

Motor Driven Shuttle Mover

ESM SERIES

Motorless type

Belt drive

Two-dimensional transport P&P system

Giving a new concept to
the motorless actuator.

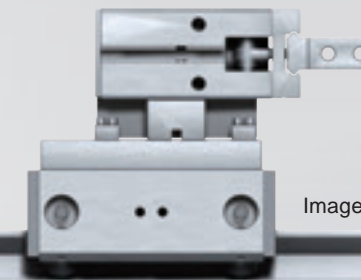


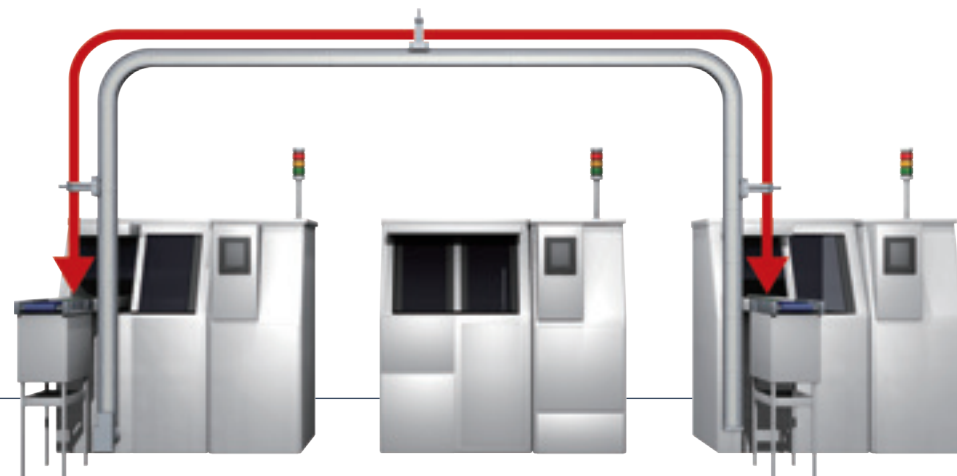
Image for illustration purposes. (Hand is sold separately.)

Modular connection of each rail

Free and flexible combination.

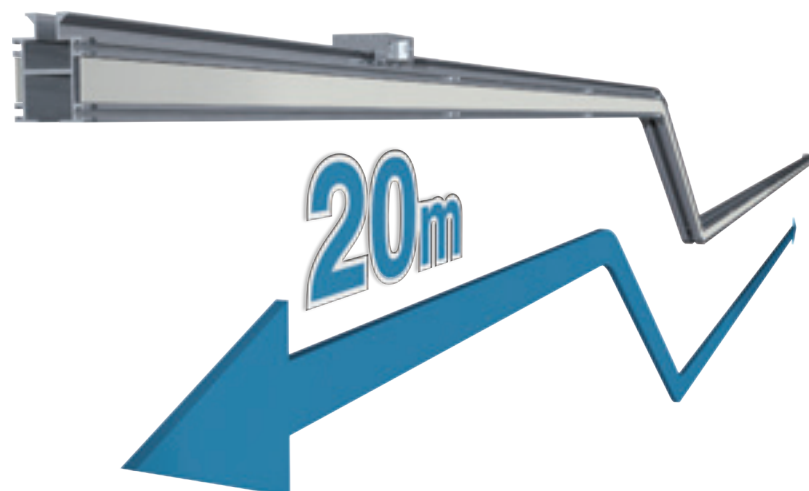
2D transport in a compact space with one motor

2D operation is realized without using multi-axis or gantry robots. The space can be utilized as desired. Ideal space-saving size.



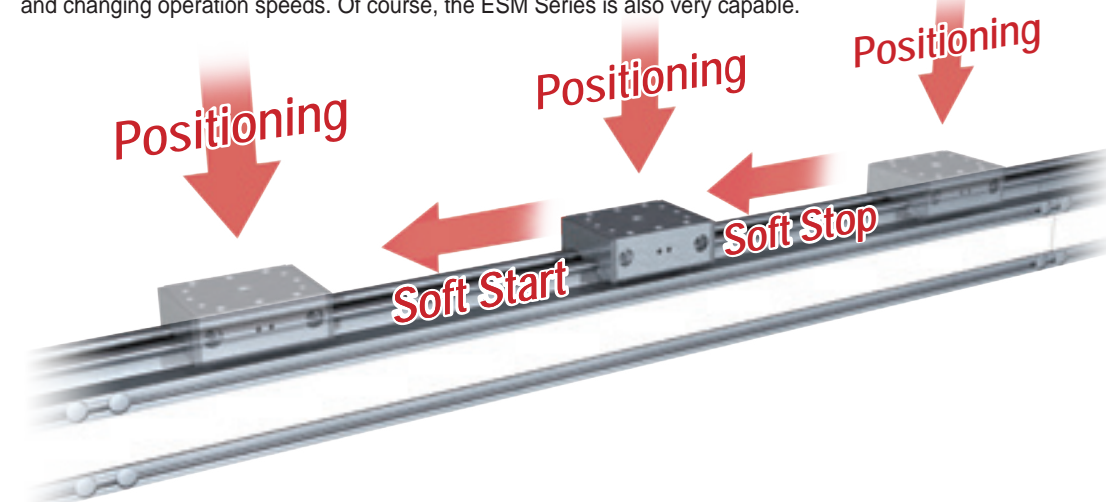
Long stroke a Max. of 20 m

Unusually long stroke lengths that shatter the conventional notion about electric actuators. Before considering linear motors, let ESM solve your problems.



Multiple point positioning and soft start & stop

Electric actuators are particularly adept at multi-point positioning, acceleration/deceleration settings, and changing operation speeds. Of course, the ESM Series is also very capable.



Motors by various manufacturers are supported

Mount motors you're familiar with. Includes brackets for motors from various companies, similar to the motorless series.

List of motor manufacturers and field networks

	General purpose	SSCNET	CC-Link	MECHATRO LINK-II	MECHATRO LINK-III	Device Net
MITSUBISHI	●	●	●			
Yaskawa Electric Corporation	●			●	●	●
Keyence Corporation	●			●		

This product does not have a motor mounted. The user must prepare, mount, and adjust the motor and driver. Refer to the table "Mounted motor specification and recommended motor model No. (rated output 750W)" on page 2 for details.

Transport problems can be solved with "ESM"! !

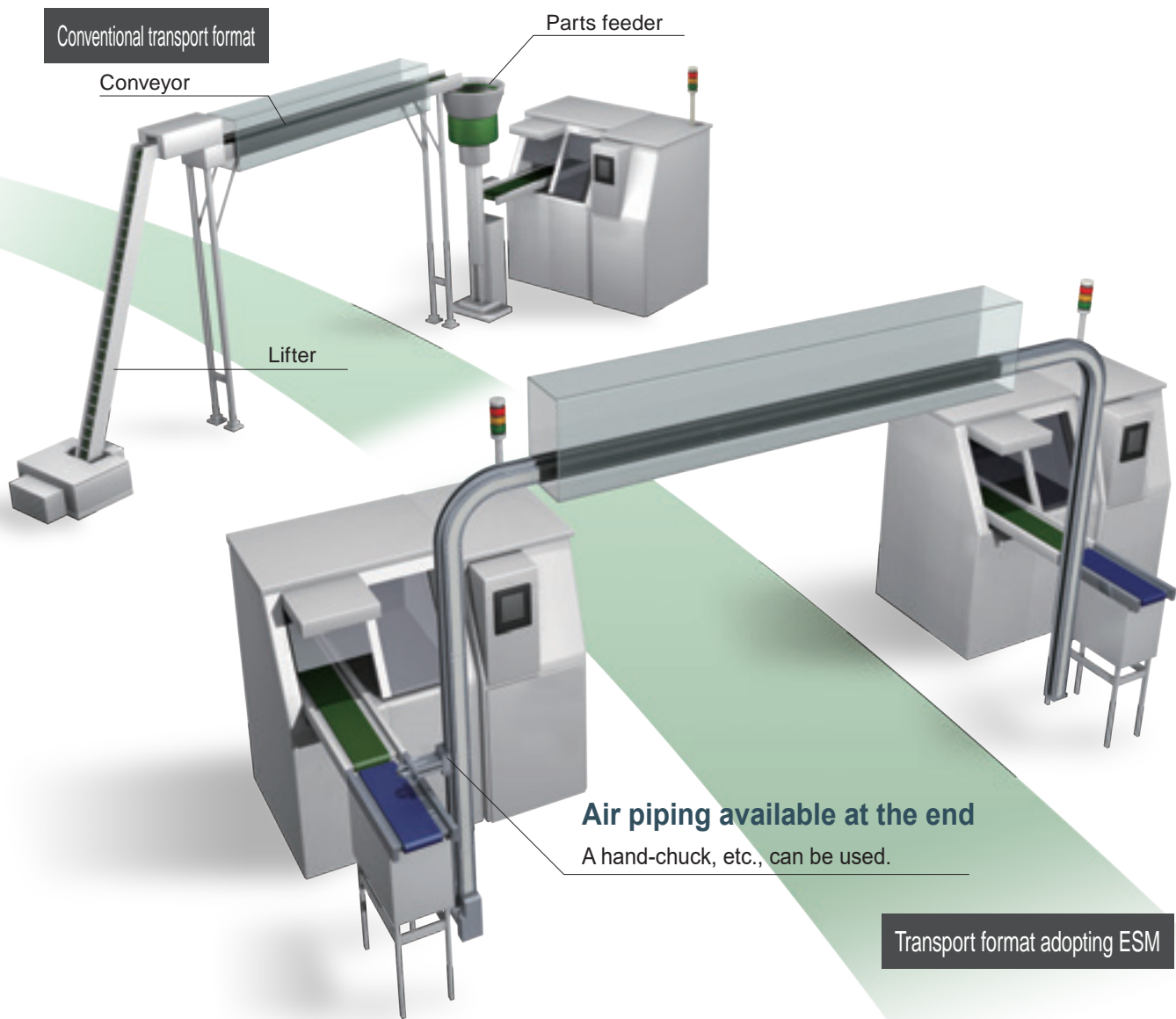
Solution examples

Effective use of space

Transport between devices to the next process

Two dimensional transport

To transfer a workpiece from device to device while securing the conventional passage.



Effect example

- High speed transport is possible (straight part: max. 2,000mm/s, curved part: max. 1,500mm/s)
- Multi-point stop at any arbitrary position is possible (repeatability: $\pm 0.5\text{mm}$)
- Soft start and stop control are possible
- Set the path by combining straight lines and curved units
- Easy layout change after installation

For 3D transport

Air shuttle mover
SM-25

An air-driven three-dimensional P&P system which enables free three-dimensional layout. The bending technology enables curved movement without crushing the cylinder tube. 3D transport is realized.

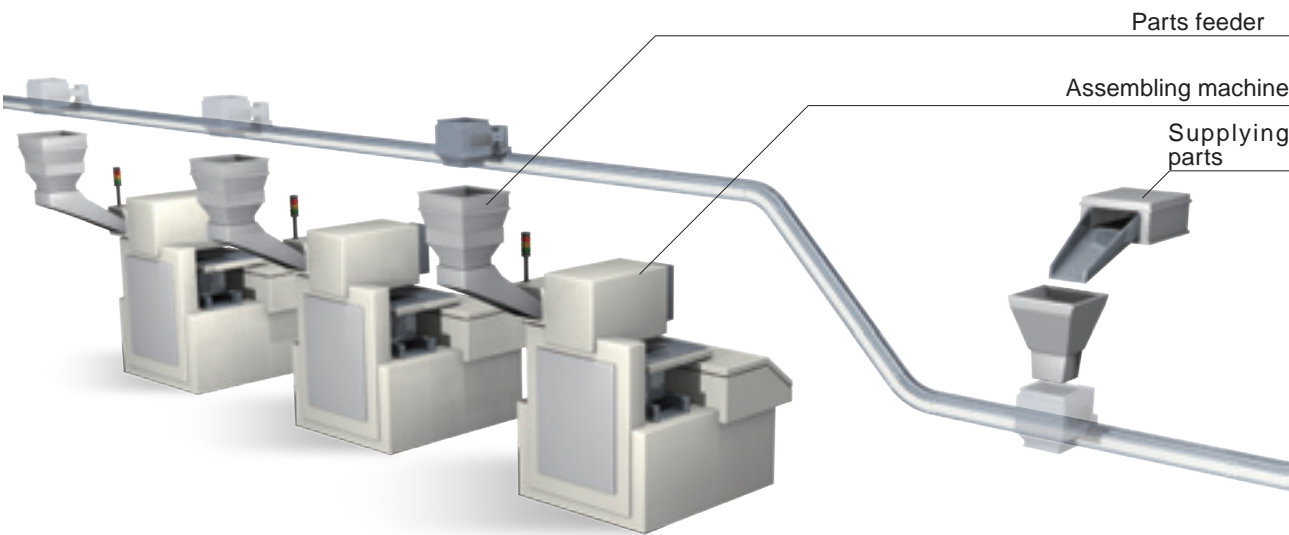


Increasing production efficiency

Parts are supplied to the same devices arranged in parallel.

Long stroke and multi-point positioning

The supply of assembly parts to the same equipment in large numbers can be integrated by one actuator.



Effect example

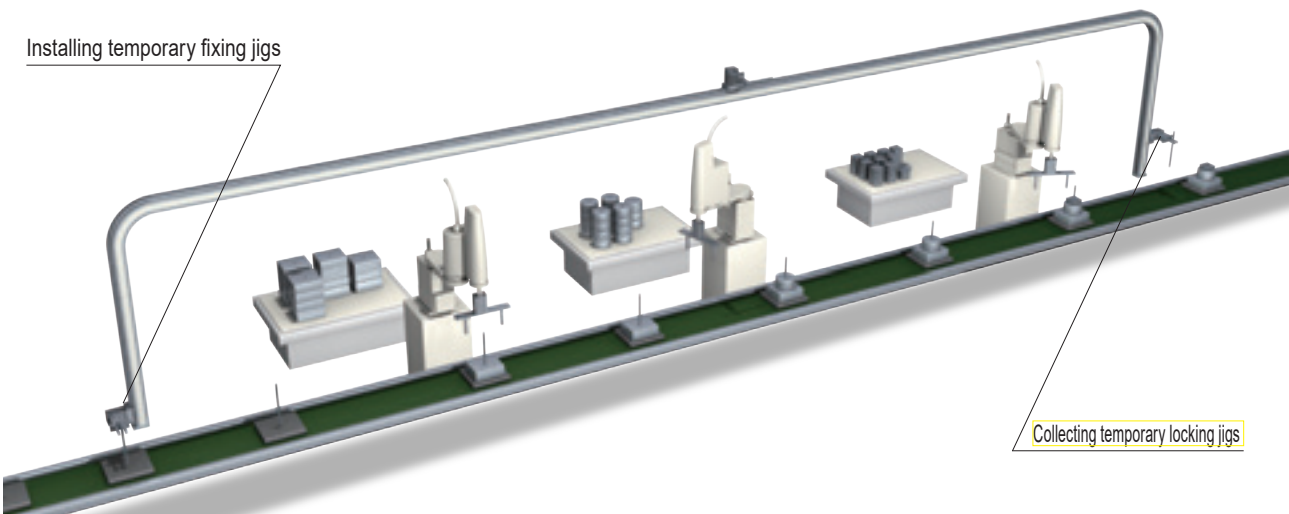
- Productivity improved as production lines were no longer wasted.
- Reduced staff workload.
- Assembly machines can be installed linearly to effectively use plant space.

No major capital investments or modifications

Collecting temporary fastening pins on a free-flow line

Long stroke and high speed

Pins for which workpieces are temporarily fastened at the start of assembly are finally collected. Returns to start location.



Effect example

- The transport workload of the staff has disappeared.
- The equipment layout was improved with little change.