



Laser Switch Box

For safe functioning of one laser on two welding systems

The MIYACHI EAPRO Laser Switch Box is designed for safely using two workstations on one Miyachi welding laser.

To speed up the production process, this multiplexer can be added upon ordering two or more laser systems from Amada Miyachi Europe. Adding this multiplexer to the system configuration allows simultaneous loading/unloading in one system and welding in the other system. It therefore increases production capacity with almost a 100%.

Without the use of the Switch Box (also called MUX or multiplexer), according to the latest CE 13849-1 regulation, both workstations should be in a “safe” condition before the laser is allowed to weld. This means that loading/unloading in one workstation and simultaneous welding in the other workstation is not possible. The operator needs to wait until the laser is ready, before the door on the other workstation can be opened.

The multiplexer also involves a modification inside the laser. The NOVA workstations need to be prepared for using this box upon production. A retrofit is possible (upon surcharge).



TECHNICAL SPECIFICATIONS

Compatibility of Lasers	Miyachi Pulsed Nd-YAG ML-21xx, Miyachi Fiber Lasers ML-68xx
Max. number of workstations	2 pcs (more upon request)
Max. number of fibers/laser outputs	4 pcs. (more upon request)
Cable length	5 meters between laser and Multiplexer, and 5 meters between Multiplexer and NOVA (longer upon request)
Delivery content	Multiplexer Control box incl. cabling
Laser upgrade	
Testing and implementation	
Voltage	n.a.
Current	n.a.
Cooling	n.a.
Operating temperature (°C)	5-40
Operating humidity	5 - 85% RH (non condensing)
External communication (RS232)	na.
Certification	CE Approved

WEIGHT & DIMENSIONS

Dimensions HxWxD (mm)	approx. 20 x 500 x 500
Weight (in kg)	approx. 20 kg

SCHEMATICS LASER SWITCH BOX

Nova and Laser in time share configuration diagram

