



Hanwha Techwin



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Who Is Hanwha Techwin

Hanwha develops advanced technology for pick and place equipment from concept to reality. Their R&D development was originally driven by their own need to produce a wide range of Hanwha Techwin products as well as the needs of other manufactures building military, aerospace, medical, automotive, industrial and communication products.

Why Hanwha Techwin

Captive Technology:

- Global OEM - building electronics using their own machines in rigorous, non-stop production environments worldwide
- Subsystems - machine vision and intelligent SMART (Simple + Modular + Available + Reliable + Throughput) technologies

Scalable Platform:

- Chip, flex, and odd-form-capable platforms - for dynamic productivity, control and efficiency; built on a common-family-platform
- Compatibility and modularity - with legacy technology , including feeders, nozzles and program portability allows future growth and expansion with less risk of obsolesce

Support Synergy:

- Hanwha Techwin's strategic infrastructure - for R&D, manufacturing, applications support and logistics in locations worldwide
- Sales, service, and parts - handled responsively 24/7 by Hanwha-Certified Expert Technical Services Engineers at locations throughout North America

Return On Investment:

- Low cost of ownership - with minimum maintenance requirements, comprehensive warranty, free technical support, free life-time software upgrades and intuitive user-friendly operator interfaces
- Optimum utilization - with advanced software tools, quick-change feeder carts, setup verification and the industry's first fully automatic loading tape feeder



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Hanwha Techwin Technical Advantages

- Electric driven smart feeders that are fast, calibration and maintenance free
- New Technology Feeders - Auto Load / Auto Splicing / Ability to auto feed 6" tape sections for prototypes
- PCB transfer time is shortened as a result of high-speed shuttle conveyor operation.
- Each placement spindle utilizes an integrated HD/mega-pixel head cameras for part inspection on the fly
- Minimized head movement path through recognizing parts during transportation
- Traceability module allows the customer to know what components from what lot number are placed on what board, in what location, at what date and time
- Performance monitoring for any board or group of boards for any period of time including speeds, performance, operation status, and defects by head, feeder, nozzle
- Virtually built board viewer, confirms program is correct before placing parts
- Package on Package
- Side tray feeder automatically handles up to 20 trays without sacrificing feeder capacity
- Fast changeover (5-10 minutes) and off-line feeder cart setup and verification
- Software with embedded offline programming and powerful diagnostics for troubleshooting
- Low maintenance cost and time - Less than 8 hours time & less than \$800 in consumables per year
- Odd shaped component placement and through hole insertion

General Technical Specifications

- 01005 chip to 75mm component range
- Up to 120K CPH placement speed capabilities
- 120-8mm feeder capacity
- Up to 1,200mm board size
- Package-On-Package capability
- 28mm component height capability
- Dip flux and place packages with ball size of .005" (.125mm) @ a ball pitch of .013" (.35mm)



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