

# Dual Head Configuration Laser Welding Systems



This Dual Head Module is designed for welding with two different parameters, like applying two different spot sizes in one NOVA laser system.

The module fits inside the NOVA-6 as an additional module, as a replacement of the normal FX50 weld head.

By connecting these two heads to two fibers and two time-share outputs, the operator can select the appropriate head and output through software to perform the head. Manual changing of lenses and fibers is not needed anymore and short switchover times are possible. As the selection is being done in the software, operator mistakes are eliminated.

The module consists of special mounting brackets and two pieces of FX50 weldheads. The weldheads can be mounted on different heights, so a difference on focal length of the output lens can be offset, and focal points are on the approximate same level.

## TECHNICAL SPECIFICATIONS

<b>Weldheads</b>	FX50 (other types upon request)
<b>Available for</b>	NOVA-6 (other Miyachi Systems upon request)
<b>Offset</b>	90 mm front-rear
<b>Front head 40 mm lower (other steps upon request)</b>	
<b>Head selection</b>	Through software
<b>Camera</b>	Switches automatically with the weldhead selection
<b>Shielding gas</b>	Switches automatically with the weldhead selection
<b>Maximum output</b>	n.a.
<b>Beam quality</b>	n.a.
<b>Pulse width</b>	n.a.
<b>Pulse width resolution</b>	n.a.
<b>Repetition frequency</b>	n.a.
<b>Oscillation wavelength</b>	n.a.
<b>Positioning guide beam</b>	n.a.
<b>Output stability over operating temperature range</b>	n.a.
<b>Voltage</b>	n.a.
<b>Current</b>	n.a.
<b>Cooling</b>	n.a.
<b>Operating temperature (°C)</b>	5-40
<b>Operating humidity</b>	5-85% RH (non condensing)
<b>Certification</b>	CE Approved

## IMAGES

