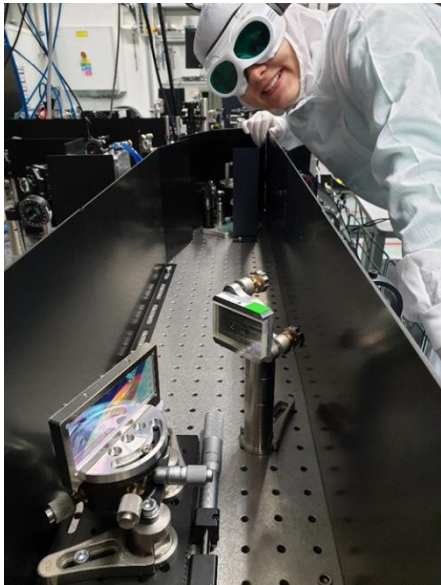
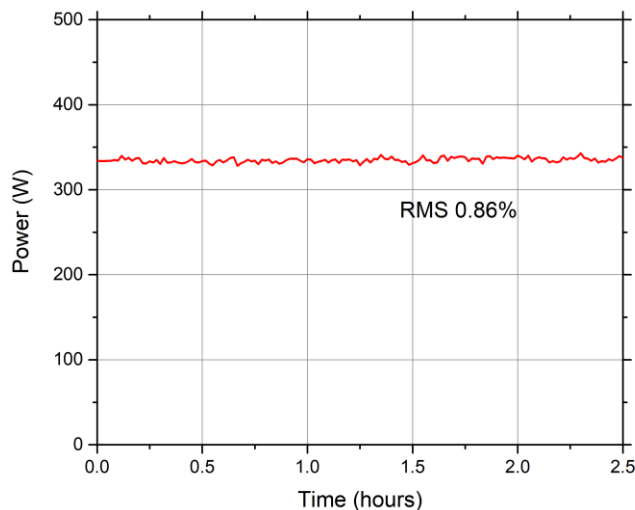


**HiLASE centre is ready to build a new customized laser (200-W to 300 W)**



The thin-disk laser team, led by Dr. Martin Smrž, has successfully demonstrated the stable operation of a pulsed 200-W ytterbium thin-disk laser using the chirped pulse amplification technique. The laser system is able to produce 1 ps pulses with a maximum output power well above 300 W and beam quality of  $M^2 \approx 1.4$ . Long term power stability of 0.86 % was recorded over a continuous 2.5 h period.

We are ready to build such a customized laser for our clients. Future plans include further scaling of the output power of Perla C while keeping good levels of the spatial and temporal beam quality.



One of the key optical components of the new laser system is the low-loss grating compressor, as shown in the figure above.

TEAMING FOR SUCCESS