News Release

Yamaha boosts surface-mount programming efficiency with latest software release

Yamaha Robotics SMT Section has introduced enhanced software tools to accelerate new product introduction (NPI) using YSUP-PG, the program generator for the company's surface-mounters and inspection systems.

With an enhanced user interface and new automated skills, the latest version of YSUP-PG accelerates data conversion from popular EDA file types such as ODB++ when generating mounter and inspection programs. The upgraded features take over routine procedures, provide clickable at-a-glance task lists, and update component-placement images in real-time to help manage work items and monitor progress. Leveraging this assistance, users can apply their expertise to ensure the integrity of incoming data and quickly generate high-quality programs.

"The SMT line is where each new product crosses from the digital world, existing as a collection of files from different tools, and becomes real. Historically, merging these information sources into a buildable project has been time consuming and laborious," explained Shuichi Imai, Sales General Manager for Europe, Yamaha Robotics SMT Section. "By leveraging advanced computing principles and data analytics, the latest YSUP-PG now makes programming faster, easier, and more efficient than ever for Yamaha customers."

Also new, YSUP-PG generates AOI libraries directly from CAD information, ensuring greater efficiency and faster NPI by enabling teams to develop the mounter and AOI programs concurrently. In addition, YSUP-PG includes enhanced gerber image and CAM conversion tools that generate highly accurate simulated board images to further ease AOI programming. The gerber image tool has built-in image compositing capabilities that automatically calculate how to construct the image from the descriptions of different PCB layers.

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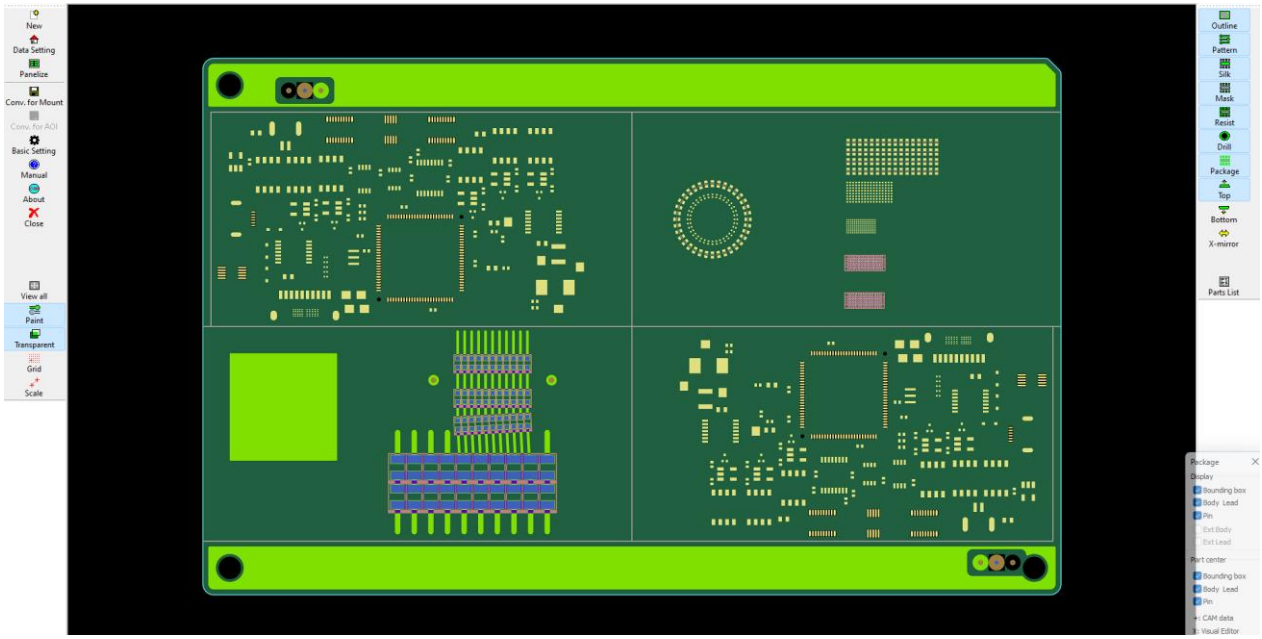

The YSUP-PG CAM converter generates highly detailed simulated board images.

Leveraging accurate knowledge of the board geometry gained from combining the gerber and CAD data, YSUP-PG calculates push-up pin positions digitally. The calculated positions save manual fine-tuning, traditionally done by referring to a physical assembly, reducing user workload and helping accelerate NPI. The images additionally enable accurate desktop trial mounting, letting users verify component coordinates, polarity, and angle in advance to save building test assemblies and ensure full production can begin straightaway.

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About Yamaha Robotics SMT Section

Yamaha Surface Mount Technology (SMT) Section, a subdivision of Yamaha Motor Robotics Business Unit in Yamaha Motor Corporation, produces a complete selection of equipment for high-speed inline electronic assembly. This 1 STOP SMART SOLUTION includes solder paste printers, component mounters, 3D solder paste inspection machines, 3D PCB inspection machines, dispensers, and management software.

Bringing the Yamaha way to electronics manufacturing, these systems prioritize intuitive operator interaction, efficient coordination between all inline processes, and modularity enabling users to meet the latest manufacturing demands. Group competencies in servo-motor control and image recognition for vision (camera) systems ensure extreme accuracy with high speed.

The current product line includes the latest YR equipment generation, with advanced automated features for programming, setup, and changeovers, and new YSUP management software with state-of-the-art graphics and built-in data analytics.

Combining design and engineering, manufacture, sales, and service competencies, Yamaha SMT Section ensures operational efficiency and easy access to support for customers and partners. With regional offices in Japan, China, Southeast Asia, Europe and North America, the company provides truly global presence.

https://smt.yamaha-motor-robotics.de/

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