



The LSF LASER PROJECTOR ASSEMBLING TOOL is a laser projection device that is based on a galvanometric system complete with mirrors where a single laser spot is moved at a high speed in all X and Y directions, the movement is so rapid that the projected image is perceived by the human eye as a still image. The system is controlled and managed by a microcomputer and a series of boards that drive the laser beam at high resolution. The LSF AT laser projector is connected via RJ45 LAN cable to the company network or to a single PC

The LSF AT Laser Projector

The galvanometric device is used as a dynamic assembly signal, indicating to the operator, through direct projection on the piece being assembled, which activity to carry out or where to perform it. For positioning control, precision positioning, part fastening control, assembly line error system, assembly procedure guide and many other applications.

Software

The software provided is used to manage the speed and settings of the projector, in addition to this to acquire the assembly data through a **self-learning device Joypad** or HPGL or PLT files The software can import PLT files from any CAD of the user, converts them and projects them automatically. The software has been developed to

work autonomously in the back ground without the continuous control of the operator.

The LSF AT laser projector

it comes with a self-learning system where the operator moves the laser beam in real time using a Joystick and then directly creates the drawing, writings and assembly points on the workbench. The created drawing is stored and recalled when needed.

Signals:

The laser projector has four push-button or limit switch inputs as standard interfaced to the operator or the machine in order to manage the start of the work cycle or subsequently change the image or projected procedure

Operational area

The working area is dictated by the positioning height of the laser projector with respect to the workbench, the maximum projection angle is 75° so at a Z height of one meter the projector will have a working range of 1.3 meters x 1.3 meters so at 3 meters we will have 4.5 x 4.5 meters.

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Specifications

Light Source:	Green Solid State Laser Diode
Projection Type:	60pps Dynamic
Wavelength (nm):	520nm (green)
Projection angle	60°
Self-learning	bluetooth joypad
Power supply:	100/240 Vac – 50/60 Hz.
Accuracy	+/- 1mm/m
Body:	Painted steel container
Dimensions (mm):	400mm X 280mmx180 mm.
Weight	4.5Kg
Cooling	Internal forced ventilation with heatsink
Connection:	RJ45 Lan Connector Connection with Fixed IP
Operator Interface	Remote Buttons
Windows PC Work Environment	from win7 onwards
Integrated support	with micrometric adjustment
Protection:	IP 65
Average life at 23°C (hrs):	35,000 h
Operating temperature (°C):	- 30 +50°

Optional

High brightness LED lamps

2 High brightness LED lamps for signalling the start of work or stand-by In practice, the lamps will be fixed to the sides of the projector and will be activated alternately on the side not treated by the operator, which will be illuminated in red to indicate the area not involved in the work.

