

Muratec's new Mini-load AS/RS is featured with...

Maximum load capacities up to 300kg. Compatible with dense case storage such as totes/case loading, etc.

Multiple-handling of 1-4 units and double-deep storage allow this AS/RS to provide both high storage capacity and high throughput operation.

High-speed mini-load crane travelling 300m/min, hoisting 180m/min and acceleration of 0.3G.

Can be combined with a pallet AS/RS to provide residual case management with high density storage.



World-class high-speed Mini-load Crane

- Acceleration: 0.3G
- Travelling speed: 300m/min
- Hoisting speed: 180m/min

High-density storage and High-throughput operations

- Load capacities up to 300kg
- Multiple up to 4 cases utilizing Twin Fork & Double-deep capabilities
- Higher throughput performance than our existing single-deep micro-load AS/RS at same storage volume

Flexible, Multiple case handling

- Flexible handling in 1, 2, 3 or 4 cases.
- Free rack location and Double-deep storage achieves excellent storage efficiency and residual case handling.

Multiple Load Handling Devices

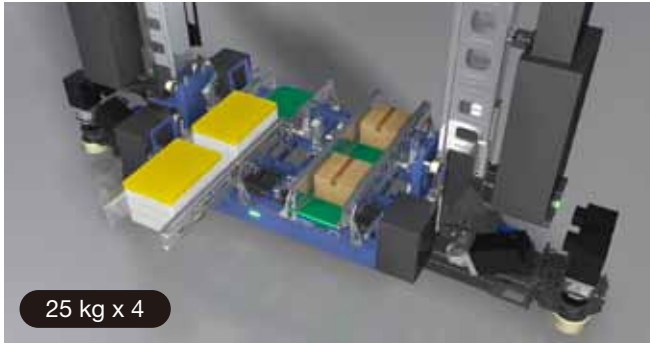
- Rear-Hook (Free-size)
- Single Fork
- Twin Fork with Belt Conveyor
- Twin Fork with Belt Conveyor (Double-deep)

Rear-Hook Fork for Free-size case handling

- Different types of loads can be handled.
- Flexible high performance handling of various load size and types.

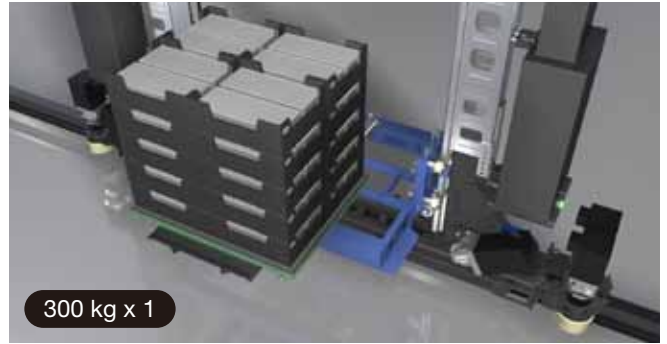
Energy saving by lightweight design and electric power regeneration

Variation of fork types are expanding possibilities in case handling.



Rear-Hook (Free-size)

- Load rated up to 25kg x 4
- Flexibility to handle different load type/sizes.



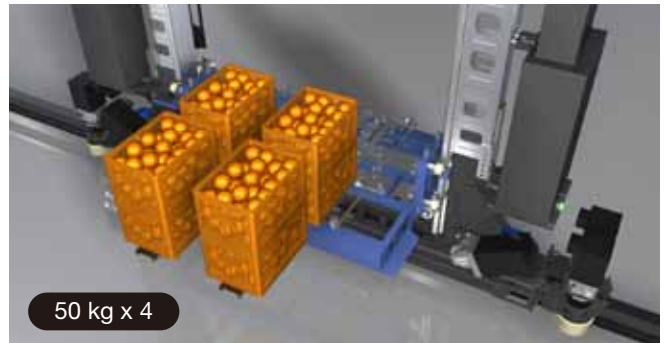
Single Fork

- Rated load up to 300kg
- Heavier load and high density achieved by stacking.



Twin Fork with Belt Conveyor

- Load rated up to 100kg x 2
- Heavier load and high density achieved by stacking.
- Optimal for high-density storage such as daily products that require large volumes of shipments in a short time.



Twin Fork with Belt Conveyor (Double-deep)

- Load rated up to 50kg x 4
- Heavier load and high density achieved by stacking.
- Able to handle cases in an effective and efficient manner.

Main Specifications	
Installation height	Up to 10m (32 ft.) / Up to 15m (49 ft.)
Travelling speed, Acceleration	Max. 300m/min (984ft./min), 0.3G
Hoisting speed, Acceleration	Max. 180m/min (590 ft./min), 0.3G

Fork type	Single Fork	Twin Fork with Belt Conveyor		Twin Fork / Rear-Hook (Free-size)	
Reach	Single reach	Single reach	Double reach	Single reach	Double reach
Rated load	300 kg x 1 (661lb x 1)	100 kg x 2 (220 lb x 2)	50 kg x 4 (110 lb x 4)	Max. 50 kg x 2 (110 lb x 2)	Max. 25 kg x 4 (55lb x 4)
Load size	W	Max. 1,016 mm (40 in.)	Max. 460 mm (18 in.)	Max. 460 mm (18 in.)	175 to 460 mm (7 to 18 in.)
	D	Max. 1,524 mm (60 in.)	Max. 1,220 mm (48 in.)	Max. 610 mm (24 in.)	225 to 1,220 mm (9 to 48 in.)
	H	Min. 10 mm (0.4 in.)	Min. 10 mm (0.4 in.)	Min. 10 mm (0.4 in.)	90 to 600 mm (3.5 to 23 in.)
Fork speed	Max. 75 m/min (246 ft./min)	Max. 125 m/min (410 ft./min)		Max. 120 m/min (393 ft./min)	

MURATA MACHINERY, LTD. Logistics & Automation Division

<http://www.muratec.co.jp>

MURATA MACHINERY, LTD.

International Business Dept.
Green-Bldg. 7F, 2-6-26, Kitahama, Chuo-ku, Osaka, 541-0041, JAPAN
TEL. +81-(0)6-6202-1387 FAX. +81-(0)6-6202-1388

MURATA SYSTEMS, LTD.

3, Kishshoin Minami-Ochiai-cho, Minami-ku, Kyoto, 601-8326, JAPAN
TEL. +81-(0)75-672-8320 FAX. 81-(0)75-671-5106

MURATA MACHINERY USA, INC.

Logistics & Automation Division
2120 Queen City Drive, P.O.Box 667609, Charlotte, N.C. 28208, U.S.A.
TEL. +1-704-394-6900 FAX. +1-704-394-2001
<http://www.muratec-usa.com/>

SALT LAKE CITY OFFICE

120 North Redwood Road Suite 3 North Salt Lake, UT 84054, U.S.A.
TEL. +1-801-683-3500 FAX. +1-801-683-3501

MURATA MACHINERY EUROPE GMBH

Hanns-Martin-Schleyer-Strasse 3, D-47877, Willich, GERMANY
TEL. +49-(0)2154-914-0 FAX. +49-(0)2154-914-188

MURATA MACHINERY SINGAPORE PTE. LTD.

30 Loyang Way #05-17/18 Loyang Industrial Estate, SINGAPORE 508769
TEL. +65-6545-1228 FAX. +65-6545-2221

MURATA (THAILAND) CO., LTD.

896/14 S.V. City Building 1, 9th Floor, Rama III Road Bangpoo, Bangkok 10120, THAILAND
TEL. +66-(0)2294-7734 FAX. +66-(0)2294-7732

MURATA MACHINERY (SHANGHAI) CO., LTD.

[Registry Add] 135 Fu Te Xi Yi Rd., Wai Gao Qiao Free Trade Zone, Pudong, Shanghai, CHINA

[Contact Add] Rm.529, Zhifu Plaza, No.80, Xinchang Rd. Huangpu District, Shanghai, 200003, CHINA
TEL. +86-(0)21-6372-3322 FAX. +86-(0)21-3331-3570

BEIJING BRANCH

Rm.309 Yu Lin Bldg., Xiang Jun Nan Li Er Xiang Jia No.5, Chaoyang-qu, Beijing, 100020, CHINA
TEL. +86-(0)10-6597-8829 FAX. +86-(0)10-6591-1768

GUANGZHOU BRANCH

Room 1018, No. 238 Chang Gang Rd., Haizhu District, Guangzhou, Guangdong, 510250, CHINA
TEL. +86-(0)20-8434-2882 FAX. +86-(0)20-8434-3463

SHENZHEN OFFICE

Room 1503 A building, Yousongwuwu Dongfulong Garden, Longhua Street., Shenzhen, Guangdong, 518109, CHINA
TEL/FAX. +86-(0)755-2956-2683

SHANGHAI MURATEC AUTOMATION SYSTEMS, LTD.

Rm.525, Zhifu Plaza No.80 Xinchang Rd. Huangpu District, Shanghai, 200003, CHINA
TEL. +86-(0)21-6327-6445 FAX. +86-(0)21-6327-6449

TIANJIN BRANCH

2301 Jirwan Mansion, NO.358 Nanjing Road, Nankai District, Tianjin, 300100, CHINA
TEL. +86-(0)22-8702-8991/+86-(0)22-8702-8992 FAX. +86-(0)22-8702-8993

MURATA MACHINERY (H.K.), LTD.

Unit A, 31/F., Legend Tower, 7 Shing Yip Street, Kwun Tong, Kowloon, Hong Kong, CHINA
TEL. +852-2332-0000 FAX. +852-2780-6340

MURATA MACHINERY TAIWAN, LTD.

18F., No.17, Sec. 1, Chengde Rd., Taipei 10351, TAIWAN
TEL. +886-(0)2-2558-5505 FAX. +886-(0)2-2558-6606

HSIN-CHU SERVICE CENTER

1F., No.3 Lane 216 Gongyuan Rd., Hsin Chu City, 30069, TAIWAN
TEL. +886-(0)3-561-0508 FAX. +886-(0)3-561-0515

TAIWAN TECHNICAL CENTER / TAICHUNG SERVICE CENTER

1F., No.3 Lane 216 Gongyuan Rd., Beitun District, Taichung 40678, TAIWAN
TEL. +886-(0)4-2292-2325 FAX. +886-(0)4-2292-3515

SOUTHERN TAIWAN SERVICE PARK BRANCH

No.16, Nanke 9th Rd, Shanhu District, Tainan, 74144, TAIWAN
TEL. +886-(0)6-505-3695 FAX. +886-(0)6-505-3750