DRIVE TUBE SAT OUTPUT   LF ← ROTOR BALANCE → HF

HUGHES & KETTNER TUBE ROTOSPHERE

Congratulations on choosing our **Hughes & Kettner Tube Rotosphere plugin**.

The Tube Rotosphere plugin is an authentic digital emulation of the acclaimed Hughes & Kettner Tube Rotosphere MK II rotary speaker simulator. Celebrated for its rich tube-driven character and highly musical rotary modulation, the original hardware became a secret weapon for keyboardists and guitarists seeking the iconic swirling depth of a classic rotary cabinet with the warmth of real tube saturation. This plugin version faithfully captures every nuance of its analog counterpart, offering everything from subtle motion to dramatic Doppler-infused motion, now seamlessly integrated into your digital rig.

Key Features

- True-to-life emulation of the Tube Rotosphere MK II analog circuit and tube preamp behavior
- Independent rotor speed simulation with separate LF and HF controls, allowing precise adjustment in Hz or synchronized to DAW tempo
- Breaker switch for authentic ramp-up/down control and rotor stop emulation
- Tube saturation modeling with visual feedback via a Tube Sat indicator
- Rotor balance control for fine-tuning the blend between tweeter and woofer simulation
- Stereo signal path for wide, immersive rotary modulation

1. **DRIVE**: Adjusts the input gain and the amount of tube saturation. Increasing the Drive control raises the input level fed into the virtual tube stage, producing the characteristic warm, musical distortion associated with tube amps and rotary cabinets. For a clean rotary sound, set Drive so that the Tube Sat LED barely starts to light at your highest playing level.

2. **TUBE SAT(Led)**: Displays the onset of tube saturation. When the input signal reaches the threshold where the tube simulation begins to generate harmonic distortion, the Tube Sat LED illuminates, providing a visual reference for optimal drive levels.

3. **OUTPUT:** Controls the overall output volume of the effect. Use this control to match the plugin's output level to your DAW or signal chain, ensuring proper gain staging after the rotary and tube processing.

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1. **LF**: Sets the rotation speed of the low-frequency (bass) rotor in Hertz (Hz). This allows precise control over the modulation rate of the LF rotor independently of the HF rotor. When Sync is active, the LF Speed can be synchronized to the host DAW tempo, offering musically locked modulation options.

2. **ROTOR BALANCE**: Adjusts the balance between the low-frequency (LF) rotor and high-frequency (HF) rotor. Turn left to emphasize the low-end (more bass swirl) or right to bring out the highs (more shimmer and air). This allows fine tonal shaping of the rotary effect.

3. **HF:** Sets the rotation speed of the high-frequency (horn) rotor in Hertz (Hz). Like the LF Speed, this provides precise control over the horn rotation rate. When Sync is enabled, the HF Speed will follow the DAW tempo for perfectly timed modulation effects.
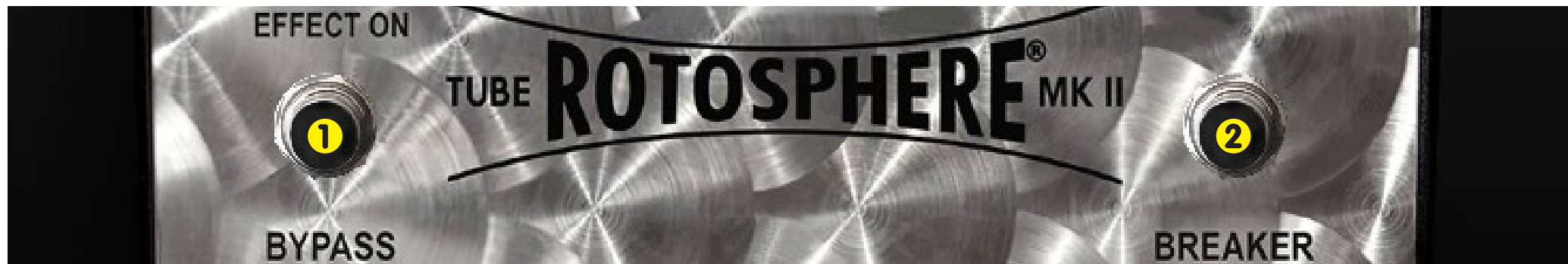
1. **BYPASS**: Activates or deactivates the effect. When engaged, the rotary speaker emulation and tube saturation processing are applied to the signal. When disengaged, the plugin operates in true bypass mode, passing the input signal unaffected.

2. **BREAKER**: Simulates the mechanical brake function of a real rotary speaker. Engaging the Breaker stops the rotation of both the LF and HF rotors, freezing them in their rest position. This allows you to momentarily disable the rotary movement while preserving the tube saturation and preamp coloration. When used this way, the Tube Rotosphere plugin can act as a warm tube preamp, adding harmonic richness and subtle compression to your signal without any modulation.

1. **INPUT MODE**: Selects the optimal input configuration depending on the instrument used.
   - **Guitar mode** adjusts the pre-EQ filtering and gain structure to better match electric guitars, offering a more focused frequency response and smoother drive behavior.
   - **Keyboard mode** provides a wider frequency range and headroom, ideal for keyboards, synths, bass, and other full-range sources.

2. **HOST SYNC**: Enables synchronization of the LF Speed and HF Speed parameters to the host DAW tempo.
   - **On**, the rotor speeds are locked to tempo-based subdivisions, allowing rhythmic synchronization of the rotary modulation with your project.
   - **Off**, rotor speeds are freely adjustable in Hz, allowing full manual control of the modulation rate.
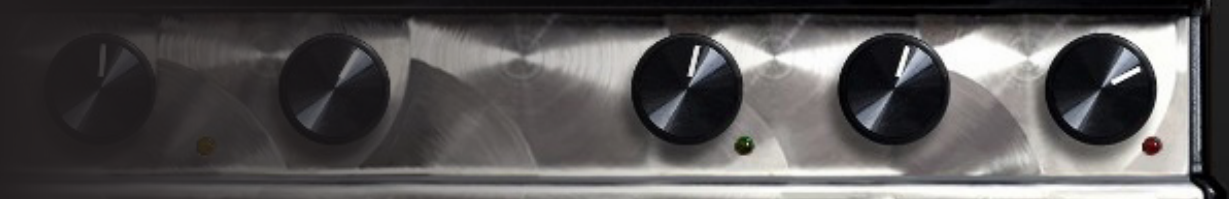
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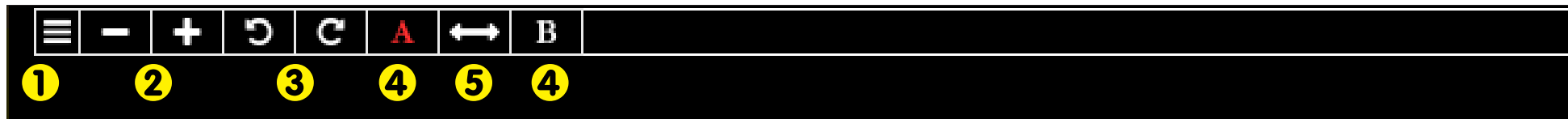
Top Toolbar

1. Open the manual and the information about the plugin

2. + and - buttons allow you to scroll through the presets

3. Undo/Redo changes made to the parameters of the plugin at any time

4. With A/B banks, it is possible to compare two different settings in an easy way. It is also possible to compare presets by loading them in the two different A/B banks.The red highlight will show the currently selected bank and what you will modify/save

5. Copy the settings from a bank to another, so you can make slight changes to the controls and compare the two settings for example

> Default

① ② ③ ④ ⑤

1. Shows you the active preset. Click on the label to see the preset list

2. Allow you to override the current selected preset

3. Save the current selected preset as a new preset with a name of your choice

4. Delete the selected preset

5. Bypass the plugin in order to compare your processed and unprocessed signal