

Velankani Electronics Private Limited in Bengaluru, India

“Technology for all” is the motto under which founder and CEO Kiron Shah and his team develop high-quality, low-cost mass market products such as setup boxes and smart meters under the company’s own Prysm brand. The Bengaluru factory operates with state-of-the-art production technology, wide-ranging automation, advanced process integration, and a high degree of vertical integration.

Key Facts

- > Production with extreme depth of vertical integration
- > High-volume operation in three shifts
- > Over 1,300 splicings per line and day
- > Inline robotic cells and cobots for assembly, testing, and packaging
- > Three state-of-the-art SMT lines as blueprint for 13 additional lines

Focus

- > Transparent, paperless material management
- > Optimized material flows and short distances
- > Automatic tower storage systems for material replenishment next to the lines
- > Operator guidance via Line Monitor and intelligent feeders
- > DFM (design for manufacturability) improvements made by cross-functional teams from development, testing and production operations
- > Special tool designs for placing THT components
- > Reduction of manual operations through automation and robotics

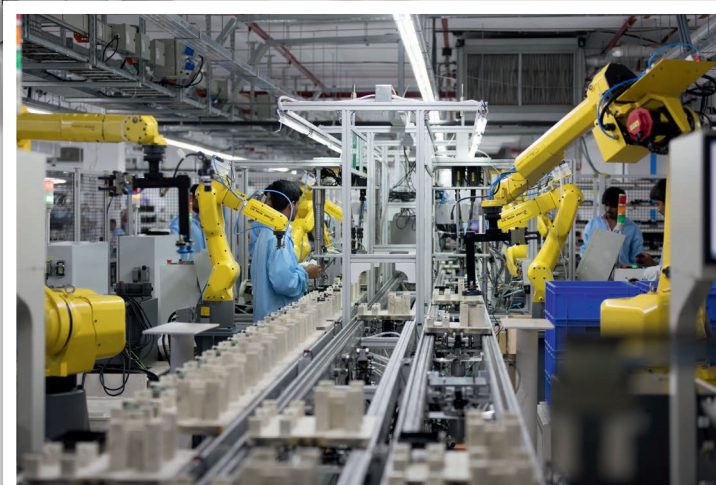
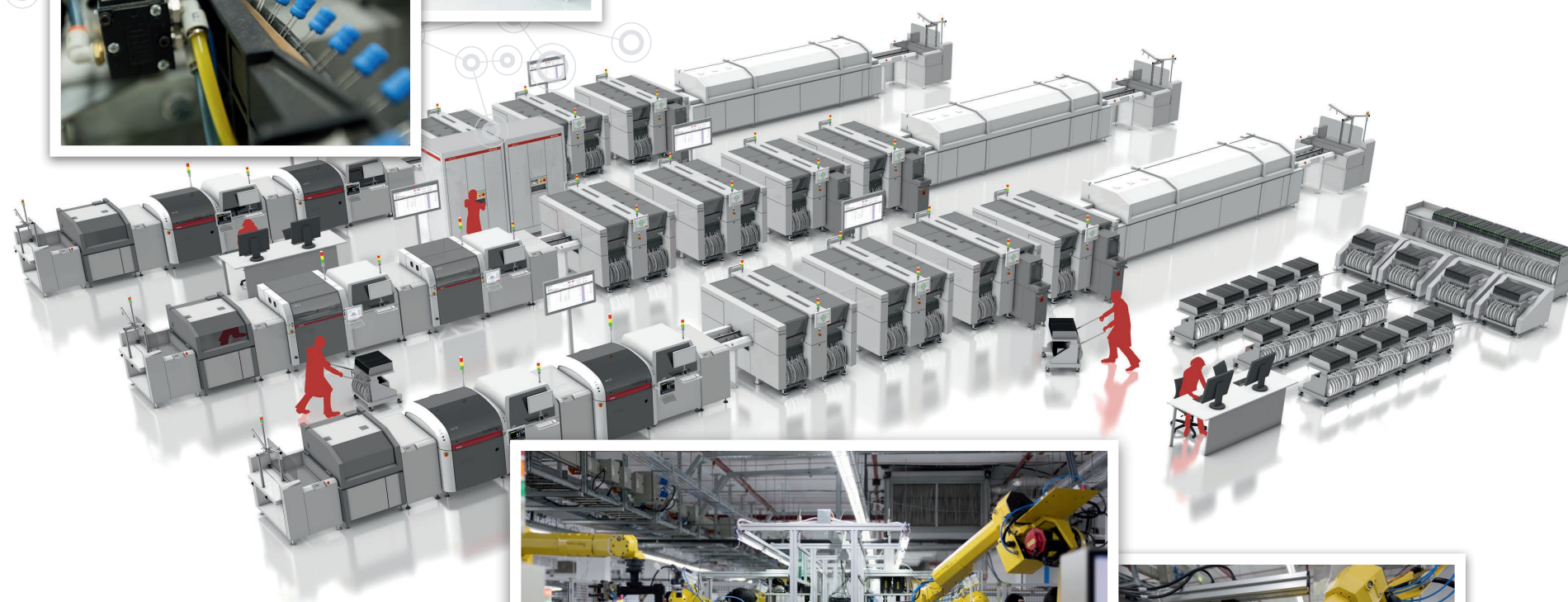
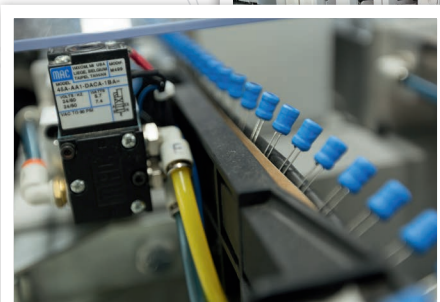
Results/KPIs

- > Minimization of manual assists at the line
 - Number of operators per line reduced from 5 to 3
 - Target: 1 operator per line
- > Significant reduction of material-related line stops and setup errors
- > Massive increases in output
 - Increase from 10,000 to 17,000 units
 - Continuous improvement of line configurations and processes

INDIA

“The uniqueness in ASM is to work with us and to see, how we can change processes to reduce some of the steps in traditional SMT and to achieve a much higher level in output and quality.”

– Kiron Shah,
CEO & Founder –



Velankani uses robots to maximize its quality and efficiency.

Made in India. Our Velankani videos provide a look at the company and its processes.



VELANKANI
Smart SMT Factory



VELANKANI
Workflow Material Management