

Nanopublication – Technical Construction – Internal Chimney Architecture

by Arnaud Quercy · BIRD (Charlie Parker) · 2024



CLAIM 3: TECHNICAL CONSTRUCTION – INTERNAL CHIMNEY ARCHITECTURE

The complex interlocking geometry required internal chimney channels for steam escape during firing. Without these hidden vents, thermal stress would shatter the piece—structural engineering invisible in the final form, paralleling bebop's technical mastery beneath expressive surface.

CONTEXT

The geometric complexity of the sculpture—with its interlocking planes, curved bands, and cantilevered elements—posed significant structural challenges during fabrication. Ceramic undergoes irreversible vitrification during firing, with temperatures reaching 1000-1300°C depending on clay body and desired finish [2]. During this process, residual moisture and organic binders within the clay body convert to steam and gases that must escape; without adequate venting, internal pressure builds and causes catastrophic failure—the piece explodes or cracks [3].

I engineered internal chimney channels within the geometric forms—hollow vertical cores and gaps between interlocking planes—to allow steam escape during firing. These channels are invisible in the final piece, hidden within the architecture itself. The viewer sees only the completed geometric forms; the engineering that made their survival possible remains concealed.

This technical problem-solving was not optional. The ambition of the geometric configuration—planes that cantilever outward, curved bands that wrap around the central sphere, the overall structural complexity—demanded this hidden infrastructure. I could not simplify the geometry without abandoning the ideamorphic translation of bebop's harmonic complexity. Therefore, the engineering had to solve for the ambition.

This parallels bebop's technical mastery: the hours of practice, the harmonic knowledge, the physical technique required to execute Parker's lines at tempo. The listener hears fluid improvisation; the difficulty is masked. Similarly, the sculpture presents geometric coherence; the structural problem-solving that enabled it remains unseen. The internal chimneys are bebop practice made ceramic—the hidden work that enables the visible result.

REFERENCES

[1] Arnaud Quercy (2024). BIRD (Charlie Parker) – Catalogue raisonné. <https://arnaudquercy.art/en/catalogue-raisonne/AQC0578.html>

[2] "Ceramic Material." *Wikipedia*, https://en.wikipedia.org/wiki/Ceramic_material. [URL to be added]

[3] "Kiln." *Encyclopædia Britannica*, <https://www.britannica.com/technology/kiln>. [URL to be added]

WHERE THIS WORK LIVES

Series: Jazz Legends
Collection: Untamed Creations
Technique: Ceramic

EXHIBITIONS

Rencontres au Marché de la Création (2024-04-23 → 2024-12-31, Marché de la Création - Paris Montparnasse, Paris)

Salon d'art contemporain - Metamorphose, Paris (2024-12-26 → 2025-01-05, Halle des Blancs Manteaux, Paris)

Permanent Collection 2025 - Resonance in Form (2025-01-01 → 2025-12-31, arnaudquercy.art, Paris)

Paris Studio Visit (2025-02-18 → 2025-02-18, Artist's Studio, Paris)

Marché d'Art Contemporain - Seine Port (2025-05-17 → 2025-05-17, MAC Seine-Port, Seine-Port)

Nuit des Artistes, St Germain-en-Laye, France (2025-05-24 → 2025-05-24, La Nuit des Artistes, Saint-Germain-en-Laye)

Marché de l'Art de Saint-Germain-en-Laye, 17ème édition - France (2025-06-14 → 2025-06-14, Marché de l'Art, Saint-Germain-en-Laye)

Salon d'art contemporain - Metamorphose 2025-2026, Paris (2025-12-26 → 2026-01-04, Halle des Blancs Manteaux, Paris)

Art Quam Anima - Pre-opening (2026-01-31 → 2026-02-28, Art Quam Anima, Paris)

Through the Aperture — Research on Harmony (2026-03-09 → 2026-04-30, Art Quam Anima, Paris)

OTHER WORKS IN THIS SERIES

Blue Monk Ron Carter

Elvin Jones, Jazz Machine

Birth of The Bop - Bud Powell, 1924 -1966

The Hands of Scott Lafaro

Ornithology

Birks Works

Nefertiti La Belle est venue

The Saxophonist

Charles Mingus

Parisian Thoroughfare

Bird, Jam Blues - July- 1952

DOCUMENTED AT

Catalogue Raisonné — BIRD (Charlie Parker) — BIRD (Charlie Parker) — Cubist Jazz Homage — Arnaud Quercy (2024)

Gallery — BIRD (Charlie Parker)

Nanopublication — BIRD (Charlie Parker) — Digital Image Documentation - aqc0578_img_full_2487x3731_webp

Nanopublication — BIRD (Charlie Parker) — Physical Specifications

Nanopublication — BIRD (Charlie Parker) — Ideamorphic Translation — Bebop Harmonic Complexity → Geometric Interlocking

Nanopublication — BIRD (Charlie Parker) — Symbolic Fusion — Bird + Saxophone in Cubist Form

Nanopublication — BIRD (Charlie Parker) — Material Fabrication — Terre Blanche, Chamotte, Beeswax

Nanopublication — BIRD (Charlie Parker) — Personal Tribute — Bebop as Formative Devotion

THEMATIC ELEMENTS

Charlie Parker tribute sculpture

cubist ceramic sculpture

bebop art

Untamed Creations collection

geometric abstraction

jazz-inspired sculpture

Arnaud Quercy ceramics

matte ceramic on metal

EPISTEMIC PROFILE

Claim type	artistic statement
Voice	first person
Epistemic status	factual record
Methodology	ceramic engineering
Certainty	high

CHECKSUM (SHA-256)

153c6ccefac95ae6d469d451daea3fe90e5c012e50fc65270b8266c197bec2c2

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