

From visual armour to a printable system

A visual checkpoint of the panels adapted so far, the release authority behind them, and the work still standing between digital pass and wearable production.



V37 STATUS MAP

CURRENT FULL-BODY DIGITAL CHECKPOINT

Temporary status materials over the live V37 master

MODIFIED / PRINT-ADAPTED

Current geometry treatment exists

OPEN GEOMETRY

W04–W07 refit and attachment unresolved

SEPARATE INSERTS

13 removable flat-back gems

REFERENCE / BASE

Current visual assembly; not yet reworked

WHAT THE COLOUR MAP SAYS

Helmet, neck, chest, shoulders, elbows and forearm systems have active digital adaptations. The orange waist lames remain the suit's largest geometry and attachment blocker.

Standalone release files—not this presentation render—remain print authority.

V37
FULL-BODY CHECKPOINT

V16
585 MM HELMET AUTHORITY

8
MODIFIED WORKSTREAMS

1
MAJOR GEOMETRY BLOCKER

LATEST CLOSED CHANGES

- Visor apertures rebuilt with continuous rear edges at V16.
- Right elbow uniformly enlarged to the left authority at V37; 35 mm strap keeper clearances rebuilt at fixed millimetre size.

CURRENT READ

The project is past visual assembly and inside print engineering. Digital geometry is advancing well, but physical fit, threading and load tests remain release gates—not paperwork.

RECENT DEVELOPMENT RUN

V16
VISOR EDGES

V30
GORGET FIT

V36
PAULDRON GUIDES

V37
ELBOW SCALE

NEXT
WAIST W04–W07

Panel systems worked on to date

Each card uses its actual proof render. Status labels distinguish a digital pass from parts that still depend on a real print, fit or load test.



Helmet · H01 / H02
V16 · 585 mm uniform-scale H2C prototype

Smooth inside visor apertures, 3.5 mm radial relief and fixed concealed magnet retention.

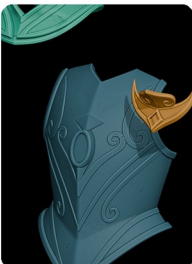
DIGITAL PASS



Cuirass · C01 / C02
V4 · rim-safe internal relief

31.14% material reduction, ≥3 mm sampled wall and concealed magnetic tongue/rebate closure.

3MF BLOCKED



Gorget · neck / chest
V30 · chest-peak clearance refit

Removed the chest-detail collision while keeping the shell closed and manifold.

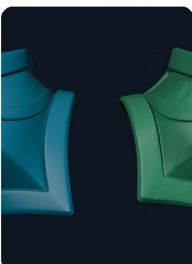
FIT TEST NEXT



Pauldrons · S01 L / R
V36 · 50 mm elastic keeper system

Rounded bilateral keeper pairs with 52 mm clear openings; route and anchors await approval.

ROUTE OPEN



Elbows · A03 L / R
V37 · bilateral scale matched

Right host uniformly ×1.099153712 to match the larger left; 37 mm-clear keepers rebuilt.

LATEST PASS



Forearms / cuffs · A04 / G01
V7 · minimal functional X1C split

Eight objects, no transverse printer cuts and concealed magnetic closure; one-arm test remains.

3MF READY



Gem inserts · 13 locations
Flat-back V1 · one X1C plate

Separate flat-backed resin/transparent inserts with matched recessed seats across the suit.

TEST-FIT ONE



Panel IDs · 82 bodies
V12 · body-facing recessed labels

0.5 mm-deep identifiers preserve exterior bounds and maintain ≥1.9006 mm backing.

PUBLISHED

OPEN GEOMETRY

W04–W07

Preserve intact C01. Refit the eight waist lames and resolve the measured W04/W07 overlaps at ≥0.2 mm nominal clearance, then separate remaining below-belt bodies and re-run full-body collision proof.

PHYSICAL PROOF

Lower helmet section • one forearm/cuff • both elbows • pauldron strap route • one representative gem • chest closure coupon.

THEN PROMOTE

Rebuild printer-specific chest projects from C01/C02 V4, validate every 3MF assignment, and render a fresh V37 walk/assembly proof after the waist geometry closes.