

RETICLE RED TUTORIAL

Coin Designer

Design a challenge coin and download a laser-ready file sized to the real coin.

Recorded on the live site · 2D engraving · CO2 and fiber lasers

reticle-red.com/coin-designer

PART 1 OF 2

Design the coin

Workflow, subject, size, style, rim text, engine

RETICLE RED · COIN DESIGNER TUTORIAL

Design the coin — Workflow, subject, size, style, rim text, 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 CRBALANCE - CR

RUN POLICYEXITGUIDESHOWCASE

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.

HardwareCO2 · Fiber
OutputHigh-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.

HardwareRotary · Galvo Fiber
OutputDepth Map PNG

SPARK 7 · ULTRA 18 · UNBOUND 9 CR

START 3D RELIEF >

STEP 1 OF 7

Pick a workflow

2D engraving: flat, high-contrast art for CO2 and fiber lasers.

3D relief: adds a depth map for carving.

CLOSE-UP



2D ENGRAVING

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HardwareCO2 · Fiber
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SPARK 2 · ULTRA 6 · UNBOUND 4 CR

START 2D ENGRAVING >

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AI

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

ACTION COST

2 CR

BALANCE

- CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN

2 MINT 2D

3 EXPORT

DESIGN

STYLE

TEXT

CENTRAL SUBJECT

DIAMETER

e.g. Eagle Head

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

ENGINE SPARK

2 CR

START FREE — MINT WITH 12 CR

Already have an account? Sign in

2D ART

PREVIEW BURN

SUBJECT 1

NO COIN YET

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

2.00"

2.00"

8.955"

COIN

QUARTER

OUTPUT & EXPORT

COST SUMMARY

2D Design Mint

2 CR

Total

2 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)

TIPS

High-contrast subjects engrave with sharpest detail

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

STEP 2 OF 7

Describe the center

What goes in the middle of the coin.

CLOSE-UP

CENTRAL SUBJECT

e.g. Eagle Head

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ACTION COST 2 CR

BALANCE - CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN 2 MINT 2D 3 EXPORT

DESIGN

STYLE

TEXT

CENTRAL SUBJECT

a balanced laurel wreath

DIAMETER

2.00"

REFERENCE IMAGE (optional)

Drop or click to upload

PNG · JPG · WEBP · Large images auto-resized

ENGINE SPARK

2 CR

START FREE — MINT WITH 12 CR

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2D ART

PREVIEW BURN

1 2

ORNATE COMPASS ROSE SURROUNDED BY A BALANCED

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

COST SUMMARY

2D Design Mint 2 CR

Total 2 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)

TIPS

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STEP 3 OF 7

Size, edge and rim

Diameter is the real coin size: downloads come out exactly that size.

Then the edge, finish and rim border.

CLOSE-UP

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ACTION COST
2 CR

BALANCE
- CR

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EXIT

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GUIDE

SHOWCASE

1 DESIGN 2 MINT 2D 3 EXPORT

DESIGN

STYLE

TEXT

PASTE

EDGE STYLE

FINISH

Reeded Edge

High Polish

RIM BORDER

Decorative border

ENGINE SPARK 2 CR

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2D ART

PREVIEW BURN

ORNATE COMPASS ROSE SURROUNDED BY A BALANCED

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2.00" 0.955"

COIN QUARTER

OUTPUT & EXPORT

COST SUMMARY

2D Design Mint 2 CR

Total 2 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)

TIPS

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STEP 4 OF 7

Style (optional)

Steer the look with a Style DNA card, or stay fully custom.

CLOSE-UP

STYLE

PASTE

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ACTION COST
2 CR

BALANCE
- CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

DESIGN

STYLE

TEXT

WESTERN SCROLL

BLACK-GROUND WESTERN BRIGHT CUT

UNBROKEN ACANTHUS

SOLID FILL ACANTHUS

ENGINE SPARK 2 CR

START FREE — MINT WITH 12 CR

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

WESTERN BRIGHT CUT

GROTESQUE MASK

GOLD INLAY SCROLL

CORNER SCROLL

2D ART

PREVIEW BURN

ORNATE COMPASS ROSE SURROUNDED BY A BALANCED

NO COIN YET

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

2.88" 0.955"

COIN QUARTER

OUTPUT & EXPORT

COST SUMMARY

2D Design Mint 2 CR

Total 2 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)

TIPS

High-contrast subjects engrave with sharpest detail

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

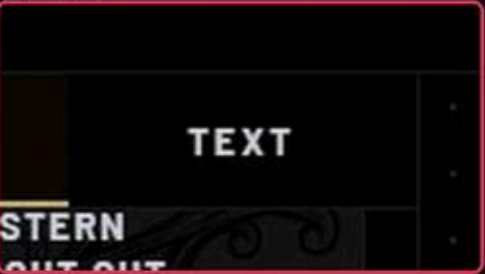
STEP 5 OF 7

Rim lettering

Top: RETICLE RED. Bottom: EST 2026.

The AI letters them into the design.

CLOSE-UP

A close-up view of the coin design interface. It shows a dark background with the word 'TEXT' in large, white, sans-serif capital letters. Below it, the word 'STERN' is partially visible in a similar font. The background has a subtle grid pattern.

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COMMAND CENTER

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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 COST2 CR

BALANCE- CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN

2 MINT 2D

3 EXPORT

DESIGN

STYLE

TEXT

renders the engraved lettering in a matching style.

ARC ENGRAVING TEXT

RETICLE RED

EST 2026

FONT

ENGINE SPARK2 CR

START FREE — MINT WITH 12 CR

Already have an account? Sign in

2D ART

PREVIEW BURN

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"

2.88"

8.955"

COIN

QUARTER

OUTPUT & EXPORT

COST SUMMARY

2D Design Mint2 CR

Total2 CR

Your balanceSign in to see

BEFORE YOU MINT

Subject or Reference Image (required)

Style preset chosen (optional)

Arc text added (optional)

Style prompt written (optional)

TIPS

High-contrast subjects engrave with sharpest detail

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

STEP 6 OF 7

Choose an engine

SPARK: value. UNBOUND: finest detail, works from a reference photo. ULTRA: rich detail and rim lettering.

The MINT button shows the live price.

CLOSE-UP

ENGINE SPARK

2 CR

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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 2 CR

BALANCE - CR

RUN POLICY

EXIT

CHANGE MODE

START OVER

GUIDE

SHOWCASE

1 DESIGN2 MINT 2D3 EXPORT

DESIGNSTYLETEXT

renders the engraved lettering in a matching style.

ARC ENGRAVING TEXT

RETICLE RED

EST 2026

FONT

ENGINE SPARK2 CR

START FREE — MINT WITH 12 CR

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2D ARTPREVIEW BURN

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.

2.00"0.955"

COINQUARTER

OUTPUT & EXPORT

COST SUMMARY

2D Design Mint2 CR

Total2 CR

Your balanceSign in to see

BEFORE YOU MINT

Subject or Reference Image (required)

Style preset chosen (optional)

Arc text added (optional)

Style prompt written (optional)

TIPS

High-contrast subjects engrave with sharpest detail

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STEP 7 OF 7

Mint

New accounts start with 12 free credits. A 2D coin starts at 2 CR and takes about a minute.

CLOSE-UP

START FREE — MINT WITH 12 CR

PART 2 OF 2

Your coin

Preview, burn, material and the sized download

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Your coin — Preview, burn, material and the sized download

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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 2 CR

BALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

MINT 2D

EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (2 CR). The current result is kept in History either way.

CENTRAL SUBJECT

DIAMETER

ornate compass rose sur

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (2 CR)

2D ART

PREVIEW BURN



2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

ENGINE SPARK 2 CR

MINT COMPLETE Ready for export

REMIX — NEW VARIATION (2 CR)

MAKE IT 3D RELIEF (FREE)

SAVE

NEW

MATERIAL (preview only)

STEP 1 OF 5

Your coin

A real mint made with exactly these settings, reopened from the account history: no credits spent.

CLOSE-UP

A close-up image of the designed coin, showing the intricate details of the compass rose and the text "RETICLE RED" and "EST 2026". The coin has a yellow border and a white center.

RETICLE RED · COIN DESIGNER TUTORIAL

Your coin — Preview, burn, material and the sized download

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Start free12 CR

COMMAND CENTER

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Challenge Coin Engraving Files

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

ACTION COST2 CR

BALANCE- CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (2 CR). The current result is kept in History either way.

CENTRAL SUBJECT

DIAMETER

ornate compass rose sur

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (2 CR)

DESIGN

MINT 20

EXPORT

2D ART

PREVIEW BURN



2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

ENGINE SPARK2 CR

MINT COMPLETEReady for export

REMIX — NEW VARIATION (2 CR)

MAKE IT 3D RELIEF (FREE)

SAVE

NEW

MATERIAL (preview only)

STEP 2 OF 5

Preview Burn

How it looks burned into metal.

CLOSE-UP



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Your coin — Preview, burn, material and the sized download

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

ACTION COST 2 CR

BALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

MINT 2D

EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (2 CR). The current result is kept in History either way.

CENTRAL SUBJECT

DIAMETER

ornate compass rose sur

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (2 CR)

2D ART

PREVIEW BURN



2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

ENGINE SPARK 2 CR

MINT COMPLETE Ready for export

REMIX — NEW VARIATION (2 CR)

MAKE IT 3D RELIEF (FREE)

SAVE

NEW

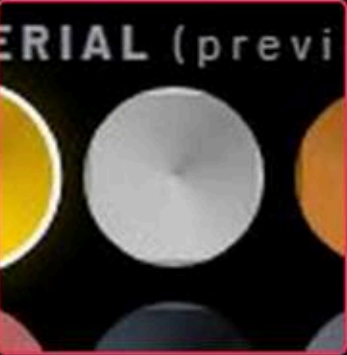
MATERIAL (preview only)

STEP 3 OF 5

Material preview

Swatches change the preview only.
Downloads are always grayscale for the laser.

CLOSE-UP



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COIN DESIGNER

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

ACTION COST 2 CR

BALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (2 CR). The current result is kept in History either way.

CENTRAL SUBJECT ornate compass rose sur

DIAMETER 2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (2 CR)

DESIGN

MINT 2D

EXPORT

2D ART

PREVIEW BURN

2.00" 0.955"

COIN QUARTER

OUTPUT & EXPORT

Material styles the preview only - exports are always grayscale for the laser

EXPORT

Source: 2048 × 2048 px

300 DPI 600 × 600 px Diameter 2 in Within source resolution

600 DPI 1200 × 1200 px Diameter 2 in Within source resolution

DPI sets pixel dimensions at the selected diameter. Resampling does not create new image detail; PNG file size varies with the artwork.

NEXT STEP MAGIC EDIT 4

STEP 4 OF 5

Download, sized to the coin

300 or 600 DPI. Cropped to the coin and sized to its diameter, so it lands in LightBurn at 2.00 in.

CLOSE-UP

Source: 2048 × 2048 px

300 DPI

600 × 600 px

Diameter 2 in

Within source resolution

DPI sets pixel dimensions at the selected diameter

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ACTION COST 2 CR

BALANCE - CR

RUN POLICY

EXIT

START OVER

GUIDE

SHOWCASE

DESIGN

MINT 2D

EXPORT

DESIGN

STYLE

TEXT

Your inputs are still editable — changes apply on the next REMIX (2 CR). The current result is kept in History either way.

CENTRAL SUBJECT

DIAMETER

ornate compass rose sur

2.00"

REFERENCE IMAGE (optional)

DROP OR CLICK TO UPLOAD

PNG · JPG · WEBP · Large images auto-resized

REMIX WITH THESE INPUTS (2 CR)

2D ART

PREVIEW BURN



2.00"

0.955"

COIN

QUARTER

OUTPUT & EXPORT

ENGINE SPARK 2 CR

MINT COMPLETE Ready for export

REMIX — NEW VARIATION (2 CR)

MAKE IT 3D RELIEF (FREE)

SAVE

NEW

MATERIAL (preview only)

STEP 5 OF 5

Remix or go 3D

REMIX: a new variation from your current inputs.

MAKE IT 3D RELIEF: a depth map for carving, free with an account.

CLOSE-UP

REMIX — NEW VARIATION (2 CR)

Your coin, laser-ready

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.