

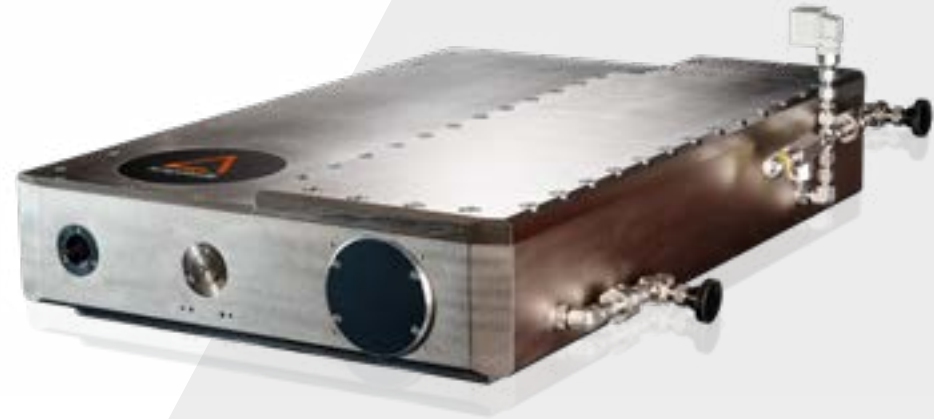
# COMPRESS

## *Industrial pulse compression extension*

The result of several years of intensive research and development efforts, Amplitude's Compress pulse shortening extensions reduce pulse durations well below  $<100$  fs beyond the intrinsic capabilities of all other laser systems on the market.

The patented design of Compress delivers ultrashort pulse duration down to few cycle with the highest throughput efficiency, preserves exceptional beam quality, and provides pristine short and long term stabilities.

Compatible with our entire product range, Compress enables users to apply novel and unique approaches to material processing as well as explore ultrafast phenomena at unprecedented repetition rates and uptime with few-cycle time resolution.



### Applications

#### **Industry:**

- > Micromachining

#### **Science:**

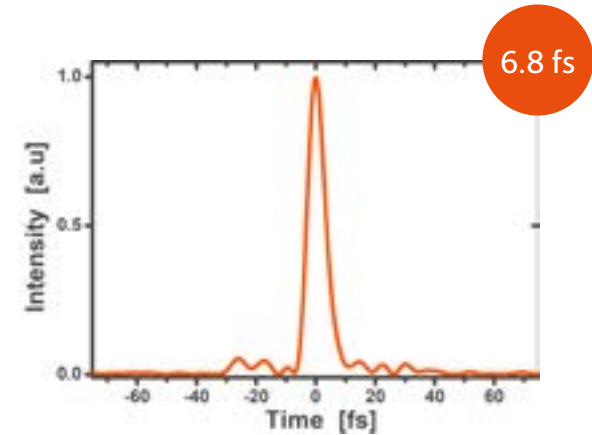
- > Ultrafast Spectroscopy
- > High harmonic generation
- > Attoscience

### Key Features

- > Few-cycle pulses
- > Ultra-high efficiency
- > 1030 nm and 515 nm operation
- > Industrial design for 24/7 operation

# Specifications

	Compress 10	Compress 50
Input Average Power	Up to 300 W	
Input Energy	Up to 3 mj	
Input Pulse Duration	< 150 fs to 1 ps	
Operation Wavelength	1030 nm and 515 nm	
Repetition Rate	from single shot up to 40 MHz	
Throughput	up to > 80%	up to > 50 %
Compression Ratio	up to > 10	up to > 50
Output Pulse Compression	down to < 20 fs	down to few cycle
Long Term Stability	< 1% rms over 100 hours	



Sub-two cycle pulse generation with COMPRESS 50

# Compatibility



Satsuma



Tangor



Tangor 300

