

Omnitone – Rosci

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Making Hyper-Complex Percussion With Rosci (Eurorack)

The **Rosci** module, as described in the manual, is a highly flexible digital oscillator designed to excel at customized waveform generation. Its ability to morph between shapes, interpolate, and introduce nonlinearities makes it perfect for *unusual, percussive, and detailed rhythmic material*, especially when you combine it with external rhythmic modulation sources.

Below is a detailed strategy for achieving **densely rhythmic, polyrhythmic, and highly complex percussion sequences** using Rosci, along with tips for maximizing its uniqueness and punch.

1. Use Rosci As a Percussive Voice

Set Up Rosci as a Drum Voice:

- **Mode:** Keep Rosci in VCO mode for metallic digital drums; flip to LFO mode for slow, generative CV percussive triggers.
- **Waveform Complexity:** Use the *Generate* and *Complexity* parameters to craft transient-rich, short, inharmonic wave shapes. Try 2-6 points for clicky, snappy percussive attacks; add harmonics for metallic noise.

- **Roundness and Formants:** Experiment with these to mimic physical, vocal, or organic drum-like timbres.
 - **Detune:** Detune for percussive clashing overtones.
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2. External Rhythmic Control for Polyrhythms

Triggering & Sequencing:

- **Trigger Input:** Patch different trigger/gate streams (e.g., from Euclidean, polyrhythmic, or random step sequencers) into Rosci's trigger input.
 - Each distinct trigger pattern can activate Rosci at off-grid, overlapping rhythms for polyrhythms or odd time signatures.
 - **V/OCT Input as Pattern Parameter:** Sequence Rosci with shared or independent melodic or non-traditional *pitch patterns* (e.g., microtonal, odd scales) for further rhythmic variation.
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3. Modulate the Sound for Variation

Assuming you have several modulation sources (LFOs, random generators, sequencers):

- **CV Inputs:** Patch rhythmic CV sources into Complexity, Harmonics, Formants, and Detune.
 - E.g., send clock-divided or probability-skipping gates into Harmonics/Complexity for per-step timbral changes that sync or desync with Rosci's triggers.
 - **Envelope & Random:** Patch fast, percussive envelopes or stepped random voltages (e.g., sample-and-hold based on polyrhythmic triggers) to Roundness or Formants for morphing attacks/sustains.
 - **Morphing & Interpolation:** Switch interpolation methods mid-sequence for jumps between sharp and smooth transitions—emphasize punchy vs. clicky textures.
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4. Patch Ideas for Complex Rhythms

- **Multi-Trigger Input:** Combine several gate patterns with a logic module (OR, XOR) to drive Rosci's trigger input for interlaced, complex rhythms.
 - **FM/AM:** Use an audio-rate VCO or fast envelope to modulate the pitch (V/OCT) input for "FM drum" or clangorous bell sounds, or modulate parameters for constantly changing attacks.
 - **Manual Play:** Tap out triggers live for fills, then automate them for evolving patterns.
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5. Unique Percussive Effects

- **CV-Controlled Switching:** Use a sequencer to rhythmically switch/interpolate Rosci's parameters in extreme ways, turning each trigger into a seemingly new drum/click sound.
 - **Formant Compression:** Set Formants and Harmonics to extremes for "vocal percussion"—Kabuki or robotic-sounding hits.
 - **Max Detune:** Sweep Detune with random or sneaky slow LFOs to create moving, phasey percussive ripples.
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6. Combine With Effects

- **Resample:** Route Rosci to a granular or delay module and re-trigger with polyrhythmic gates.
 - **Ring Mod/Distortion:** Feed output into analog ring modulation or distortion for raw, accentuated texture.
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Summary Table

Feature	Rhythmic / Percussive Application
Generate	Make new per-hit waveforms on triggers
Complexity	Morph between attack types
Roundness	Control punch/snap versus mellow
Harmonics	Shift metallic/woody/raspy content
Formants	Vowelly, vocal timpani
Detune	Adds movement; detune for metallic clangs
V/OCT	Sequence for melodic or FM drum sounds
Output	Use as audio or trigger for next module

Tips:

- Use different, unsynchronized modulation clocks for each parameter control.
 - Feed Rosci's output to a VCA controlled by rhythmic envelopes for even more articulation.
 - Resample or layer Rosci with other drum modules for hyper-complex grooves.
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