



**PRESENTS**

## **Electric Grand EG70**



**The first Physical Modeling CP-70 Electroacoustic baby grand piano.**

## License

**EG70** version 1.0, copyright Guido Scognamiglio - SoundFonts.it - October 2008

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## System Requirements

Minimum System Requirements:

- ◆ Microsoft Windows 98se/ME/2000/XP/Vista
- ◆ Intel Pentium 4 @ 3000 MHz or AMD Athlon @ 3000 MHz
- ◆ 128 Mb of RAM
- ◆ 4 Mb of free disk space
- ◆ An ASIO compatible sound card

**EG70** is a VST plug-in, and needs a VST host application to run. We recommend [EnergyXT](#) or [Hermann Seib's VSThost / SAVIhost](#).

## Manual Installation

Copy the file EG70.dll (or whatever it may have been renamed to, in case of future updates) to your VSTplugins folder, usually

**C:\Program Files\Steinberg\VSTPlugins\**

According to the VST host application you're using, you have to recall this plugin inside your open project.

In case you have bought a license, install it before running EG70 to prevent it from running in Demo mode.

The DEMO version shows a reminder screen at start-up for a few seconds, then plays a white noise for 2 seconds every 10. No limitations are applied soundwise.

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## Instrument Background

The CP-70 was a portable electric piano invented during the seventies by the Japanese company Yamaha, also makers of renowned fine classic grand pianos. It was made for the touring musician who wanted to take an acoustic piano on the stage. It's a rock solid instrument that splits into two parts for better transportability. The structure is based on the keyboard and mechanics of a classic grand piano but with a smaller harp, less strings and shorter than a classic baby grand. There's no soundboard, and every note has its own piezoelectric pickup. The main preamplifier offers a basic 3-band equalizer and a tremolo effect. This piano had a significant role in the pop music of the seventies and the eighties, featuring in songs by well known musicians like Stevie Wonder, Genesis, George Duke, Simple Minds, etc. It is now back on the stage thanks to the British band "Keane", you can see it in the video of the song "Everybody's Changing". Every modern digital keyboard offering a wide variety of timbres has a patch inspired to the sound of the CP piano, and sometimes it's still preferred in genres like rock and pop where the producers want a brighter and more prominent piano sound.



## Plugin Description

**EG70** is a physical modeling simulation of a CP-70 electroacoustic baby grand touring piano.

Main features:

- ✓ Full Polyphony (73 notes)
- ✓ Adjustable sympathetic resonances
- ✓ Realistic response to keyboard dynamics
- ✓ Adjustable global tuning
- ✓ Four dynamic curves available
- ✓ Realistic control panel with active EQ and Tremolo effect
- ✓ Stereo tremolo mode (auto-pan)
- ✓ Adjustable note decay and release lengths
- ✓ Built-in stereo digital reverb
- ✓ On-screen help tips and readout values
- ✓ Low memory and CPU power needed
- ✓ Easy MIDI-Learn feature

**EG70** has a very natural response to keyboard dynamics and to player's style. You'll hear the benefits of physical modeling mostly when the sustain pedal is in use. The sound is warm and metallic at the same time, unpredictable, rich and natural like only a real piano can be.

## Panel Controls

- **Volume, Bass, Middle, Treble:** These are the main controls of the piano section. Adjust the output volume and the 3-band active EQ like on the real instrument. Leaving all knobs at middle position leaves the sound unchanged;
- **Tremolo On/Off, Depth, Speed:** This is the tremolo effect. You can turn it off and on with the switch and adjust speed (from 0,8 to 10 Hz) and depth. Leaving depth at 0 has no effect on the sound. You can also switch to a stereo tremolo effect by setting the appropriate option in the Global Options menu (please refer to next chapter);
- **Piano Model: Decay, Release:** With these knobs you can adjust some of the most common parameters affecting the sound: the decay and release times. If you wish a longer sustained sound, adjust the decay time; use the Release knob to adjust the time needed to completely mute the note when a key is released (and the sustain pedal is released as well);
- **Piano Model: Reson.:** With this knob you can adjust the amount of global sympathetic resonances. Keep in mind that you cannot exclude them completely, because they're part of the physical model and have a very important role in the generation of the sound;
- **Digital Reverb: Level:** Use this knob to turn the Digital Reverb effect on or off, and to adjust its volume. The dry sound will stay unchanged while the reverb will be added on top of it;
- **Digital Reverb: Size, Decay:** With these two knob you can model your virtual ambience. Size will establish the size of the environment into which the echo reflections will happen, and Decay establishes how long the echoes will last;
- **Digital Reverb: Spread:** You can use this knob to pass from a mono reverb to a wide stereo effect, resulting in a very natural and pleasant ambience effect. Please note that moving this knob may cause some glitches in the sound, so it is advisable to not move this knob while playing;
- **Digital Reverb: Tone:** A virtual environment can be made of different materials that affect the colour and the decay factors of the reverb sound. Use this knob to adjust this aspect according to your tastes.

## Global Options Menu

Here you can set a few options stored globally:

- **Tuning:** set the global tuning ranging from A=437Hz to A=443Hz where A=440Hz is the default setting. You can choose between Equal Temperament and Stretched Tuning, which is the kind of tuning most used for pianos;
- **Velocity curve:** choose the one that matches your MIDI keyboard and your playing style;
- **Wood Noise Level:** adjust the level of the audible noise produced by the wooden hammers that accompany each note;
- **Pedal Noise Level:** adjust the level of the noise produced when the sustain pedal is pressed or released;
- **Tremolo Mode:** You can switch between a mono tremolo (default) or a stereo auto-panner.

## Playing and usage tips

**It is recommended to set a short ASIO latency and to use a sample-rate not higher than 48 KHz for best performance.**

## Using the GUI controls

When you move a knob on the User Interface, a small display appears on the screen showing the current value of the active control. Passing your mouse pointer over the controls, a pop-up text describes their function.

Tips on using the interface:

- to reset a control to its default value, hold down CTRL and click it;
- for "fine tuning" knob movements, hold down SHIFT while moving the knob;
- all knobs react to both vertical and horizontal movement;
- hold down the ALT key to activate the circular control of the knobs.

## MIDI CC Mapping

You can assign your MIDI controllers to any of the available controls using the MIDI Learn function. It's very easy: just right-click on a knob or switch of your choice. A menu should pop-up. The first item shows the control's name, the second item shows the MIDI CC# currently associated to that control and the last item activates the MIDI Learn status. Click on "MIDI Learn", the tooltip text should say "Waiting for incoming MIDI data...". Now move a knob/slider/whatever on your physical controller. At this point you should see the virtual control following the movements of the physical control. To abort the "wait" state click on the first menu item, and to reset the assigned control (MIDI Forget) click the second menu item.