

Heavy Workpiece Transfer Package
LinerDrive
LRS350, LRS1000



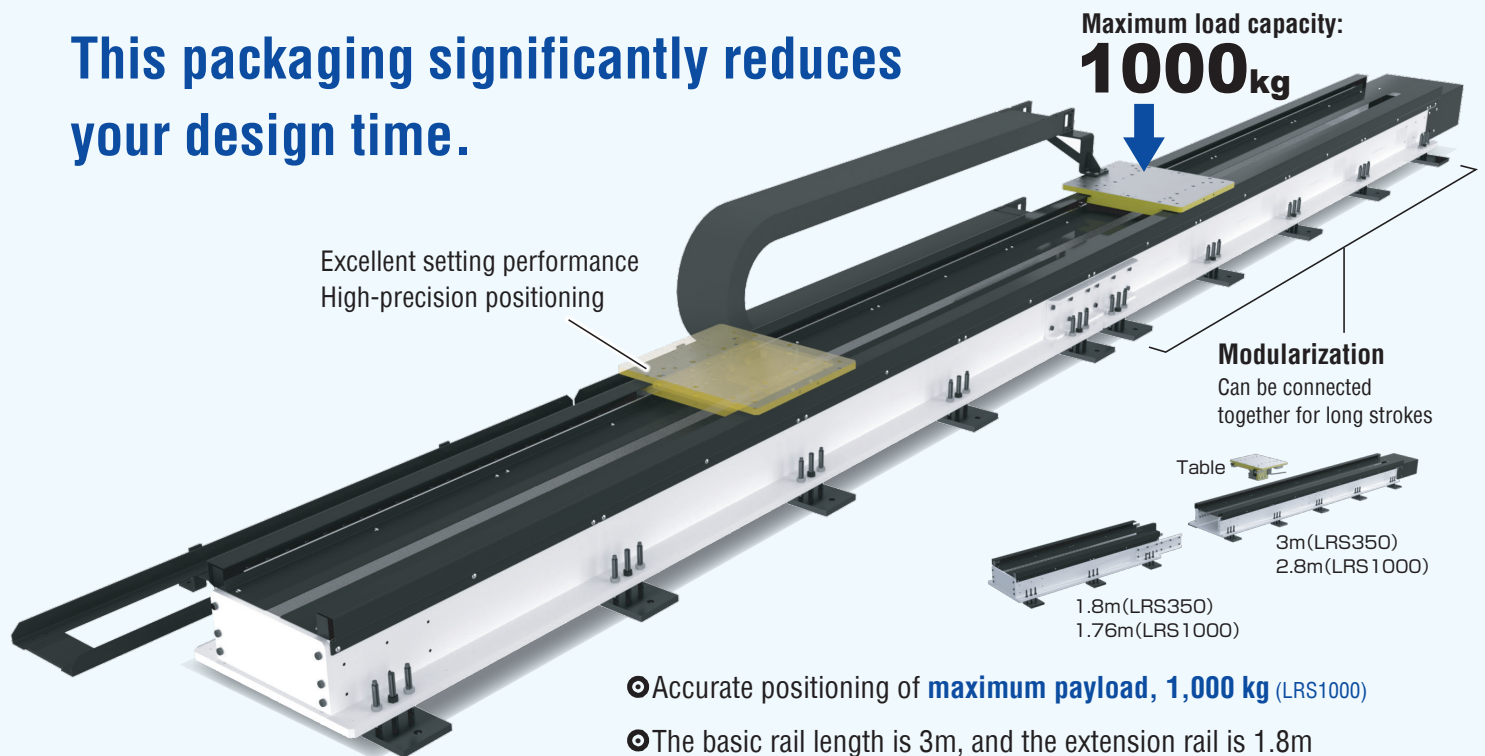
Maximum load capacity: 1,000kg
High-precision positioning
Linerdrive LRS series

Heavy Workpiece Transfer Package *LinerDrive*

Sankyo's original straight-line drive mechanism using cam technology is packaged with a liner unit, guide, servo motor, and controller.

It offers a new level of transport for positioning heavy loads up to 350 kg (LRS350) and up to 1,000 kg (LRS1000). This packaging significantly reduces the customer's design time and expands the work area of the articulated robot. It optimizes the acceleration and deceleration of products with cam curves.

This packaging significantly reduces your design time.



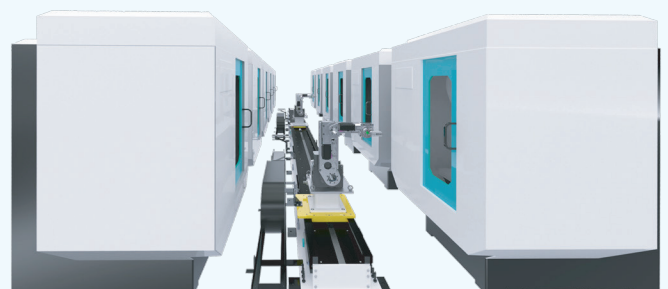
- ⦿ Accurate positioning of **maximum payload, 1,000 kg** (LRS1000)
- ⦿ The basic rail length is 3m, and the extension rail is 1.8m (LRS1000 has a base rail length of 2.8 m and an extension rail of 1.76 m)
- ⦿ **Reduced tact time** due to excellent settling properties
- ⦿ Connect the extension module to the basic module to **support longer strokes**
- ⦿ **Dramatically shortens the time from design to implementation** by providing a package that includes the controller.
- ⦿ **Easy set up and easy operation** with a dedicated controller

Model		LRS350	LRS1000
Maximum loading mass	kg	350	1000
Maximum speed	m/s	1	1
Maximum acceleration	m/s ²	1.25	1
Repeated stopping accuracy	mm	±0.05	
Slide base dimensions	mm	500×550	640×650
Stroke (ST) length	m	3m, 4.8m, 6.6m, 8.4m (combination of 3m and 1.8m rails)	2.8 m, 4.56 m, 6.32 m (combinations of 2.8 m and 1.76 m rails)
Extension module ST length	m	+1.8m each	+1.76m each
Product mass	Basic module	kg 1,300/ST3m	1,700/ST2.8m
	Extension module	kg 550/ST+1.8m	750/ST+1.76m
Motor capacity (approximate)	kW	2	3.5
Option	—	Additional base, limit switch Automatic refueling system	

*Please note that the specifications, appearance and other details are subject to change without prior notice.

Examples of applications

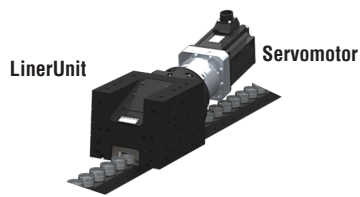
- Industrial robot travel axis
Welding and painting robots, handling robots
- Feed workpieces in FA
- Feed heavy weight workpieces



Package

The linear unit, servo motor, guide and controller are packaged as one unit.

Basic rail length is 3 m, and an extension rail is 1.8 m (LRS1000 has a basic rail length of 2.8 m, and an extension rail 1.76 m)



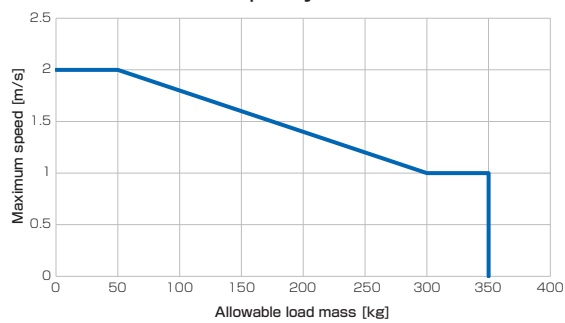
Dedicated controller

It reduces your design time with quick start-up and easy operation functions.

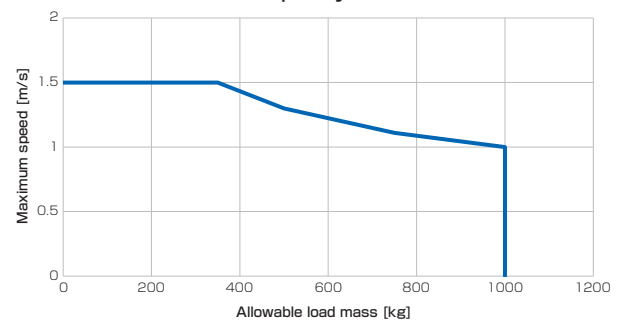
*The appearance of the controller varies depending on its unique specification.

Capacity curve chart

LRS350 capacity curve chart

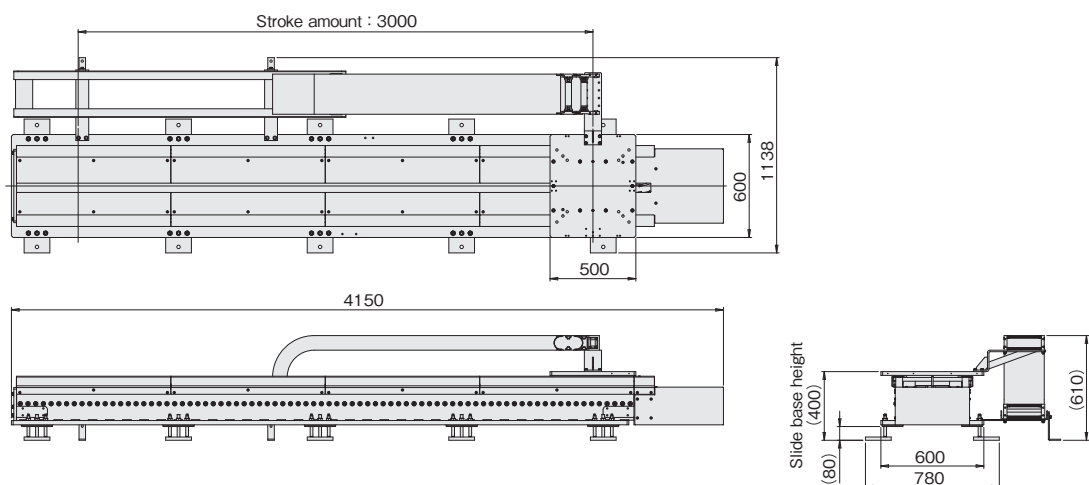


LRS1000 capacity curve chart

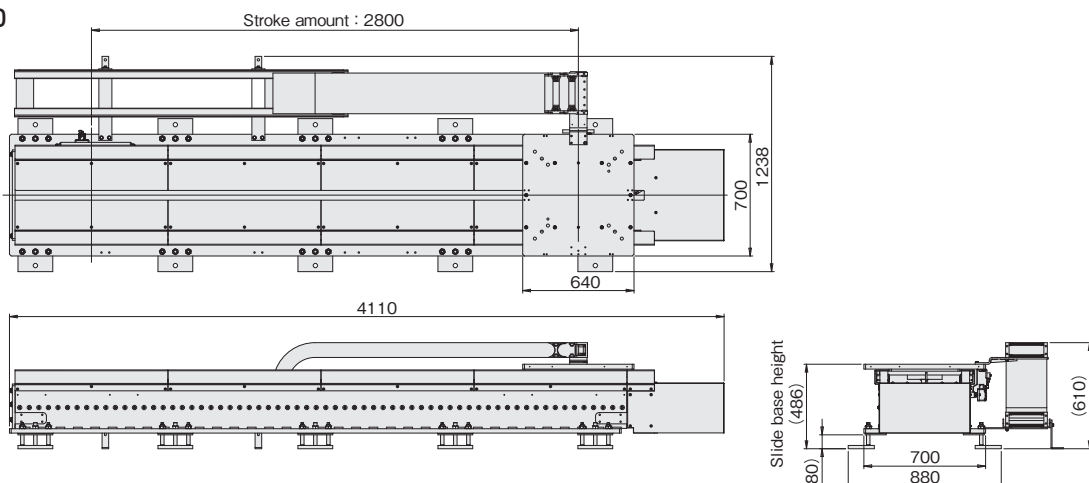


Dimensions

LRS350

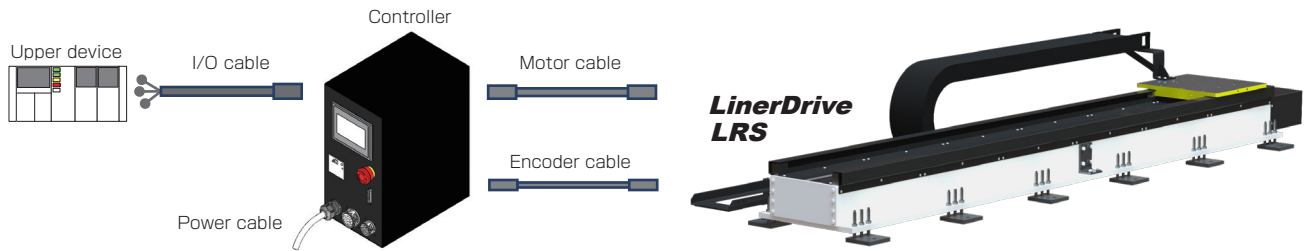


LRS1000



Dedicated controller specifications

System configuration diagram



Controller's basic specifications

Number of control axes: 1 axis

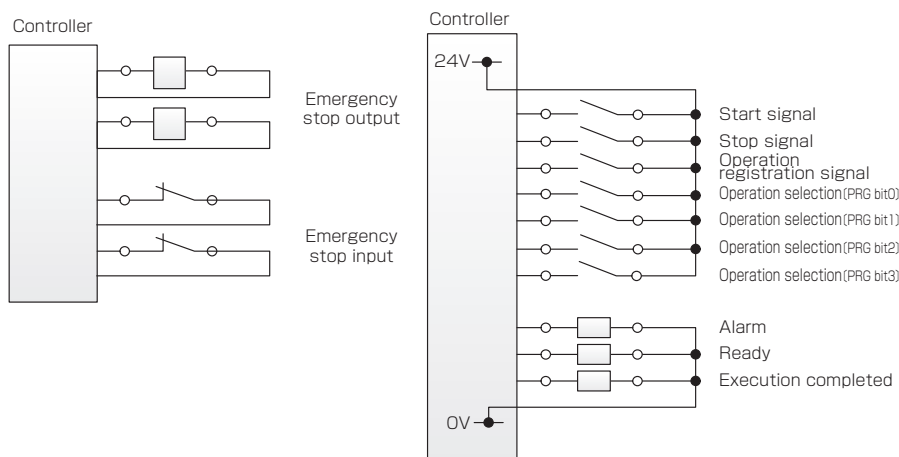
Servo motor specifications: Up to 3kW class (motor manufacturers specified by us)

Input power: 3-phase 200 VAC

Dimensions: H375 x W200 x D300mm

* Please contact our sales representative for more information about controller functions and lineup.

I/O signal specifications (input/output signal specifications)



Proprietary operation screen

We designed an easy-to-use operation screen. The operation screen allows manual operation and parameter changes.

Setting and saving operating conditions

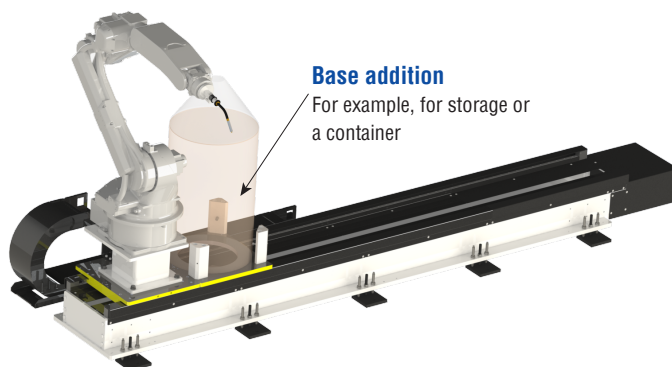
You can set the operation conditions easily using the touch panel.

In addition, simple I/O operations enable control from a higher-level device.

Default settings are preset for each machine's unique specifications

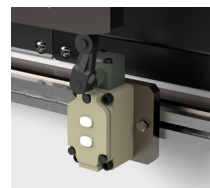
Machine-specific initial parameters are pre-set. Therefore, you can start operations quickly.

OPTION



Base addition

For example, for storage or a container



Limit switch

Includes a mounting bracket



Automatic lubrication system

Less maintenance!



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