



CASE HISTORY

HANDLING LARGE SIZE GLASS PANELS



CHALLENGE

A **Company** needed to **improve safety** in the manual handling of large glass panels of different sizes (2m x 2m; 2m x 025m; 4m x 1m) and at the same time needed to **ensure constant production output**.

HANDLING CYCLE

- Gripping glass panels from trolley at 1500 mm height - panel in vertical position inclined by 5°, leaned on the short side;
- Rotation by +90°/-90°;
- Release on assembly line at 600 mm height.- panel in vertical position leaned on the long side.
- Cycle time: average 1000 -1200 glass panels in 10 hours.



SOLUTION

After evaluation of different solutions only an INDEVA[®], Liftronic[®] series has showed to be the ideal one.

The system is equipped with **self balancing gripping tool for handling glass panels of 50 Kg**. Load gripping is carried out by vacuum. Technical features of the electronic load balancer (evolved industrial manipulator INDEVA[®]):

- gross capacity: 140 Kg;
- net capacity: 75 Kg
- vertical excursion: 2800 mm
- lifting speed: 22.5 m/min
- power tension: 230 Volt – 50/60 Hz
- max absorbed power: 630 W;
- enclosure protection: IP 54.

DOUBLE JOINT"ORBIT-ARM":

- arm length: 3500 mm;
- max rotation on vertical axis 360°;
- COLUMN – 3000 mm high;

Base platform suitable for being moved by means of a transpallet, complete with support for the end effector.

Handles ergonomically designed; one finger tip handle.

Now the operator can handle glass panels for the whole working day with no effort. Handling large size glass panels has never been so easy: the INDEVA[®] acts as an extension of the operator's arm providing power without the typical constrictions of machines: no buttons to keep pressed and no load pre-setting to select when a load with a different weight has to be picked. **Safety against load fall and injuries to the operator are also ensured.**

An INDEVA[®] is the only solution that increases productivity, ergonomics and safety in the manual load handling.

See all solutions provided from INDEVA[®] at

<https://www.indevagroup.com/best-solutions-for-material-handling/>