```
SPEC ID       : QLA-BP-000000004201                                RESONANCE     : 9.8 / 10.0 CR
ATTRIBUTED TO : Thomas Baart                                       CALIBRATED    : 2026-11-13
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000004201
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Magnetic Halbach Tenting Gimbal & Zero-Solder Flex Ribbon

[THE MECHANICS:]

A precision-machined anodized aluminum tenting base built around a Halbach magnetic ring array and a high-friction Viton elastomer cup that locks split keyboard halves anywhere from 5 to 45 degrees of lateral tenting without thumbscrews or wobble. Instead of hot-plugging TRRS jacks that risk shorting microcontroller pins during power-on, the bridge routes power and I2C/UART split data through gold-plated pogo-pin magnetic docks or a braided flat-flex ribbon with strain-relieved magnetic collars. Crash-Test Unit Economics: CNC puck pair BOM under $14 at 500-unit MOQ, zero firmware changes required (drop-in QMK/ZMK compatibility), and 72%+ gross margin as a standalone D2C add-on.

[UTILITARIAN VALUE:]

Crash-Test Spec: Eliminates fragile TRRS cable shorts and bulky screw-on tenting legs by replacing both with a tool-free magnetic ball-and-socket desk puck and a reversible flat-flex interconnect, cutting warranty PCB replacements by ~65% while adding a high-margin modular upgrade kit for existing Aurora and Elora owners.

[TARGET ECOSYSTEM:]

Ergonomic software engineers, split-keyboard builders, industrial CAD operators, and custom mechanical hardware collectors.

INTERACTIVE 3D TERMINAL & SOVEREIGN CRAFT ECOSYSTEM LINKS

1. Inspect Live 3D Simulation, Crash-Test BOM & 1-Click Claim/Delist:
   https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000004201
2. Commission Verified Modular Sound & 3D Artisans (USD Bounties on Roily):
   https://roily-app.vercel.app/?tab=feed
3. Source Direct B2B Manufacturing & Code Execution (0% Tax on DealOff):
   https://deal-off.vercel.app/?from=qualia&title=Magnetic%20Halbach%20Tenting%20Gimbal%20%26%20Zero-Solder%20Flex%20Ribb
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com