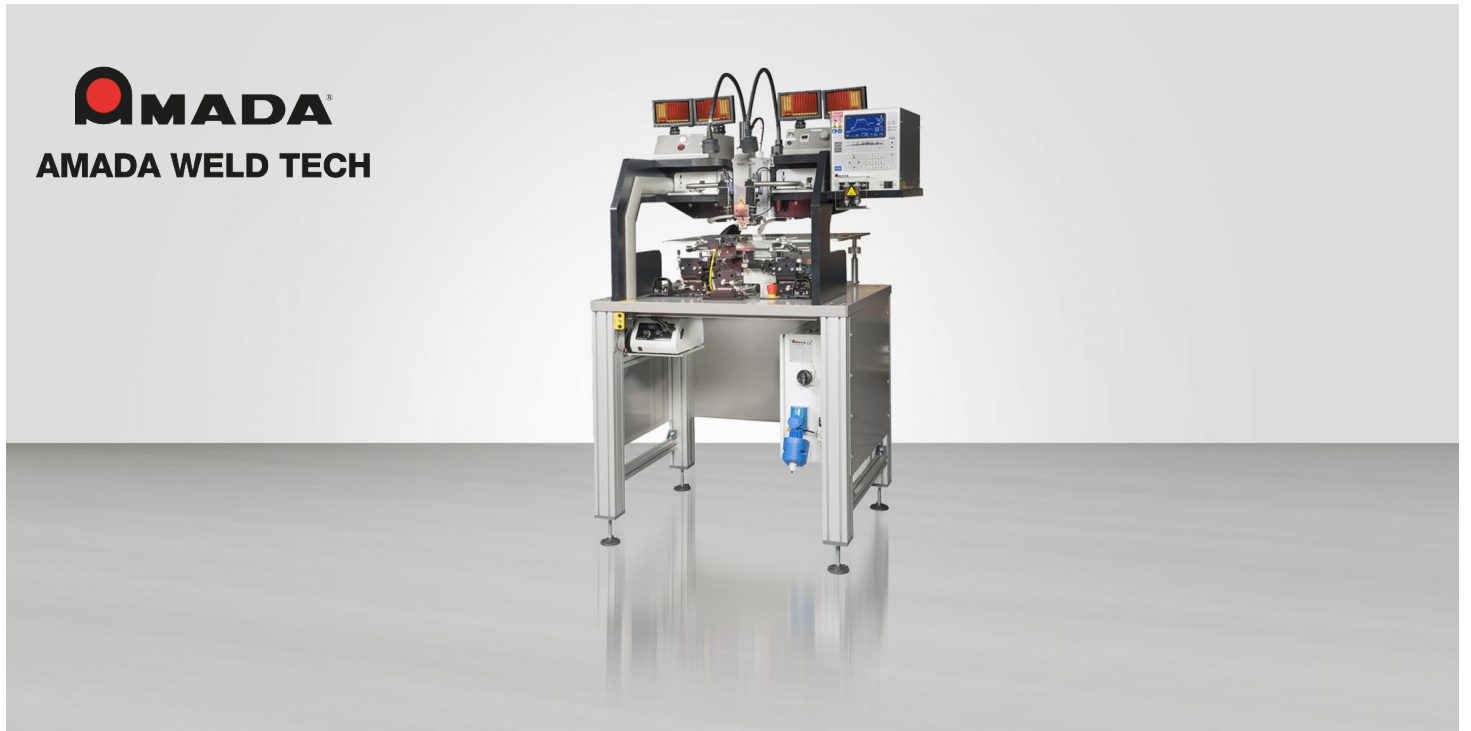




## Serie EM LCD/TFT y PDP – Sistemas de producción y reparación de calor pulsado (anteriormente conocido como Emerald)

Estos sistemas utilizan la tecnología de calor pulsado y se han diseñado para las aplicaciones siguientes:

- Paneles LCD/PDP pequeños y grandes, de tamaños de 1" a 65".
- Una gran variedad de tamaños y formas de lengüetas.
- Una gran variedad de tamaños y formas de PCI.

### Key Features EM Series LCD/TFT & PDP Production & Repair Pulsed Heat Systems

- > Supporting all TAB/Flex sizes and almost all LCD/PDP panels
- > Fine pitch alignment
- > ACF tacking, Heat-Seal bonding and Hot Bar Reflow Soldering all in one system
- > Dual look-up cameras for alignment and track & marker recognition
- > Reliable process control, based on proven technology of the Uniflow power supply
- > High precision pneumatic bonding head ensures consistent process results
- > Optional 1" to 6" panel support

## Specifications Serie EM LCD/TFT y PDP – Sistemas de producción y reparación de calor pulsado (anteriormente conocido como Emerald) 1/2

|                                       |                                                           |                     |              |
|---------------------------------------|-----------------------------------------------------------|---------------------|--------------|
| TAB sizes minimum L x W mm            | 8 x 5                                                     |                     |              |
| Tab sizes maximum L x W mm            | 150 x 66                                                  |                     |              |
| Chip (COG) sizes minimum L x W mm     | 5 x 1                                                     |                     |              |
| Chip (COG) sizes maximum L x W mm     | 50 x 10                                                   |                     |              |
| Flex sizes minimum L x W mm           | 8 x 5                                                     |                     |              |
| Flex sizes maximum L x W mm           | 150 x50                                                   |                     |              |
| Customised shapes                     | Customised shapes and sizes out of min/max on request     |                     |              |
| Thermode (Hot Bar) type               | Thermo-plane Thermode                                     |                     |              |
| Thermocouple type                     | K-type                                                    |                     |              |
| Temperature controller                | Uniflow power supply                                      |                     |              |
| Air supply                            | 6 - 8 bar, dry & filtered air                             |                     |              |
| Requisitos de energía                 | 16A, 230 VAC, 50/60 Hz - 16A, 110 VAC, 50/60 Hz (Hot Bar) |                     |              |
| Temperatura de funcionamiento         | 15 - 40 °C                                                |                     |              |
| Panel sizes                           | 25.4 - 635 mm diagonal                                    |                     |              |
| Product handling standard / optional  | PHS-25 / PHS 45 or PHS-65                                 |                     |              |
| Dimensions EM-P045A: HxWxD (mm)       | 2050 x 2250 x1405                                         |                     |              |
| Peso                                  | 650 kg                                                    |                     |              |
| Panel sizes                           | 25.4 - 1143 mm diagonal                                   |                     |              |
| Product handling standard / optional  | PHS-45 / PHS-65                                           |                     |              |
| Dimensions EM-P065A: HxWxD (mm)       | 2050 x 3050 x 1705                                        |                     |              |
| Peso                                  | 650 kg                                                    |                     |              |
| Panel sizes                           | 25.4 - 1651 mm diagonal                                   |                     |              |
| Product handling standard             | PHS-65                                                    |                     |              |
| <b>BONDING HEAD SPECIFICATIONS</b>    |                                                           |                     |              |
| Rango de fuerza                       | SH500                                                     | PH500               | SH1250       |
| Head actuation method                 | Pneumatic                                                 | Motorised           | Pneumatic    |
| Bonding force                         | Adjustable                                                | Programmable        | Adjustable   |
| Force range (N)                       | 40-500                                                    | 250-1250            | 20-2500      |
| Hot Bar stroke mm                     | 50                                                        |                     |              |
| Hot Bar sizes L min - L max mm        | 4-150                                                     |                     |              |
| Hot bar sizes W min - W max mm        | 1-5                                                       |                     |              |
| Rango de temperatura inactivo         | 25 to 100 °C                                              | Heat                | 60 to 600 °C |
| Rango de temperatura Baseheat         | 25 to 300 °C                                              | Heat Extended Range | 60 to 999 °C |
| Rango de temperatura Precalentamiento | 60 to 300 °C                                              | Postheat            | 25 to 600 °C |

|                                                                                       |                                 |                   |                     |
|---------------------------------------------------------------------------------------|---------------------------------|-------------------|---------------------|
| Periodo de tiempo (en increcementos de 0,1 seg.) Calor base                           | 0 to 99.9 seconds               | Rise to Heat Time | 0 to 9.9 seconds    |
| Periodo de tiempo (en incrementos de 0,1 seg.) Aumento del tiempo de precalentamiento | 0 to 9.9 seconds                | Heat              | 0.1 to 99.9 seconds |
| Periodo de tiempo (en incrementos de 0,1 seg.) Precalentamiento                       | 0 to 99.9 seconds or continuous | Postheat          | 25 to 600 °C        |
| Communication ports                                                                   | RS-232, RS-485                  |                   |                     |
| MASSA E DIMENSIONI                                                                    |                                 |                   |                     |
| Dimensions EM-P025A : HxWxD (mm)                                                      | 2050 x 1200 x 900               |                   |                     |
| Peso                                                                                  | 600 kg                          |                   |                     |

## Specifications Serie EM LCD/TFT y PDP – Sistemas de producción y reparación de calor pulsado (anteriormente conocido como Emerald) 2/2

|                                                                                       |              |            |
|---------------------------------------------------------------------------------------|--------------|------------|
| TAB sizes minimum L x W mm                                                            |              |            |
| Tab sizes maximum L x W mm                                                            |              |            |
| Chip (COG) sizes minimum L x W mm                                                     |              |            |
| Chip (COG) sizes maximum L x W mm                                                     |              |            |
| Flex sizes minimum L x W mm                                                           |              |            |
| Flex sizes maximum L x W mm                                                           |              |            |
| Customised shapes                                                                     |              |            |
| Thermode (Hot Bar) type                                                               |              |            |
| Thermocouple type                                                                     |              |            |
| Temperature controller                                                                |              |            |
| Air supply                                                                            |              |            |
| Requisitos de energía                                                                 |              |            |
| Temperatura de funcionamiento                                                         |              |            |
| Panel sizes                                                                           |              |            |
| Product handling standard / optional                                                  |              |            |
| Dimensions EM-P045A: HxWxD (mm)                                                       |              |            |
| Peso                                                                                  |              |            |
| Panel sizes                                                                           |              |            |
| Product handling standard / optional                                                  |              |            |
| Dimensions EM-P065A: HxWxD (mm)                                                       |              |            |
| Peso                                                                                  |              |            |
| Panel sizes                                                                           |              |            |
| Product handling standard                                                             |              |            |
| BONDING HEAD SPECIFICATIONS                                                           |              |            |
| Rango de fuerza                                                                       | PH1250       | PH2500     |
| Head actuation method                                                                 | Motorised    | Pneumatic  |
| Bonding force                                                                         | Programmable | Adjustable |
| Force range (N)                                                                       |              |            |
| Hot Bar stroke mm                                                                     |              |            |
| Hot Bar sizes L min - L max mm                                                        |              |            |
| Hot bar sizes W min - W max mm                                                        |              |            |
| Rango de temperatura inactivo                                                         |              |            |
| Rango de temperatura Baseheat                                                         |              |            |
| Rango de temperatura Precalentamiento                                                 |              |            |
| Periodo de tiempo (en increcimientos de 0,1 seg.) Calor base                          |              |            |
| Periodo de tiempo (en incrementos de 0,1 seg.) Aumento del tiempo de precalentamiento |              |            |
| Periodo de tiempo (en incrementos de 0,1 seg.) Precalentamiento                       |              |            |
| Communication ports                                                                   |              |            |
| MASSA E DIMENSIONI                                                                    |              |            |

Dimensions EM-P025A : HxWxD (mm)

Peso

Product applications Serie EM LCD/TFT y PDP – Sistemas de producción y reparación de calor pulsado  
(anteriormente conocido como Emerald)



LCD panel application

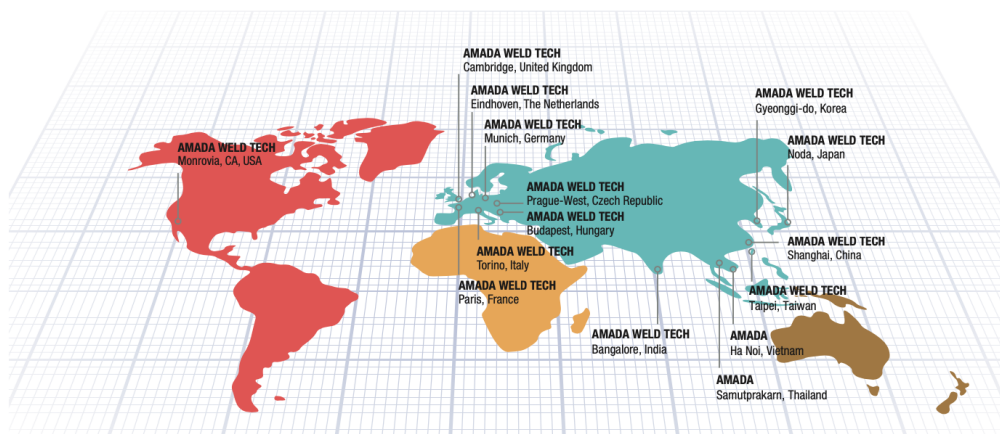
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