Compressors are employed for shortening of femtosecond laser pulses. They are based on spectral broadening (chirping) of femtosecond laser pulse in noble gas-filled capillary with subsequent pulse compression by grating or prism compressor. The pulse compression (ratio of initial pulse duration to the compressed pulse duration) varies from 5 to 10 for laser pulses with duration from 50 to 300 fs. The energy conversion efficiency reaches 50% for 0.01-1 mJ laser pulses. The compressor size is 130x50x15 cm^3 (LxWxH).

The Compulse compressor family includes two standard models, namely Compulse-800 and Compulse-1050 (designed for 800 nm and 1058 nm sources respectively). Customized requests are also welcome.

- Up to 1:10 compression ratio
- Energy efficiency 50%
- Input pulse energy up to 1 mJ
- 800 and 1030/1058 nm standard models

Spectra and autocorrelation traces:
- purple curves – output pulse of ytterbium laser with duration of 290 fs
- blue curves – after spectral broadening in a capillary filled with Xe and subsequent compression down to 27 fs.