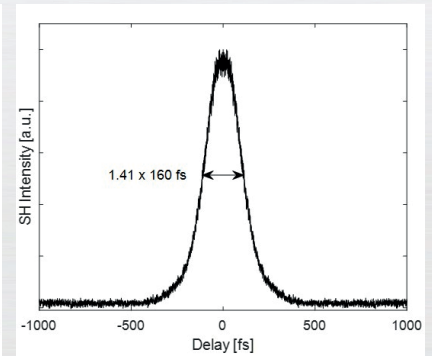
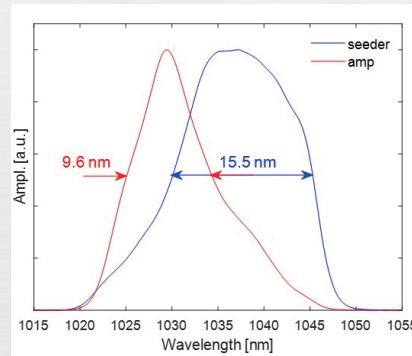


High Peak Power Femtosecond Amplifier

ultrafast
Pump & Amplifier Systems

- Multipass design
- Tapered laser diode pumped
- Single shot to 40 MHz
- No pockels cell
- Air cooled
- Cost competitive



Specifications (preliminary)

	Amplifier	Laser
Optical Parameters		
• Central Wavelength	(1037 ± 12) nm	(1033 ± 5) nm
• Average Output Power (max)	4 W	2 W
• Gain / Pulse Energy (max)	> 20 dB	1 μJ @ 1 MHz
• Repetition Rate	Single shot to 40 MHz	Single shot to 40 MHz
• Pulse Width	Determined by seed laser	< 200 fs
• M ²	< 1.2	< 1.2
• Spatial Mode	TEM ₀₀	TEM ₀₀
• Beam Circularity	> 90 %	> 90 %
• Warm-Up Time	< 30 min	< 30 min
• Dimensions (L x W x H): Laser Head	< (600 x 450 x 150) mm ³	< (600 x 450 x 150) mm ³
• Weight: Laser Head	< 30 kg	< 30 kg
• Dimensions (L x W x H): Power Supply	4U / 19" rackable	4U / 19" rackable
• Power Supply	24 VDC / 10 A	24 VDC / 10 A
• Power Consumption	< 250 W	< 250 W
• Cooling	Air	Air

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302051A-02-DTS Femtosecond Amplifier