



*Crafting ideas into light*

## Pumping Heads

### QCW laser gain modules

This gain module delivers excellent gain uniformity and lensing performance. It includes its own capacitor bank and driver so the high current pulses are generated in the module itself, reducing the losses and complexity of the electrical setup and easing the control and synchronization of different gain modules by means of software.

The pumping laser diode bars are mounted using our patented clamping technology. The main features of the solder-free concept of the clamping technology, exclusively used by Monocrom.



PH / 3600W to 5400W QCW

Product specification are subject to change without notice.  
For complete details, please contact your local MONOCROM sales representative

UNE EN ISO 9001:2008

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## Technical specifications (typical values)

	PH-3600	PH-5400
$P_{peak}(W)$	3600	5400
$I_{op}(A)$	105	130
$V(V_{dc})$	36	36
$t_{pulse}(\mu s)$	Up to 500	
Rep. rate (Hz)	Up to 1000	
Rod diameter (mm)	5 or 6	
Rod material	Nd:YAG	Nd:YLF
Nd concentration	0,3% to 0,8%	0,3% to 1%

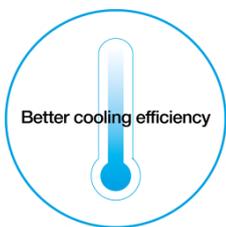
### No mechanical stress

Our patented solder-free technology is used in our diode bars stacks. Thanks to it clamped bars expand and contract freely during the thermal cycles of the pulsed regime avoiding mechanical stress.

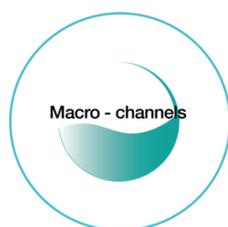


## Clamping™ patented technology

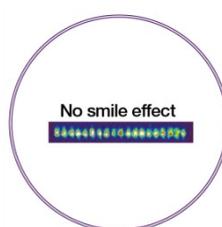
## main advantages



Better cooling efficiency  
Our diode bars are in direct contact with 2 heat sinks that help them cool easier



Macro - channels  
We avoid water obstructions thanks to the use of macro-channels



No smile effect  
Our diode bar mounts don't smile even though they live happily



Higher brightness  
The lack of a "smile" allows a superb beam. Our diode bar mounts achieve higher energy per pulse and excellent beam quality, thus higher brightness



+ life  
When mechanical stress is not an issue any more, product life-time increases significantly

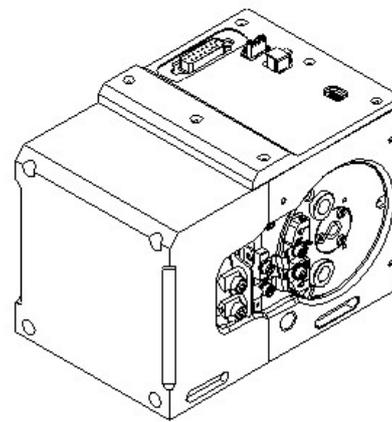
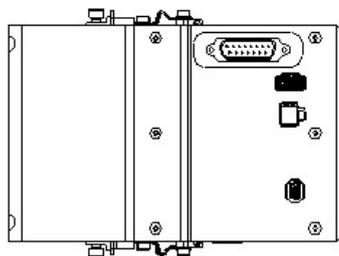
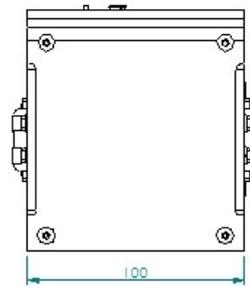
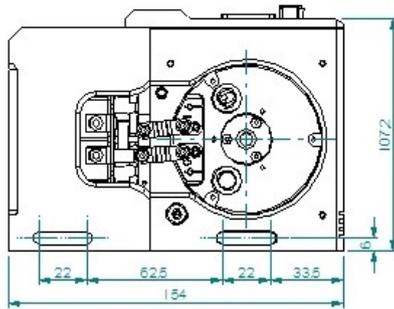
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