

FASTPLANT[©]

AUTOMATED
CONVEYOR
SYSTEM

COMPOSED TO COMPETE

- Fast transfer between work stations
- Easy loading and unloading of parts and tools
- Flexible adaptation to different material flow layouts



FASTPLANT® - AUTOMATED CONVEYOR SYSTEM

Area of Application

FASTPLANT is a modular, cost-efficient transport system for assembly lines that enables higher production rates within moving or pulsing line concepts. It is widely used in the aerospace sector for the assembly of aircraft, sections or engines. The system is designed to allow clean floor production concepts.

FASTPLANT possess a lifting unit to guarantee ergonomic working levels for the workers. Specific product adapters can be attached. The specially developed software and monitoring system control the production flow and report actual product data as well as fault history. The modular system is very flexible and can easily be extended or relocated. The standardized modules can integrate media, energy and data connections (if required by the process).

System Modules



Straight Module

Curve Module

Switch Module

Shuttle Module

Lift Unit

Technical Data

Carrier	Rotational Unit
Total Lifting Weight: max 5,500 kg (12,200 lbs)	Rotational Range: $\pm 360^\circ$
Dimensions: 2x 4 x 2 m (6x12x6 ft)	Rotational Speed: max 720°/min
Vertical Stroke: 2.1m (82.5")	Rotational Accuracy: ± 0.5 deg
Travel Speed: 1-10 m/min (3-30 ft/min)	Anti-vibration capacity to protect workpieces
Positioning Accuracy: ± 2 mm (± 0.080 ")	
Payload: 3,500 kg (7,714 lbs)	
Lifting stroke: 2,000 mm	

Special Features

Development & Realization Cost

- Modularization in work station design
- Standardized customizable modules
- Smooth transition between systems

Production volume scalability

- Simple modular units
- Simulation tools to evaluate variations / alternatives
- Capability to disassemble and relocate

Product & location flexibility

- Simple to extend, to shorten, or to reconfigure the system
- Multi-programmable carriers (motion & sequence)
- Self supporting units, no pits, no attachment to building structure
- Modular structure allows to maximize floor space usage

Process & Throughput

- Defined material flow including anti-collision protection
- Lead time & WIP reduction
- Improved workplace organization (tools)
- High positioning accuracy

Ergonomics

- Open floor for product accessibility
- Multi-dimensional adjustment of product (height, rotation)

Cleanliness

- No floor openings to collect dirt or dust
- No tripping hazards, No rust
- State of the art facility



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