Request for Quotation — 3D printing + electroplating

Appel d'offres — impression 3D + galvanoplastie • Porte-guitare « Liquid Chrome » acoustique





QUANTITY / QUANTITÉ **10 pcs**

PART SUMMARY / synthèse

Part / Pièce	Sculptural floor stand for an acoustic guitar, one single piece (no assembly)
Scope / Prestation	3D printing + surface preparation + decorative electroplating, packed and shipped to France
Overall size / Encombrement	201,2 (W) × 214,8 (D) × 204,1 (H) mm
Part volume / Volume	466,8 cm^3 (solid)
Surface to plate / Surface	≈ 1 040 cm^2 (for plating cost)
Weight / Masse	≈ 0,47–0,59 kg if printed solid, depending on material (PA12 → PETG); plating adds ≈ 50–100 g
Finish / Finition	Bright mirror chrome (option A) — see page 3. Option B to quote: polished copper + clear lacquer
Function / Fonction	Holds an acoustic guitar of 2–4 kg, body thickness up to 128 mm, leaning back 12°
Felt / Feutre	6 grooves 13 × 2 mm for 12 × 3 mm grey felt strips, applied by the customer (not supplied)
CAD file / Fichier	Watertight STL in mm (single shell, 297 636 triangles), sent to shortlisted suppliers

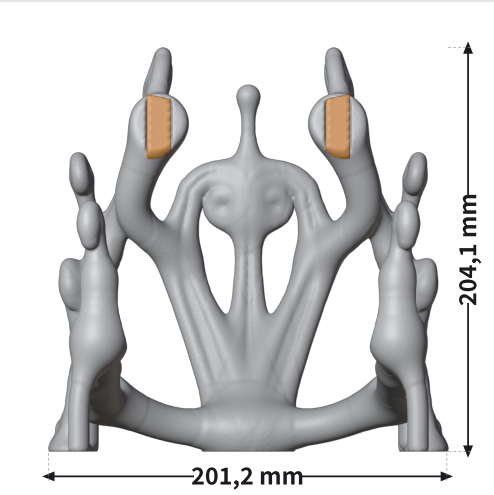
PLEASE QUOTE / MERCI D'INDIQUER

- Unit price for 10 pcs, and for 1 sample (first article)
- Printing technology and material proposed; plating stack and thicknesses
- Lead time (sample, then batch) and shipping cost to France (DDP if possible)
- Photos of similar electroplated 3D-printed parts

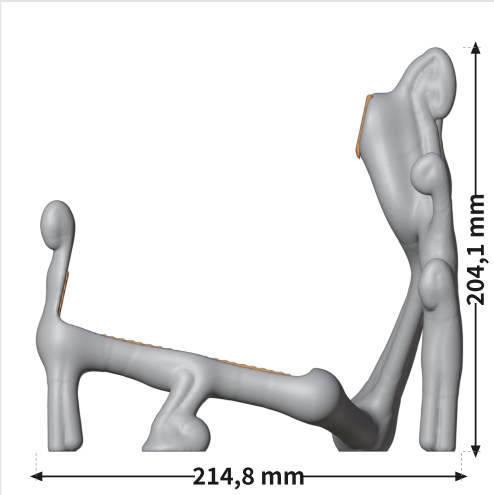
Renders: chrome finish shown without felt. Images non contractuelles ; seul le fichier STL fait foi pour la géométrie.

Drawing — overall dimensions

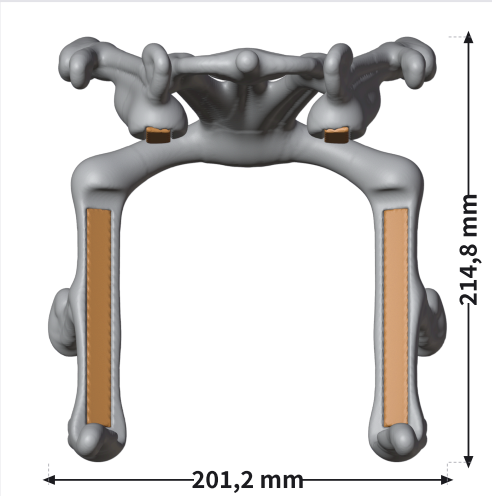
Plan — dimensions hors-tout • projections orthogonales, échelle identique pour les 4 vues



FRONT VIEW / vue de face



SIDE VIEW / vue de côté (avant à gauche)



TOP VIEW / vue de dessus (avant en bas)



REAR VIEW / vue arrière

Felt grooves / rainures feutre : 13 mm wide × 2 mm deep — must stay open after plating

Part / pièce

KEY FUNCTIONAL DIMENSIONS / cotes fonctionnelles

Guitar cradle / Berceau	Accepts a body thickness up to 128 mm (between the back rests and the front lips)
Lean angle / Inclinaison	12° backward
Lower ledges / Butées	2 ledges, 150 mm apart (centre to centre), ≈ 112 mm grooved length each
Back rests / Appuis hauts	2 pads, 90 mm apart, contact at ≈ 165 mm height
Base / Assise	All feet on one flat plane (z = 0); the part must not wobble

FELT GROOVES / rainures feutre (×6)

Lower ledges (×2)	13 × 2 mm, ≈ 112 mm long
Front lips (×2)	13 × 2 mm, ≈ 24 mm long
Back rests (×2)	13 × 2 mm, ≈ 30 mm long
After plating	width ≥ 12,4 mm, depth ≥ 1,8 mm (felt 12 × 3 mm must fit and stand ≈ 1 mm proud)

General tolerance ±0,5 mm • overall ±1 mm

Technical requirements

Exigences techniques — impression, préparation, galvanoplastie, contrôle, emballage

1 • 3D PRINTING / impression

- Build volume needed: at least 205 × 220 × 210 mm (one piece, no splitting).
- Preferred: SLA / DLP tough resin or MJF / SLS PA12. FDM (PETG, layer ≤ 0,12 mm) accepted only with full sanding.
- Supplier chooses orientation; support marks must be removed and blended.
- Load-bearing part: dense walls / infill (FDM ≥ 4 perimeters, ≥ 40 % infill).

2 • SURFACE PREP / préparation

- No visible layer lines after plating: sand and fill (P400 → P800), primer suitable for plating on plastics.
- Organic, flowing shape: keep all curves smooth, do not flatten details.

3 • ELECTROPLATING / galvanoplastie

Option A (main)	Conductive metallisation → acid copper (levelling, ≥ 50 µm) → bright nickel → decorative bright chrome. Mirror finish.
Option B	Conductive metallisation → acid copper → polished, clear protective lacquer.
Coverage	All surfaces including undersides and inside of the grooves; no bare spots, pits, burns or nodules on tips.
Rack contact	Under the feet only (non-visible area).

Please state your plating thicknesses and whether parts are handled in-house or subcontracted.

4 • QUALITY / contrôle

- First article: photos (front, back, close-up of grooves and feet) for approval before the batch of 10.
- Part sits flat on a table without wobble.
- Grooves checked after plating (see page 2).
- Structural: must hold a 4 kg guitar without cracking or plating flaking.

5 • PACKAGING / emballage

- Each part wrapped individually (soft film + foam), protected from scratches; spikes and tips protected.
- Sturdy carton; shipping to France.

6 • NOT INCLUDED / hors prestation

- Felt strips (applied by the customer). Optional: quote 6 grey wool felt strips 12 × 3 mm per part, adhesive backed.