



## The Circuit

The basic circuit consists of 8 channels, grouped into stereo pairs, and a master compression engine that feeds back to each channel/stem.

Each channel is split into a side chain mix, which sums into the compression side chain. The control voltage generated is routed back through the stem compression mixer, where you can adjust the amount of compression folding back to each stem.

In addition to that, there is a direct stem output, and a fully featured compression section.

## The Philosophy

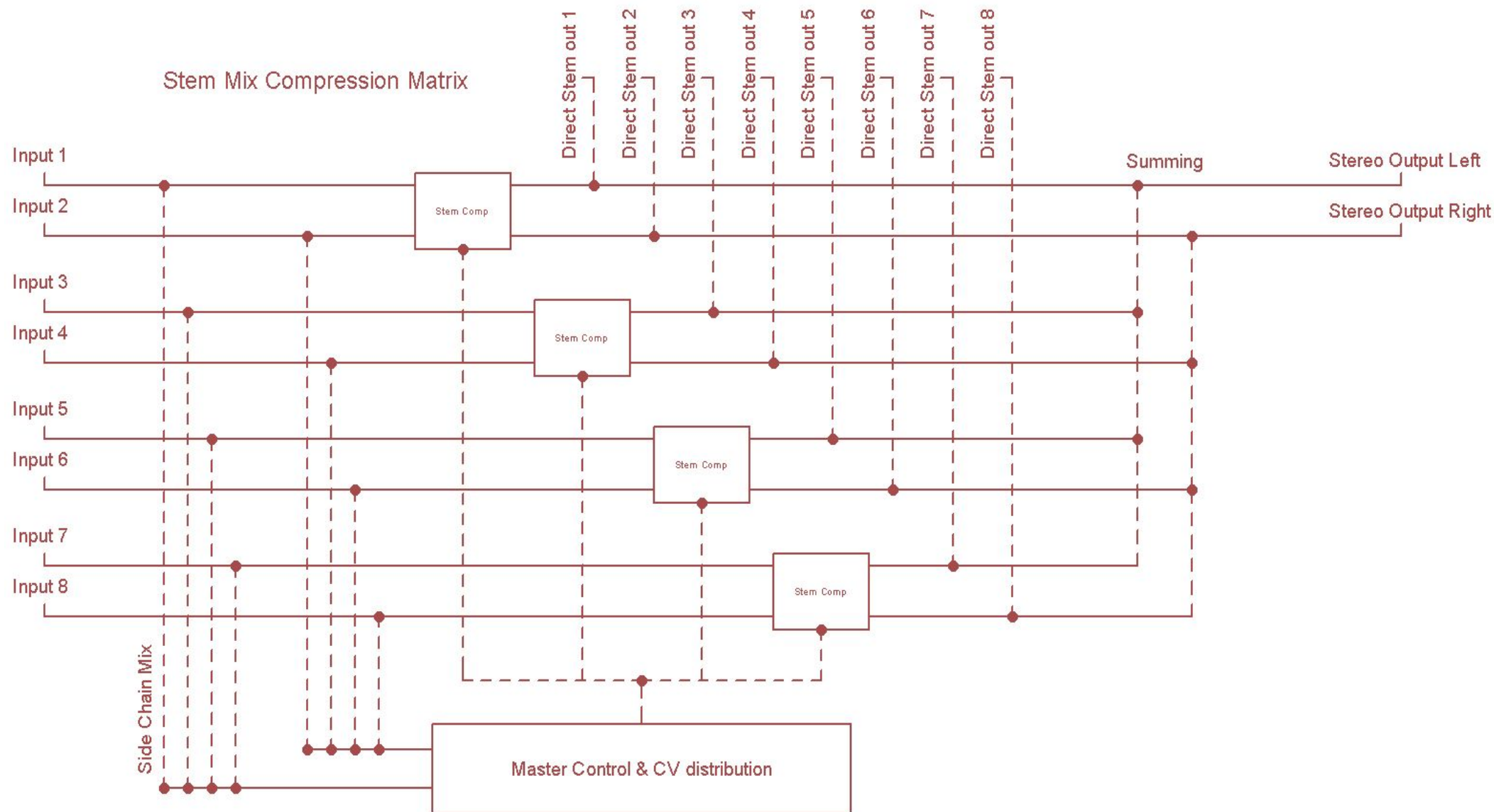
The aim was to create a flexible, channel-split mix-bus compressor for modern, hybrid and hardware mixing.

In extreme examples, it can also be used for individual tasks, i.e. a drum sub mixer, with only the snare attacking the compression circuit, or you can simply set all SC mix controls flat on all subgroups, summing to stereo.

The stem outputs on all channels are useful for delivering stems for further processing or stem mastering. The idea is, you can get 95% of the way rolling your stems back in a hybrid set-up, doing minor tweaks for mix polishing or mastering applications safely back in the box.

Stem outputs deliver the isolated tracks, with the master processing applied, as if the channel was still “part of the whole” in terms of buss processing.

## Stem Mix Compression Matrix



## Stem Mix

This is your standard, signal path gain controls.

The channel gain controls gain section come into play when adjusting levels relative to the offset in balance brought on by outboard processing, and also depends on how well the mix elements blend/mix during hybrid operation.

Range is +/-5dB

## Side Chain Mix

The Side Chain mixer adjust the levels going into the engine room of the master compression section. In essence, this lets you adjust what the compressor sees, and triggers off of.

You can do odd things, like bring up elements further than they are in the signal path to push harder, back off bass elements to inject less low end, or just set them all flat, so everything goes into the side chain as per usual.

What really matters is, how the SC Mix makes your compression react, but in the master section, you'll find a "SC LISTEN" function, which routes the Side Chain Mix to the output for auditioning. (Please note the fidelity of the Side Chain Mix is lower than the fidelity of the actual signal path, if you want to use it creatively for processing).

## Stem Compression

On a standard compressor, your compression/threshold sets the amount of compression. This is no different, apart from the fact, that you can send it “per channel”

To put it into context

- When you adjust the Side Chain Mix levels, you dial in the stereo mix the compression side chain sees.
- When you adjust the StemCompression, it determines how much compression folds back to each stereo pair.

On the Compression Matrix II, I added the option of doing upwards compression as well as downwards, feeding off the same trigger.

There is a master dynamics dial in the master section for global nudges, as well as a master gain for unity gain compensation.

## Attack

The attack time of the dynamic processing.

Note that the fastest times are marked red on front, since these can cause distortion on some program material.

The faster settings can almost make the unit sound “exhausted” in some instances, which is bad, but they can also apply an extremely pleasant tone, or even a hint of distortion, which is extremely pleasing and helpful on some program material, which is good. I didn’t want to limit the range, just to make sure there was no risk of anyone getting into trouble, so instead, I marked the danger-zones.

## Release

The release time of the dynamic processing, featuring 2 auto settings, markedly different from each other.

## Gently

Default ratio is around 2:1, and you can activate this function for a softer grab/smoothen knee.



## Info

Units are hand built by Gustav Goly in Odense, Denmark.

In the event of a problem with your Stem Mix Compression Matrix,, unplug it, and contact your dealer, or GOLY direct for repairs.

### Contact

Mail [Info@goly.dk](mailto:Info@goly.dk)

Web [www.goly.dk](http://www.goly.dk)

Phone +45 53161601

I do not answer unscheduled calls, so please book a call by mail in advance, if you need to talk.

Your unit is serial #

Gustav Goly

## Declaration of CE Conformity

The construction of this unit is in compliance with the standards and regulations of the European Community.