



# Technical Construction File (EC declaration test report)

File (report) No: CTNT230411004R

## Related to

Device Name : Laser engraving machine

Main inspection model: K1 Ultra

Series model: K1, K1 Pro, K1 Pro Max, K2, K2 Pro, K2 Ultra, K2 Pro Max, K3, K3 PRO, K3 Ultra, K3 Pro Max, K4, K4 Pro, K4 Ultra, K4 Pro Max, K5, K5 Pro, K5 Ultra, K5 Pro Max, L2-01, L2-02, L2-03, L2-04, L2-05, WM-LE001, WM-LE002, WM-LE003, WM-LE004, WM-LE005, WM-LE006, WM-LE007, WM-LE008, WM-LE009, WM-LE010, WM-LE011, WM-LE012, WM-LE013

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Issued time: May.23, 2023

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## **Part I : General**

### **1.1 Product parameter**

(Optional)ADAPTER Input: 100V-240V~ 50/60Hz 3.0A;

Output: 24V 7.5A 180W

Appliance Input: 12-24V 5-12A, 80-300W

### **1.2 General description**

The main purpose of this product is laser engraving, basically, this kind of machine doesn't belong to hazard machine and with low risk when using it. All possible risk have been analysis in the risk assessment report and been prevent by suitable ways.

The main risk of this kind of machine could be:

- The risk of access to the power transmission elements.
- The risk of access to the electrical parts
- The risk of access to the move parts

In order to prevent the main risks mentioned above, the protection guarding systems are provided, and all the detail safety provision are constructed in accordance with the requirement of BS EN 60204-1, BS EN ISO 12100

In addition to the safety of the machinery mentioned above, the compliance of LVD directive is also an important part of putting CE mark on the machine. As for the compliance of LVD the inspection and test report carried out according to the European standard of BS EN 60204-1 was provided too.

In order to ensure the conformity for CE marking for these Large Format Laser Markin, some main European and/or International standards have been used to made assessment of conformity, they are :

- THE DEPARTMENT FOR BUSINESS AND TRADE NOTICE OF PUBLICATION 0081/23 of 12 April 2023 of references to standards for machinery in support of the Supply of Machinery (Safety) Regulations 2008 (S.I. 2008/1597).
- BS EN 60204-1 for checking of electrical equipment.
- BS EN ISO 12100 for checking the machinery safety.