

## TECH INFO – BGA SOLDER NOZZLES



MARTIN Solder Nozzles are designed and tested using the latest technologies such as thermal imaging to provide superior thermal uniformity and efficient heat transfer, ensuring complete and simultaneous interconnect reflow.

All nozzles share a common heater interface used on all MARTIN Rework Systems. A variety of Solder Nozzle are available including predefined sets for BGAs, SOs, QFPs, CSPs, and QFNs. Individual Solder Nozzles are also available for standard SMDs or connectors.

Specialty Solder Nozzles can be created to fit custom designs like i.e. shielding, increase yields or for process optimization, along with developing custom Solder Nozzles to meet specific Rework requirements.

Please find here a selection of standard solder nozzles for reference and a guide how to pick the correct type.

### Features

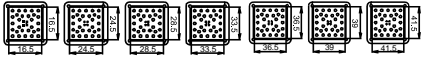
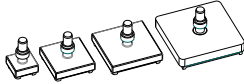









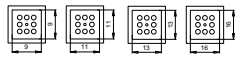
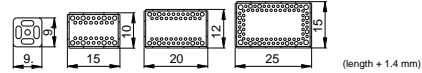
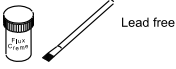

#### LW40.1099 Solder Nozzle Set BGA 7 pieces

- 1x Nozzle for BGA 15x15mm<sup>2</sup>
- 1x Nozzle for BGA 23\*23mm<sup>2</sup>
- 1x Nozzle for BGA 27\*27mm<sup>2</sup>
- 1x Nozzle for BGA 31\*31mm<sup>2</sup>
- 1x Nozzle for BGA 33\*33mm<sup>2</sup>
- 1x Nozzle for BGA 35\*35mm<sup>2</sup>
- 1x Nozzle for BGA 37.5\*37.5mm<sup>2</sup>

### Technical Data

|                    |  |
|--------------------|--|
| Uniformity         | Up to $\pm 2^{\circ}\text{C}$ dependent on Nozzle<br>Uniformity Doc upon request |
| Material           | Isolated Cover: PEEK / Teflon<br>Inner Nozzle: Al + Stainless Steel              |
| Temperature Range: | -20°C up to 450°C  |

## BGA SOLDER TOOLS (Standard)

| Selection of Standard Tools and Tool Sets   |  |  |
|---|--|--|
| LW40.1099   | Solder Nozzle Set BGA<br>7 pieces (15, 23, 27, 31, 35, 27.5, 40)       |  1 piece                     |
| LW40.1103   | Solder Nozzle Set BGA 4<br>4 pieces (15, 27, 35, 40)                   |  1 piece                     |
| LW40.1024   | Solder Nozzle for BGA size 15*15mm<br>i.e. for BGA196...               |  1 piece                      |
| LW40.1009   | Solder Nozzle for BGA size 23*23mm<br>i.e. for BGA169/256f...          |  1 piece                      |
| LW40.1011   | Solder Nozzle for BGA size 27*27mm<br>i.e. for BGA225...               |  1 piece                      |
| LW40.1020   | Solder Nozzle BGA 31*31mm<br>i.e. for BGA329/529...                    |  1 piece                      |
| LW40.1069   | Solder Nozzle for BGA size 33*33mm<br>i.e. for BGA...                  |  1 piece                      |
| LW40.1015   | Solder Nozzle for BGA size 35*35mm<br>i.e. for BGA313/676...           |  1 piece                     |
| LW40.1016   | Solder Nozzle for BGA size 37.5*37.5mm<br>i.e. for BGA313s/841...      |  1 piece                    |
| LW40.1040   | Solder Nozzle for BGA size 40*40mm<br>i.e. for BGA596/900...           |  1 piece                    |
| LW40.1021   | Solder Nozzle for BGA size 42.5*42.5mm<br>i.e. for BGA540s/1024        |  1 piece                    |
| Star Tools are available for many SMD sizes. Please contact MARTIN for more Info. |  |  |
| LW40.1097   | Solder Nozzle Set CSP/QFN<br>4 pieces (9,11, 13, 16)                   |  (length + 1.4 mm) 1 piece |
| LW01.0400   | Soldering Tool Set SO<br>for SO...SOL...TSOP, 4 pieces (9, 15, 20, 25) |  (length + 1.4 mm) 1 piece |
| HT00.0119   | Flux Creme lead free 18g<br>0506 MA, no clean, REL0, with Brush        |  Lead free 1 piece         |
| HT00.0062   | Kapton-Tape<br>19mm*5,5m   |  19mm 1 piece              |