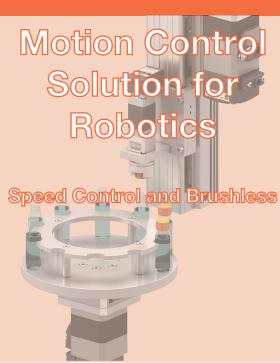
Oriental motor



Application Example

In-house Motor Production Example Work-lifting Device

A return conveyor is a lifting device that transfers workpieces between conveyors of different heights. It is used at both ends of the conveyors arranged in the upper and lower stages to circulate the tray. With this device, we have automated the process of tray collection and transportation work that was previously manual.

This lifting device is manufactured in-house to illustrate how application use of our motors and is not available in the market.



Number of axes		3 axes
Work	Mass	0.5kg
	Upper limit of mass * 1	10kg
Lifting Shaft	Speed	167mm / s
	Speed Upper limit * 2	500mm / s
	Effective Stroke	600mm / s
Conveyor Shaft	Speed	143mm/s
	Speed Upper limit * 3	400mm/s
Main Power Supply * 4		AC100V
Device Mass		52.4kg

* 4 The power supply for driver control is DCJ49

System Configuration



Configuration for each Axis

Axis(1) - Lifting axis

Rack and pinion system L series **QSTEP** AZ Series installed

- · Time saving for design and assembly. It can be installed with a small number of parts.
- With AZ Series Absolute sensor equipped. Sensorless Homing can be achieve.
- Position and motor information can be monitored constantly





Axis 2 - Conveyor axis

Brushless Motor BMU Series installed

Easy speed adjustment with dial operation



Tirm the dial, and set the speed to



the speed by 1 r /min.





Lightening the conveyor unit and reducing the load (BLDC vs AC)

Product Name	Brushless Motor	Induction Motor	
Product Name	BLM230HP-105 / BMUD30-A2	2IK6JA-18	
Mass	0.63kg (Δ 48%)	1.2kg	
Full Length	72 mm(∆ 34%)	109 mm	
Mounting Angle Dimensions	60 mm	60 mm	
Potent Output	2014	CHI	

ORIENTAL MOTOR ASIA PACIFIC PTE, LTD.

2 Kakit Bukit Ave 1 #05-06

Singapore 417818 TEL: +65-6745-7344 FAX: +65-6745-9405

http://www.orientalmotor.com.sg/

ORIENTAL MOTOR (THAILAND) CO., LTD.

Headquarters & Bangkok Office

63 Athenee Tower, 6th Floor Unit 603, Wireless Rd, Lumpini, Pathumwan, Bangkok 10330, Thailand TEL: +66-2-251-1871 FAX: +66-2-251-1872

ORIENTAL MOTOR (INDIA) PVT. LTD.

http://www.orientalmotor.co.in/

No.810. 8th Floor, Prestige Meridian-1 No.29, M.G.Road, Bangalore, 560001, India TEL: +91-80-41125586 FAX: +91-80-41125588 ORIENTAL MOTOR (MALAYSIA) SDN. BHD. A-13-1, North Point Offices, Mid Valley City.

Headquarters & Kuala Lumpur

No.1 Medan Syed Putra Utara 59200 Kuala Lumpur, Malavsia

TEL: +60-3-22875778 FAX: +60-3-22875528

Penang Office

1-4-14 Krystal Point II, Lebuh Bukit Kecil 6, Bayan Lepas 11900 Penang, Malaysia TEL: +60-4-6423788 FAX: +60-4-6425788