

Yasmin

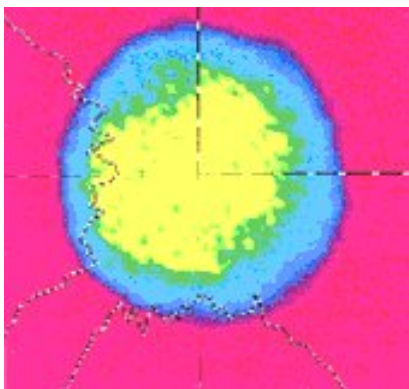


Industry is showing increasing interest in surface treatment and preparation applications such as deflashing, cleaning, deoxidisation, marking, ultrasound generation etc, using nanosecond pulsed laser sources.

To answer this need, QUANTEL is pleased to offer a new product line the Yasmin, covering infrared, visible and ultraviolet wavelength ranges.

The Yasmin utilises their well-established work-horse laser, the Brilliant which is a compact, pulsed Nd:YAG laser oscillator with field proven reliability and performance in industry and science to deliver **high average power with a homogeneous beam profile.**

Beam Profile:



Main Design Considerations

- ***High reliability: Running 24/7 in Industrial environment***
- ***No realignment during installation, integration and use***
- ***Beam homogeneity***
- ***Compactness***
- ***Easy maintenance by user***

Specifications:

		Average Power	Repetition rate	Energy Per pulse	Pulse duration	Shot-to-shot Energy/stability	Beam Parameter*
Yasmin	IR	50 W	120 Hz	415 mJ	<10 ns	< +/-2%	8.5mm.mrad
	1064nm	25 W	120 Hz	200 mJ	<10 ns	< +/-2%	8.5mm.mrad
Yasmin	Visible	20 W	120 Hz	165 mJ	<10 ns	< +/-4%	7mm.mrad
	532 nm	10 W	120 Hz	80 mJ	<10 ns	< +/-4%	7mm.mrad
Yasmin	UV	3 W	50 Hz	60 mJ	<10 ns	< +/-9%	3mm.mrad
	355 nm						

* beam radius x divergence half angle

Service requirements:

Power: 400 V - 3 phase + G + N - 10A per phase

Water: 10L/min, 2 to 6 bars, 10-25°C (not required when the laser system is supplied with a chiller)

