

# ZETECH

## APRIL NEWS LETTER

Dear Customers of Zetech,

We at Zetech are wishing you a safe and a successful return to work after a long lockdown and we would like to inform you on our exciting new range of products in SMT technology.

### ESSEGI Storage Solution:



Essegi Storage Solutions offers big advantages over traditional warehouse on shelves:

- Reduced manual errors (Reel picking and loading is done automatically, the system will notify in case of any mistake of picking or loading the material)
- Cut Storage space (up to 3600 reels are stored in 2,5x1,4 meters area, 2,5 meters height)
- Decreased setup time (operator's time is cut from 1 minute per reel to 10 seconds)
- Perfect traceability (thanks to UID per reel we can tell life and time of each reel)
- MSL Control (controlled humidity environment, automatic counting of floor life, Notification of component lifetime expiring)
- Careful components handling
- Increased P&P line's production

### S10 & S20 I-Pulse /Yamaha Pick and Place machine



Yamaha Motor Launch New i-PULSE 3D HYBRID SURFACE MOUNTERS, New models S10 & S20 enables mounting on concave-convex, sloped and curved surfaces

The S10 and S20 have been developed under the concept of a single unit Manufacturing Center designed for surface mounting, dispensing and inspecting. In addition to having superior product loading speed and accuracy as well as highly versatile mounting options from ultra-small chips to large components, these models are hybrids with their mounting heads and dispensing heads intermingled allowing alternate dispensing and mounting. The S10 and S20 are more advanced models than the existing M10 and M20 offering improved flexibility, expandability and productivity.

Through a newly developed tilt mechanism unit and a long stroke on the Z axis in the S10 and S20 models, surface mounting is now possible on concave-convex, sloped and curved surfaces bringing enhanced expandability to suit production types over and above conventional flat board types. Head variation can also be set to a 6-axis 6-theta, or 12-axis 2-theta configurations. Cost performance is further enhanced through improved in placement capability. In addition, stable dispensing and inspecting is carried out thanks to the adoption of a colour fiducial mark recognition camera and newly developed lighting units.

Within the production processes required for control board manufacture, in order to achieve lightweight, compactness and high performance coupled with lower costs, changes are being seen from the conventional two-dimensional placement (flat-surface) to three-dimensional placement, and three-dimensional capability is being further down-sized and adopted in the SMT (surface mounting) fields.

### Thermaltronics Soldering Products and Accessories:



#### Thermaltronics TMT-R9800S

- GlobalSMT Award 2018
- NPI Innovation Award 2019
- SMT EMEA Award 2019
- SMT China Award 2019

Thermaltronics hand soldering products, which incorporate Curie Heat Technology, for precise temperature control are fully compatible with competitive product offerings.

In addition to the hand soldering product line, Thermaltronics also provides an extended range of accessories to support both production and rework applications.

These products include, convection rework systems, IR underboard heaters, fume extraction test equipment, solder wire feeders, tip cleaning systems and an SOLDERING ROBOT, incorporating vision and mapping, fiducial marks, dynamic laser height control and intelligent software.

SO, Zetech is proud to present Thermaltronics Soldering Robot multiple award winner:

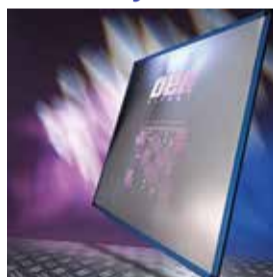
#### General Overview - Unique Features Include:

- Fiducial Marks
- Laser Height Control
- Curie Heat Technology
- Auto Optical Inspection

#### Overview -TMT -R9800S Soldering Robot:

- 6-Axis Soldering Robot
- Dual Arm
- Full Vision Mapping
- Laser Height Check
- Optical Inspection
- Curie Heat Technology
- Advanced Software

### Stencils by Zetech One Pty Ltd



Best known for supplying SMT (surface mount technology) equipment and consumables for printed circuit board assembly for 34 years, Zetech One is enjoying success with its more recently established stencils division.

This is based primarily on the strength of its acquisition, in 2017, of the exclusive DEK/ASM franchise for laser-cut manufacturing stencils and frames for southern Africa. Zetech's laser-cut stencils facility is located at its premises in Edenvale, Gauteng, and includes the T8 laser system, stencil CAD computers and inspection facilities. It can manufacture stencils in a variety of thicknesses, cut on the following frame sizes: 23" x 23", 23" x 29" and 29" x 29". Quality verification is identical to that of DEK stencils worldwide, and the company boasts a fast turnaround time.

Zetech is able to produce various DEK stencil types, including: stainless steel; fine-grain (ideal for fine-pitch applications and a cost-effective alternative to nickel stencils); Zetech can also offer through ASM DEK in Europe laser-cut nickel whose surface qualities deliver especially even and detailed paste deposits; multilevel, ideal for ensuring the right area ratio for each component; electroformed, which are built layer-by-layer for outstanding printing properties; and 3D electroformed stencils for very special cases – with cavities or for chip-on-board applications. For applications and processes that pose special requirements, Zetech specialists are available to provide further assistance.

The company also offers standard as well as high-tension VectorGuard frames. The frame system allows assembly specialists to use a single frame to accommodate multiple stencil foils for different products. Foils are loaded into the frame using air pressure, then VectorGuard's unique tensioning system engages to hold the foil securely in place.

Customers that use our stencils and have changed from mesh and other stencil types to VectorGuard are happy with the Zetech/DEK stencils with regards to price and superior quality.

**For more information contact Zetech at:**

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