TFB30/50/60/80(808,980nm)Laser Soldering Robot

The laser system and Comet soldering control PCB are combined together so there is no external controller required for laser soldering using solder wire. This system can also be programmed to start via an external signal and the soldering parameters can be easily selected via Input/Output signals from a robot or external controller. Integration with various control systems has been made simple and fast. The laser can be operated in either the temperature feedback (TFB) or current modes. 64 solder profiles can be easily programmed via the large color LCD touch screen on the laser controller. In addition the touch panel is built into the laser controller allowing for a bright, clear and easy to read display.

TFB30/50/60/80-808/980 Main Specifications	
Power	Single phase AC100-AC240V
Acceptable wire	ϕ0.3mm - ϕ1.6mm Select one size
Laser type	Fiber coupling type LD laser, class 4
Laser Generating	CW (Continuous wave)
Central wavelength	808nm ±3nm or 980nm ±3nm
Operating mode	Temp. feed back (980nm only) or power control mode
Maximum output	30W, 50W, 60W, 80W
Minimum spot	ϕ0.4mm (option: ϕ0.2, ϕ0.6mm)
Focus distance	80mm
Solder parameter	0-63, 64 condition can be chosen using external I/O
Soldering step	24 steps
Fiber bending radius	300mm
Cooling method	Air cooling
Input method	Color touch panel
Laser life time	More than 10,000 hours

TFB30-980 main controller

Main menu screen

WK parameter input screen

Set up example :
JS450 with safety enclosure & work bench

Coaxial lens