

PalletSolver®

Comprehensive Palletizing Software Suite

Key Benefits

Fast development and deployment of complex palletizing workcells

Offline (PC-based) pallet pattern generation and cell definition

Online (controller-based) execution and optimization of the palletizing operations

Compatibility

YRC1000

DX200

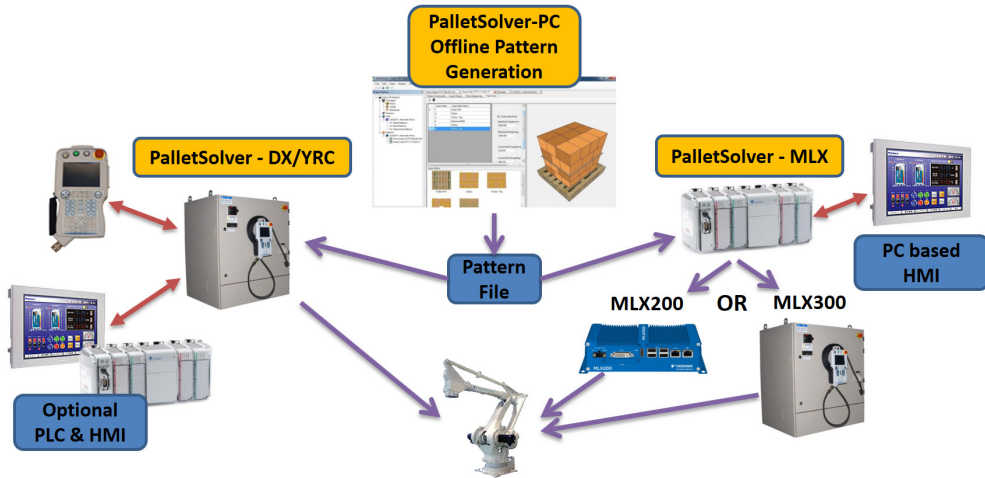
MLX300

MLX200

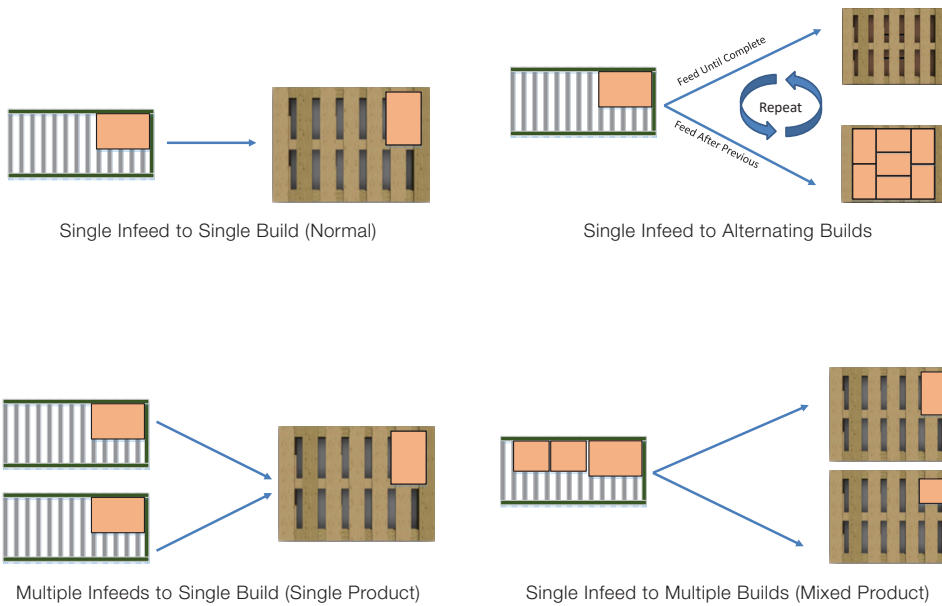


- Easy-to-use configuration, setup and customization routines enable fast development and integration of robotic palletizing systems.
- Two components – PalletSolver-PC and PalletSolver-Online – separate the definition and configuration on the PC from the execution on the controller.
- Scalable architecture easily handles single and complex multi-line palletizing, as well as single and multiple workcells.
- Interference zones can be designed to limit arm movement, avoiding collisions with surrounding equipment.
- Offline pattern development and sequencing is separate from production which facilitates quick changeover of patterns or products without system downtime.
- Multiple gripper types (fork, vacuum, clamp, bag) can be accommodated.
- Dynamic gripper zones enable flexibility for handling various product sizes.
- Adaptable for various end-of-line processing requirements, such as a single infeed to multiple build stations or single infeed with multiple products to multiple build stations.
- Support for smart conveyors.
- Label placement flexibility.
- Accommodates virtually unlimited SKUs (Stock Keeping Units).
- Pattern files, in XML format, are transferred to the controller via network or USB thumb drive.
- Directly import pallet patterns from third party tools (CAPE/TOPS).

PalletSolver



Typical Architecture



End of Line Options

KEY PALLET SOLVER FEATURES

System configuration options:

- 8 Infeeds
- 8 Build stations
- 2 Pallet dispensing stations
- 2 Slip sheet dispensing stations

Gripper options (vacuum, bag, fork, clamp)

Gripper configuration options:

- 8 Zones
- 32 Grip areas
- 32 Sensors

Smart conveyor support

Interference zone definition

TOPS/CAPE importing

Flexible build station configurations

Optimized path planning

Sequencing options (round robin, priority, ratio balancing, override)

Export to XML

Automatic reject station

MINIMUM REQUIREMENTS

Offline

- Windows® 7
- Microsoft® .NET Framework 3.5
- 400 MHz processor, recommended 1 GHz
- 128 MB RAM, recommended 1 GB
- 30 MB hard disk space
- 1280 x 1024 screen resolution

YRC1000 and DX200

- Controller software with MotoPlus™ support
- 64 MB programming pendant
- 256 MB industrial grade compact flash card or USB flash drive

MLX-Series

- 1769 CompactLogix™ controller with built-in ethernet
- OR -
- 1756 ControlLogix®/GuardLogix® safety controller, 1756-ENBT ethernet module
- 3 MB memory on PLC

Studio 5000 Logix Designer® V 24 minimum

FactoryTalk® View ME Station version 7; 75 display activation

Yaskawa America, Inc. | Motoman Robotics Division

100 Automation Way
 Miamisburg, OH 45342
 Tel: 937.847.6200 | motoman.com

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