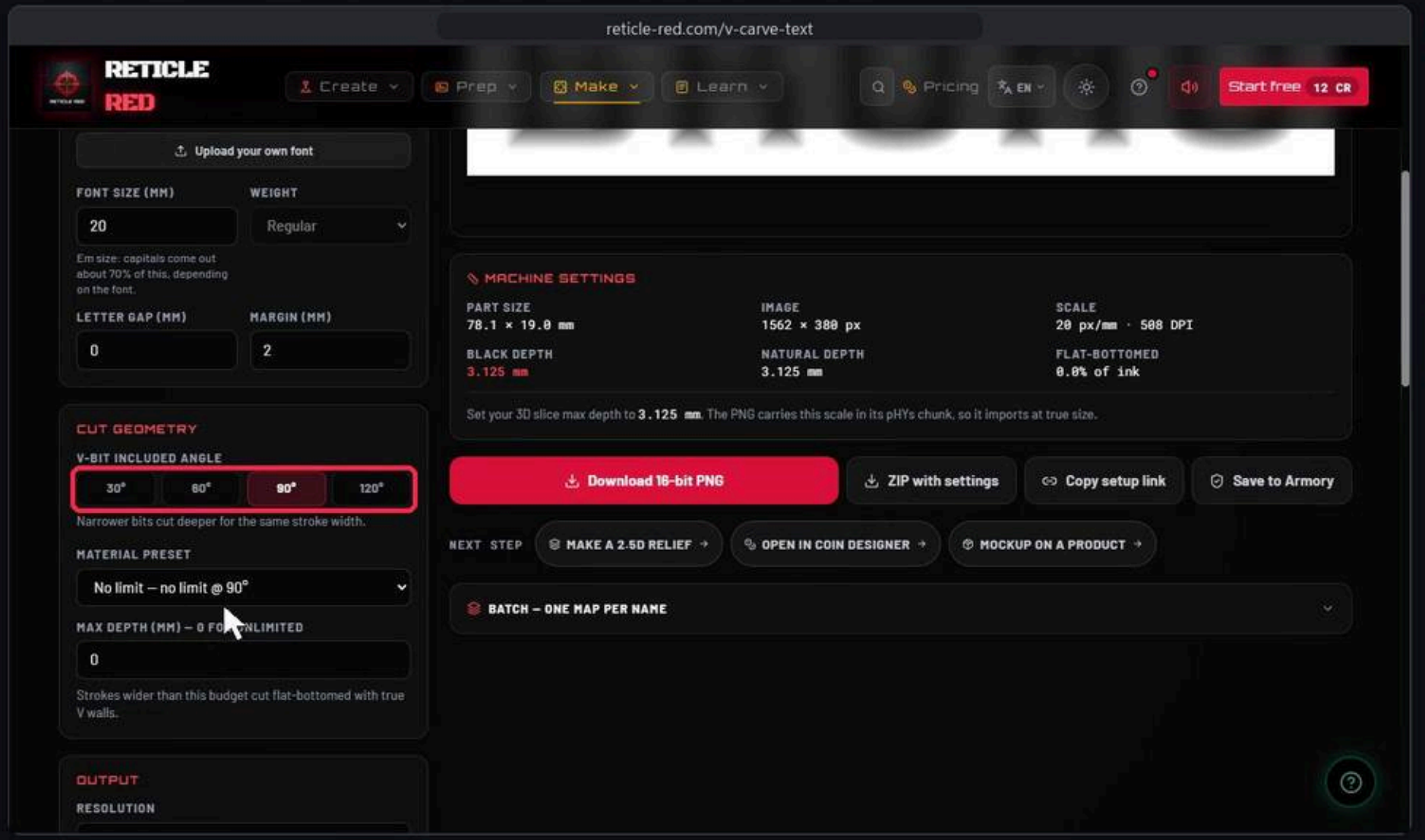
Font size (mm)

Em size: capitals ≈ 70% of it, depending on the font.

CLOSE-UP



Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 4 OF 10

V-bit included angle

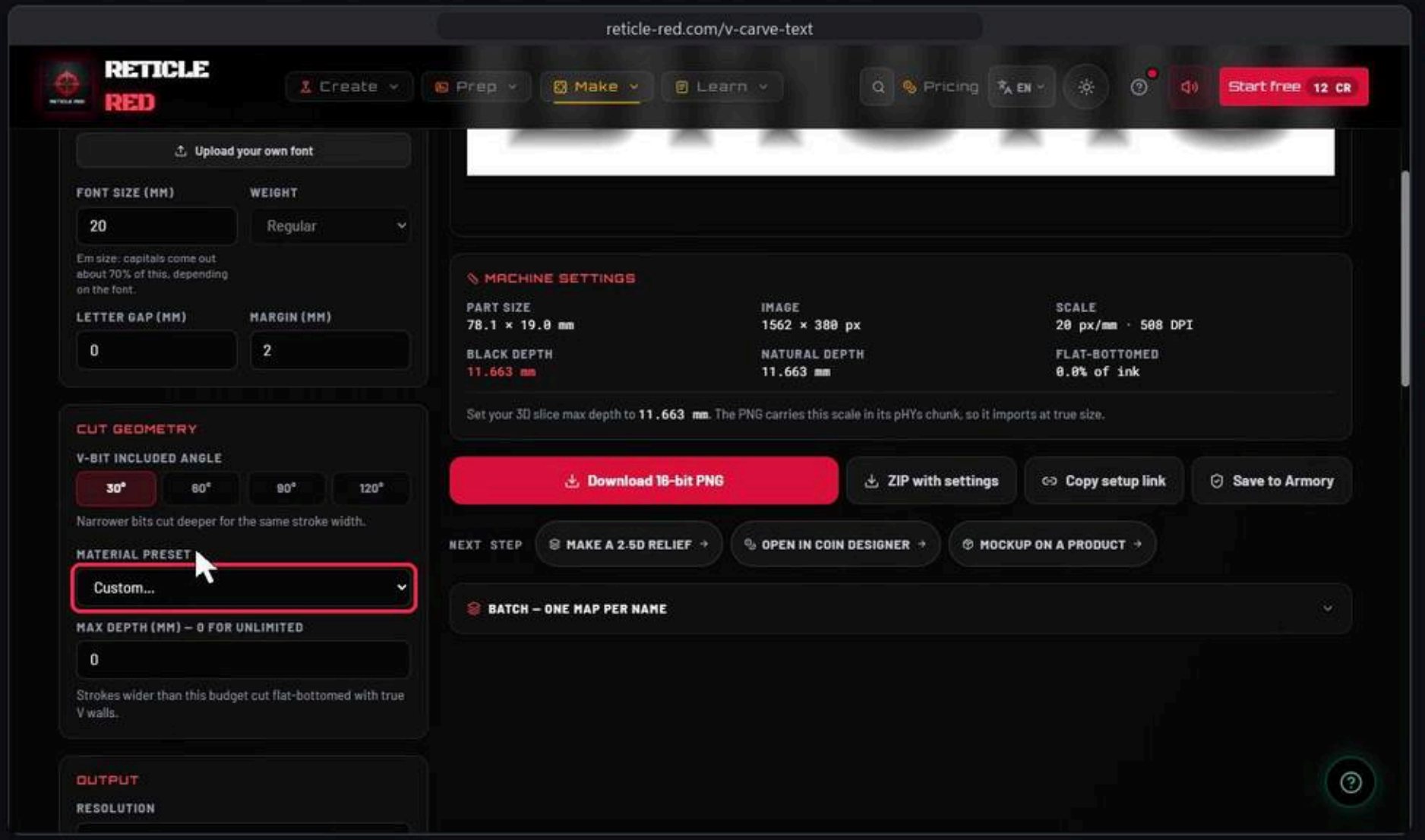
30° · 60° · 90° · 120°

Narrower bits cut deeper for the same stroke.

CLOSE-UP



Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 5 OF 10

Material preset

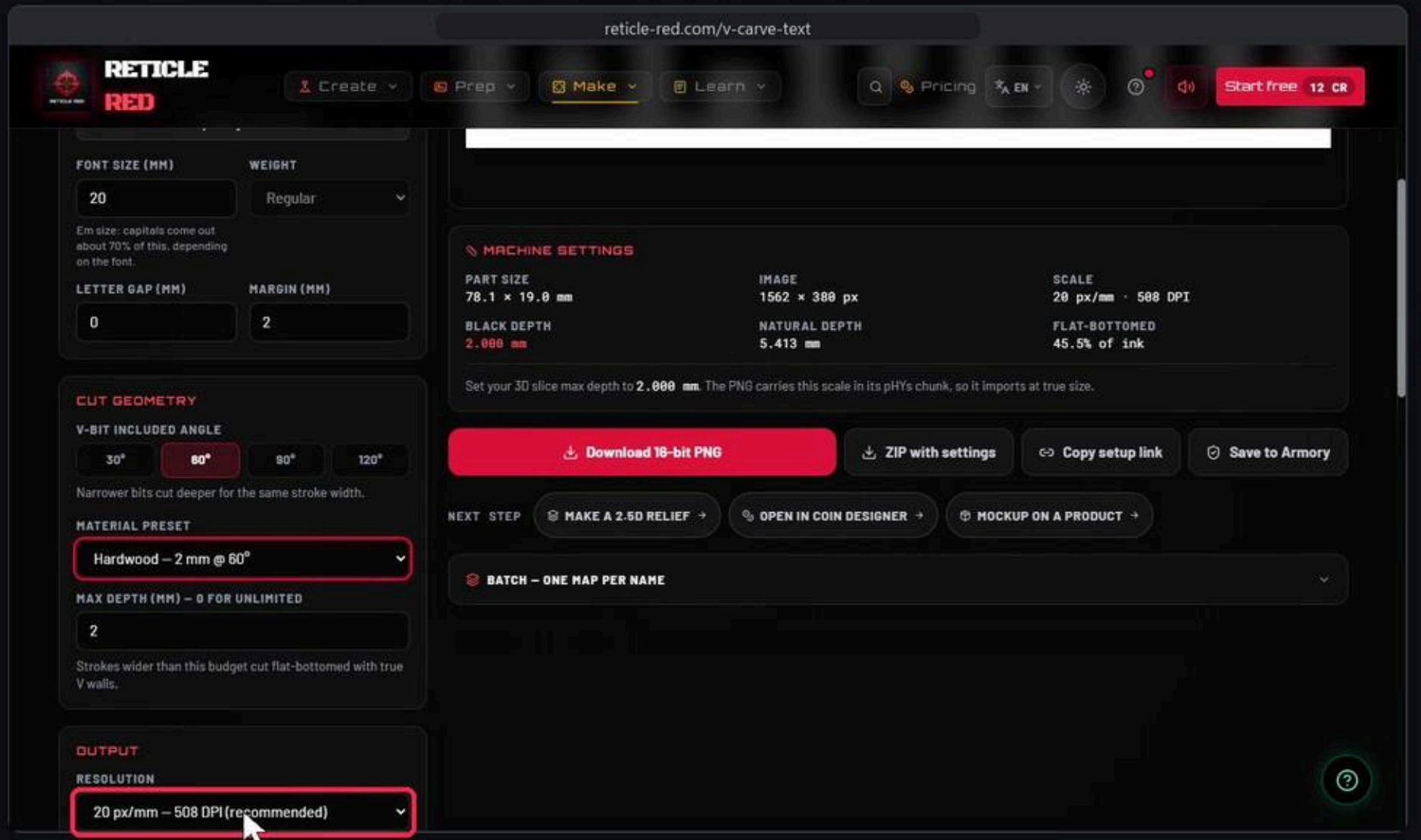
Sets the bit and max depth: Hardwood = 2 mm @ 60°.

Wider strokes cut flat-bottomed with true V walls.

CLOSE-UP



Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 6 OF 10

Output

20 px/mm is recommended.

Z scale Fixed: one machine Z setting for every item.

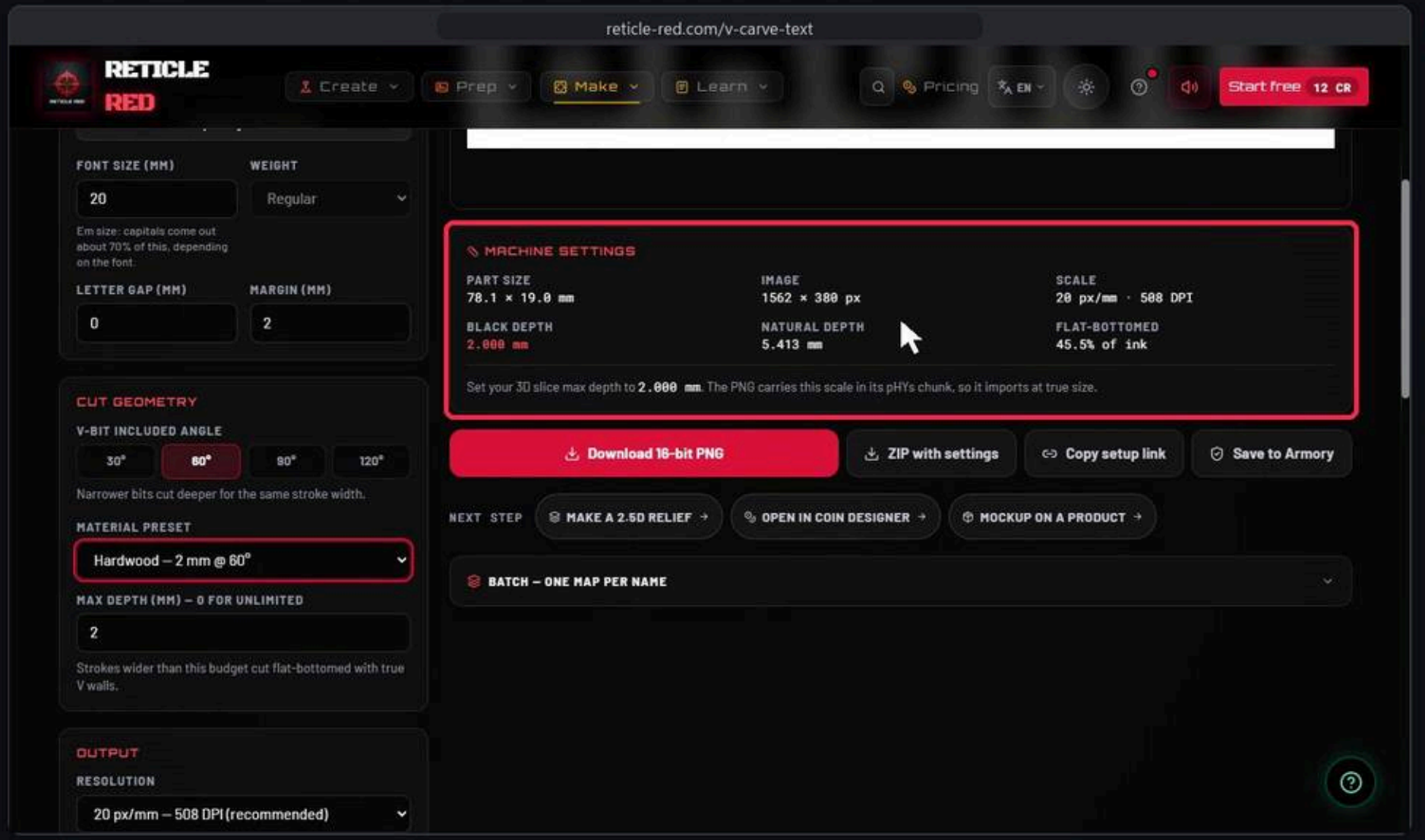
CLOSE-UP

RESOLUTION

20 px/mm — 508 DPI (recommended)

RETICLE RED · V-CARVE TEXT TUTORIAL

Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 7 OF 10

Machine settings

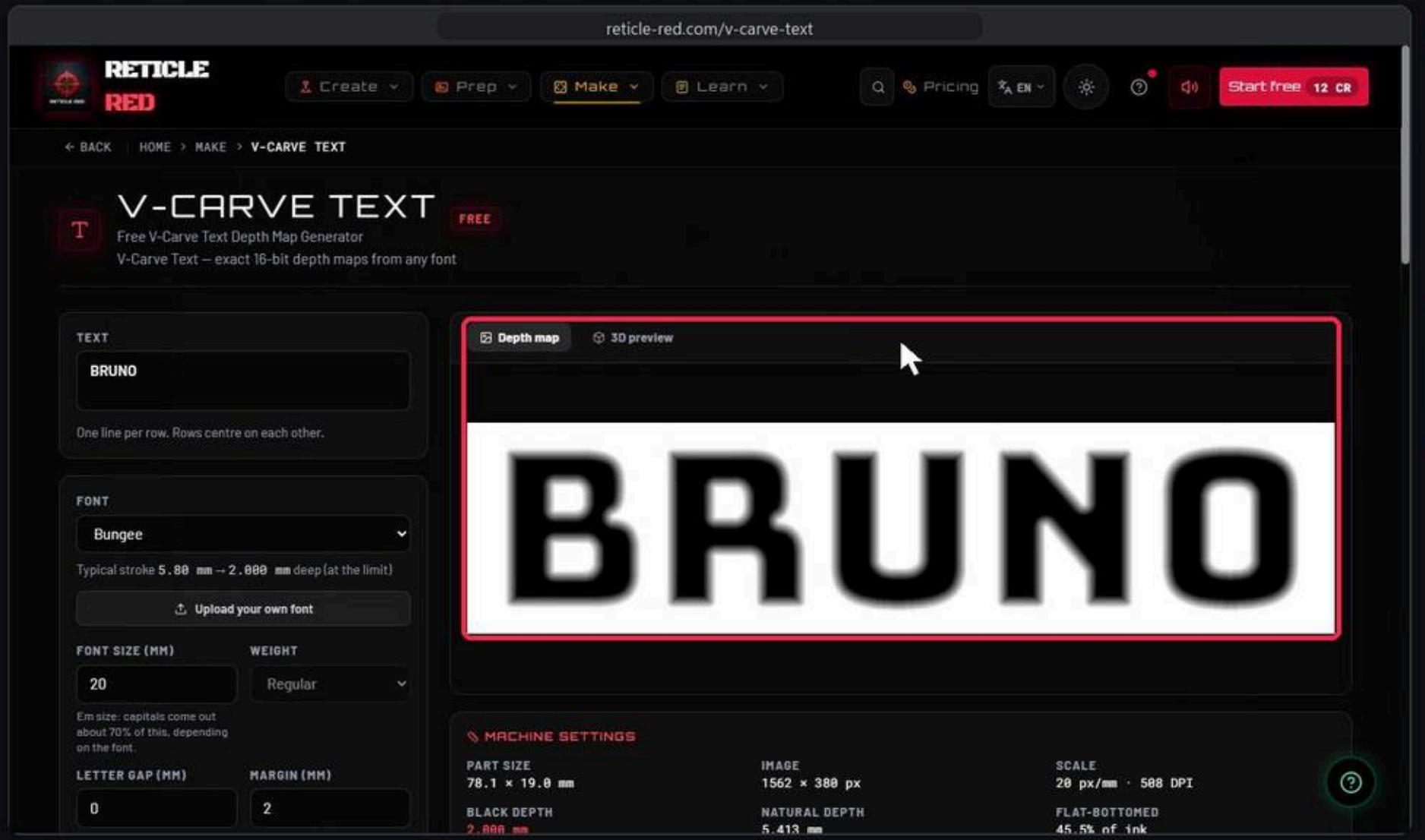
Part size, image, scale, and the depth for your 3D slice.

The PNG carries its scale: imports at true size.

CLOSE-UP



Text to depth map — Font, size, bit, preset, depth map, downloads and batch



STEP 8 OF 10

The depth map

Black = the deepest cut (your depth limit).

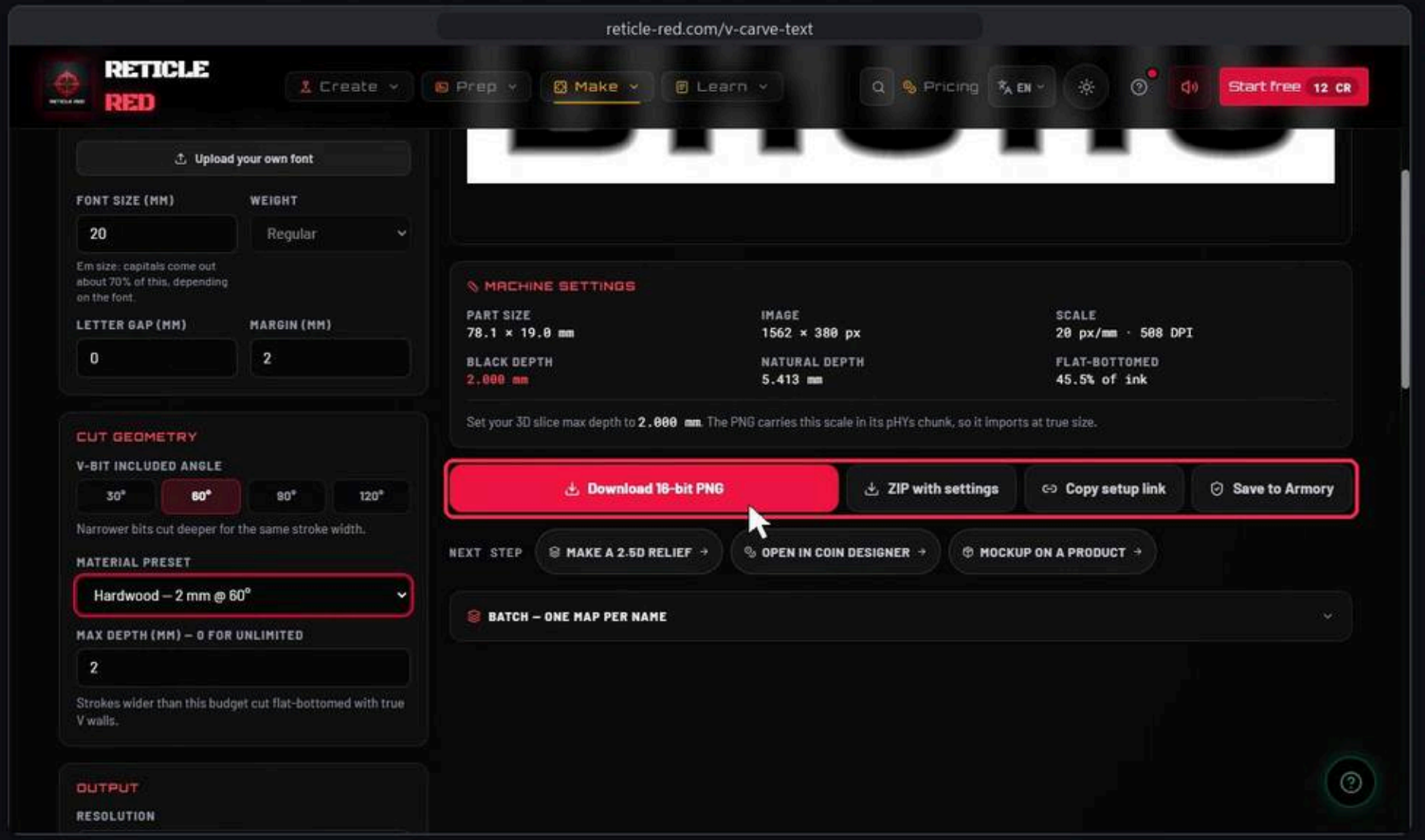
White = the uncut surface.

CLOSE-UP



RETICLE RED · V-CARVE TEXT TUTORIAL

Text to depth map — Font, size, bit, preset, depth map, downloads and batch



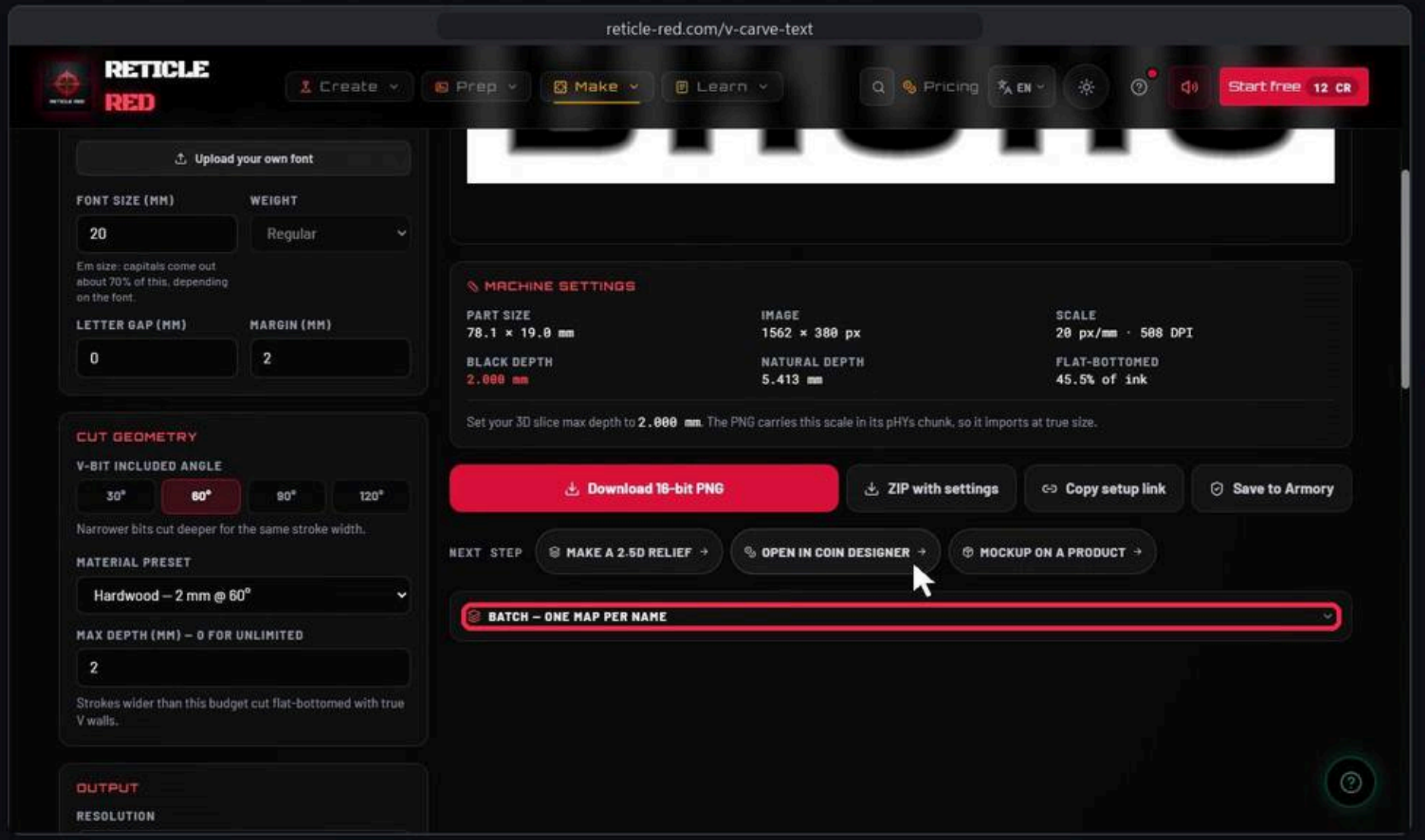
STEP 9 OF 10

Downloads

Download 16-bit PNG · ZIP with settings (PNG + settings card).

CLOSE-UP





STEP 10 OF 10

Batch — one map per name

One name per line; every map shares one machine setup.

Set a Max depth first.

CLOSE-UP



Your depth map, ready to carve

Make → V-Carve Text

Free in your browser, no account needed.

More tutorials: reticle-red.com/tutorials

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