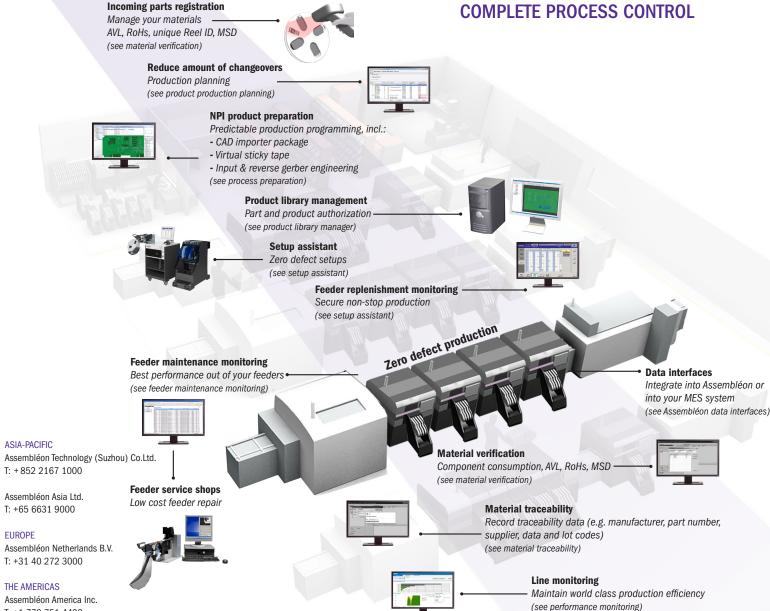
SMART solutions



ASIA-PACIFIC

T: +65 6631 9000

EUROPE

THE AMERICAS

T: +1 770 751 4420

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Factory integration solutions for





New Product Introduction (NPI) software: shortest time from CAD to volume production

Functional diagram shown: this is not an ordering diagram

Main application/ interfacing

Options

Assembléon data preparation and programming (MSS Process preparation)

- Predictable programs within 5% cycle time accuracy
- Import Assembléon PP, Centroid, GenCad and BOM
- Single family setup
- Assembléon component and shape library

CAD importer package

Import industry's most common CAD formats: Altium Designer & P-CAD, Allegro, OrCAD Designer, OrCAD Lavout, Mentor Board Station & Power PCB. PADS Perform, PDIF, Zuken Cadif & PWS & BD Note: others on request



Input & reverse gerber engineering

Fast route from gerber to centroid



Optimizer for:

- Flexline, iX 502, iX 302

Virtual sticky tape

check, and corrects:

Create zero defect programs offline

- Offline true-form program simulation,

x, y, data, rotation, setup, polarization, pin 1 check

- iFlex
- Hybrid

Option: Client-server

Product library manager

Create parts and programs only once

- Central parts and program management and authorization tool synchronize parts + process data with the data preparation tool
- Second source parts lists
- Intelligent shape rules simplify NPI process for new parts



Product grouping and scheduling (MSS Production planning)

Aiming for the least amount of setup changes in a high mix production environment

- Fast grouping engine
- Deadline planning
- Checks component shortage, feeder capacity and machine availability
- Single lane

Option: Multi-line production planning

MSS Prod. Planning light: 50 product limit



Manufacturing Execution System (MES) software: complete manufacturing coverage

Main application/ interfacing

Assembléon data interfaces

- Traceability data interface, based on standard CamX specification
- Performance data interface, based on standard CamX specification
- Materials dB interface: For real-time parts consumption data (requires setup assistant)
- SECS/GEM Equipment Communications Standard

Setup assistant

Zero defect and fast online and offline setups

- Setup guidance
- Component second sourcing
- Error proof setup validation
- Feeder replenishment monitoring
- Fast change-overs
- Reel expiration date monitoring



Manage and control line efficiency

- Real-time monitoring
- Machine status and PPM levels
- Reporting



Performance monitoring Material traceability

Parts warehousing

Trace data storage and reporting

- Work order traceability + reporting
- * Component trace data linked to work order number
- PCB traceability + reporting
 - * Extends trace data linkage from work order to reference designator



Material verification

Central material management

- Incoming material registration
- Unique reel ID
- RoHs, Approved Vendor List (AVL), Moist Sensitive Device (MSD) and component
- Material consumption registering



Feeder maintenance monitoring

Get the best performance out of your feeders

- Maintenance warnings
- Maintenance history



Connect to feeder service shop

- Schedule feeder maintenance



Open communication interface Integrate into your MES system

Performance, process and traceability data (based on CAMX IPC or SECS/ GEM protocols)