

VERTICAL TRANSFER SYSTEM VERTICAL TRANSFER SYSTEM

Vertical Transfer System ♥ T Series Main Machine Types Overview Map



What is a vertical transfer system (vertical conveyor)?

A vertical transfer system is a cargo-only transfer machine with a vertical transfer path, which comprises a vertical transfer apparatus (the vertical transfer machine itself) fitted with a mechanism that raises and lowers a cargo receiver, and a lateral transfer apparatus (a loading/unloading conveyor or loading/unloading device) fitted with a loading/unloading mechanism that loads and unloads cargo to

*Not all machine types are represented in the machine categories shown on this map. and from the cargo receiver. *This is a cargo-only device, so people may not ride it under any JIS category (machine type/product name) Machine type features/Product name, basic code Multi-floor capability/transfer direction structure Cargo shape and guideline weight Max. Cargo Weight Approx. transfer performance Hoisting Method (Case Iten

■Lightweight items (guideline weight <50kg)



Carton Case (medium



















JIS category: Vertical Reciprocating Conveyor Machine type: Vertical Reciprocating Transfer Machine Product name: Autolator



JIS category: Vertical Tray Conveyor Machine type: Vertical Sorting and Transfer Machine Product name: High-Tray



pe (Low/Medium-Speed) Belt Hoist Type (Low/Medium-Speed) WR Wire Rope Hoist Type (High-Speed	Changes according to height and hole	st speed, etc.		
sterring) Belt Hoist Type Vertical Continuous Transfer Machine VBS14	~20kg	Approx. 3,000/hour	Belt Hoist Type	-
m Transferring) Chain Hoist Type Vertical Continuous Transfer Machine TILATOR 8 type VES11	~30kg	*Approx. 2,000/hour	Chain Hoist Type	
tem Transferring) Chain Hoist Type Vertical Continuous Transfer Machine RTILATOR F type VEF11	~100kg	*Approx. 1,600/hour	Chain Hoist Type	-
e Item Transferring) Multi-Floor Chain Hoist Type Vertical Continuous Transfer Machine VSVF	~80kg	Approx. 500/hour	Chain Hoist Type	H
se Item Transferring) Belt Hoist Type Vertical reciprocating transfer Machine AEF B	~60kg	Approx. 150/hour	Belt Hoist Type	H
se Item Transferring) Chain Hoist Type Vertical Reciprocating Transfer Machine UTOLATOR AEF	~60kg	Approx. 120/hour	Chain Hoist Type	H
se Item Transferring) Wire Rope Hoist Type Vertical Reciprocating Transfer Machine UTOLATOR AEF WR	~60kg	Approx. 150/hour	Wire Rope Hoist Type	H
n Speed Wire Rope Hoist Type Vertical Reciprocating Transfer Machine (for FOUP transfer) Company AUTOLATOR for FOUPs LDFF WR	~30kg	Approx.140/hour (two-item transfer)	Wire Rope Hoist Type	H
in Hoist Type Vertical Sorting and Transfer Machine (for FOUP transfer) Hearn HIGH-TRAY for FOUPs HDFF	~15kg	Approx. 400/hour	Chain Hoist Type	
se Item Transferring) Energy-Saving Design Chain Hoist Type Vertical Sorting and Transfer Machine HBF C	~20kg	Approx. 1,500/hour	Chain Hoist Type	H
se Item Transferring) Chain Hoist Type Vertical Sorting and Transfer Machine HTF	~50kg	Approx. 500/hour	Chain Hoist Type	H

ed Cart Basket Cart
Hand Pallet Truck

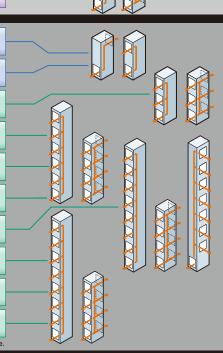
Case Item Transferring) Chain Hoist Type Vertical Continuous Transfer Machine VERTILATOR P type	VEP11
Case Item Transferring) Belt Hoist Type Vertical reciprocating transfer Machine Belt AUTOLATOR	AEP [
Case Item Transferring) Chain Hoist Type Vertical Reciprocating Transfer Machine AUTOLATOR	AEP
Case Item Transferring) Wire Rope Hoist Type Vertical Reciprocating Transfer Machine AUTOLATOR	AEP W
Any-package) Chain Hoist Type Vertical Reciprocating Transfer Machine Shuttle AUTOLATOR	LZSW
Case Item Transferring) Chain Hoist Type Vertical Sorting and Transfer Machine HIGH-TRAY	нтр

rring) Chain Hoist Type Vertical Continuous Transfer Machine	VEP11 C	~200kg	*Approx. 700/hour	Chain Hoist Type	2-Floor
Item Transferring) Belt Hoist Type Vertical reciprocating transfer Machine	AEP B	~200kg	Approx. 130/hour	Belt Hoist Type	4-Floor
e Item Transferring) Chain Hoist Type Vertical Reciprocating Transfer Machine UTOLATOR	AEPC	~200kg	Approx. 120/hour	Chain Hoist Type	4-Floor
ase Item Transferring) Wire Rope Hoist Type Vertical Reciprocating Transfer Machine AUTOLATOR	AEP WR	~200kg	Approx. 150/hour	Wire Rope Hoist Type	4-Floor
ny-package) Chain Hoist Type Vertical Reciprocating Transfer Machine Shuttle AUTOLATOR	LZSWC	~500kg	Transfers approx. 20/hour	Chain Hoist Type	3-Floor
se Item Transferring) Chain Hoist Type Vertical Sorting and Transfer Machine IGH-TRAY	нтрС	~120kg	Approx. 300/hour	Chain Hoist Type	6-Floor



	(Pallet Transferring) Chain Holst Type Vertical Continuous Transfer Machine VERTILATOR W type VKW C
V	(Pallet Transferring) Chain Hoist Type Vertical Continuous Transfer Machine VERTILATOR M type VCM C
	(Any-package) Chain Hoist Type Vertical Reciprocating Transfer Machine Shuttle AUTOLATOR LZSH C
	(Pallet Transferring) Low ceiling-compatible Chain Holst Tipse Vertical reciprocating transfer machines with energy efficient control "Equipped with E-VESS or VESS as standard Low-Top AUTOLATOR V AVWV
	(Pallet/Non-pallet) Low ceiling-compatible Chain Hoist Type Vertical reciprocating transfer machines with energy efficient control "Equipped with VEXS as standard Low-Top" AUTOLATOR V Floor Circulation AVNWV
	(Pallet/Non-pallet) Low ceiling-compatible Chain Hoist Type Vertical reciprocating transfer machines with energy efficient control #Equipped with VEAS as standard Low-Top AUTOLATOR V Floor Circulation E type AVEWV C
A	(Pallet Transferring) Chain Holet Type Vertical reciprocating transfer machines with energy efficient control "Equipped with E-VEAS or VEAS as standard AUTOLATOR V
	(Pallet Transferring) Belt Hoist Type Vertical reciprocating transfer Machine "Equipped with E-VEAS or VEAS as standard Belt AUTOLATOR V AEWV B
	(Pallet/Non-pallet) Chain Hoist Type Vertical reciprocating transfer machines with energy efficient control "Equipped with VEAS as standard AUTOLATOR V Floor Circulation AENWV
	(Pallet/Non-pallet) Chain Hoist Type Vertical reciprocating transfer machines with energy efficient control*Equipped with VEAS as standard AUTOLATOR V Floor Circulation E type ACEWV
	*E-VEAS and VEAS refer to the energy-saving control device fitted to heavy-duty AUTORATOR models.

	233.5		L	Citation type		
	~120kg	Approx. 300/hour	-	Chain Hoist Type	6-Floor	
_						
	~1,440kg	*Approx. 200 pallets/hour	-[Chain Hoist Type	2-Floor	
	~2,700kg	*Approx. 180 pallets/hour	_	Chain Hoist Type	2-Floor	
	~1,000kg	Transfers approx. 19/hour	-[Chain Hoist Type	3-Floor	
	~2,000kg	Approx. 70 pallets/hour	-[Chain Hoist Type	6-Floor	
	~1,500kg	Transfers approx. 65/hour	-[Chain Hoist Type	6-Floor	
	~1,500kg	Transfers approx. 65/hour	-[Chain Hoist Type	6-Floor	
	~3,000kg	Approx. 90 pallets/hour	-[Chain Hoist Type	8-Floor	
	~1,000kg	Approx. 85 pallets/hour	-[Belt Hoist Type	8-Floor	
	~2,000kg	Transfers approx. 75/hour	-	Chain Hoist Type	8-Floor	
	~2,000kg	Transfers approx. 90/hour	-	Chain Hoist Type	8-Floor	
	*These values are	e for the Z type. The transfer performance	e d	of the C type is approximately 1/2	that of the Z type.	



Installation environment: Indoors, surrounding temp. 0 - 40°C (no condensation) General environments compatible [Steel Chain Hoist Type/Wire Rope Hoist Type] Clean environments compatible (does not produce oil mist/metal filings) [Resin Belt Hoist Type] Special environments: ①Low-temp. compatible (-5 - -30°C) [Cold Resist Specifications], ②Washable [All Stainless Steel Specifications], ③Explosive gas/powders environment compatible [Explosion-Proof Specifications], ④Clean environment compatible [Clean Room Specifications] *Specifications differ depending on the required cleanliness grade.

Building floors: 2 - 8 *Due to its frame construction, installation is possible in locations without a hoistway (fire shaft) if an anti-shake buffer is fitted (although there is a height limit). However, firewalls must be checked in the case of floor apertures. OSpecial order specifications: ① When exceeding max. floors [Additional Machinery/Control Specifications], ② When exceeding max. height [Main Unit Frame Reinforcement Specifications], ③ When transferring super-heavy cargo (over 3 tons) [Load Bearing Upgrade Specifications], ④ Adjacent to building/outdoor specifications [Outdoor Cladding]

VTS Series - Machine Categories Map

*Not all machine types are represented in the machine categories shown on this map.

Cargo shape and guideline weight JIS category (machine type/product name) Machine type features/Product name, basic code

Carton Case (medium

Folding Container

Work Pallet

Long Object

■Medium-weight items (guideline weight 50<500kg)

Lightweight items

(guideline weight <50kg)

ertical Reciprocating Transfer Machine

JIS category: Vertical Slat Conveyor

JIS category: Vertical Tray Conveyor

Machine type: Vertical Sorting and Transfer Machine Product name: High-Tray

(Case Item Transferring) Belt Hoist Type Vertical Continuous Transfer Machine

Belt VERTILATOR

AUTOLATOR

AUTOLATOR

HIGH-TRAY

Shuttle AUTOLATOR

C Chain Hoist Type (Low/Medium-Speed) B Belt Hoist Type (Low/Medium-Speed) WR Wire Rope Hoist Type (High-Speed)

What is a vertical transfer system (vertical conveyor)?

VES11 C VERTILATOR S type

(Case Item Transferring) Chain Hoist Type Vertical Continuous Transfer Machine VEF11 C VERTILATOR F type

(Case Item Transferring) Multi-Floor Chain Hoist Type Vertical Continuous Transfer Machin **VSVF** C Multi-Floor VERTILATOR

(Case Item Transferring) Belt Hoist Type Vertical reciprocating transfer Machine AEF B Belt AUTOLATOR

(Case Item Transferring) Chain Hoist Type Vertical Reciprocating Transfer Machine AEF C AUTOLATOR (Case Item Transferring) Wire Rope Hoist Type Vertical Reciprocating Transfer Machine

AUTOLATOR High Speed Wire Rope Hoist Type Vertical Reciprocating Transfer Machine (for FOUP tra LDFF WR Clean AUTOLATOR for FOUPs

Chain Hoist Type Vertical Sorting and Transfer Machine (for FOUP transfer) HDFF C Clean HIGH-TRAY for FOUPs (Case Item Transferring) Energy-Saving Design Chain Hoist Type Vertical Sorting and Transfer Machine

HBF C HIGH-TRAY Belt Tray Type (Case Item Transferring) Chain Hoist Type Vertical Sorting and Transfer Machine

Case Item Transferring) Wire Rope Hoist Type Vertical Reciprocating Transfer Machine

ny-package) Chain Hoist Type Vertical Reciprocating Transfer Machine

AUTOLATOR V Floor Circulation E type

HTF C HIGH-TRAY VEP11 C **VERTILATOR** P type ng) Belt Hoist Type Vertical reciprocating transfer Machine AEP B Belt AUTOLATOR Case Item Transferring) Chain Hoist Type Vertical Reciprocating Transfer Machine

AEP C

AEP WR

LZSW C

HTP C

AEEWV C

VBS14 B

AEF WR

Medium-weight

Belt VERTILATOR

VBS14 B [Max. transfer load: 20kg]





A vertical transfer system is a cargo-only transfer machine with a vertical transfer path, which comprises a vertical transfer apparatus

(the vertical transfer machine itself) fitted with a mechanism that raises and lowers a cargo receiver, and a lateral transfer apparatus (a loading/unloading conveyor or loading/unloading device) fitted with a loading/unloading mechanism that loads and unloads cargo to

and from the cargo receiver. *This is a cargo-only device, so people may not ride it under any ci

VTS Series Lineup



VKW [Max. transfer load: 1,440kg]

VERTILATOR S type

VERTILATOR F type

VEF11 [Max. transfer load: 100kg]

VES11 [Max. transfer load: 30kg]

VERTILATOR W type



Shuttle AUTOLATOR

LZSW [Max. transfer load: 500kg]

LZSH [[Max. transfer load: 1,000kg]

Multi-Floor VERTILATOR

VSVF [[Max. transfer load: 80kg]

Belt AUTOLATOR

► AEF B [Max. transfer load: 60kg]

AEPB [Max. transfer load: 200kg]





AUTOLATOR V Floor Circulation E type AEEWV [[Max. transfer load: 2,000kg] Low-Top AVEWV [[Max. transfer load: 1,500kg]



AUTOLATOR

Belt AUTOLATOR

AUTOLATOR V

AUTOLATOR

AEWV [C] [Max. transfer load: 3.000kg]

AEW [Max. transfer load: 3,000kg]

AEW B [Max. transfer load: 1,000kg]

AEWV B [Max. transfer load: 1,000kg]

Belt AUTOLATOR V

AEP [Max. transfer load: 200kg]

AEP WR [Max. transfer load: 200kg]

AUTOLATOR AEF [Max. transfer load: 60kg] AEF WR [Max. transfer load: 60kg]

Clean AUTOLATOR LDFF WR [Max. transfer load: 30kg]



Clean HIGH-TRAY HDFF [[Max. transfer load: 15kg]





HIGH-TRAY

Vertical Reciprocating Transfer Machine AUTOLATOR for Heavyweight Cargo

[VEAS]

[E-VEAS]

[BCP-Compatible]

Energy-Saving Control Device

Start-Up Power Assist System

Energy-Saving Control Device

Start-Up Power Assist System

HTF [Max. transfer load: 50kg]

HIGH-TRAY HTP [Max. transfer load: 120kg]

■Heavyweight items (guideline weight 500<3000kg)

















Hand Pallet Truck

VKW C **VERTILATOR** W type Pallet Transferring) Chain Hoist Type Vertical Continuous Transfer Machine VCM C VERTILATOR M type LZSHC Shuttle AUTOLATOR Low-Top AUTOLATOR V AVWV C Low-Top AUTOLATOR V Floor Circulation AVNWV C Low-Top AUTOLATOR V Floor Circulation E type AVEWV C AUTOLATOR V **AEWV** C Belt AUTOLATOR V AEWV B **AUTOLATOR V** Floor Circulation AENWV C

Heavyweight

Lightweight





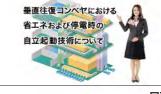


Low-Top AUTOLATOR V AVWV [Max. transfer load: 2,000kg] Low-Top AUTOLATOR



AVW [Max. transfer load: 2,000kg]





Access QR code to the website. [VEAS] & [E-VEAS] Presenta

https://www.hokusho.co.jp/video_jp/page/std_vts_veas_presen.ht

■Installation environment: Indoors, surrounding temp. 0 - 40°C (no condensation) ●General environments compatible [Steel Chain Hoist Type/Wire Rope Hoist Type) ●Clean environments produce oil mist/metal filings) [Resin Belt Hoist Type]OSpecial environments: ①Low-temp. compatible (-5 - -30°C) [Cold Resist Specifications], ②Washable [All Stainless Steel Specifications], ③Explosive gas/powders environment compatible [Explosion-Proof Specifications], ④Clean environment compatible [Clean Room Specifications] *Specifications differ depending on the required cleanliness grade.



10 10

Visit our website for the latest information on our products and services





English website (top page)



https://www.hokusho.co.jp/en

Service stations

*Published by HOKUSHO CO., LTD. Sales Division

*Reuse/alteration of content in whole or in part without prior permission is strictly prohibited.

*Please be aware that product specifications listed in this document are subject to change without prior notice.



Leading the way in materials distribution

HOKUSHO CO.,LTD.

https://www.hokusho.co.jp

Headquarters

E-6, Shimenomachi, Kanazawa City, Ishikawa Prefecture, 920-8711 Japan TEL: +81-76-267-3111 (Reception) FAX: +81-76-268-2241

Hakusan Factory

3-17 Asahigaoka, Hakusan City, Ishikawa Prefecture, 924-0004 Japan TEL: +81-76-275-7711 (Reception) FAX: +81-76-275-7171

Tokvo Branch

Mitsumura Building 5F, 1-15-9 Ōsaki, Shinagawa Ward, Tokyo, 141-0032 Japan TEL: +81-3-5719-7011 (Reception) FAX: +81-3-5719-7017

Tokyo Service Station

Mitsumura Building 5F, 1-15-9 Ōsaki, Shinagawa Ward, Tokyo, 141-0032 Japan
TEL: +81-3-5719-7012 (Direct) FAX: +81-3-5719-7017

Osaka Branch/Osaka Service Station

Shinanobashi Fuji Building 4F, 1-3-10 Nishihonmachi, Nishi Ward, Osaka City, Osaka Prefecture, 550-0005 Japan TEL: +81-6-6543-2771 (Reception) FAX: +81-6-6543-2776

Nagoya Branch/Nagoya Service Station

Sun Ace Tokugawa Building 7F, 1-901 Tokugawa, Higashi Ward, Nagoya City, Aichi Prefecture, 461-0025 Japan TEL: +81-52-932-2781 (Reception) FAX: +81-52-932-2920

Hokuriku Branch/Hokuriku Service Station

E-6, Shimenomachi, Kanazawa City, Ishikawa Prefecture, 920-8711 Japan TEL: +81-76-267-3333 FAX: +81-76-267-3317

Kanagawa Sales Office/Kanagawa Service Station

Shizuoka Fudōsan Ebina Building 2F, 3-3-14 Chūō, Ebina City, Kanagawa Prefecture, 243-0432 Japan TEL: +81-46-231-3212 (Reception) FAX: +81-46-231-3985

Hokkaido Service Station (Sapporo Machine Maintenance Co., Ltd.)

3-2-25-103 Yonesato 1-jo, Shiroishi Ward, Sapporo City, Hokkaido, 003-0871 Japan TEL: +81-11-215-4341 FAX: +81-11-215-4342

Sendai Service Station

310 Esberanza 102A, 4-4-51 Kagitori, Taihaku Ward, Sendai City, Miyagi Prefecture, 982-0804 Japan TEL: +81-22-226-8090 FAX: +81-22-226-8091

Chugoku/Shikoku Service Station (MATEX Co., Ltd.)

22-5 Jūkukenya, Kannabechō, Fukuyama City, Hiroshima Prefecture, 720-2106 Japan TEL: +81-84-963-8663 FAX: +81-84-962-0082

Kyushu Service Station (TANAKA Co., Ltd.)

996-5 Takemaru, Munakata-shi, Fukuoka Prefecture 811-4152, Japan TEL: +81-940-62-5485 FAX: +81-940-62-5486

Kyushu Service Station

1-5-9 Yamadatoge, Okagakimachi, Onga District, Fukuoka Prefecture, 811-4223 Japan TEL: +81-93-282-5360 FAX: +81-93-282-5379

Overseas Sales Department

Mitsumura Building 5F, 1-15-9 Ōsaki, Shinagawa Ward, Tokyo, 141-0032 Japan TEL: +81-3-5719-7016 FAX: +81-3-5719-7017

HOKUSHO SHANGHAI CO., LTD.

Room 1405, New Town Center, No. 83 Loushanguan Road, Shanghai, 200336 China TEL: +86-21-6236-0687 FAX: +86-21-6236-0917

https://www.hokusho-cn.com

HOKUSHO KOREA CO., LTD.

HOKUSHO KOREA TOWER 16FL, 15, Teheran-ro 88-gil, Gangnam-gu, Seoul, 06180 Republic of Korea TEL: +82-2-565-4521 FAX: +82-2-565-4522

http://www.hokusho.co.kr

