



*Jasmin*

## New product line for surface interaction

The industry is showing a newly increasing interest in surface treatment and preparation (such as deflashing, cleaning, deoxidisation, marking...) using nanosecond pulsed laser sources.

To answer this need, QUANTEL offers new product line, *Jasmin*, covering infrared, visible and ultraviolet.

Due to the diversity of the surfaces to be treated, Quantel now introduces a new series of industrial systems emitting IR (1064nm), visible (532 nm) or UV (355 nm). These new lasers use the “Brilliant” technology (Brilliant is a well-known Quantel compact, pulsed Nd:YAG laser oscillator with field proven reliability and performance in industry). They deliver **high average power with a homogeneous beam profile**.

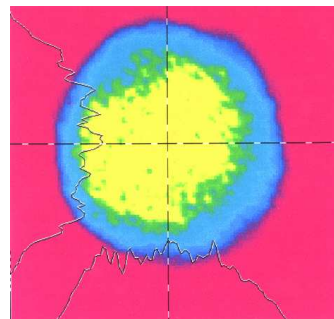
**Beam homogeneity,**

**Compactness,**

**High reliability**

**Easy maintenance**

(These are key words used during the development of these new laser system)



*Near field beam profile of a 50W beam at 1,064 $\mu$ m*

Perfectly adapted to OEM applications, the YASMIN series can be coupled with imaging or scanning systems for the best fit to specific requirements. Additionally, customised solutions can be realised on request.

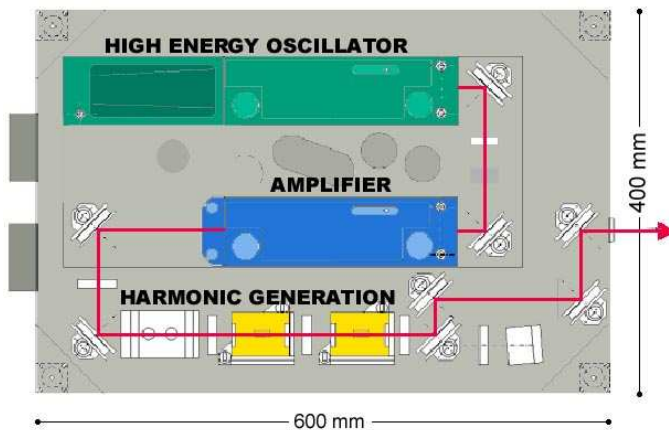
<i>Yasmin</i> Specifications	Average Power	Repetition Rate	Energy per Pulse	Pulse Duration	Shot to Shot Energy Stability	Beam Parameter*
Yasmin Infra-red (1064nm)	50W	120Hz	415mJ	<10ns	+/- 2%	8,5mm.mrad
	25W	120Hz	200mJ	<10ns	+/- 2%	8,5mm.mrad
Yasmin Visible (532nm)	20W	120Hz	165mJ	<10ns	<+/- 4%	7mm.mrad
	10W	120Hz	80mJ	<10ns	<+/- 4%	7mm.mrad
Yasmin Ultra-violet (355nm)	3W	50Hz	60mJ	<10ns	<+/- 9%	3mm.mrad

\* *waist radius x divergence half angle*

#### Service requirements:

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

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



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