ALFARAIL SYSTEM[®]

Easy transfer with small force With the lightness of movement [with small friction resistance of under 1/5 compared with steel rail systems]

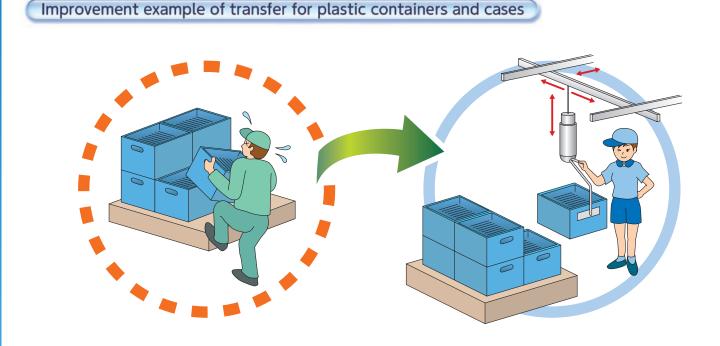




ALFARAIL SYSTEM[®] ALFARAIL SYSTEM

An excellent transfer system that is friendly to humans and environment

One of the assignments of Japan's industry having achieved high economic growth is to carry on business activities considering the earth environment, such as environmental preservation, energy saving and resource recycling. ALFARAIL SYSTEM is a lightweight material-handling rail system developed with a pursuance of aluminum potentials. The extruded structural rails of aluminum alloy are, compared with steel rails, more safe, more friendly to environment (e.g., coating-free, resource recycling, power-free) and more economical. However advanced the factory automation is with full-automatic production lines, manual transfer work certainly remains under present circumstances. With small friction resistance and light movement as features we are proud of, ALFARAIL can lessen labor burden on operators and therefore friendly to humans.



Installation example at working places







ARS200H

ILEARAIL EVETER

ARS200

ILEARAIL SYSTEM

ALEARAIL SYSTEM

High quality & safety

ARS500

High rigidity achieved by the extruded structure of aluminum alloy Safety design realized in various components, such as S.S. rollers and plug-in structure

Light operation

Far smaller coefficient of static friction, which is under 1/5 compared with steel rails Achieved easy transfer and light movement

Flexible lines

Flexible lines configured according to your working needs, which can be achieved due to abundant components and easy rail-length adjustment

Beautiful appearance

Coating-free, beautiful appearance maintained with a combination of Alumite treatment and clear coat treatment

Environment-friendly

Using easy-to-recycle aluminum alloy Smooth travel performance requiring no power so as to be environment-friendly and economical



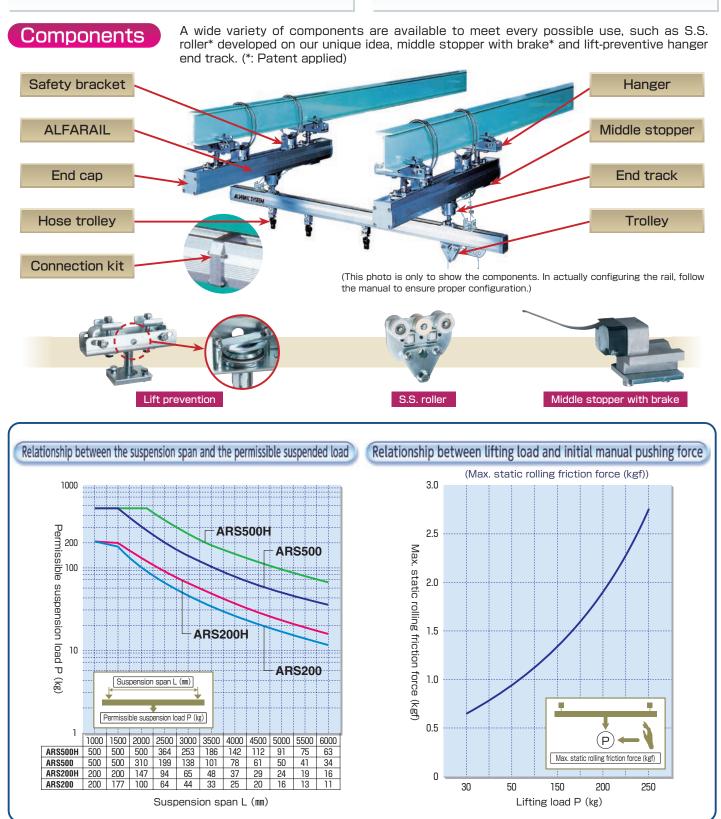
ALFARAIL SYSTEM® ALFARAIL SYSTEM

Aluminum alloy rail

Smooth traveling with small friction resistance is ensured due to high-precision extrudes structure of aluminum allow based on computerized analysis by using the finite element method (FEM). Therefore, your working environment can be improved easily.

System configuration

ALRARAIL SYSTEM is available in two series: ARS500 Series for lifting load up to 500kg, and ARS200 Series for lifting load up to 200kg. When various rails and various components are combined, flexible lines can be configured according to your on-site needs.





Aluminum alloy rail A6063S-T5 with proof stress of 205MPa

Series	Model	Unit weight	Rail length	R (curve) rail
ARS500 Series	ARS500H			
AK3300 Selles	ARS500	5.80kg/m	1-6m	R1200 90° (Use dedicated trolley.)
AB\$200 Series	ARS200H	4.72kg/m	(in steps of 1m) For fractions,	
ARS200 Series	ARS200	3.67kg/m	consult us.	R750 90° (Use dedicated trolley.)
For hose trolley	ARS050	1.30kg/m		R750 90°

Component list

Name	Series			
Name	ARS500Series	ARS200Series		
Hanging bracket		Standard type	ARS500-HN1	ARS200-HN1
				ARS200H-HN1
	Hanger g	Standard lift- preventive type	ARS500-HN1-F	ARS200-HN1-F
				ARS200H-HN1-F
		Parallel type	ARS500-HN2	ARS200-HN2
ARS500-HN1 ARS500-HN2 ARS500-SJ1	Safety br	acket	ARS500-SJ1	ARS200-SJ1
Trolley	Standard	type	ARS500-TR3A	ARS200-TR3
ARS500-TR3A ARS500-TR4A	Plate typ	e	ARS500-TR4A	ARS200-TR4
End track	Both-side	hinge type	ARS500-ET4B	ARS200H-ET4
	One-side	hinge type	ARS500-ET5A	ARS200-ET5
	ARS500/20	O Combined One-side hinge type	ARS500-ET6A	
ARS500-ET4B ARS500-ET7A	ARS500/200HCombined Both-side hinge type ARS500-ET7A]	
Middle stopper 🕋 🛶 🛶	Standard	type	ARS500-MS2	ARS200-MS2
	Brake typ	e	ARS500-MS3	ARS200-MS3
ARS500-MS2 ARS500-MS3 ARS500-MS4	Damper t	уре	ARS500-MS4	ARS200-MS4
Rail related device	Endloop		ARS500H-EC1	ARS200H-EC1
lon Internet	End cap	-	ARS500-EC1	ARS200-EC1
S CONTRACTOR	Connectio	op kit	ARS500H-CN1	ARS200H-CN1
ARS500-EC1 ARS500-CN1A	Connectio		ARS500-CN1A	ARS200-CN1
Utility supply	Hose trol	ley	ARS500-HT4	ARS200-HT4
related device 1	Rail hang	er	ARS500-RH1	ARS200-RH1
Utility supply related device 2 🚏 🚽	Hose trol	ley	ARS050-HT4	
(when ARS050 ALFARAIL is used)	Connection kit		ARS050-CN1	
ARS050-HT4 ARS050-CN1 ARS050-ES2 End cap			ARS0.	50-ES2

• For detailed specifications, refer to the drawings of ARS ALFARAIL SYSTEM.





Pursuance of satisfactory ease of use

Pursuance of lifting/lowering speed

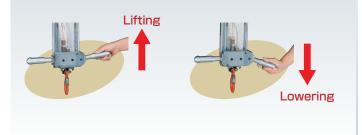
The apparently "light," speedy move cuts down the hours of work.

The lifting/lowering speed up to 50m/min realizes the speed of pure manual operation using no devices (3-5 times faster compared with hoist*) *Internal comparison

Pursuance of operation efficiency

The complex function allows you to operate lifting/lowering and speed adjustment by using a single lever.

Even women and feeble persons can handle "easily in one hand" upon the installation.



Pursuance of quick response to weight difference

The ease and convenience of lifting "anytime" smoothens your line production work.

Even in case of any weight difference in cargo, you are free from "weight adjustment each time" due to our original special air valve employed for quick response to weight difference.

Pursuance of control efficiency

The employed low barycenter structure allows the center of gravity of the main body to move near the load. Since there is a little swing-back of the main body for this structure, which realizes "easy positioning," the operator will have a little fatigue and increase his/her processing ability.

Hoist, etc.	KENSUI
	Smoothly Exactly

In palletizing food containers

11 and the

In cleaning

In setting on machine tools









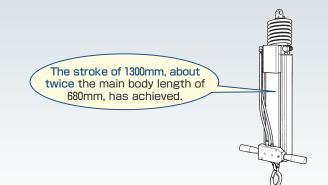
Helping handling work at various working places

Pursuance of applicability to various working places

Pursuance of main body compactness and longer work stroke

Broader installable width and the "securement of vertical space" even at a low-ceiling working place are what our KENSUI is proud of.

The employed expansion/contraction mechanism is of our original development using no cylinder rod.



Pursuance of applicability to working environment

Since the drive source is only the air, KENSUI can be applied to explosion-proof working places.

The major portion of the main body is made of aluminum (with Alumite treatment) free from "de-coating" so as to be sanitary for the optimum use in handling food and precision products.

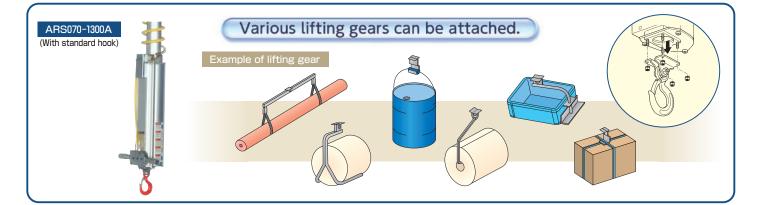
Pursuance of safety

Even in case of no air supply, "unloading" is possible as a great feature we are proud of.

A fall-preventive mechanism has been employed in preparation for no primary air supply.

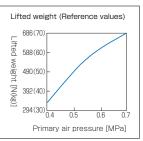
Pursuance of stability in mounting lifting gears

That "stable load lifting" can be achieved is a feature we are proud of. The bolt fastening has been employed to locking the lifting gear to the main body bottom.

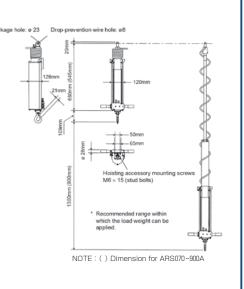


Specifications

Model	ARS070-1300A	ARS070-900A	
Vertical stroke	1300mm	900mm	
Main body mass (including hook unit)	Approx. 10kg	Approx. 9 kg	
Main body height (not including hook unit)	Approx. 680mm	Approx. 545mm	
Rated lifting mass (including lifting gear mass)	Max.686N(70kg) (at air source pressure of 0.7MPa)		
Operating air pressure	0.4—0.7MPa		
Air consumption	Approx. 2.5L/min (ANR) (per stroke)	Approx. 1.8L/min (ANR) (per stroke)	
Lifting/lowering speed (Reference value)	With no load:O—50m/min With 50kg lifting:O—30m/min		
Main body swivel	Endless		



Dimensions Information



"Ease of use," "reasonable price" and "ease of assembling" have been pursued!

"ALFAYARD" is an independent system of

ALFAFRAME*

ALFARAIL

*ALFAFRAME is registered product of NIC Autotec.INC.

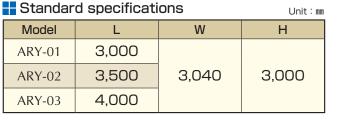
- Maximum lifting load of 80kg (including winch)
- Cost reduction to be2/3 of the conventional installation system ※ Internal arithmetic comparison

Easy assembling requiring no special tools

- *Forklift or ceiling crane is used as an auxiliary assembling means.
- %It takes only one day (with 3 workers) to install the system (Internal arithmetic comparison)



NOTE : ALFAYARD does not include [KENSUI].



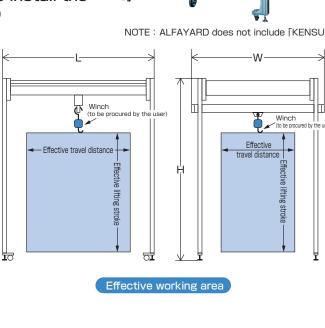
Notes for order placement

- *For the standard specifications, specify the model and the L/W/H dimensions.
- *ALFAYARD is available only within the dimensions of the standard specifications. (Refer to L/W/H dimensions.)
- *The effective working area can be obtained by using the following equation:

L dimensions - 762mm, W dimensions - 575mm, H dimensions - 547mm + winch length

For inquiry or request:

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