



Condor Flex[®]

I-Scan's new generation of the well proven Condor Multi Purpose Robotic Stacker is a highly versatile and comprehensive robotic workcell.



- ▶ Automatic handling of all glass plates up to jumbo size
- ▶ Unloading directly off the main line
- ▶ On-the-fly unloading
- ▶ Integrated cut-glass vision inspection system
- ▶ On-line implementation



I-Scan Robotics
Automated Systems for the Glass Industry

Technical Data:

Jumbo size handling:

- Glass plate sizes range:
From 3300 x 2400 to 6100 x 3660 mm.
- Glass plate thickness: 1.6- 19 mm.
- Max. glass plate weight: 680 Kg.
- Cycle time: 17 to 19.5 sec.
- Rejected types of glass defects: dimensions, cracks, breaks, edge-defects, ink marks.

LES size handling:

- Glass plate sizes range:
From 1000 x 2400 to 2700 x 3660 mm.
- Glass plate thickness: 1.6-19mm.
- Glass plate weight: 340 Kg.
- Cycle time: 8.5 to 12.5 sec.
- Rejected types of glass defects: dimensions, cracks, breaks, edge-defects, ink marks.

SSS size handling:

- Glass plate sizes range:
from 700 x 1400 to 2700 x 1830 mm.
- Glass plate thickness: 1.6-19mm.
- Glass plate weight: 340 Kg.
- Cycle time: 8.0 to 10.0 sec.
- Rejected types of glass defects: dimensions, cracks, breaks, edge-defects, ink marks.

Conveyor speed:

- Up to 85 meters per minute.

Robots:

- Vendor: Kawasaki or other.
- Payload: up to 500 kg.

Grippers:

- Gripping method: Vacuum.
- Computerized control: up to 11 vacuum groups.
- Sensing: glass presence, vacuum.

Linear traversing units:

- Control: 7th axis, controlled by the robot.
- Travel range: 2500 mm.
- Payload: 3000 Kg.

Rotating Tables:

- Maximum load: 3,000kg per side (6,000kg total)
- Rotating time: 11 seconds.

Racks:

- Rack type: L frame or A frame.
- Maximum glass weight: 30 tons for Jumbo, 3 tons for LES/Split.


MMI:

- Hardware platform: Industrial PC workstation.
- Software platform: GUI on Win 2000 workstation.
- Interface: communication or host computer (line manager computer).

Safety System

- Closed safety zone : Fences and safety switches.

**Automation In Motion.
Go for the shortest, simplest, most flexible line.**


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