

# 002NV

## Verticalisation Shuttle

Independently driven shuttle designed for loading and unloading of parts to and from any motorised or driven structure.

Its **brushless motors** allow it to transfer welded frames **incredibly fast** (up to 2 m/sec.), **changing their position between horizontal and vertical (0-92°) with extreme precision** (0.5 mm translatory and 0.1° verticalisation).

### Introduction

#### Automation to Speed Up

Constructed entirely from powder-coated welded tubular section steel, it is equipped with a contact surface (**with**) composed of **motorised belts and dedicated diagonal brushes** which prevent any blockage during movement of the frame to the corresponding destination table.

### The plus of Verticalisation Shuttle

#### Advanced Solutions

1. Extremely **fast and flexible system**.
2. **Able to pick up frames from horizontal tables or vertical roller conveyors.**
3. **Able to** perform unloading and classification of welded frames.
4. **Ideal for supplying hardware installation/assembly lines.**



To facilitate inlet and outlet (of the frames) in horizontal passages, the shuttle is equipped with 5 vertical rollers at the sides of the rack, while the base features an **inverter-driven motorised conveyor belt** in order to guarantee **fast and safe vertical passages**. This allows the components to be transferred, even at different movement speeds, towards a vertical storage rack or a storage system.

The shuttle is also equipped with **front guards** in order to stop the frame from falling following sudden or emergency stops.

## Specifications

### Dimensions

Length	3.400 mm
Width	3.500 mm
Height	3.300 mm
Weight	1.300 Kg

### Details

Installed Power	12 Kw
Power Supply	400 V
Air Consumption	30 NI/min
Operating Pressure	7 bar

## Operating Features

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#### Structure

Contact surface with motorised belts.  
Vertical rollers at the sides of the rack.  
Motorised conveyor belt.  
Front guards.

#### Machining

Loading and unloading elements.

**Operators** n. 1

## Technical Features

### Performance

Average mission time\* (loading/transporting/unloading): 50 sec.  
\*Depends on line length.

### Automatic Loadable Frame Dimensions

Length	2.800 mm
Width	1.400 mm
Height	130 mm

## Optional

**Upon request the machine can be equipped with:**

#### Verticalisation at 98°.

System with **pinion for motion transmission** to storage belts.

#### Grapple for square movement.

**Extraction system** for gravity warehouses.