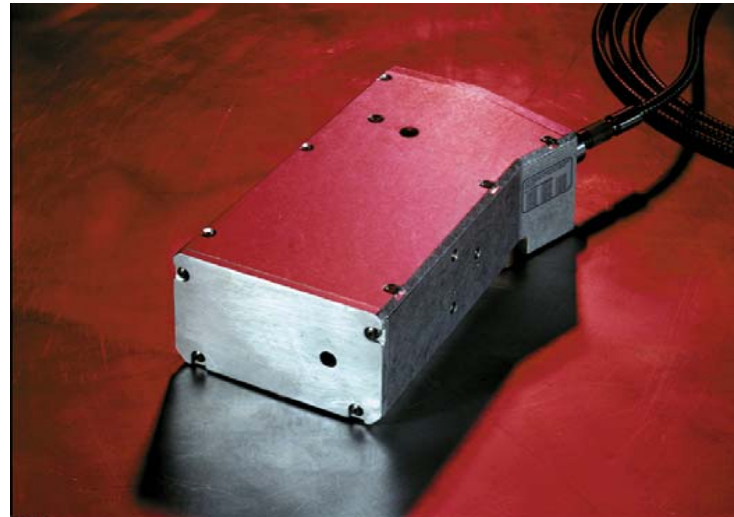




V-Xtreme Laser

Extreme Repetition Rate – Low Noise



Spectra-Physics, OEM Business Unit

Mountain View, USA

Product Manager: Wolfgang Juchmann

V-Xtreme

V-Xtreme

APPLICATIONS:

- Materials Processing
- Semiconductor Scribing
- Disk Texturing
- Thin Film Ablation

Extreme Speeds

Ideal for High Throughput Applications::

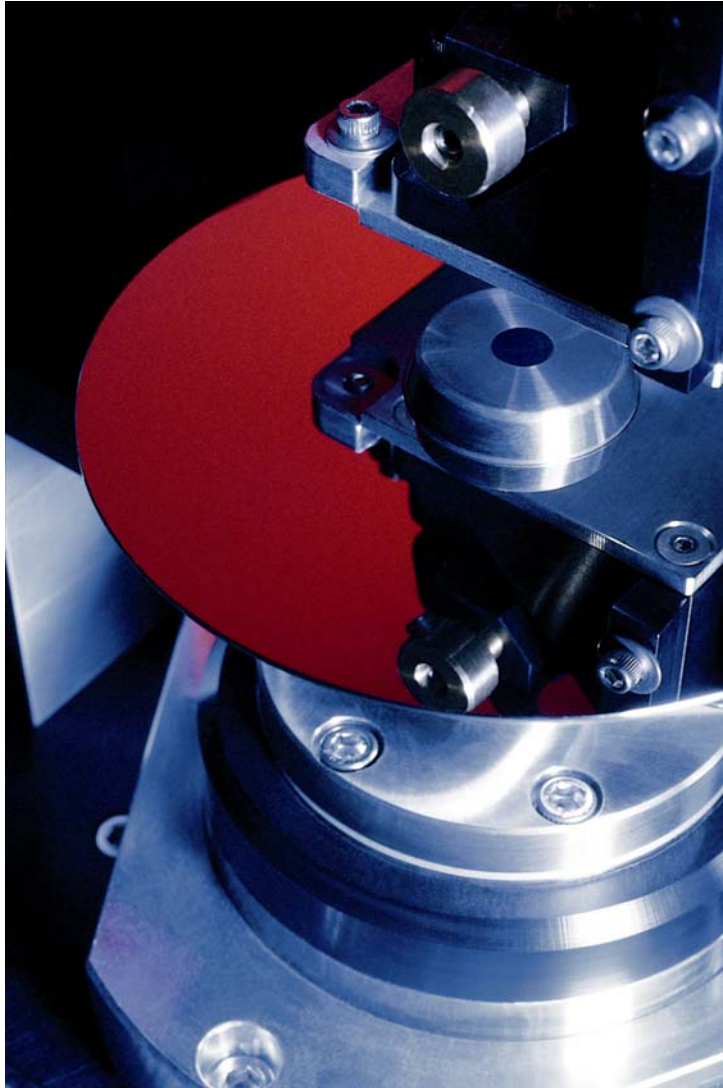
- Fast Repetition Rate: > 400 kHz:
- Average Laser Power: > 8W
- High Pulse to Pulse Stability: < 4%:
- Wavelength: 1064 nm

Extreme Performance

 **Spectra-Physics**
Lasers & Photonics



V-Laser



Laser Zone Texturing (LZT)

Create uniformly textured landing zone for head when drive is turned off



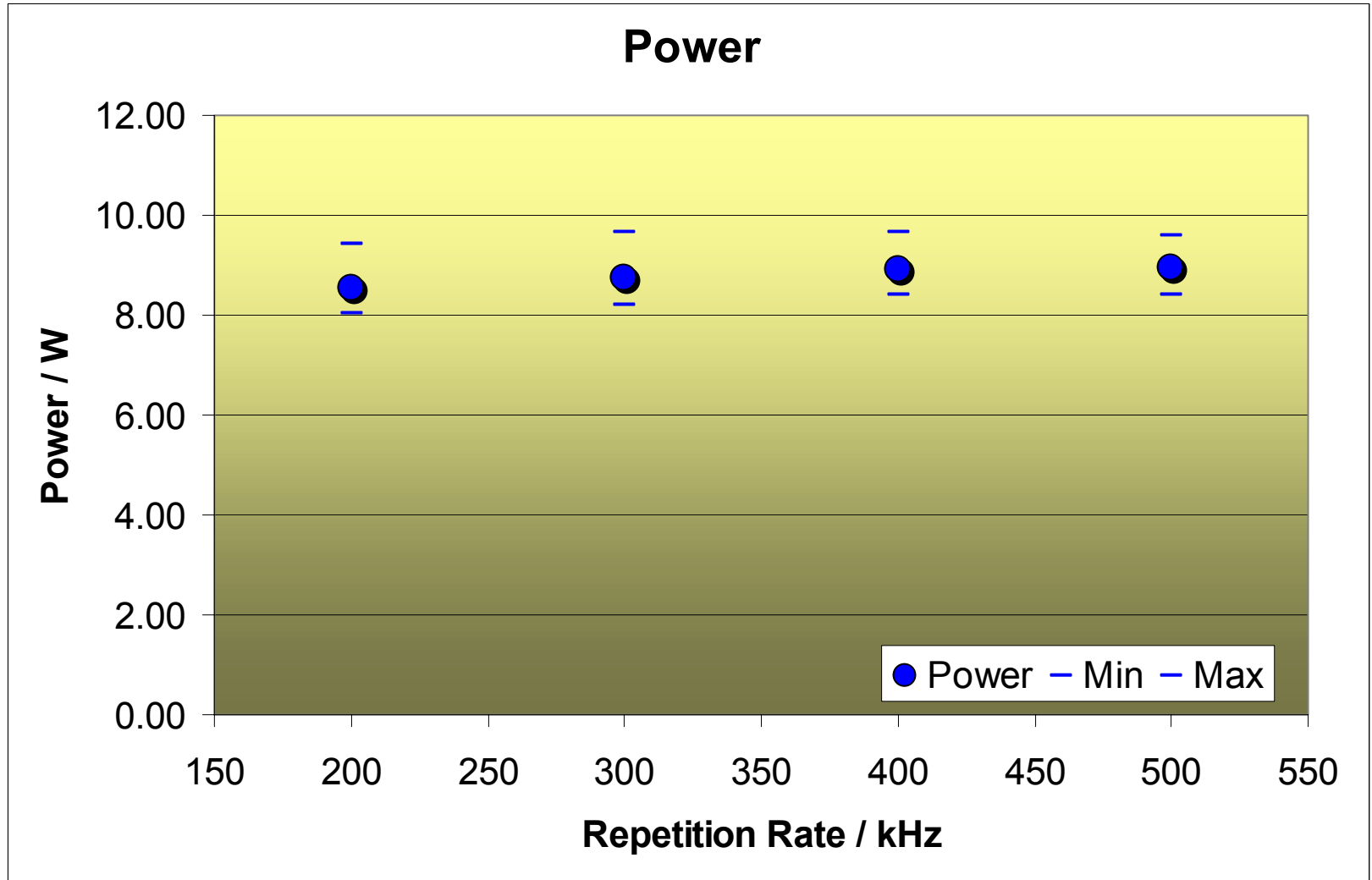
J40 Power Supply for V-Xtreme

- Air-Cooled
- Thermo-Electric Cooler
- Auto-range 100-220 Vac voltage and current
- 19" rack-mount
- RS-232 interface
- Analog/TTL port
- Common supply for different laser



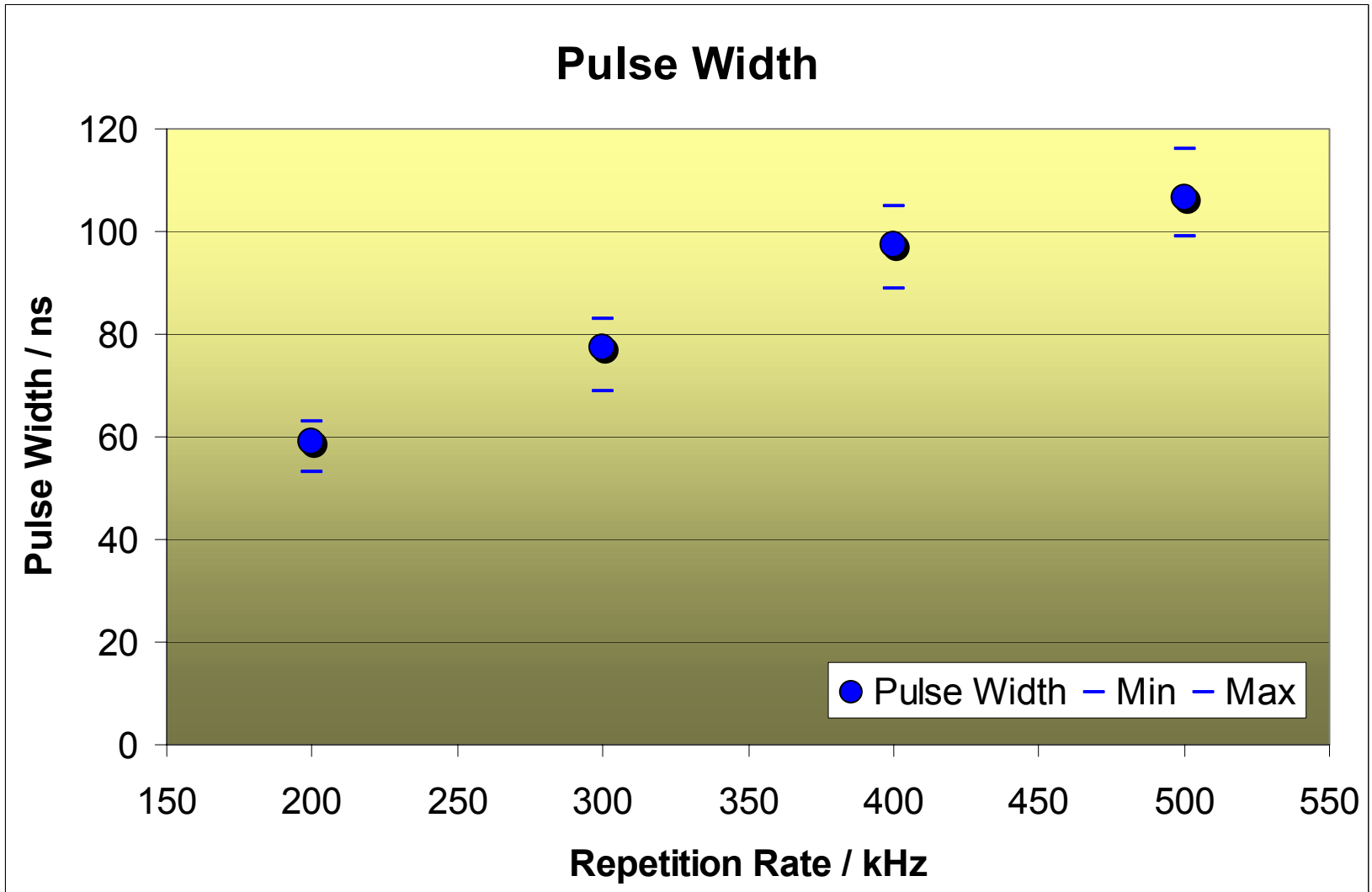


Average Power (typical value)



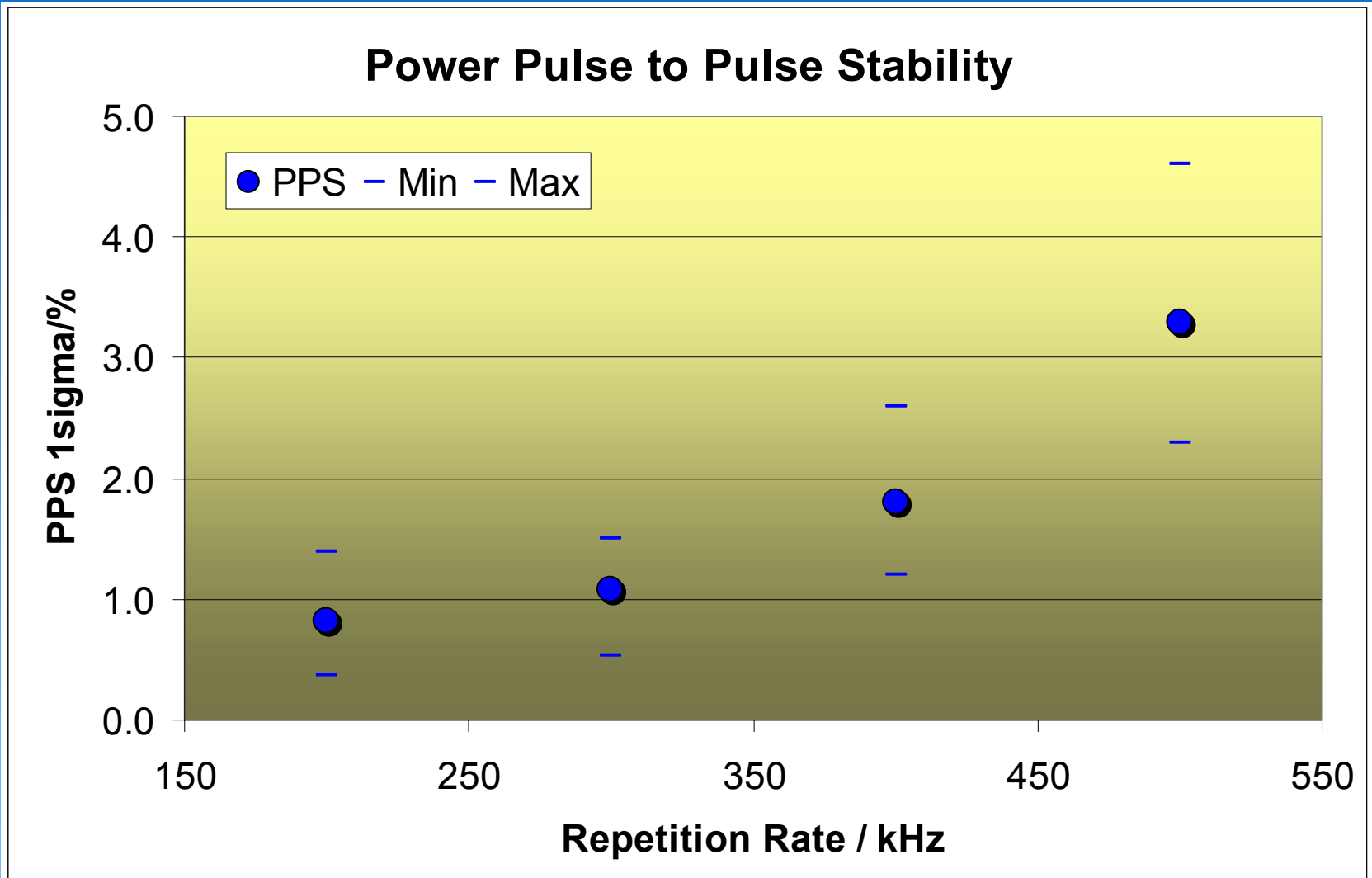


Pulse Width (typical value)





Power PPS 1sigma (typical value)





V-Xtreme Specifications

Consists of a J40-8S40-20K Power Supply and a VXtreme-106 Laser Head
Specifications at 400kHz

- Wavelength: 1064nm
- Average Power: > 8W
- Repetition Rate: 50kHz - 500kHz
- Pulse Width: 100ns +/- 15ns
- Pulse to Pulse Stability: < 4% Power Pulse to Pulse stability
- Beam Quality M2: < 1.2
- Beam Diameter: 410 +/- 50um
- Beam Divergence: 350 +/- 50urad
- Roundness: > 90%
- Air Cooled
- Power Loop available
- J-WIN compatible