

# 2hp — Pitch

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- [Manual PDF](#)
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## Creative Ways to Use 2hp Pitch in Your Modular System

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The 2hp Pitch is a compact, time-domain pitch shifter with integrated wow & flutter for authentically “wobbly” tape and vinyl-like pitch modulation.

Below are some inventive patch ideas and module combinations to maximize its potential in your Eurorack system:

### 1. Faux Dual Oscillator (VCO Pairing)

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#### Concept:

Use the Pitch module after a basic VCO (analog or digital) to easily achieve dual-oscillator timbres, stacked harmonies, or dense mono/poly textures without a second VCO.

#### How:

- Patch your primary VCO into 2hp Pitch (audio in). - Pitch-shift the output up/down by a set interval (fifth, octave, etc.) with CV or the pitch knob. - Mix this with the VCO's dry output using a mixer, or blend the dry/wet on Pitch itself. - Heavy wow & flutter can simulate “drift” in one oscillator—perfect for classic synth warmth. - **Example Modules:** Make Noise STO, Intellijel Dixie II+, Mutable Instruments Plaits.

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## 2. Harmonic & Timbral Processing (Waveshapers/Folders)

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### Concept:

Send pitch-shifted audio into a waveshaper/wavefolder or filter for unique harmonic results. Pitch shifting introduces new intervals and overtones that react in dramatic and unexpected ways to further processing.

### How:

- Audio Source → 2hp Pitch (subtle or extreme shift) → Wavefolder (e.g., Befaco Chopping Kinky) or Filter (e.g., Ripples). - Modulate the Pitch's wow & flutter for animated, organic sonic movement—especially good for drones or pads.

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## 3. Creating Lush Textures (Reverb/Delay/Looper)

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### Concept:

Add “tape machine” character to reverbs, delays, and loopers by pitching and fluttering the input or output. Great for generative ambient, lush sound beds, and pseudo-tape warble.

### How:

- Place 2hp Pitch before or after a looper (e.g., 2hp Loop, Mutable Instruments Clouds for granular looping). - For shimmer-style effects, run reverberated audio back into 2hp Pitch and blend octaves. - Modulate wow & flutter for deep tape echo feel (send short “tape” repeats to delay, e.g. Make Noise Mimeophon or Erica Synths Pico DSP).

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## 4. Glitchy Percussion Reshaping

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### Concept:

Transform drum loops or one-shots (from a sample player or drum module) with extreme pitch shifting or modulated wow & flutter, producing glitch, IDM, and experimental textures.

**How:**

- Sample Source/Drum Machine → 2hp Pitch (modulate wildly with stepped random, sample & hold, or sequencer CV) → output. - Combine with a drum filter or stutter module to accentuate lo-fi, chopped flavors. -

**Example:** Patch the W&F CV input with an LFO, S&H, or random source (e.g., Mutable Instruments Tides, Wobblebug).

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## 5. Animated Sequences & Dynamic Melodies

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**Concept:**

Animate pitch shifts via sequencer or CV for evolving riffs and melodies, or create harmonic counterpoint with arpeggiated lines.

**How:**

- Use a pitch CV/Gate sequencer (e.g., Arturia Keystep, Malekko Varigate) to modulate both your VCO and the Pitch's 1V/oct input. Offset or invert one of the sequences for rich counterpoint. - Animate the Mix CV input for morphing between dry and wet signals in real time, using a synced envelope or LFO for dynamic movement.

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## 6. Lo-Fi Freeze and Harmonic Freezing

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**Concept:**

Pair with 2hp Freez or another looper/stutter module for sound design. Freeze slices of heavily pitch-shifted and fluttered audio for evolving lo-fi pads and textures.

**How:**

- Chain: VCO or Noise > Pitch (max wow/flutter) > Freez > Reverb/texture FX. - Modulate both modules' parameters for a range from mild tape shimmer to total glitch meltdown.

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## 7. Stereo Widening/Detune Techniques

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### Concept:

Send a dry signal to one channel and the pitch-shifted, fluttered signal to another for instant stereo wideness and animation—excellent for thick basses, leads, or synth layers.

### How:

- Use a mult or buffered splitter. - L ↔ dry, R ↔ wet (pitch up, wow/flutter modulated). - Pan hard left/right for classic chorus, or modulate pitch for extra width.

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## General Module Type Recommendations

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- **VCOs** (any flavor) for harmonic stacking
  - **Mixers/Crossfaders** for dry/wet blending (e.g., Happy Nerding PanMix, Doepfer A-138)
  - **Loopers/Granular Samplers** (Mutable Clouds, 2hp Loop)
  - **Envelope Generators/LFOs/Random** (modulate Pitch/W&F CV)
  - **Delays/Reverbs** for ambient tails
  - **Drum Machines/Samplers** for unpredictable percussion
  - **Wavefolders/Filters/DISTORTION** for sculpting shifted tones
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### Further Reading:

[2hp Pitch Manual PDF](#) (official)

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