

RETICLE RED TUTORIAL

Coin Designer: 3D Relief

**Make a 3D relief coin: a 16-bit depth map
plus an STL / OBJ mesh at the coin size.**

Recorded on the live site · 3D relief · fiber, rotary and CNC

reticle-red.com/coin-designer

PART 1 OF 2

Design the 3D coin

Workflow, design, rim text, depth quality, engine

RETICLE RED · COIN DESIGNER TUTORIAL

Design the 3D coin — Workflow, design, rim text, depth quality, engine

reticle-red.com/coin-designer

 **RETICLE
RED**

Create

Prep

Make

Learn

Q

Pricing

EN

Start free 12 CR

COMMAND CENTER

CREATE

COIN DESIGNER

 **COIN DESIGNER** AI

ACTION COST
2 CR

BALANCE
- CR

RUN POLICY

EXIT

GUIDE

SHOWCASE

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

CHOOSE YOUR WORKFLOW

Select the output format you need. Both are single-step AI mints — 3D runs a two-stage pipeline (sculpted art + true depth map), which is why it costs more.



2D ENGRAVING

Flat high-contrast raster art for direct laser engraving. Perfect for schematic layouts, logos, and bold designs.

Most challenge coins start here — pick 2D for crisp, flat engraving.

Hardware

Output

CO2 · Fiber

High-DPI PNG

SPARK 2 · ULTRA 6 · UNBOUND 4 CR

START 2D ENGRAVING >



3D RELIEF DEPTH

Grayscale depth maps for 3D relief engraving. The AI interprets depth and generates 2.5D geometry.

Pick 3D for carved relief you can feel — raised metal you can run a finger over.

Hardware

Output

Rotary · Galvo Fiber

Depth Map PNG

SPARK 7 · ULTRA 18 · UNBOUND 9 CR

START 3D RELIEF >

STEP 1 OF 7

Pick 3D Relief

The AI sculpts the coin, then carves a 16-bit height map from it.

White is high, black is low.

CLOSE-UP



3D RELIEF DEPTH

Grayscale depth maps for 3D relief engraving. The AI interprets depth and generates 2.5D geometry.

Pick 3D for carved relief you can feel — raised metal you can run a finger over.

Hardware

Output

Rotary · Galvo Fiber

Depth Map PNG

SPARK 7 · ULTRA 18 · UNBOUND 9 CR

START 3D RELIEF >

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COMMAND CENTER > CREATE > COIN DESIGNER

 **COIN DESIGNER** 

Challenge Coin Engraving Files.
Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST 7 CRBALANCE - CR

RUN POLICY

EXITCHANGE MODESTART OVERGUIDESHOWCASE

1 DESIGN 2 MINT 3D 3 EXPORT

DESIGN *STYLETEXT

CENTRAL SUBJECT ⓘDIAMETER ⓘ

e.g. Eagle Head2.00"

REFERENCE IMAGE (optional) ⓘ

ENGINE SPARK 7 CR ▾

DEPTH QUALITY

FAST 7 CR
~1 min · drafts & iteration

HD RELIEF 9 CR
~5–11 min · for the final cut

START FREE — MINT WITH 12 CR

Already have an account? [Sign in](#)

3D PREVIEWDEPTH VIEW

Generate a coin to see the 3D preview
The mesh uses your depth map for relief geometry

NO COIN YET
Add a subject or reference image in the DESIGN tab, then tap MINT to generate your design.

2.88"8.955"
COINQUARTER

OUTPUT & EXPORT

COST SUMMARY

3D Relief Depth 7 CR

Total 7 CR

Your balance [Sign in to see](#)

BEFORE YOU MINT

☐ Subject or Reference Image (required)

☐ Style preset chosen (optional)

☐ Arc text added (optional)

☐ Style prompt written (optional)

ALREADY HAVE A DEPTH MAP?

Import a 16-bit grayscale PNG to skip mint and go straight to Smoothing / Edge

STEP 2 OF 7

Design tab

Subject, real diameter, edge, finish and rim border: same as a 2D coin.

CLOSE-UP

CENTRAL SUBJECT ⓘ

e.g. Eagle Head

RETICLE RED · COIN DESIGNER TUTORIAL

Design the 3D coin — Workflow, design, rim text, depth quality, engine

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COMMAND CENTER > CREATE > COIN DESIGNER

COIN DESIGNER

AI

Challenge Coin Engraving Files
Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST
7 CR

BALANCE
- CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN2 MINT 3D3 EXPORT

DESIGN

STYLE

TEXT

RIM BORDER

Decorative border

ENGRAVING STYLE & AI

ENGINE SPARK 7 CR

DEPTH QUALITY

FAST 7 CR
~1 min · drafts & iteration

HD RELIEF 9 CR
~5–11 min · for the final cut

START FREE — MINT WITH 12 CR

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3D PREVIEW

DEPTH VIEW

Generate a coin to see the 3D preview
The mesh uses your depth map for relief geometry

NO COIN YET
Add a subject or reference image in the DESIGN tab, then tap MINT to generate your design.

2.88"0.955"

COINQUARTER

OUTPUT & EXPORT

COST SUMMARY

3D Relief Depth 7 CR

Total 7 CR

Your balance Sign in to see

BEFORE YOU MINT

☒ Subject or Reference Image (required)

☐ Style preset chosen (optional)

☐ Arc text added (optional)

☐ Style prompt written (optional)

ALREADY HAVE A DEPTH MAP?

Import a 16-bit grayscale PNG to skip mint and go straight to Smoothing / Edge

STEP 3 OF 7

Rim lettering

Top: RETICLE RED. Bottom: EST 2026.

CLOSE-UP

RETICLE RED · COIN DESIGNER TUTORIAL

Design the 3D coin — Workflow, design, rim text, depth quality, engine

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COMMAND CENTER > CREATE > COIN DESIGNER

COIN DESIGNER

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST 7 CRBALANCE - CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN2 MINT 3D3 EXPORT

DESIGNSTYLETEXT

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

TAKE PHOTOBROWSE

ENGINE SPARK 7 CR

DEPTH QUALITY

FAST 7 CR
~1 min · drafts & iteration

HD RELIEF 9 CR
~5-11 min · for the final cut

START FREE — MINT WITH 12 CR

Already have an account? Sign in

3D PREVIEWDEPTH VIEW

NO COIN YET

Add a subject or reference image in the DESIGN tab, then tap MINT to generate your design.

2.00"8.955"

COINQUARTER

OUTPUT & EXPORT

COST SUMMARY

3D Relief Depth 7 CR

Total 7 CR

Your balance Sign in to see

BEFORE YOU MINT

Subject or Reference Image (required)

Style preset chosen (optional)

Arc text added (optional)

Style prompt written (optional)

ALREADY HAVE A DEPTH MAP?

Import a 16-bit grayscale PNG to skip mint and go straight to Smoothing / Edge

STEP 4 OF 7

Depth quality

FAST: about a minute, for drafts.

HD RELIEF: 5–11 min, a cleaner carved height field. Use it before you cut.

CLOSE-UP

HD RELIEF 9 CR

~5-11 min · for the final cut

RETICLE RED · COIN DESIGNER TUTORIAL

Design the 3D coin — Workflow, design, rim text, depth quality, engine

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COMMAND CENTER > CREATE > COIN DESIGNER

COIN DESIGNER

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST 9 CR

BALANCE - CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN

2 MINT 3D

3 EXPORT

DESIGN

STYLE

TEXT

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

TAKE PHOTO

BROWSE

ENGINE SPARK 9 CR

DEPTH QUALITY

FAST 7 CR

HD RELIEF 9 CR

START FREE — MINT WITH 12 CR

Already have an account? [Sign in](#)

3D PREVIEW

DEPTH VIEW



NO COIN YET

Add a subject or reference image in the DESIGN tab, then tap MINT to generate your design.

2.88"

2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

COST SUMMARY

3D Relief Depth 9 CR

Total 9 CR

Your balance Sign in to see

BEFORE YOU MINT

Subject or Reference Image (required)

Style preset chosen (optional)

Arc text added (optional)

Style prompt written (optional)

ALREADY HAVE A DEPTH MAP?

Import a 16-bit grayscale PNG to skip mint and go straight to Smoothing / Edge

STEP 5 OF 7

Choose an engine

UNBOUND: HD Relief costs the same 9 CR as Fast.

The MINT button shows the live price.

CLOSE-UP

ENGINE SPARK 9 CR

DEPTH QUALITY

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Start free 12 CR

COMMAND CENTER > CREATE > COIN DESIGNER

 **COIN DESIGNER** 

Challenge Coin Engraving Files
Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST 9 CRBALANCE - CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN2 MINT 3D3 EXPORT

DESIGNSTYLETEXT

DROP OR CLICK TO UPLOAD
PNG · JPG · WEBP · Large images auto-resized

TAKE PHOTO

BROWSE

ENGINE UNBOUND 9 CR ▾

DEPTH QUALITY

FAST 9 CR
~1 min · drafts & iteration

HD RELIEF 9 CR
~5–11 min · for the final cut

START FREE — MINT WITH 12 CR

Already have an account? [Sign in](#)

3D PREVIEWDEPTH VIEW

RETICLE RED

12

ORNATE
COMPASS ROSE
SURROUNDED BY
A BALANCED

RETICLE RED · EST 2026

NO COIN YET
Add a subject or reference image in the DESIGN tab, then tap MINT to generate your design.

2.88"2.00"0.955"

COINQUARTER

OUTPUT & EXPORT

Any file generated with Reticle Red is automatically saved to your account.

☒ Arc text added (optional)

☐ Style prompt written (optional)

ALREADY HAVE A DEPTH MAP?

Import a 16-bit grayscale PNG to skip the mint and go straight to Smoothing / Edge Bezel / Invert — applied server-side, free.

IMPORT 16-BIT DEPTH PNG

TIPS

High-contrast subjects engrave with the sharpest detail

Antique & matte finishes show relief best in the 3D preview

2.00" is the standard challenge coin diameter

STEP 6 OF 7

Already have a depth map?

Import a 16-bit grayscale PNG to skip the mint and go straight to the relief settings.

CLOSE-UP

Bezel / Invert — applied server-side, free.

IMPORT 16-BIT DEPTH PNG

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Design the 3D coin — Workflow, design, rim text, depth quality, engine

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Start free

12 CR

COMMAND CENTER

CREATE

COIN DESIGNER

COIN DESIGNER

AI

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST

9 CR

BALANCE

- CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN

2 MINT 3D

3 EXPORT

DESIGN

STYLE

TEXT

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

TAKE PHOTO

BROWSE

ENGINE

UNBOUND

9 CR

DEPTH QUALITY

FAST

9 CR

~1 min · drafts & iteration

HD RELIEF

9 CR

~5-11 min · for the final cut

START FREE — MINT WITH 12 CR

Already have an account? [Sign in](#)

3D PREVIEW

DEPTH VIEW

RETICLE RED

12

ORNATE COMPASS ROSE SURROUNDED BY A BALANCED

RETICLE RED · EST 2025

NO COIN YET

Add a subject or reference image in the DESIGN tab, then tap MINT to generate your design.

2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

Arc text added (optional)

Style prompt written (optional)

ALREADY HAVE A DEPTH MAP?

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TIPS

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2.00" is the standard challenge coin diameter

STEP 7 OF 7

Mint

New accounts start with 12 free credits.

The page shows progress while the relief is carved.

CLOSE-UP

START FREE — MINT WITH 12 CR

PART 2 OF 2

Your 3D relief

Orbit, Depth View, Relief Settings and the downloads

RETICLE RED · COIN DESIGNER TUTORIAL

Your 3D relief — Orbit, Depth View, Relief Settings and the downloads

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COMMAND CENTER

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ACTION COST 7 CR

BALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN MINT 3D EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (7 CR). The current result is kept in History either way.

CENTRAL SUBJECT

DIAMETER

Reticle-red.com

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (7 CR)

3D PREVIEW

DEPTH VIEW

TUNE

AUTO-ORBIT

RESET VIEW

3D PREVIEW

DEPTH VIEW

TUNE

AUTO-ORBIT

RESET VIEW

OUTPUT & EXPORT

ENGINE SPARK 7 CR

DEPTH QUALITY

FAST 7 CR

HD RELIEF 9 CR

3D DEPTH MAP COMPLETE

Ready for export

REMIX — NEW VARIATION (7 CR)

SAVE

NEW

MATERIAL (preview only)

STEP 1 OF 6

Your 3D coin

A real 3D relief from the account history (a team commemorative coin): reopening it spends no credits.

CLOSE-UP

A close-up view of the 3D coin preview window. The coin is gold-colored and features a circular design with a team of people. The text "RETICLE-RED.COM" is visible at the top and "COMMEMORATIVE" at the bottom. The preview is framed by a red border.

RETICLE RED · COIN DESIGNER TUTORIAL

Your 3D relief — Orbit, Depth View, Relief Settings and the downloads

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COIN DESIGNER

AI

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST
7 CR

BALANCE
- CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN MINT 3D EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (7 CR). The current result is kept in History either way.

CENTRAL SUBJECT

DIAMETER

Reticle-red.com

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (7 CR)

3D PREVIEW

DEPTH VIEW

TUNE

AUTO-ORBIT

RESET VIEW

2.88"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

ENGINE SPARK 7 CR

DEPTH QUALITY

FAST 7 CR

HD RELIEF 9 CR

~1 min · drafts & iteration

~5-11 min · for the final cut

3D DEPTH MAP COMPLETE
Ready for export

REMIX — NEW VARIATION (7 CR)

SAVE

NEW

MATERIAL (preview only)

STEP 2 OF 6

Orbit the relief

Drag to rotate, or turn on AUTO-ORBIT.

RESET VIEW puts it back.

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Your 3D relief — Orbit, Depth View, Relief Settings and the downloads

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COIN DESIGNER

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST 7 CR

BALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (7 CR). The current result is kept in History either way.

CENTRAL SUBJECTReticle-red.com

DIAMETER2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (7 CR)

DESIGN

MINT 3D

EXPORT

3D PREVIEW

DEPTH VIEW

TUNE

AUTO-ORBIT

RESET VIEW

2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

ENGINE SPARK 7 CR

DEPTH QUALITY

FAST 7 CR

HD RELIEF 9 CR

3D DEPTH MAP COMPLETE

Ready for export

REMIX — NEW VARIATION (7 CR)

SAVE

NEW

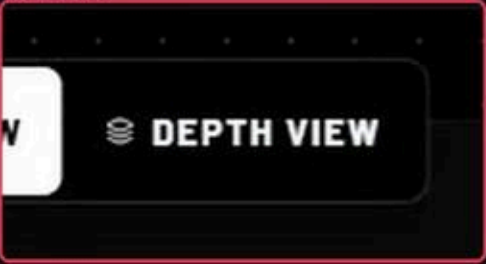
MATERIAL (preview only)

STEP 3 OF 6

Depth View

The height map itself: white is the peak, black is the floor.

CLOSE-UP



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Your 3D relief — Orbit, Depth View, Relief Settings and the downloads

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COMMAND CENTER > CREATE > COIN DESIGNER

COIN DESIGNER

AI

Challenge Coin Engraving Files

Design a challenge coin or medallion — flat artwork, or a 3D depth map for relief carving

ACTION COST 7 CRBALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN MINT 3D EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next **REMIX** (7 CR). The current result is kept in **History** either way.

CENTRAL SUBJECT ⓘ DIAMETER ⓘ

Reticle-red.com2.00"

REFERENCE IMAGE (optional) ⓘ


DROP OR CLICK TO UPLOAD
PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (7 CR)

3D PREVIEWDEPTH VIEW

TUNE

AUTO-ORBIT

RESET VIEW

2.88"0.955"
COINQUARTER

OUTPUT & EXPORT

Contrast 3 → Edge bezel 4
→ Elevation 5 → Coin height

Relief Engine ⓘ

DOMEMETALTONALPLATE

1. Smoothing ⓘ3px

2. Relief Contrast ⓘ10

3. Edge Bezel (Round) ⓘ0px

3D Elevation (Z-Axis) ⓘ0.22

STEP 4 OF 6

Relief Settings

Smoothing, contrast, edge bezel; then the preview elevation and coin thickness.

REGEN writes them to the 16-bit file (free with an account).

CLOSE-UP



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7 CR

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- CR

RUN
POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

MINT 3D

EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (7 CR). The current result is kept in History either way.

CENTRAL SUBJECT

Reticle-red.com

DIAMETER

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (7 CR)

3D PREVIEW

DEPTH VIEW

TUNE

AUTO-ORBIT

RESET VIEW



DETAIL PREVIEW

8-BIT

EXPORT USES RAW 16-BIT UNTIL BAKED

2.88"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

Gold (24k)

Material styles the preview only

- exports are always grayscale for the laser

DEPTH MAP



INVERT DEPTH

FREE

REGEN

FREE

IMPORT DIFFERENT MAP

RELIEF SETTINGS

RESET

Adjust in order for best results:

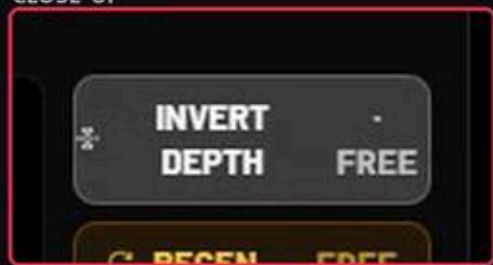
1 → Smooth noise 2 →

STEP 5 OF 6

Invert Depth

Flips high and low, for a machine that needs the opposite orientation.

CLOSE-UP



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DESIGN MINT 3D EXPORT

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CENTRAL SUBJECT

DIAMETER

Reticle-red.com

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (7 CR)

3D PREVIEW DEPTH VIEW

TUNE AUTO-ORBIT

RESET VIEW



DETAIL PREVIEW · 8-BIT · EXPORT USES RAW 16-BIT UNTIL BAKED

2.88"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

stay on the current raw 16-bit map until BAKE DETAIL finishes.

PREVIEW ADJUSTED · Export remains the current raw 16-bit map until you bake detail below.

EXPORT

DOWNLOAD DEPTH MAP (16-BIT PNG)

16-bit grayscale PNG · Compatible with LightBurn, RDWorks & laser CAM software

RELIEF HEIGHT 12 MM

OUTPUT SIZE 50

STEP 6 OF 6

Download

16-bit depth map PNG for your laser's 3D or grayscale mode.

Or an STL / OBJ mesh that starts at the coin's diameter (50.8 mm).

CLOSE-UP

EXPORT

DOWNLOAD DEPTH MAP (16-BIT PNG)

16-bit grayscale PNG · Compatible

Your 3D coin, ready to carve

Create → Coin Designer

New accounts start with 12 free credits.

More tutorials: reticle-red.com/tutorials

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