

ABOUT THE SOUND LIBRARY

The Roller Coaster Sound Builder was created to provide a huge variety of high quality roller coaster sound effects in a usable form with multiple takes. The sounds were recorded during three days in <u>Särkänniemi Amusement Park</u>, Tampere, Finland in 2016.

For capturing clean roller coaster passbys and onboard recordings, we recorded the rides in the early morning, before the park was opened for the visitors. To capture also the lively amusement park sound effects with people screaming on roller coasters, we stayed there for the rest of the day to get as many natural screams as we could. We had full access to the park so we could place microphones to the optimal places.

In total, all five roller coasters of the amusement park were recorded with multiple microphone positions, including LCR + handheld microphones for maximum quality and usefulness in multichannel mixing and game sound design. Three roller coasters were also recorded onboard, rigging multiple microphones on the trains. The

package includes raw recordings for every channel. For some tracks, also RX5 versions are included, where the background noise is removed to provide only the cleanest roller coaster sound.

All the recordings were carefully edited and metatagged in easy to use sound clips. Two roller coasters also include a Pro Tools project file with all the different channels synced in place. This allows you to easily build your own roller coaster sounds with our multimicrophone setups.

In addition, during the recording sessions we captured many other amusement rides and park ambiences. They, including a pirate ship, log flume, and Disk'O Coaster can be found in the Amusement Rides & Ambiences sound library from our website, <u>effectsense.com</u>

This document includes spec sheets for all five roller coaster and information about how they were recorded.

- Pyry Survo, Effect Sense

NEW COASTER UPDATE 07/2018

A new roller coaster, triple-launch steel coaster named Hype, was opened in the <u>Särkänniemi Amusement Park</u> in the summer 2017. The ride is the Sky Rocket II model by Premier Rides, and it is the only of its kind in the Northern Europe. Obviously I had to go and record it.

This update includes my recordings from the new coaster. Again, I was able to record clean passbys and onboard sounds when the park was closed. In addition, a lot of new passby screams are included, recorded at the station which is the part of the track with the highest speed (100 km/h).

I had two recording sessions: One for the clean onboard recordings, and another day for the clean passbys and screams. The clean passbys were recorded in the morning before the park was opened, and screams when the visitors arrived. I was even able to record below the station, from a place that is not accessible to the public. The passbys sounded really fast and aggressive there.

Due to the small space and less time available at the recording locations, I couldn't use the heavy LCR rig this time. Instead, I went with lighter equipment. For the clean passbys I followed the train with a MKH 416 on one hand and a Sony PCM-D100 in the other hand. For the screaming passbys I used only the D100 to keep low profile as I was standing on the station level together with the park visitors.

As always, the sounds were carefully edited and metatagged for easy and quick use.

With this update, the Roller Coaster Sound Builder now includes six different roller coasters in total. We're really proud of this collection and glad to share it with you.

Enjoy your new sound effects!

- Pyry Survo, Effect Sense info@effectsense.com

RECORDING EQUIPMENT

PASSBYS:

#1. LCR + handheld Sound Devices 744t recorder 2x Sound Devices MM-1 Left/right: 2x Sennheiser MKH60 Center: Oktava MK012-01 cardioid Sennheiser MKH416 tracking along

#2. Quadrophonic 4.0 setup Superlux S502 ORTF mic Zoom H6 XY mic Zoom H6 recorder

#3. Stereo ORTF:

2x Audio Technica AT4053B 2x Sound Devices MM-1 Zoom H6 recorder

#4. Stereo handheld: Sony PCM-D100 portable recorder Rycote Portable Suspension

ONBOARD:

Various setups with:

Zoom H6 / F8 recorder Sennheiser MKH50 Shure SM57 Sennheiser MD421-II

2x Crown GLM-100 2x Ehrlund EAP contact mic

Stereo handheld (only for small steel roller coaster):

Sony PCM-D100 portable recorder **Rycote Portable Suspension**





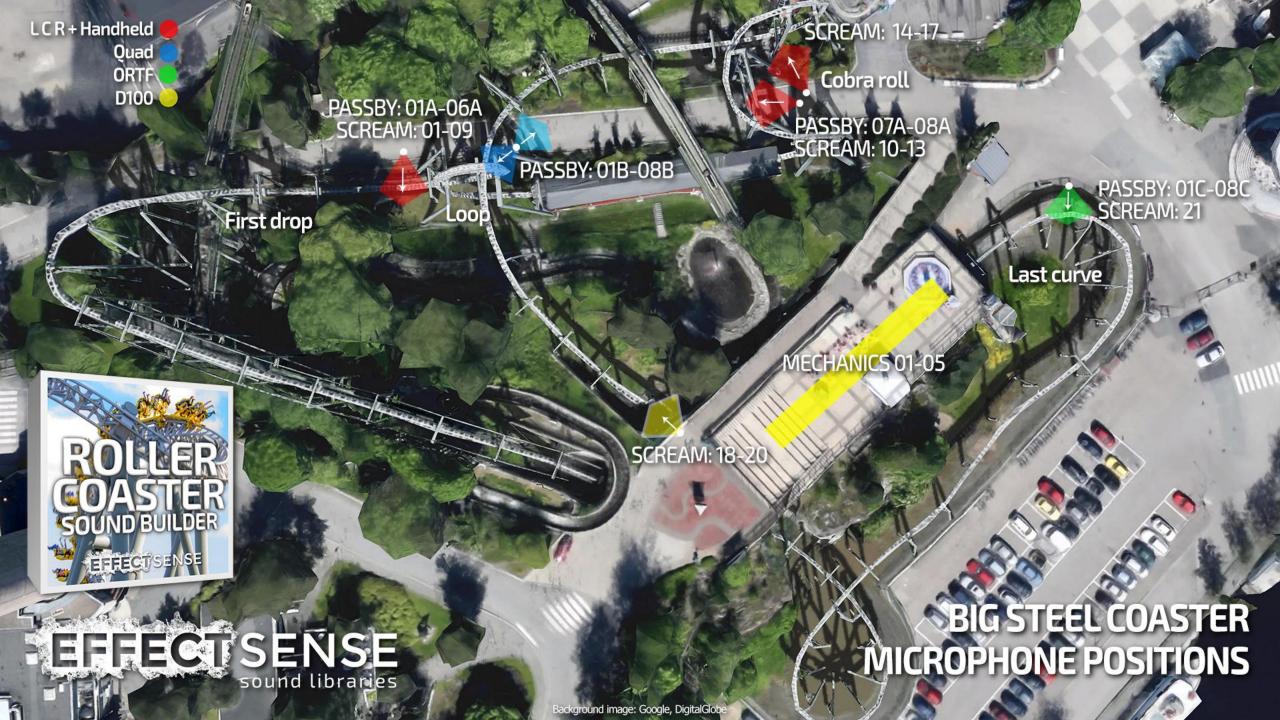


BIG STEEL COASTER

Tornado is a steel inverted roller coaster with a clanking chain lift hill, big drop, loop, cobra roll, two heartline rolls and two tunnels. The station and the first heartline roll are underground in a cave cut out of natural rock. The first drop and multiple inversions provide great, classic roller coaster passbys and screams.

TORNADO SPEC SHEET		
Opened in	2001	
Manufacturer	Intamin Amusement Rides	
Model	Suspended Coaster	
Trains	2 trains, 24 seats per train	
Top speed	75 km/h (46.6 mph)	
Track length	700 m (2,296 ft)	
Ride duration	~2:10 min	

- → Read more about Tornado on the manufacturer's site
- → Watch Tornado onboard POV video on YouTube

















FLYING COASTER

Trombi is a steel flying roller coaster with a spiral lift, tight curves and two heartline rolls. Due to the metal structure and small footprint, it rattles more than Tornado and gives multiple different passbys in a single track cycle recording.

TROMBI SPEC SHEET

Opened in	2005
Manufacturer	Zamperla
Model	Volare
Trains	6 single car trains. 4 riders per train
Top speed	41 kmh/h (25 mph)
Track length	391 m (1,282 ft)
Ride duration	~2:18 min

- → Read more about Trombi on the manufacturer's site
- → Watch Trombi onboard POV video on YouTube



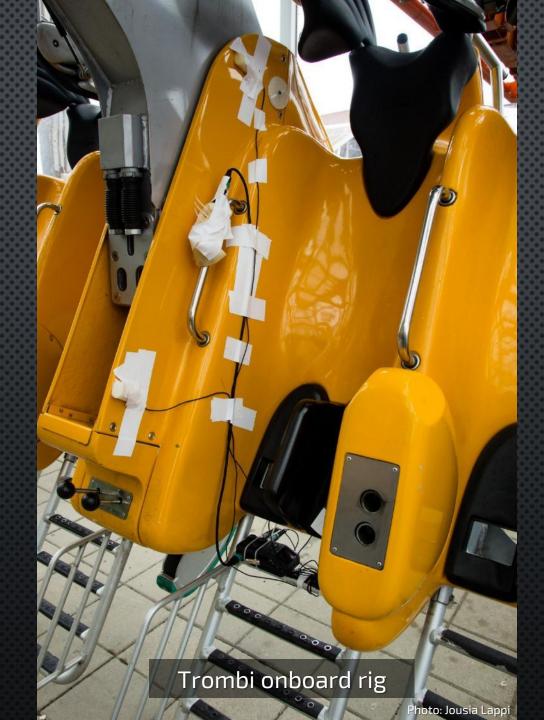
LCR + Static mono ORTF





FLYING COASTER MICROPHONE POSITIONS









IMPULSE COASTER HALF PIPE

IMPULSE COASTER

Half Pipe is a U-shaped steel launched shuttle roller coaster. It uses aggressive-sounding electromagnetic <u>Linear Synchronous Motor (LSM or LIM)</u> to boost the vehicle to high speed. Back and forth movement gives multiple high-speed passbys in a single take.

HALF PIPE SPEC SHEET

Opened in	2003
Manufacturer	Intamin Amusement Rides
Model	Half Pipe Coaster
Trains	One skateboard-shaped vehicle, 16 seats
Track length	70 m (230 ft)
Top speed	70 kmh/h (45.5 mph)
Ride duration	~1:30 min

- → Read more about Half Pipe on the manufacturer's site
- → Watch Half Pipe onboard POV video on YouTube







LAUNCHED COASTER HYPE

LAUNCHED COASTER

Hype is a triple-launch steel roller coaster with an electro-magnetic LSM system that boosts the train to a very high speed. It has a modern and smooth steel coaster sound without any rattling or squeaking. The train passes the station multiple times at high speed providing intense and fast passby screams.

HYPE SPEC SHEET	
Opened in	2017
Manufacturer	Premier Rides
Model	Sky Rocket II
Trains	1 train, 12 seats per train
Top speed	100 km/h (62.1 mph)
Track length	260 m (853 ft)
Ride duration	0:55 min

- → Read more about Hype on Roller Coaster DataBase
- → Watch Hype onboard POV video on YouTube









MOTORBIKE COASTER

MotoGee uses a moaning flywheel launch to accelerate from 0 to 67.5 km/h in only 2 seconds. Surprisingly fast launch causes great, high-speed screams. Minimal track footprint results in multiple passbys with a single track cycle recording.

MOTOGEE SPEC SHEET	
Opened in	2010
Manufacturer	Zamperla
Model	Moto Coaster
Trains	2 trains, 12 riders per train
Top speed	Accelerating to 67.5 kmh/h (42 mph) in 2.0 seconds
Track length	364 m (1,194 ft)
Ride duration	~2:20 min

- → Read more about MotoGee on the manufacturer's site
- → Watch MotoGee onboard POV video on YouTube









SMALL STEEL COASTER WHIRLEY WORM



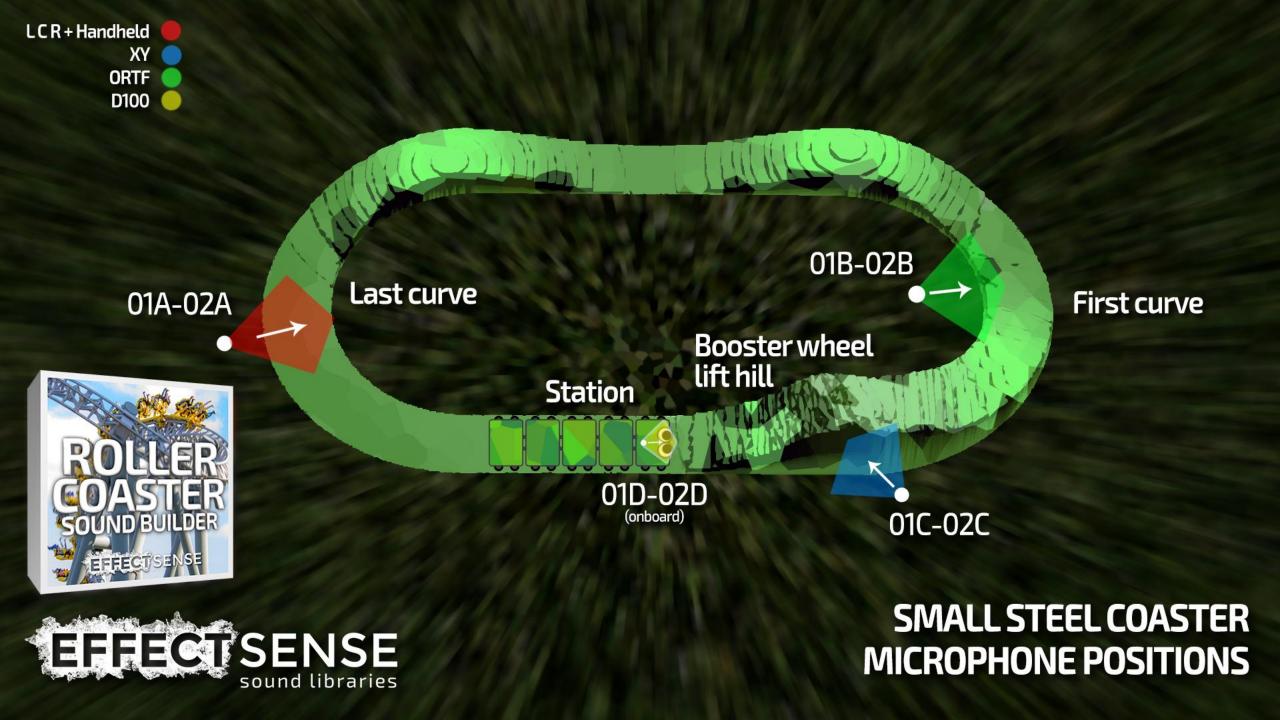
SMALL STEEL COASTER

Oval-shaped Whirley Worm (Vauhtimato in Finnish) is a pleasant-sounding steel roller coaster. A normal ride consists of 5 track cycles giving multiple classic roller coaster passbys. A booster wheel lift hill propels the train for a new cycle.

WHIRLEY WORM SPEC SHEET		
Opened in	1984	
Manufacturer	Zierer	
Model	Sit down family coaster	
Trains	1 train, 10 seats	
Top speed	26 km/h (16.2 mph)	
Track length:	60 m (197 ft) x 5 times	
Ride duration	~1:20 min	

→ Watch Whirley Worm onboard POV video on YouTube











For more information about our recording sessions and sound libraries, visit our site at <u>effectsense.com</u>

If you have any questions or comments about our sound libraries, please send us a message. We'd be glad to hear from you.

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