



Automatisierungstechnik
Niemeier GmbH



Soldering system with IR-light



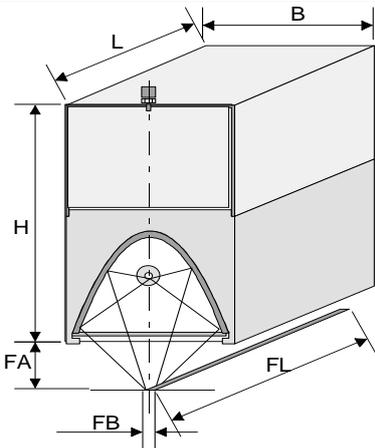
- 50mm slim design
- contactless and accurate heat transfer
- silent air cooling
- with electronic power control
- compensation of surface effects
- high quality solder joints and high process reliability
- low operating costs and low investment

Halogen line emitter

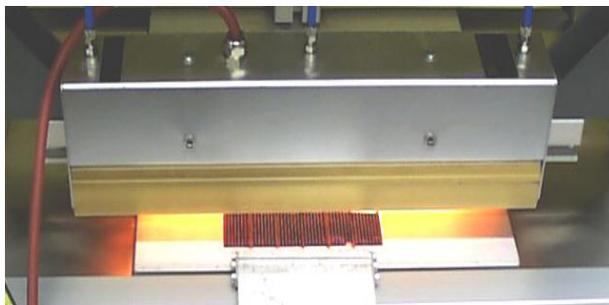
With point and line emitters ATN offers a wide product range of optical systems for contactless heating. The light source issues a light beam with wavelengths of 500-1500 nm. The lamp is surrounded by an ellipsoid reflector, which focuses the emitted light at the soldering point precisely. The produced temperature depends on the power and the duration of the LightBeam and on surface, thermal capacity and heat conduction of the workpiece. The lamp is cooled with air. The airstream protects the optics against soldering steams and splashes.

The integrated microcontroller permits the control of all functions with only one input signal. The parameters can be modified by a menu LED display or by using the RS232-interface. The control unit also allows the computing of a program.

emitter	BS230	BS360	BS500	BS790												
power (W):	500 W, 115 V 1000W, 230V	1.000W, 230V 2.000W, 230V 3.000W, 230V	2.000W, 400V	3.000W, 400V												
dimensions HxBxL (mm)	90 x 50 x 230	90 x 50 x 360	90 x 50 x 503	90 x 55 x 790												
focus FB x FL (mm):	4 x 140	4 x 280	4 x 410	4 x 700												
distance FA (mm)	16-20	16-20	16-20	16-20												
durability lamp	according to operating mode 1000-5000h															
control unit																
μ-controller	HC05															
sets of parameters (power/time)	8															
communication	24V signal															
RS232-interface	optional															
dimensions (19"-case)	440x132x223 (3 HE x 84 TE)															
<table border="1"> <thead> <tr> <th>power units</th> <th>LBS-P115</th> <th>LBS-P230-4</th> <th>LBS-P400</th> </tr> </thead> <tbody> <tr> <td>power</td> <td>2.000W</td> <td>4.000W</td> <td>4.000W</td> </tr> <tr> <td>voltage</td> <td>115V</td> <td>230V</td> <td>400V</td> </tr> </tbody> </table>					power units	LBS-P115	LBS-P230-4	LBS-P400	power	2.000W	4.000W	4.000W	voltage	115V	230V	400V
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The emitter LightBeam spot is not only suitable for reflow soldering with solder paste but also for hardening, melting, shrinking, gluing and drying in the plastics and metal processing industry.



Soldering cell-connectors onto solar cells



Preheating and activation of flux