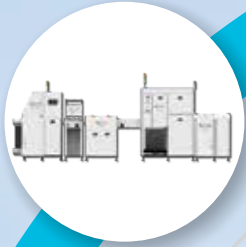


YJ LINK

Smart Conveyor
Board Handling Equipment
Laser Marking Machine
Router



CE

Y SERIES

V.24.03

Board Handling Equipment & Smart Factory

GREETING

YJ Link Co., Ltd. is a global supplier who is manufacturing and exporting board handling equipment, laser marking machine, router and smart conveyor for SMT automation process.

With continuous product development in the SMT field, as an AVL (Approval Vendor List) company that has been recognized for its product quality and responsiveness from customers around the world in automotive, electricity & electronics, defense industry and medical fields, we are becoming the leading manufacturer of SMT peripherals in Korea with continuous sales growth.

Especially in the center of the 4th industrial revolution, by providing Smart Conveyor System of SMT Automation Process, we are providing prompt and accurate solution such as Magazine Tower and AGV.

In the future, we will be a leader in linking the world to reflect the needs of our customers with steady technology development.

Thank you!



YJ LINK VIDEO

HISTORY

2009. 06	Established YJ Link Co.,Ltd.
2009. 08	Registered in global F company AVL
2009. 10	Certificate of Venture Business

2010. 01	Received certificate for Company-affiliated Research and Development Institute
2010. 03	Established YJ Link Japan Co.,Ltd.
2010. 04	Developed model 1.0(A series) Laser marking machine

2013. 01	INNO-BIZ
2013. 12	Selected as Promising Export Small and Medium Enterprise

2014. 04	Selected as Global Hidden Champion
2014. 06	Selected as Star Company
2014. 06	Established Suzhou YJ Link Co.,Ltd.
2014. 06	Established YJ Link Inc.
2014. 11	Awarded Citation from Ministry of Commerce Industry and Energy
2014. 12	Presidential Citation Award(Awarded USD 10 million Export Tower)

2015. 02	Registered in global C company SSL
2015. 07	Opened Office/DEMO Room in Germany
2015. 07	Established YJ Link Mexico S.A. De C.V.

2016. 10	Small and Medium Enterprise Award
2016. 12	Certified as Small and Medium Enterprises for Talent Development

2017. 02	Registered in global V company AVL
2017. 04	Registered in global T company AVL
2017. 05	Developed Smart Conveyor System(Embedded System Applied)

2018. 02	Developed AGV(Automated Guided Vehicle)
2018. 02	Initiated Contribution to the Green Umbrella Children's Foundation
2018. 05	Reselected as Global Hidden Champion
2018. 09	Registered in global C company AVL
2018. 12	Awarded 'USD 20 million Export Tower'

2019. 01	Registered in global J company AVL
2019. 05	Reselected as Star Company
2019. 05	Awarded 'The Leading Exporter' in Korea
2019. 05	Established YJ Link VINA Co.,Ltd. (Manufacturing Corporation/20,594.2㎡)

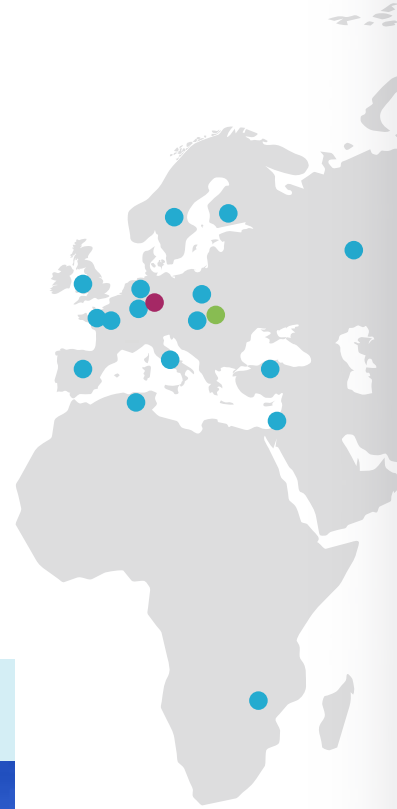
2020. 06	Developed model 2.0(Y series) Board handling equipment and Laser marking machine

2021. 01	Registered in global H company AVL
2021. 03	Registered in global V company AVL
2021. 11	Established YJ Link Europe GmbH

2022. 01	Certificate of Daegu Local Innovation Leader
2022. 05	Certificate of ISO 14001(Environmental Management System)
2022. 09	Certificate of AEO(Authorized Economic Operator)
2022. 12	Awarded 'Company to work for'

2023. 03	Certificate of ISO 45001(Occupational Health and Safety Management System)

2023. 09	Awarded 'A Company to Work for'
2023. 11	Selected as Excellent Star Company
2023. 12	Awarded KCAMP Grand Prize in Business



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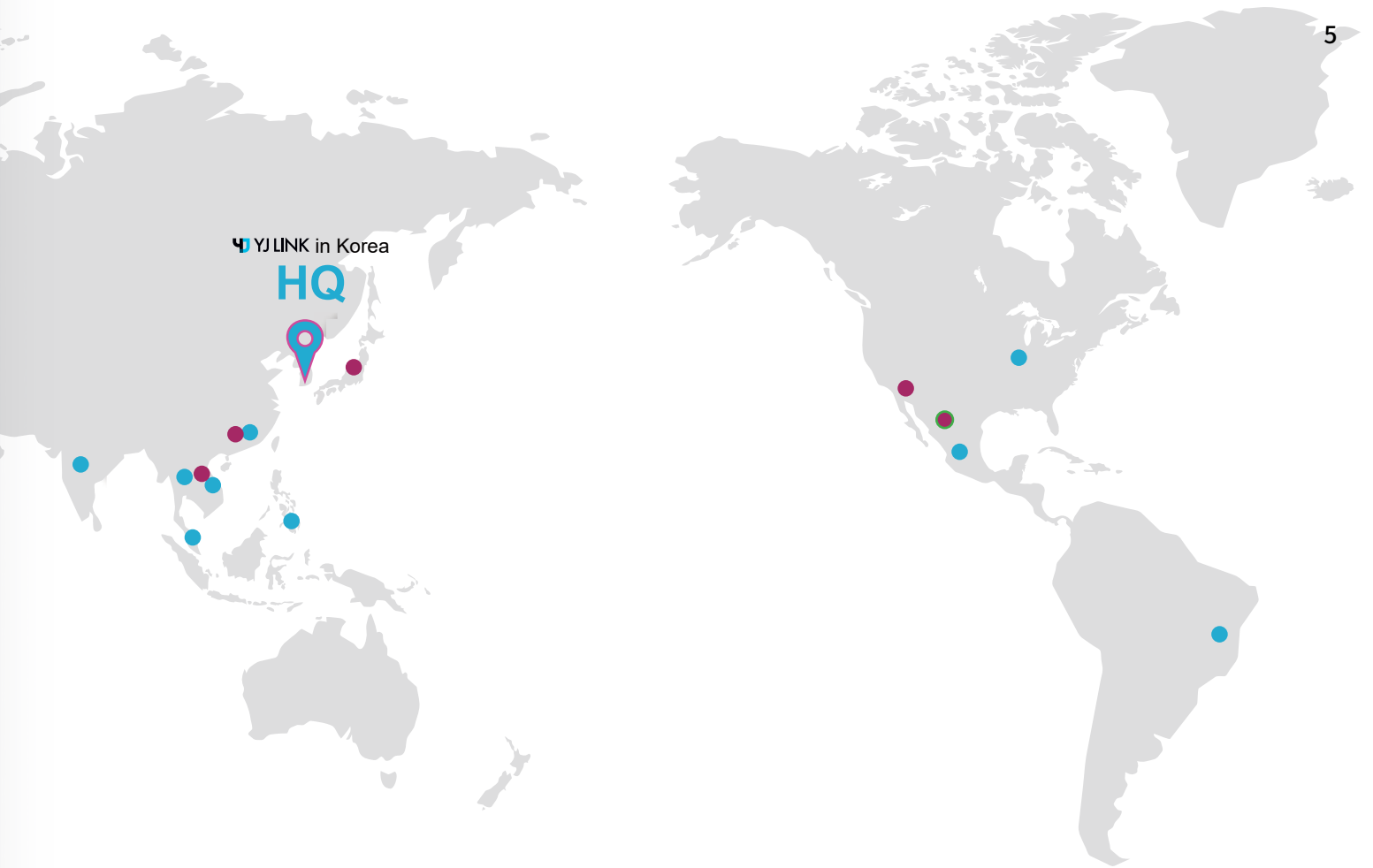
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YJ LINK

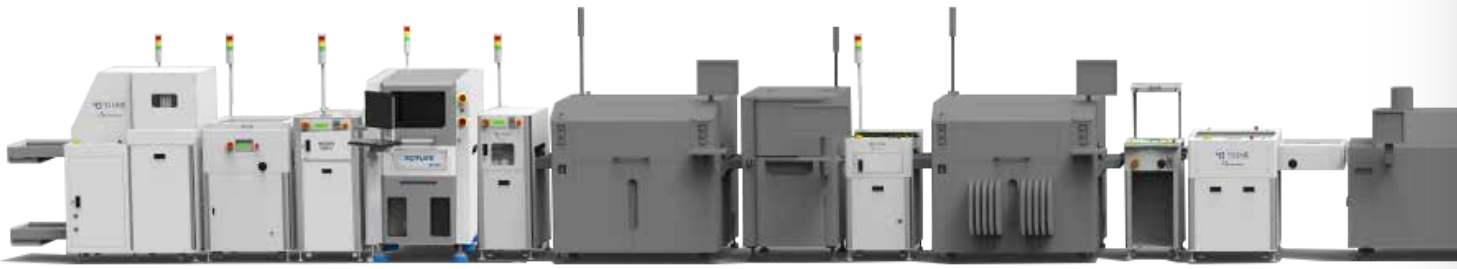
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E-Mail yjjapan@yjlink.com

LAY-OUT

BOARD HANDLING EQUIPMENT



1

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10

11

Loader / Unloader Series

Magazine Loader	YML-00	10P	-
Magazine Loader - All type(Bar)	YML-10	12P	-
Magazine Loader - All type (Chain)	YML-30	14P	-
Shuttle Loader	YSL-00 / YSL-01	16P	-
Shuttle Loader - AGV	YSL-10 / YSL-11	18P	-
Magazine Unloader	YMU-00	20P	-
Magazine Unloader - All type(Bar)	YMU-10	22P	-
Magazine Unloader - All type (Chain)	YMU-30	24P	-
Shuttle Unloader	YSU-00 / YSU-01	26P	-
Shuttle Unloader - AGV	YSU-10 / YSU-11	28P	-
Magazine Buffer	YMB-00	30P	-

Buffer Series

Combi - Magazine	YCM-00	34P	-
Combi - Rack	YCR-00	36P	-
Tower	YTR-00 / YTR-01	38P	-
Tower - Cooling	YTR-10 / YTR-11	40P	40P
Tower + Conveyor - Cooling	YTC-00 / YTC-01	42P	42P
Tower + NG Conveyor	YTN-00	44P	-

Link / Work Series

Connection Conveyor	YCC-00 / YCC-01	48P	48P
Connection Conveyor - Cooling	YCC-20 / YCC-21	50P	50P
Connection Conveyor - Barcode Manual Bracket(Single sided)	YCC-40 / YCC-41	52P	-
Connection Conveyor - Barcode Manual Bracket(Double sided)	YCC-50 / YCC-51	54P	-
Work Conveyor - Inspection	YWC-00 / YWC-01 / YWC-02	56P	56P
Work Conveyor - Work	YWC-20 / YWC-21 / YWC-22	58P	58P
NG Conveyor	YNC-00	60P	60P

SMT

POST-
PROCESS

- | | | | |
|---------------------------|--------------------|----------------------|---------------------------------|
| 01_ MAGAZINE LOADER | 06_ SCREEN PRINTER | 11_ GATE CONVEYOR | 16_ AOI |
| 02_ DESTACKER | 07_ SPI | 12_ OVEN | 17_ OPTICAL VERIFICATION BUFFER |
| 03_ VERTICAL TURN | 08_ NG CONVEYOR | 13_ COOLING CONVEYOR | 18_ NG CONVEYOR |
| 04_ LASER MARKING MACHINE | 09_ MOUNTER | 14_ COMBI-MAGAZINE | 19_ CONNECTION CONVEYOR |
| 05_ PCB CLEANER | 10_ WORK CONVEYOR | 15_ SHUTTLE CONVEYOR | 20_ MAGAZINE UNLOADER |



12

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		SMT	POST-PROCESS
Connection Conveyor - Sky Line	YCC-60 / YCC-62	62P	-
Connection Conveyor - Pallet Return Line	YCC-70 / YCC-72	-	64P
Conveyor Series			
Destacker - Knife	YDL-00	68P	-
Destacker - Clamp	YDL-10	70P	-
Destacker - Clmap(Batch)	YDL-11	72P	-
Vacuum Loader - Edge	YVL-00	74P	-
Stacker	YPU-00	76P	-
PCB Cleaner - Vacuum	YPC-00	78P	-
PCB Cleaner - Vacuum + Sticky roller	YPC-01	80P	-
Gate Conveyor - Telescope	YGC-00	82P	82P
Gate Conveyor - Down/Up	YGC-10	84P	84P
Vertical Turn	YVT-00	86P	86P
Horizontal Turn	YHT-00	88P	88P
Shuttle Conveyor	YSC-00 / YSC-01 / YSC-02 / YSC-03 / YSC-04 / YSC-05 / YSC-06 / YSC-07	90P	90P
Elevator Unit - Sky Line	YEU-00 / YEU-01	92P	-
Elevator Unit - Pallet Return Line	YEU-10	-	94P
PC Controlled			
NOVLUX Laser Marking Machine - CO2	YLM-00	98P	-
NOVLUX Laser Marking Machine - Hybrid	YLM-10	100P	-
VISPLO Review Verification System	YCI-10	102P	-
ARMAS Router - Bronze	YRM-00	104P	-
ARMAS Router - Silver	YRM-10	106P	-
ARMAS Router - Platinum	YRM-20	108P	-
Barcode Scanning Conveyor	YBS-00 / YBS-01	110P	-
Index (Common Standard / Option Spec & Standard Feature & Magazine Rack)		112P	112P

BOARD HANDLING

LOADER / UNLOADER SERIES

[M-10C-Y()1 SERIES]

Magazine Loader	.....	P. 10
Magazine Loader - All type (Bar)	.....	P. 12
Magazine Loader - All type (Chain)	.....	P. 14
Shuttle Loader	.....	P. 16
Shuttle Loader - AGV	.....	P. 18
Magazine Unloader	.....	P. 20
Magazine Unloader - All type (Bar)	.....	P. 22
Magazine Unloader - All type (Chain)	.....	P. 24
Shuttle Unloader	.....	P. 26
Shuttle Unloader - AGV	.....	P. 28
Magazine Buffer	.....	P. 30



P. 10

➤ Magazine Loader



P. 12

➤ Magazine Loader- All type (Bar)



P. 14

➤ Magazine Loader- All type (Chain)



P. 16

➤ Shuttle Loader



P. 18

➤ Shuttle Loader - AGV



P. 20

➤ Magazine Unloader



P. 22

➤ Magazine Unloader - All type (Bar)



P. 24

➤ Magazine Unloader - All type (Chain)



P. 26

➤ Shuttle Unloader



P. 28

➤ Shuttle Unloader - AGV



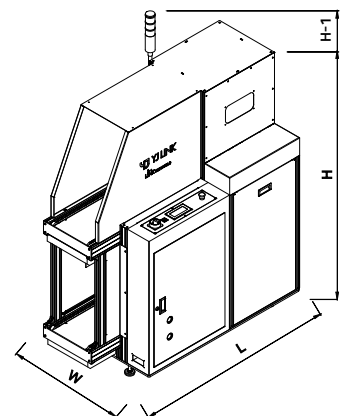
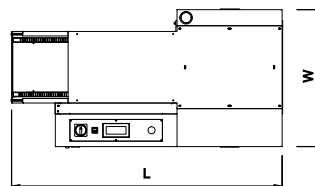
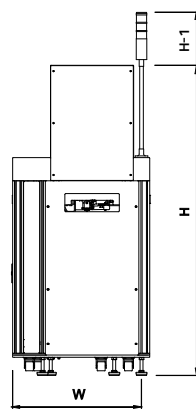
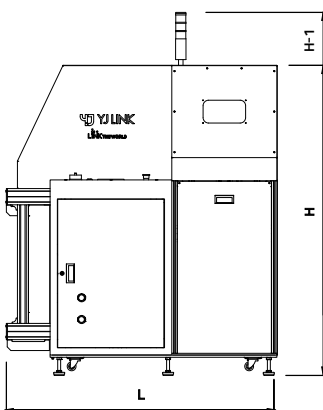
P. 30

➤ Magazine Buffer

Magazine Loader



Located at the first stage of SMT line, this unit transfers PCBs stacked in a magazine rack to the downstream machine using a pneumatic pusher one by one.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM1-0100		YML-1M 00	M	1502	755	1700	2000	303
M-10C-YL1-0100		YML-1L 00	L	1702	835	1700	2000	321
M-10C-YX1-0100		YML-1X 00	XL	1763	965	1700	2000	349

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	L	XL
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	440 X 330	460 X 460
Item	SMT		
PCB Top/Bottom Clearance (mm)	30 / 25		
PCB Edge (mm)	3		
PCB Loading Weight (kg)	3		
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
Magazine Size (L X W X H)(mm)	M	L	XL
	355 X 320 X 570	460 X 400 X 575	535 X 530 X 575
Magazine Full Rack (kg)	20	30	50
Magazine Slot (ea)	50		
Magazine A size (mm)	34		
Magazine B size (mm)	35		
PCB Loading	Upper to Bottom (50 to 1)		
Magazine Loading	Bottom to Upper		
Pitch	1~4 (10 ~ 40mm)		
Magazine Capacity (ea)	Upper 2 / Lower 2		
Exit Guide	Fixed block in fixed rail side		
Jam Detect Function *	Pneumatic		
Safety Cover	Outer / Motor		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa (5bar)		
Air Usage	11.30 ℓ/min		
Electricity Consumption	320W		

Option Spec.		
Item	CODE No.	Option
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

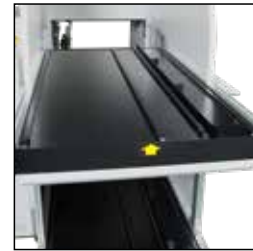
Shuttle Unloader - AGV

Magazine Buffer

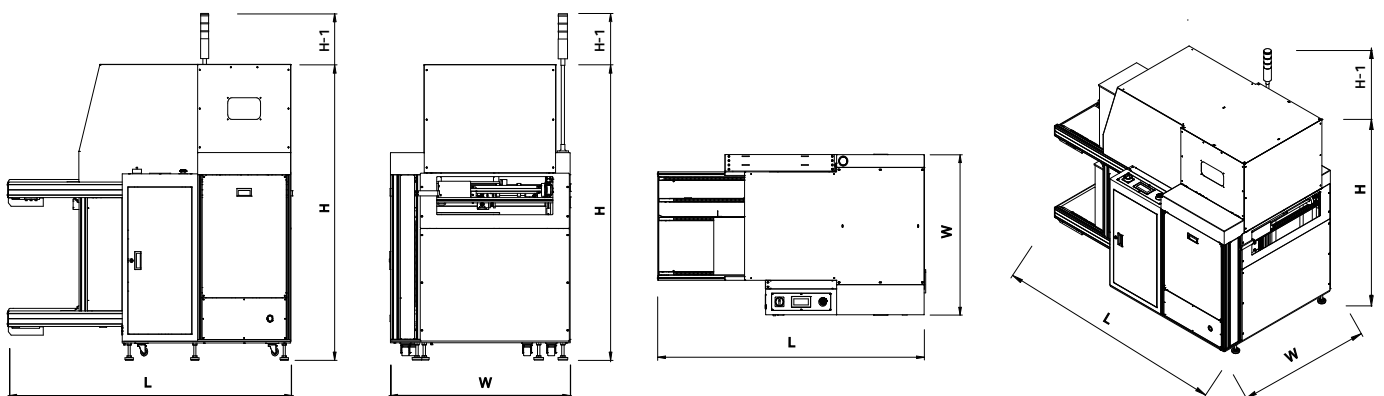
Magazine Loader - All type(Bar)



Located at the first stage of SMT line, this unit transfers PCBs stacked in a magazine rack to the downstream machine using a pneumatic pusher one by one. The magazine conveyor part and the inside of the lifter are designed to accommodate racks of various sizes.



Magazine Guide Holder



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX1-0101		YML-1X 10	XL	1763	965	1706	2000	364

Standard Spec.	
Item	Standard
Line Flow	Left to Right Right to Left
Fixed Rail	Front Rear
Pass Line (mm)	950±20 900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz 110V±(10%) & 50 ~ 60Hz
PCB Size	XL
Min.PCB (L X W) (mm)	70 X 50
Max.PCB (L X W) (mm)	460 X 460
Item	SMT
PCB Top/Bottom Clearance (mm)	30 / 25
PCB Edge (mm)	3
PCB Loading Weight (kg)	3
PCB Thickness (mm)	0.6 ~ 4.0
PCB Color	Green
Magazine Size (L X W X H)(mm)	XL 535 X 530 X 575
Magazine Full Rack (kg)	50
Magazine Slot (ea)	50
Magazine A size (mm)	34
Magazine B size (mm)	35
PCB Loading	Upper to Bottom (50 to 1)
Magazine Loading	Bottom to Upper
Pitch	1~4 (10 ~ 40mm)
Magazine Capacity (ea)	Upper 2 / Lower 2
Exit Guide	Fixed block in fixed rail side
Jam Detect Function *	Pneumatic
Safety Cover	Outer / Motor
Width Adjustment *	Manual
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6
Smema Cable	3m / 1 ea
Alarm	Tower lamp (3 color)
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)
Air Supply	0.5Mpa (5bar)
Air Usage	11.30 ℓ/min
Electricity Consumption	370W

Option Spec.		
Item	CODE No.	Option
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

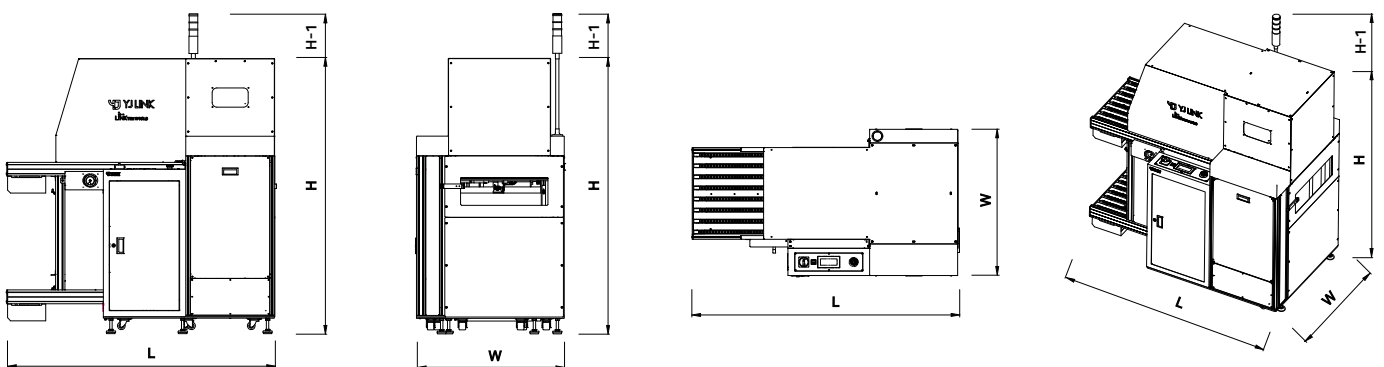
Shuttle Unloader - AGV

Magazine Buffer

Magazine Loader - All type(Chain)



Located at the first stage of SMT line, this unit transfers PCBs stacked in a magazine rack to the downstream machine using a pneumatic pusher one by one. The magazine conveyor part and the inside of the lifter are designed to accommodate racks of various sizes.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX1-0102		YML-1X 30	XL	1763	965	1800	2100	420

Standard Spec.	
Item	Standard
Line Flow	Left to Right Right to Left
Fixed Rail	Front Rear
Pass Line (mm)	950±20 900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz 110V±(10%) & 50 ~ 60Hz
PCB Size	XL
Min.PCB (L X W) (mm)	70 X 50
Max.PCB (L X W) (mm)	460 X 460
Item	SMT
PCB Top/Bottom Clearance (mm)	30 / 25
PCB Edge (mm)	3
PCB Loading Weight (kg)	3
PCB Thickness (mm)	0.6 ~ 4.0
PCB Color	Green
Magazine Size (L X W X H)(mm)	XL 535 X 530 X 575
Magazine Full Rack (kg)	50
Magazine Slot (ea)	50
Magazine A size (mm)	34
Magazine B size (mm)	35
PCB Loading	Upper to Bottom (50 to 1)
Magazine Loading	Bottom to Upper
Pitch	1~4 (10 ~ 40mm)
Magazine Capacity (ea)	Upper 2 / Lower 2
Exit Guide	Fixed block in fixed rail side
Jam Detect Function *	Pneumatic
Safety Cover	Outer
Width Adjustment *	Manual
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6
Smema Cable	3m / 1 ea
Alarm	Tower lamp (3 color)
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)
Air Supply	0.5Mpa (5bar)
Air Usage	11.30 ℓ/min
Electricity Consumption	370W

Option Spec.		
Item	CODE No.	Option
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

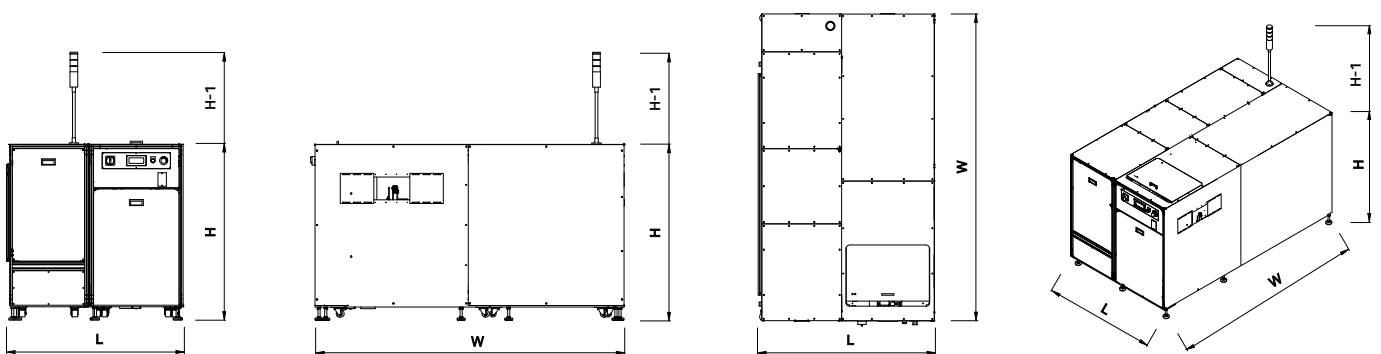
Shuttle Unloader - AGV

Magazine Buffer

Shuttle Loader (2-racks / 3-racks)




Located at the first stage of SMT line, this unit consists of a coupling of a single shuttle and a rack part then transfers PCBs stacked in a magazine rack to the downstream machine using a puller mounted on the single shuttle one by one. The rack part is designed to accommodate racks of various sizes.



*The image is based on 3-racks.

CODE No.		MODEL	Magazine Capacity(ea)	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM1-0403		YSL-1M 00	2-racks	M	1230	1580	1314	2000	545
M-10C-YL1-0403		YSL-1L 00	2-racks	L	1330	1740	1314	2000	620
M-10C-YX1-0403		YSL-1X 00	2-racks	XL	1430	2000	1314	2000	710
M-10C-YM1-0404		YSL-1M 01	3-racks	M	1230	2065	1314	2000	705
M-10C-YL1-0404		YSL-1L 01	3-racks	L	1330	2305	1314	2000	780
M-10C-YX1-0404		YSL-1X 01	3-racks	XL	1430	2695	1314	2000	870

Standard Spec.			
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		M	L XL
Min.PCB (L X W) (mm)		100 X 70	
Max.PCB (L X W) (mm)		330 X 250	440 X 330 460 X 460
Item		SMT	
PCB Top/Bottom Clearance (mm)		30 / 25	
PCB Edge (mm)		3	
PCB Loading Weight (kg)		3	
Conveyor Belt		Flat edge belt	
Conveyor Speed (mm/sec) *		200	
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Magazine Size (L X W X H)(mm)		M 355 X 320 X 570	L XL 460 X 400 X 575 535 X 530 X 575
Magazine Slot (ea)		45 (First 5 slots from the bottom may not be used)	
Magazine A size (mm)		34	
Magazine B size (mm)		35	
PCB Loading		Bottom to Upper (6 to 50)	
Magazine Clamping		Cylinder	
Magazine Size		All size	
Pitch		1~4 (10~40mm)	
Jam Detect Function *		Pneumatic	
Safety Items		Inside : Auto sliding door(non-contact safety door sensor) Outside : Manual sliding door(key type door sensor)	
Width Adjustment		Auto	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Tower lamp (3 color)	
Color *		SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply		0.5Mpa (5bar)	
Air Usage		4.0 ℓ/min	
Electricity Consumption		720W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Magazine Width Adjustment	O-100-HW1-0500	-
	When this option is selected, the voltage is changed to 220V.	
Magazine Stopper Release	O-100-HW1-0600	-
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

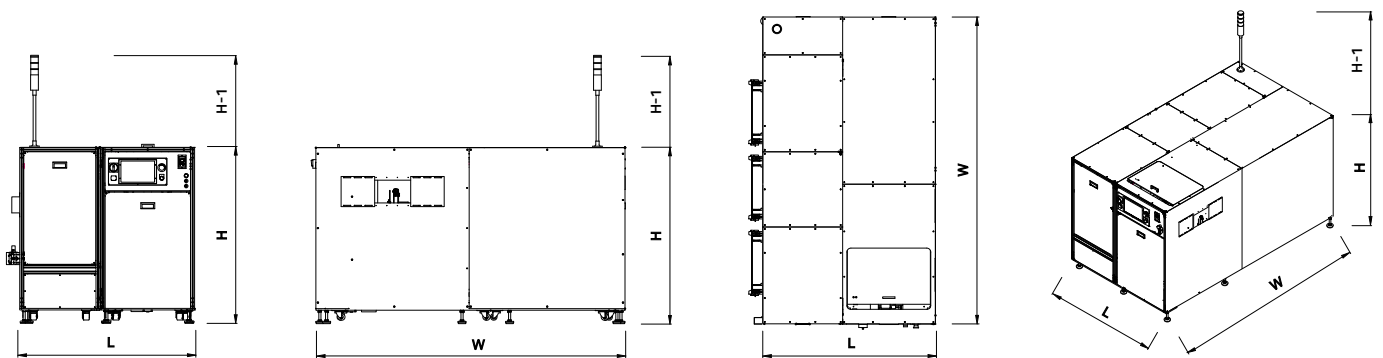
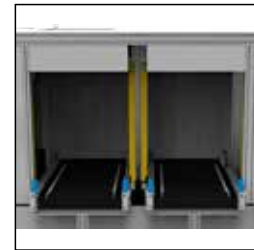
Shuttle Unloader - AGV

Magazine Buffer

Shuttle Loader - AGV (2-racks / 3-racks)



Located at the first stage of SMT line, this unit consists of a coupling of a single shuttle and a rack part then transfers PCBs stacked in a magazine rack to the downstream machine using a puller mounted on the single shuttle one by one. The rack part interlocks with AGV to supply magazine racks.



*The image is based on 3-racks.

CODE No.		MODEL	Magazine Capacity(ea)	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM1-0603		YSL-1M 10	2-racks	M	1550	1580	1312	2000	565
M-10C-YL1-0603		YSL-1L 10	2-racks	L	1650	1740	1312	2000	640
M-10C-YX1-0603		YSL-1X 10	2-racks	XL	1750	2000	1312	2000	720
M-10C-YM1-0604		YSL-1M 11	3-racks	M	1550	2065	1312	2000	695
M-10C-YL1-0604		YSL-1L 11	3-racks	L	1650	2305	1312	2000	775
M-10C-YX1-0604		YSL-1X 11	3-racks	XL	1750	2695	1312	2000	860

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		
PCB Size	M	L	XL
Min.PCB (L X W) (mm)	100 X 70		
Max.PCB (L X W) (mm)	330 X 250	440 X 330	460 X 460
Item	SMT		
PCB Top/Bottom Clearance (mm)	30 / 25		
PCB Edge (mm)	3		
PCB Loading Weight (kg)	3		
Conveyor Belt	Flat edge belt		
Conveyor Speed (mm/sec) *	200		
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Magazine Size (L X W X H)(mm)	M	L	XL
	355 X 320 X 570	460 X 400 X 575	535 X 530 X 575
Magazine Slot (ea)	45 (First 5 slots from the bottom may not be used)		
Magazine A size (mm)	34		
Magazine B size (mm)	35		
PCB Loading	Bottom to Upper (6 to 50)		
Magazine Clamping	Cylinder		
Magazine Size	One kind		
Pitch	1~4 (10~40mm)		
Jam Detect Function *	Pneumatic		
Safety Item	Inside : Auto sliding door(non-contact safety door sensor) Outside : Light curtain		
Width Adjustment	Auto		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa (5bar)		
Air Usage	4.0 ℓ/min		
Electricity Consumption	720W		

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Magazine Width Adjustment	O-100-HW1-0500	-
Magazine Stopper Release	O-100-HW1-0600	-
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

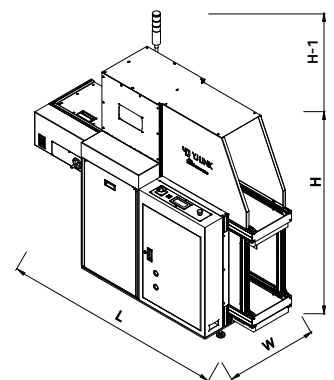
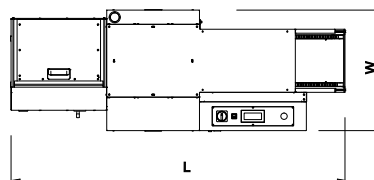
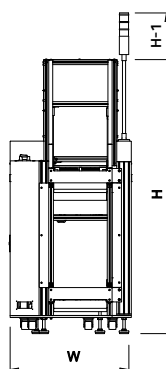
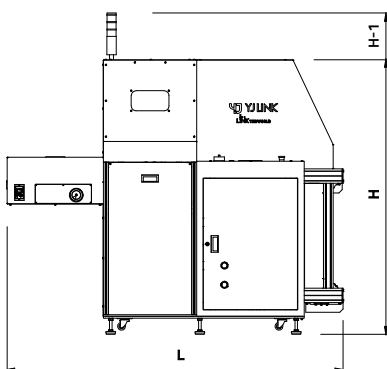
Shuttle Unloader - AGV

Magazine Buffer


Magazine Unloader



Located at the final stage of SMT line, this unit stacks PCBs in an empty magazine rack using a pneumatic pusher one by one.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM1-0200		YMU-1M 00	M	2090	755	1700	2000	344
M-10C-YL1-0200		YMU-1L 00	L	2290	835	1700	2000	361
M-10C-YX1-0200		YMU-1X 00	XL	2350	965	1700	2000	393

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	L	XL
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	440 X 330	460 X 460
Item	SMT		
PCB Top/Bottom Clearance (mm)	30 / 25		
PCB Edge (mm)	3		
PCB Loading Weight (kg)	3		
Conveyor Belt	Flat edge belt		
Conveyor Speed (mm/sec) *	200		
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Magazine Size (L X W X H)(mm)	M	L	XL
	355 X 320 X 570	460 X 400 X 575	535 X 530 X 575
Magazine Full Rack (kg)	20	30	50
Magazine Slot (ea)	50		
Magazine A size (mm)		34	
Magazine B size (mm)		35	
PCB Stacking	Bottom to Upper (1 to 50)		
Magazine Loading	Upper to Bottom		
Pitch	1~4 (10 ~ 40mm)		
Magazine Capacity (ea)	Upper 2 / Lower 2		
Jam Detect Function *	Pneumatic		
Safety Cover	Outer / Motor		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa (5bar)		
Air Usage	11.30 ℓ/min		
Electricity Consumption	335W		

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Width Synchronization	O-100-SW0-0200	via RS-485
	O-200-LC0-0100	Hermes
Line Control	O-200-LC0-0200	Smart kit (LAN communication PLC)
	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

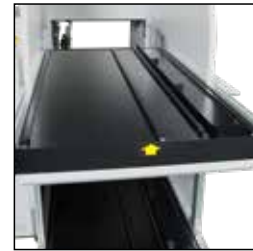
Shuttle Unloader - AGV

Magazine Buffer

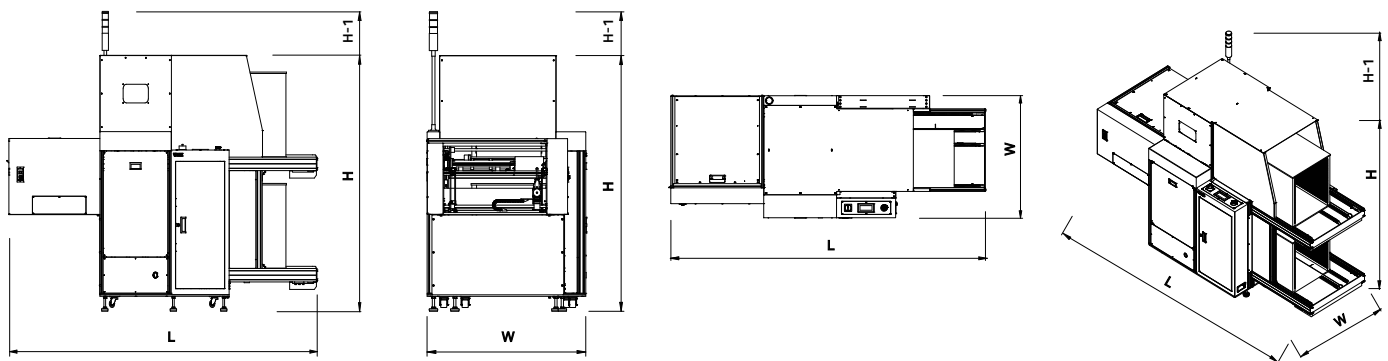
Magazine Unloader - All type(Bar)



Located at the final stage of the SMT line, this unit stacks PCBs in an empty magazine rack using a pneumatic pusher one by one. The conveyor part and the inside of the lifter are designed to accommodate racks of various sizes.



Magazine Guide Holder



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX1-0201		YMU-1X 10	XL	2350	965	1706	2000	398

Standard Spec.	
Item	Standard
Line Flow	Left to Right Right to Left
Fixed Rail	Front Rear
Pass Line (mm)	950±20 900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz 110V±(10%) & 50 ~ 60Hz
PCB Size	XL
Min.PCB (L X W) (mm)	70 X 50
Max.PCB (L X W) (mm)	460 X 460
Item	SMT
PCB Top/Bottom Clearance (mm)	30 / 25
PCB Edge (mm)	3
PCB Loading Weight (kg)	3
Conveyor Belt	Flat edge belt
Conveyor Speed (mm/sec) *	200
PCB Thickness (mm)	0.6 ~ 4.0
PCB Color	Green
PCB In/Out Sensor	Single sensor
Magazine Size (L X W X H)(mm)	XL 535 X 530 X 575
Magazine Full Rack (kg)	50
Magazine Slot (ea)	50
Magazine A size (mm)	34
Magazine B size (mm)	35
PCB Stacking	Bottom to Upper (1 to 50)
Magazine Loading	Upper to Bottom
Pitch	1~4 (10 ~ 40mm)
Magazine Capacity (ea)	Upper 2 / Lower 2
Jam Detect Function *	Pneumatic
Safety Cover	Outer / Motor
Width Adjustment *	Manual
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6
Smema Cable	3m / 1 ea
Alarm	Tower lamp (3 color)
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)
Air Supply	0.5Mpa (5bar)
Air Usage	11.30 ℓ/min
Electricity Consumption	385W

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)

Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

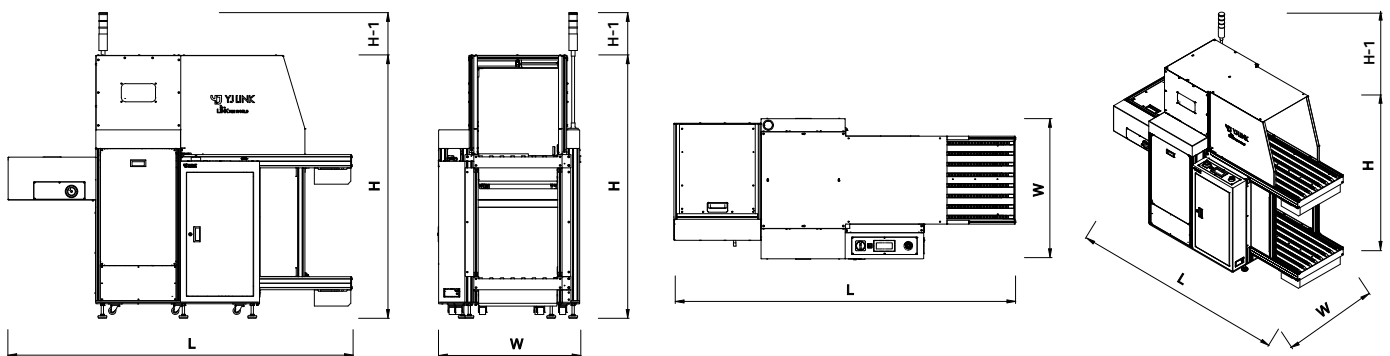
Shuttle Unloader - AGV

Magazine Buffer

Magazine Unloader - All type(Chain)



Located at the final stage of the SMT line, this unit stacks PCBs in an empty magazine rack using a pneumatic pusher one by one. The conveyor part and the inside of the lifter are designed to accommodate racks of various sizes.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX1-0202		YMU-1X 30	XL	2350	965	1800	2100	455

Standard Spec.	
Item	Standard
Line Flow	Left to Right Right to Left
Fixed Rail	Front Rear
Pass Line (mm)	950±20 900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz 110V±(10%) & 50 ~ 60Hz
PCB Size	XL
Min.PCB (L X W) (mm)	70 X 50
Max.PCB (L X W) (mm)	460 X 460
Item	SMT
PCB Top/Bottom Clearance (mm)	30 / 25
PCB Edge (mm)	3
PCB Loading Weight (kg)	3
Conveyor Belt	Flat edge belt
Conveyor Speed (mm/sec) *	200
PCB Thickness (mm)	0.6 ~ 4.0
PCB Color	Green
PCB In/Out Sensor	Single sensor
Magazine Size (L X W X H)(mm)	XL 535 X 530 X 575
Magazine Full Rack (kg)	50
Magazine Slot (ea)	50
Magazine A size (mm)	34
Magazine B size (mm)	35
PCB Stacking	Bottom to Upper (1 to 50)
Magazine Loading	Upper to Bottom
Pitch	1~4 (10 ~ 40mm)
Magazine Capacity (ea)	Upper 2 / Lower 2
Jam Detect Function *	Pneumatic
Safety Cover	Outer
Width Adjustment *	Manual
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6
Smema Cable	3m / 1 ea
Alarm	Tower lamp (3 color)
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)
Air Supply	0.5Mpa (5bar)
Air Usage	11.30 ℓ/min
Electricity Consumption	385W

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

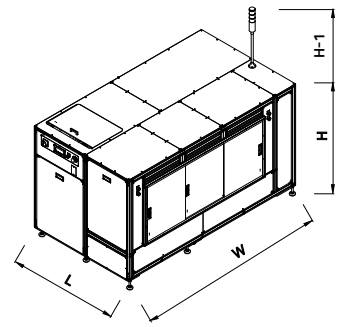
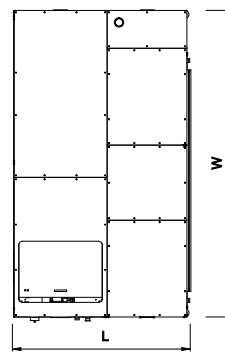
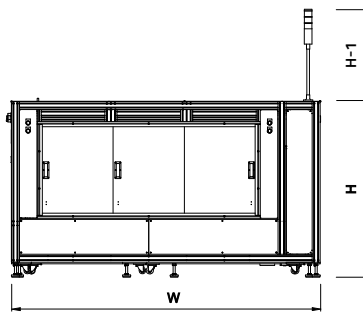
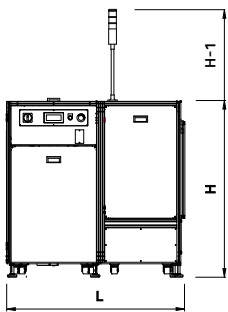
Shuttle Unloader - AGV

Magazine Buffer

Shuttle Unloader (2-racks / 3-racks)




Located at the final stage of SMT line, this unit consists of a coupling of a single shuttle and a rack part and stacks PCBs in an empty magazine rack using a pneumatic pusher mounted on the single shuttle one by one. The rack part is designed to accommodate racks of various sizes.



*The image is based on 3-racks.

CODE No.		MODEL	Magazine Capacity(ea)	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM1-0503		YSU-1M 00	2-racks	M	1230	1580	1314	2000	545
M-10C-YL1-0503		YSU-1L 00	2-racks	L	1330	1740	1314	2000	620
M-10C-YX1-0503		YSU-1X 00	2-racks	XL	1430	2000	1314	2000	710
M-10C-YM1-0504		YSU-1M 01	3-racks	M	1230	2065	1314	2000	705
M-10C-YL1-0504		YSU-1L 01	3-racks	L	1330	2305	1314	2000	780
M-10C-YX1-0504		YSU-1X 01	3-racks	XL	1430	2695	1314	2000	870

Standard Spec.			
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		M	L XL
Min.PCB (L X W) (mm)		100 X 70	
Max.PCB (L X W) (mm)		330 X 250	440 X 330 460 X 460
Item		SMT	
PCB Top/Bottom Clearance (mm)		30 / 25	
PCB Edge (mm)		3	
PCB Loading Weight (kg)		3	
Conveyor Belt		Flat edge belt	
Conveyor Speed (mm/sec) *		200	
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Magazine Size (L X W X H)(mm)		M 355 X 320 X 570	L XL 460 X 400 X 575 535 X 530 X 575
Magazine Slot (ea)		50	
Magazine A size (mm)		34	
Magazine B size (mm)		35	
PCB Stacking		Upper to Bottom (50 to 1)	
Magazine Clamping		Cylinder	
Magazine Size		All size	
Pitch		1~4 (10 ~ 40mm)	
Jam Detect Function *		Pneumatic	
Safety Items		Inside : Auto sliding door(non-contact safety door sensor) Outside : Manual sliding door(key type door sensor)	
Width Adjustment		Auto	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Tower lamp (3 color)	
Color *		SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply		0.5Mpa (5bar)	
Air Usage		4.0 ℓ/min	
Electricity Consumption		720W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Magazine Width Adjustment	O-100-HW1-0500	-
	When this option is selected, the voltage is changed to 220V.	
Magazine Stopper Release	O-100-HW1-0600	-
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

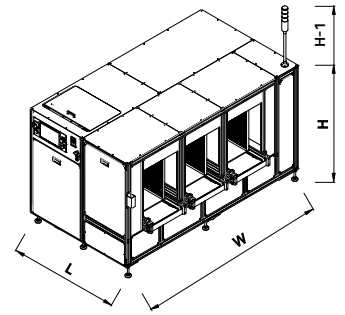
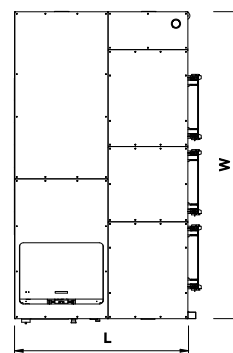
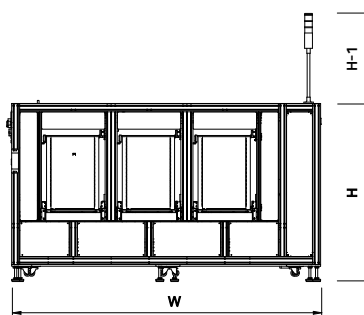
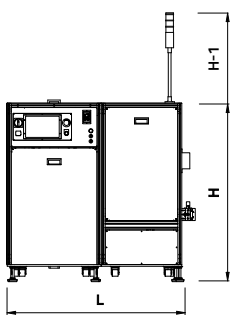
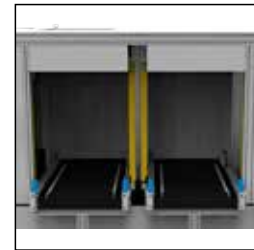
Shuttle Unloader - AGV

Magazine Buffer

Shuttle Unloader - AGV (2-racks / 3-racks)



Located at the final stage of SMT line, this unit consists of a coupling of a single shuttle and a rack part and stacks PCBs in an empty magazine rack using a pneumatic pusher mounted on the single shuttle one by one. The open rack part interlocks with AGV to supply magazine racks.



*The image is based on 3-racks.

CODE No.		MODEL	Magazine Capacity(ea)	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM1-0703		YSU-1M 10	2-racks	M	1550	1580	1312	2000	565
M-10C-YL1-0703		YSU-1L 10	2-racks	L	1650	1740	1312	2000	640
M-10C-YX1-0703		YSU-1X 10	2-racks	XL	1750	2000	1312	2000	720
M-10C-YM1-0704		YSU-1M 11	3-racks	M	1550	2065	1312	2000	695
M-10C-YL1-0704		YSU-1L 11	3-racks	L	1650	2305	1312	2000	775
M-10C-YX1-0704		YSU-1X 11	3-racks	XL	1750	2695	1312	2000	860

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		
PCB Size	M	L	XL
Min.PCB (L X W) (mm)	100 X 70		
Max.PCB (L X W) (mm)	330 X 250	440 X 330	460 X 460
Item	SMT		
PCB Top/Bottom Clearance (mm)	30 / 25		
PCB Edge (mm)	3		
PCB Loading Weight (kg)	3		
Conveyor Belt	Flat edge belt		
Conveyor Speed (mm/sec) *	200		
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Magazine Size (L X W X H)(mm)	M	L	XL
	355 X 320 X 570	460 X 400 X 575	535 X 530 X 575
Magazine Slot (ea)	50		
Magazine A size (mm)	34		
Magazine B size (mm)	35		
PCB Stacking	Upper to Bottom (50 to 1)		
Magazine Clamping	Cylinder		
Magazine Size	One Kind		
Pitch	1~4 (10 ~ 40mm)		
Jam Detect Function *	Pneumatic		
Safety Item	Inside : Auto sliding door(non-contact safety door sensor) Outside : Light curtain		
Width Adjustment	Auto		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa (5bar)		
Air Usage	4.0 ℓ/min		
Electricity Consumption	720W		

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor)
Magazine Width Adjustment	O-100-HW1-0500	-
Magazine Stopper Release	O-100-HW1-0600	-
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

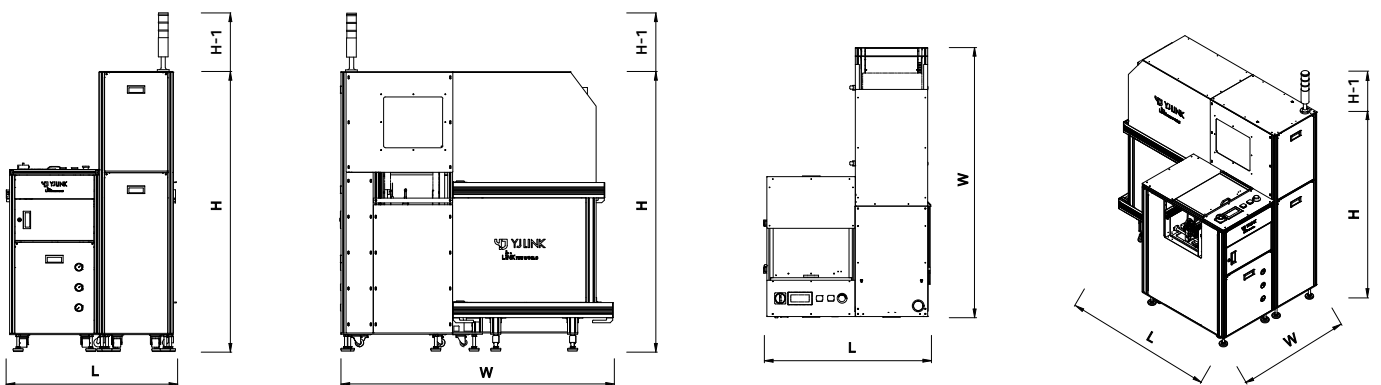
Shuttle Unloader - AGV

Magazine Buffer

Magazine Buffer



This unit handles PCBs in variable operation modes in line.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM1-0300		YMB-1M 00	M	1000	1615	1655	2000	360
M-10C-YL1-0300		YMB-1L 00	L	1220	1730	1655	2000	420
M-10C-YX1-0300		YMB-1X 00	XL	1370	2110	1655	2000	485

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	L	XL
Min.PCB (L X W) (mm)	70 X 100		
Max.PCB (L X W) (mm)	330 X 250	440 X 330	460 X 460
Item	SMT		
PCB Top/Bottom Clearance (mm)	30 / 25		
PCB Edge (mm)	3		
PCB Loading Weight (kg)	3		
Conveyor Belt	Flat edge belt		
Conveyor Speed (mm/sec) *	200		
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Magazine Size (L X W X H)(mm)	M	L	XL
	355 X 320 X 570	460 X 400 X 575	535 X 530 X 575
Magazine Full Rack (kg)	20	30	50
Magazine Slot (ea)	50		
Magazine A size (mm)	34		
Magazine B size (mm)	35		
Magazine Loading	Front / Rear		
Pitch	1~4 (10~40mm)		
Mode	By pass / Buffering(FIFO, LIFO) / Loading / Unloading / NG Stacking		
Magazine Capacity (ea)	Upper 2 / Lower 2		
Exit Guide	Fixed block in fixed rail side		
Jam Detect Function *	Pneumatic		
Safety Cover	Outer		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa (5bar)		
Air Usage	11.30 ℓ/min		
Electricity Consumption	260W		

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 2ea
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Magazine Change	O-100-HW1-0100	-
Jam Detect Function *	O-100-HW1-0202	Electric(Step motor) / 2ea
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Magazine Loader

Magazine Loader - All type(Bar)

Magazine Loader - All type(Chain)

Shuttle Loader

Shuttle Loader - AGV

Magazine Unloader

Magazine Unloader - All type(Bar)

Magazine Unloader - All type(Chain)

Shuttle Unloader

Shuttle Unloader - AGV

Magazine Buffer

BOARD HANDLING

BUFFER SERIES

[M-10C-Y()2 SERIES &
M-50C-Y()2 SERIES]

Combi - Magazine P. 34

Combi - Rack P. 36

Tower P. 38

Tower - Cooling P. 40

Tower + Conveyor - Cooling P. 42

Tower + NG Conveyor P. 44





P. 34

➤ **Combi - Magazine**



P. 36

➤ **Combi - Rack**



P. 38

➤ **Tower**



P. 40

➤ **Tower - Cooling**



P. 42

➤ **Tower + Conveyor - Cooling**



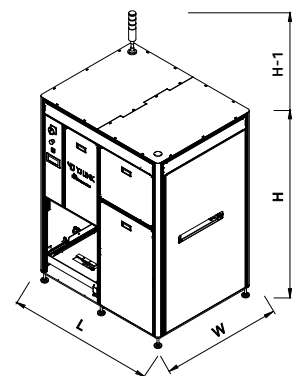
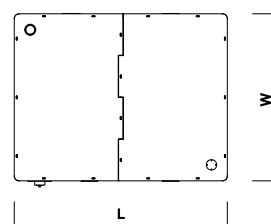
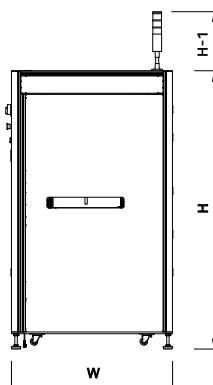
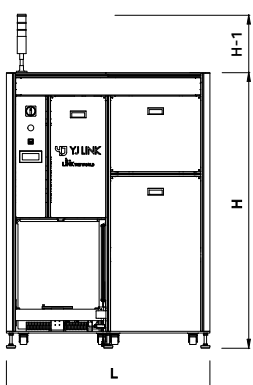
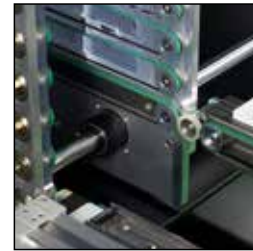
P. 44

➤ **Tower + NG Conveyor**

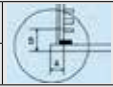
Combi - Magazine



The equipment is located after the SPI/AOI, which allows simultaneous PCB buffering and NG PCB loading.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM2-0101		YCM-1M 00	M	1200	840	1800	2200	370
M-10C-YL2-0101		YCM-1L 00	L	1200	970	1800	2200	420
M-10C-YX2-0101		YCM-1X 00	XL	1340	1050	1800	2200	470

Standard Spec.			
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		M	L XL
Min.PCB (L X W) (mm)		120 X 50	
Max.PCB (L X W) (mm)		330 X 250	440 X 330 460 X 460
Item		SMT	
PCB Top/Bottom Clearance (mm)		30 / 25	
PCB Edge (mm)		3	
PCB Loading Weight (kg)		3	
Slot of Rack (ea)		20 (±15mm)	
Pitch	Rack	1~4 (30~120mm)	
	Magazine	1~4 (10 ~ 40mm)	
Conveyor Belt		Flat edge belt	
Conveyor Speed (mm/sec) *		200	
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Magazine Size (L X W X H)mm		M 355 X 320 X 570	L XL 460 X 400 X 575 535 X 530 X 575
Magazine Full Rack (kg)		20	30 50
Magazine Slot (ea)		50	
Magazine A size (mm)		34	
Magazine B size (mm)		35	
Magazine Capacity (ea)		1	
NG PCB Stacking		Upper to Bottom (50 to 1)	
Jam detect Function		Pneumatic	
Mode		FIFO, LIFO / By pass / NG Stacking	
Width Adjustment *		Manual	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Tower lamp (3 color)	
Color *		SR RAL 7035 : NON ESD (Samhwa Paints)	
Air Supply		0.5Mpa(5bar)	
Air Usage		8.0 ℓ/min	
Electricity Consumption		600W	

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	Rack Part	1~200 / Analog / 3ea
		Conveyor Part	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Rack Part	Auto / 1ea
		Conveyor Part	Auto / 1ea
Width Synchronization	O-100-SW0-0200	via RS-485	
Line Control	O-200-LC0-0100	Hermes	
	O-200-LC0-0200	Smart kit (LAN communication PLC)	
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)	
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Combi - Magazine

Combi - Rack

Tower

Tower - Cooling

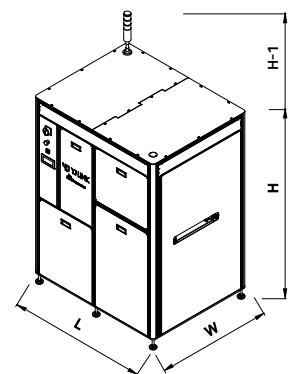
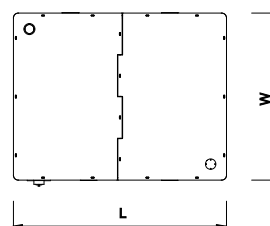
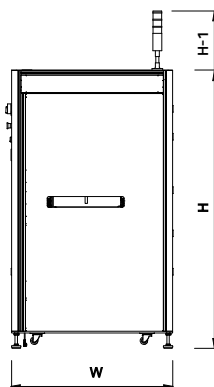
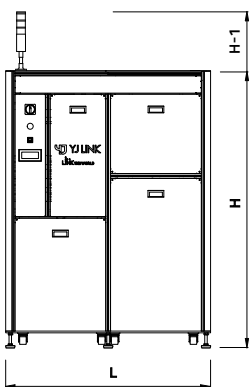
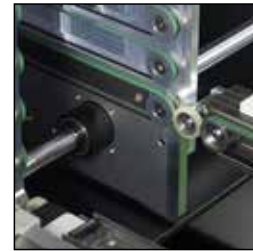
Tower + Conveyor - Cooling

Tower + NG Conveyor

Combi - Rack



This equipment is located between SMT machines to improve working efficiency by buffering PCB.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM2-0102		YCR-1M 00	M	1200	840	1800	2200	360
M-10C-YX2-0102		YCR-1X 00	XL	1340	1050	1800	2200	460

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	120 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
Slot of Rack (ea)	35 (±15mm)	
Pitch	1~4 (30~120mm)	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	FIFO, LIFO / By pass	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (Samhwa Paints)	
Air Supply	0.5Mpa(5bar)	
Air Usage	2.0 ℓ/min	
Electricity Consumption	600W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	Rack Part : 1~200 / Analog / 3ea
		Conveyor Part : 1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Rack Part : Auto / 2ea
		Conveyor Part : Auto / 1ea
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Combi - Magazine

Combi - Rack

Tower

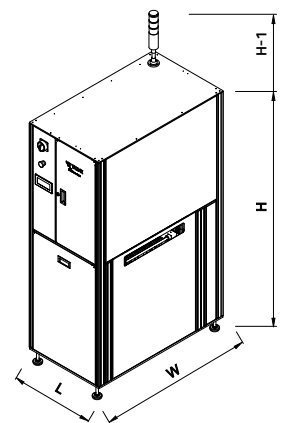
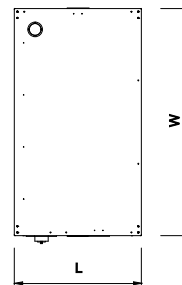
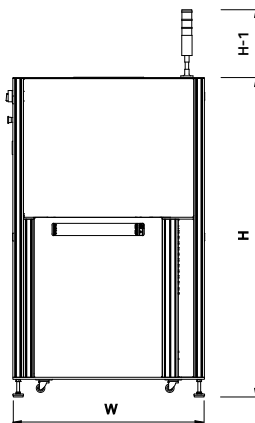
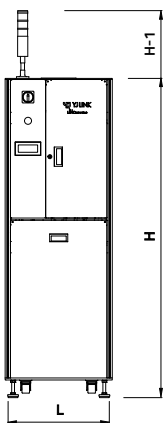
Tower - Cooling

Tower + Conveyor - Cooling

Tower + NG Conveyor



This unit is located between SMT machines to improve working efficiency by buffering.



CODE No.		MODEL	SLOT OF RACK	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM2-0200		YTR-1M 00	20 slots	M	481	880	1815	2200	181
M-10C-YX2-0200		YTR-1X 00	20 slots	XL	621	1100	1815	2200	229
M-10C-YM2-0202		YTR-1M 01	30 slots	M	481	880	1815	2200	181
M-10C-YX2-0202		YTR-1X 01	30 slots	XL	621	1100	1815	2200	229

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
PCB Stacking Weight (kg)	50	
Slot of Rack (ea)	20 (±15mm)	30 (±10mm)
Pitch	1~4 (30~120mm)	1~4 (20~80mm)
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	FIFO, LIFO / By pass	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (Samhwa Paints)	
Electricity Consumption	245W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto / 1ea
Intelligent Function	O-100-SW0-0100	-
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Combi - Magazine

Combi - Rack

Tower

Tower - Cooling

Tower + Conveyor - Cooling

Tower + NG Conveyor

Tower - Cooling



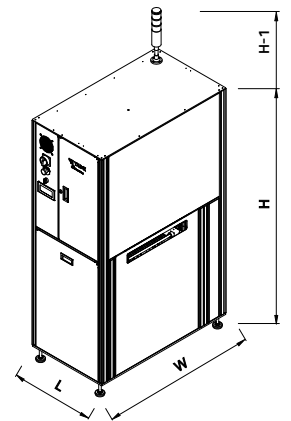
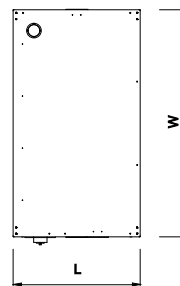
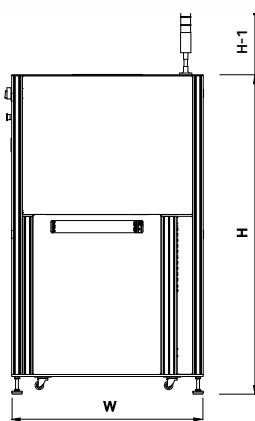
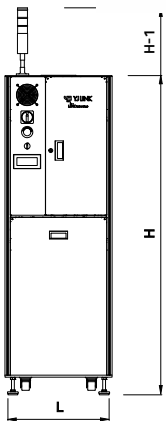
This unit is located after oven to be down the temperature of PCB and buffering.



SMT



POST-PROCESS



CODE No.		MODEL	SLOT OF RACK	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM2-0300		YTR-1M 10	20 slots	M	481	880	1815	2200	187
M-10C-YX2-0300		YTR-1X 10	20 slots	XL	621	1100	1815	2200	235
M-10C-YM2-0302		YTR-1M 11	30 slots	M	481	880	1815	2200	187
M-10C-YX2-0302		YTR-1X 11	30 slots	XL	621	1100	1815	2200	235
	M-50C-YM2-0203	YTR-1M 10	10 slots	M	481	880	1815	2200	187
	M-50C-YX2-0203	YTR-1X 10	10 slots	XL	621	1100	1815	2200	235
	M-50C-YU2-0203	YTR-1U 10	10 slots	UX	761	1250	1815	2200	288

Standard Spec.			
Item		Standard	
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item		SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)	30 / 25		60 / 60
PCB Edge (mm)	3		5
PCB Loading Weight (kg)	3		8
PCB Stacking Weight (kg)	50		
Slot of Rack (ea)	20 (±15mm)	30 (±10mm)	10 (±20mm)
Pitch	1~4 (30~120mm)	1~4 (20~80mm)	1~4 (40~160mm)
Conveyor Belt	Flat edge belt		Pin chain
Conveyor Speed (mm/sec) *	200		100
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
120pi Cooling Fans	12ea at Front & Rear, Ventilation 2ea		
Mode	FIFO, LIFO / By pass		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (Samhwa Paints)		
Electricity Consumption	510W		

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	1~200 / Analog / 1ea
	POST-PROCESS		1~100 / Analog / 1ea
Width Adjustment *		O-100-HW0-0205	Auto / 1ea
Intelligent Function		O-100-SW0-0100	-
Width Synchronization		O-100-SW0-0200	via RS-485
Line Control		O-200-LC0-0100	Hermes
		O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *		O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Combi - Magazine

Combi - Rack

Tower

Tower - Cooling

Tower + Conveyor - Cooling

Tower + NG Conveyor

Tower + Conveyor - Cooling



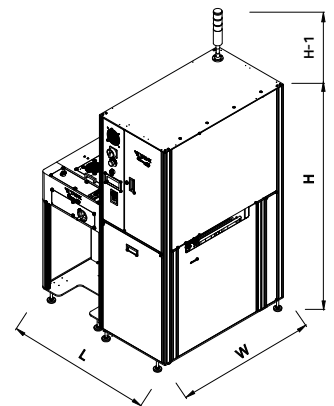
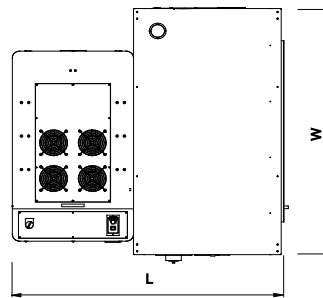
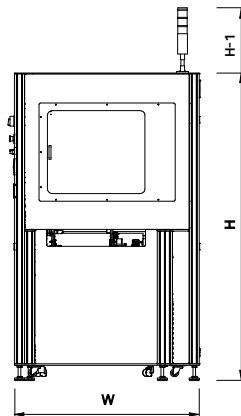
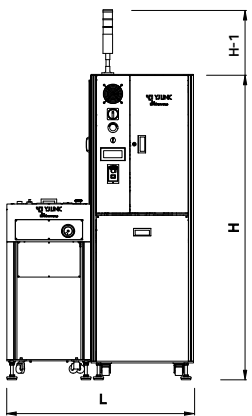
This unit is located after oven to be down the temperature of PCB and buffering.



SMT



POST-PROCESS



CODE No.		MODEL	SLOT OF RACK	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-10C-YM2-0500		YTC-1M 00	20 slots	M	970	880	1815	2200	348
M-10C-YX2-0500		YTC-1X 00	20 slots	XL	1210	1100	1815	2200	416
M-10C-YM2-0502		YTC-1M 01	30 slots	M	970	880	1815	2200	348
M-10C-YX2-0502		YTC-1X 01	30 slots	XL	1210	1100	1815	2200	416
	M-50C-YM2-0303	YTC-1M 00	10 slots	M	970	880	1815	2200	348
	M-50C-YX2-0303	YTC-1X 00	10 slots	XL	1210	1100	1815	2200	416
	M-50C-YU2-0303	YTC-1U 00	10 slots	UX	1510	1250	1815	2200	491

Standard Spec.			
Item		Standard	
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item		SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)	30 / 25		60 / 60
PCB Edge (mm)	3		5
PCB Loading Weight (kg)	3		8
PCB Stacking Weight (kg)	50		
Slot of Rack (ea)	20 (±15mm)	30 (±10mm)	10 (±20mm)
Pitch	1~4 (30~120mm)	1~4 (20~80mm)	1~4 (40~160mm)
Conveyor Belt	Flat edge belt		Pin chain
Conveyor Speed (mm/sec) *	200		100
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
120pi Cooling Fans	Conveyor Part - 4ea Rack Part - 12ea at Front & Rear, Ventilation 2ea		
Mode	FIFO, LIFO / By pass		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 color)		
Color *	SR RAL 7035 : NON ESD (Samhwa Paints)		
Electricity Consumption	640W		

Option Spec.				
Item		CODE No.	Option	
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	Rack Part	1~200 / Analog / 1ea
			Conveyor Part	1~200 / Analog / 1ea
	POST-PROCESS		Rack Part	1~100 / Analog / 1ea
			Conveyor Part	1~100 / Analog / 1ea
Width Adjustment *		O-100-HW0-0205	Rack Part	Auto / 1ea
			Conveyor Part	Auto / 1ea
Intelligent Function		O-100-SW0-0100	-	
Width Synchronization		O-100-SW0-0200	via RS-485	
Line Control		O-200-LC0-0100	Hermes	
		O-200-LC0-0200	Smart kit (LAN communication PLC)	
Color *		O-400-CO0-0100	ESD powder coating(RAL 7035)	
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).				

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Combi - Magazine

Combi - Rack

Tower

Tower - Cooling

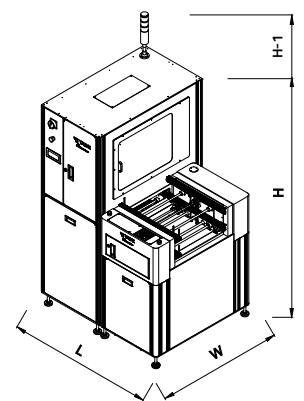
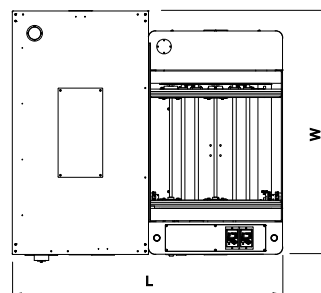
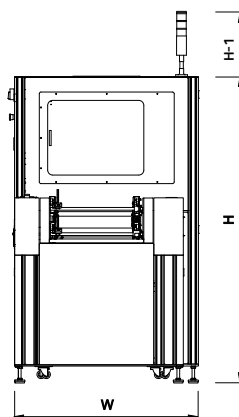
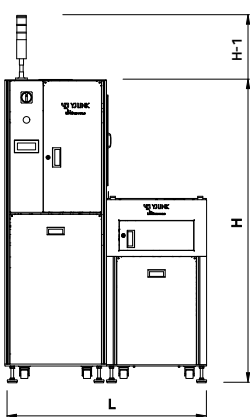
Tower + Conveyor - Cooling

Tower + NG Conveyor

Tower + NG Conveyor



This unit is located after SPI/AOI Machine to inspect NG boards in the line. The operator can CALL NG boards in the rack onto the 2nd layer of the conveyor part to inspect them visually while the GOOD boards are being passed through to the next machine without any interruptions.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM2-0400		YTN-1M 00	M	981	880	1815	2200	315
M-10C-YX2-0400		YTN-1X 00	XL	1210	1100	1815	2200	396

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
PCB Stacking Weight (kg)	50	
Slot of Rack (ea)	20 (±15mm)	
Pitch	1	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	FIFO, LIFO / By pass / NG Stacking	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (Samhwa Paints)	
Air Supply	0.5Mpa(5bar)	
Air Usage	11.30 ℓ/min	
Electricity Consumption	375W	

Option Spec.			
Item	CODE No.	Option	
Conveyor Speed (mm/sec) *	O-100-HW0-0104	Rack Part	1~200 / Analog/ 1ea
		Conveyor Part	1~200 / Analog/ 2ea
Width Adjustment *	O-100-HW0-0205	Rack Part	Auto / 1ea
		Conveyor Part	Auto / 1ea
Width Synchronization	O-100-SW0-0200	via RS-485	
NG Communication	O-100-SW0-0300	via RS-232	
Line Control	O-200-LC0-0100	Hermes	
	O-200-LC0-0200	Smart kit (LAN communication PLC)	
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)	
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Combi - Magazine

Combi - Rack

Tower

Tower - Cooling

Tower + Conveyor - Cooling

Tower + NG Conveyor

BOARD HANDLING

LINK / WORK SERIES

[M-10C-Y()3 SERIES &
M-50C-Y()3 SERIES]

Connection Conveyor	.....	P. 48
Connection Conveyor - Cooling	.....	P. 50
Connection Conveyor - Barcode Manual Bracket (Single sided)	.....	P. 52
Connection Conveyor - Barcode Manual Bracket (Double sided)	.....	P. 54
Work Conveyor - Inspection	.....	P. 56
Work Conveyor - Work	.....	P. 58
NG Conveyor	.....	P. 60
Connection Conveyor - Sky Line	.....	P. 62
Connection Conveyor - Pallet Return Line	.....	P. 64



P. 48

➤ **Connection Conveyor**



P. 50

➤ **Connection Conveyor
- Cooling**



P. 52

➤ **Connection Conveyor
- Barcode Manual Bracket
(Single sided)**



P. 54

➤ **Connection Conveyor
- Barcode Manual Bracket
(Double sided)**



P. 56

➤ **Work Conveyor - Inspection**



P. 58

➤ **Work Conveyor - Work**



P. 60

➤ **NG Conveyor**



P. 62

➤ **Connection Conveyor
- Sky Line**



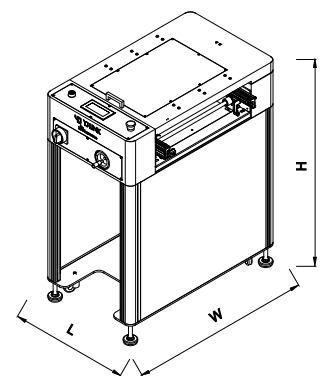
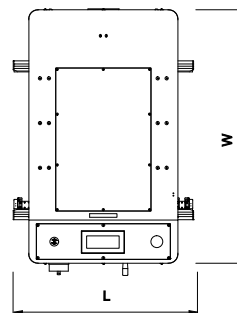
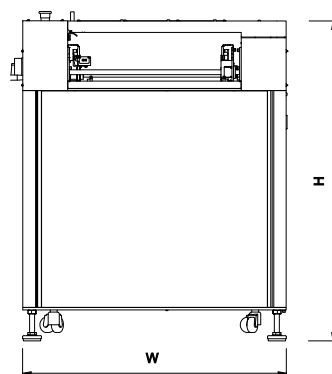
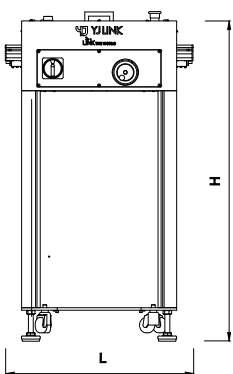
P. 64

➤ **Connection Conveyor
- Pallet Return Line**

Connection Conveyor



Using SMEMA interface, this unit is able to create links between any SMT machines.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0101	M-50C-YM3-0101	YCC-1M 00	M	500	640	1030	90
M-10C-YX3-0101	M-50C-YX3-0101	YCC-1X 00	XL	500	850	1030	110
	M-50C-YU3-0106	YCC-1U 00	UX	700	1000	1030	145
M-10C-YM3-0102	M-50C-YM3-0102	YCC-1M 01	M	1000	640	1030	140
M-10C-YX3-0102	M-50C-YX3-0102	YCC-1X 01	XL	1000	850	1030	165
	M-50C-YU3-0102	YCC-1U 01	UX	1000	1000	1030	190

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item	SMT	POST-PROCESS	
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60	
PCB Edge (mm)	3	5	
PCB Loading Weight (kg)	3	8	
Conveyor Belt	Flat edge belt		Pin chain
Conveyor Speed (mm/sec) *	200		100
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Mode	By pass		
Length (mm) / Segment (ea)	500 / 1	700 / 1	1000 / 2
Programmatically, it is standard to use 1 segment.			
Top Cover Type	Sliding		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Buzzer		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Electricity Consumption	80W		

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	500(L)mm : 1~200 / Analog / 1ea
			1000(L)mm : 1~200 / Analog / 2ea
	POST-PROCESS		500(L)mm : 1~100 / Analog / 1ea
			700(L)mm : 1~100 / Analog / 1ea
			1000(L)mm : 1~100 / Analog / 2ea
Width Adjustment *		O-100-HW0-0205	Auto
Width Synchronization		O-100-SW0-0200	via RS-485
Line Control		O-200-LC0-0100	Hermes
		O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *		O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

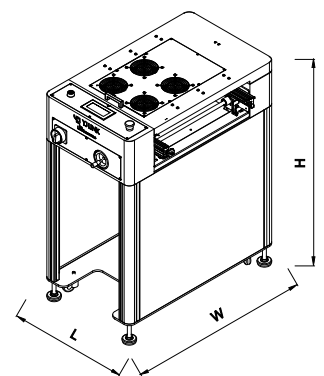
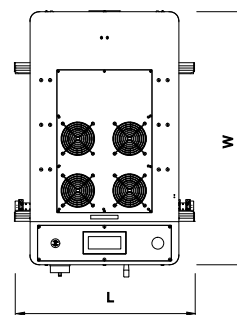
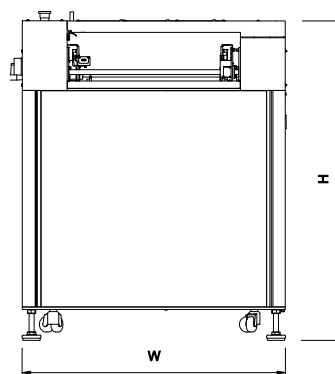
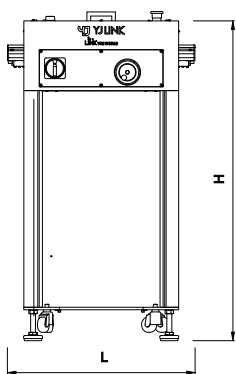
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

Connection Conveyor - Cooling



This unit links between SMT machines and cools down PCBs behind Oven in SMT line.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0201	M-50C-YM3-0201	YCC-1M 20	M	500	640	1030	95
M-10C-YX3-0201	M-50C-YX3-0201	YCC-1X 20	XL	500	850	1030	115
	M-50C-YU3-0206	YCC-1U 20	UX	700	1000	1030	150
M-10C-YM3-0202	M-50C-YM3-0202	YCC-1M 21	M	1000	640	1030	145
M-10C-YX3-0202	M-50C-YX3-0202	YCC-1X 21	XL	1000	850	1030	175
	M-50C-YU3-0202	YCC-1U 21	UX	1000	1000	1030	200

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item	SMT	POST-PROCESS	
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60	
PCB Edge (mm)	3	5	
PCB Loading Weight (kg)	3	8	
Conveyor Belt	Flat edge belt		Pin chain
Conveyor Speed (mm/sec) *	200		100
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Mode	By pass		
Length (mm) / Segment (ea)	500 / 1	700 / 1	1000 / 2
Programmatically, it is standard to use 1 segment.			
120pi Cooling Fans (ea)	4	4	8
Top Cover Type	Sliding		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Buzzer		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Electricity Consumption	256W		

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	500(L)mm : 1~200 / Analog / 1ea
			1000(L)mm : 1~200 / Analog / 2ea
	POST-PROCESS		500(L)mm : 1~100 / Analog / 1ea
			700(L)mm : 1~100 / Analog / 1ea
			1000(L)mm : 1~100 / Analog / 2ea
Width Adjustment *		O-100-HW0-0205	Auto
Width Synchronization		O-100-SW0-0200	via RS-485
Line Control		O-200-LC0-0100	Hermes
		O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *		O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

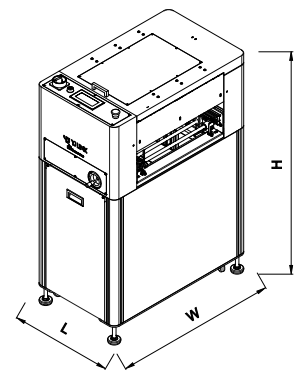
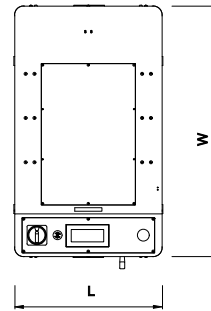
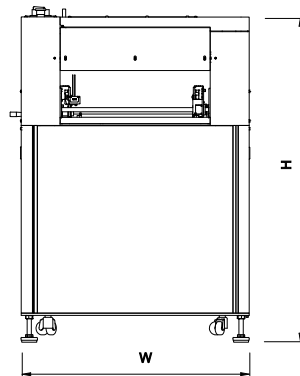
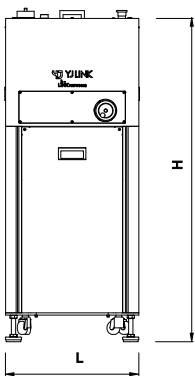
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

Barcode Manual Bracket Connection Conveyor - (Single sided)



This unit has manual scanner bracket inside, which is necessary for reading 1D/2D codes of labelling or marking.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0301		YCC-1M 40	M	500	640	1213	100
M-10C-YX3-0301		YCC-1X 40	XL	500	850	1213	120
M-10C-YM3-0302		YCC-1M 41	M	1000	640	1213	130
M-10C-YX3-0302		YCC-1X 41	XL	1000	850	1213	150

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By pass	
Length (mm) / Segment (ea)	500 / 1	1000 / 2
Programmatically, it is standard to use 1 segment.		
Top Cover Type	Sliding	
Scanner Bracket Position	Top	Bottom
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Buzzer	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption	80W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	500(L)mm : 1~200 / Analog / 1ea
		1000(L)mm : 1~200 / Analog / 2ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Scanner Connection	O-100-SW0-0400	via RS-232
Trigger	O-100-SW0-0500	-
Trigger+Read / No read	O-100-SW0-0600	-
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

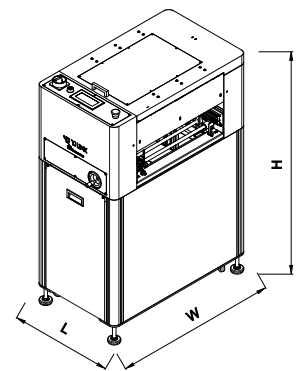
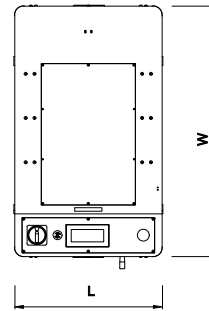
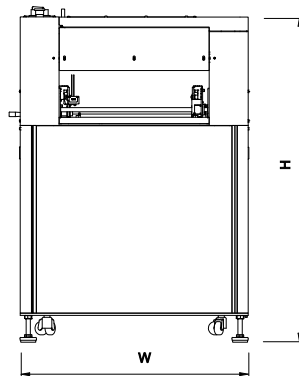
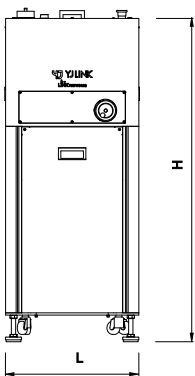
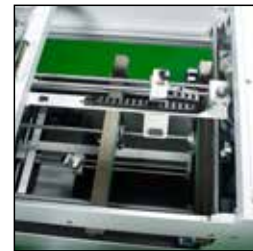
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

Barcode Manual Bracket Connection Conveyor - (Double sided)



This unit has manual scanner bracket inside, which is necessary for reading 1D/2D codes of labelling or marking.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0401		YCC-1M 50	M	500	640	1213	105
M-10C-YX3-0401		YCC-1X 50	XL	500	850	1213	125
M-10C-YM3-0402		YCC-1M 51	M	1000	640	1213	135
M-10C-YX3-0402		YCC-1X 51	XL	1000	850	1213	155

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By pass	
Length (mm) / Segment (ea)	500 / 1	1000 / 2
Programmatically, it is standard to use 1 segment.		
Top Cover Type	Sliding	
Scanner Bracket Position	Both	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Buzzer	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption	80W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	500(L)mm : 1~200 / Analog / 1ea
		1000(L)mm : 1~200 / Analog / 2ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Scanner Connection	O-100-SW0-0400	via RS-232
Trigger	O-100-SW0-0500	-
Trigger+Read / No read	O-100-SW0-0600	-
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

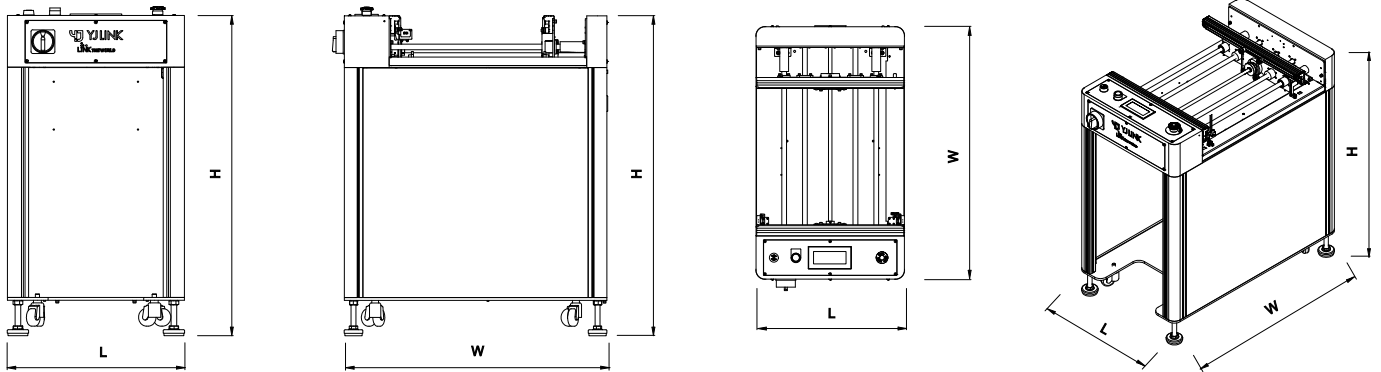
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

Work Conveyor - Inspection



This unit links SMT machine and allows inspection on PCBs.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0701	M-50C-YM3-0701	YWC-1M 00	M	500	640	950	85
M-10C-YX3-0701	M-50C-YX3-0701	YWC-1X 00	XL	500	850	950	97
	M-50C-YU3-0706	YWC-1U 00	UX	700	1000	950	130
M-10C-YM3-0702	M-50C-YM3-0702	YWC-1M 01	M	1000	640	950	125
M-10C-YX3-0702	M-50C-YX3-0702	YWC-1X 01	XL	1000	850	950	150
	M-50C-YU3-0702	YWC-1U 01	UX	1000	1000	950	175
M-10C-YM3-0703	M-50C-YM3-0703	YWC-1M 02	M	1500	640	950	200
M-10C-YX3-0703	M-50C-YX3-0703	YWC-1X 02	XL	1500	850	950	215
	M-50C-YU3-0703	YWC-1U 02	UX	1500	1000	950	235

Standard Spec.			
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		M	XL UX
Min.PCB (L X W) (mm)		70 X 50	
Max.PCB (L X W) (mm)		330 X 250	460 X 460 610 X 610
Item		SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)		30 / 25	60 / 60
PCB Edge (mm)		3	5
PCB Loading Weight (kg)		3	8
Conveyor Belt		Flat edge belt	Pin chain
Conveyor Speed (mm/sec) *		200	100
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Mode		By pass / Inspection	
Length (mm) / Segment (ea)	SMT	500 / 1	1000 / 2 1500 / 3
	POST-PROCESS	M, XL	500 / 1 1000 / 2 1500 / 3
		UX	700 / 1 1000 / 2 1500 / 2
Programmatically, it is standard to use 1 segment.			
Inspection Segment		In	Center Out
Completion Switch		Button Type	
Width Adjustment *		Manual	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Buzzer	
Color *		SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption		80W	

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	500(L)mm : 1~200 / Analog / 1ea
			1000(L)mm : 1~200 / Analog / 2ea
			1500(L)mm : 1~200 / Analog / 3ea
	POST-PROCESS		500(L)mm : 1~100 / Analog / 1ea
			700(L)mm : 1~100 / Analog / 1ea
			1000(L)mm : 1~100 / Analog / 2ea
			1500(L)mm : 1~100 / Analog / 3ea
			1500(L)mm : 1~100 / Analog / 2ea
Width Adjustment *		O-100-HW0-0205	Auto
Width Synchronization		O-100-SW0-0200	via RS-485
Line Control		O-200-LC0-0100	Hermes
		O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *		O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

Connection Conveyor - Sky Line

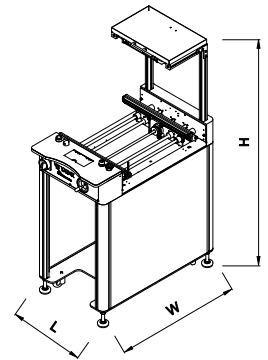
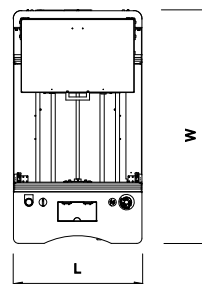
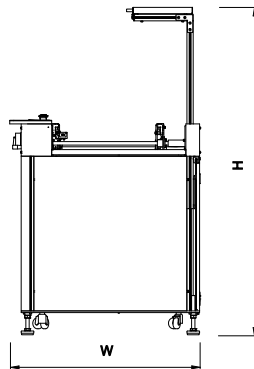
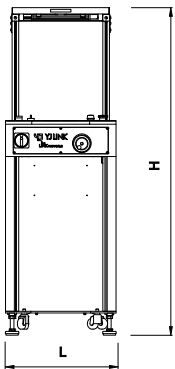
Connection Conveyor

- Pallet Return Line

Work Conveyor - Work



This unit links SMT machine and allows inspection on PCBs.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0801	M-50C-YM3-0801	YWC-1M 20	M	500	695	1665	95
M-10C-YX3-0801	M-50C-YX3-0801	YWC-1X 20	XL	500	905	1665	107
	M-50C-YU3-0806	YWC-1U 20	UX	700	1055	1665	140
M-10C-YM3-0802	M-50C-YM3-0802	YWC-1M 21	M	1000	695	1665	135
M-10C-YX3-0802	M-50C-YX3-0802	YWC-1X 21	XL	1000	905	1665	160
	M-50C-YU3-0802	YWC-1U 21	UX	1000	1055	1665	185
M-10C-YM3-0803	M-50C-YM3-0803	YWC-1M 22	M	1500	695	1665	210
M-10C-YX3-0803	M-50C-YX3-0803	YWC-1X 22	XL	1500	905	1665	225
	M-50C-YU3-0803	YWC-1U 22	UX	1500	1055	1665	245

Standard Spec.			
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		M	XL UX
Min.PCB (L X W) (mm)		70 X 50	
Max.PCB (L X W) (mm)		330 X 250	460 X 460 610 X 610
Item		SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)		30 / 25	60 / 60
PCB Edge (mm)		3	5
PCB Loading Weight (kg)		3	8
Conveyor Belt		Flat edge belt	Pin chain
Conveyor Speed (mm/sec) *		200	100
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Mode		By pass / Inspection	
Length (mm) / Segment (ea)	SMT	500 / 1	1000 / 2 1500 / 2
	POST-PROCESS	M, XL	500 / 1 1000 / 2 1500 / 3
		UX	700 / 1 1000 / 2 1500 / 2
Programmatically, it is standard to use 1 segment.			
Inspection Segment		In	Center Out
Completion Switch		Button Type	
Working Accessory		Illumination + Shelf	
Working Table (mm)		200	
Width Adjustment *		Manual	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Buzzer	
Color *		SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption		90W	

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	500(L)mm : 1~200 / Analog / 1ea
			1000(L)mm : 1~200 / Analog / 2ea
			1500(L)mm : 1~200 / Analog / 3ea
	POST-PROCESS		500(L)mm : 1~100 / Analog / 1ea
			700(L)mm : 1~100 / Analog / 1ea
			1000(L)mm : 1~100 / Analog / 2ea
			1500(L)mm : 1~100 / Analog / 3ea
			1500(L)mm : 1~100 / Analog / 2ea
Width Adjustment *		O-100-HW0-0205	Auto
Width Synchronization		O-100-SW0-0200	via RS-485
Line Control		O-200-LC0-0100	Hermes
		O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *		O-400-CO0-0100	ESD powder coating(RAL7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

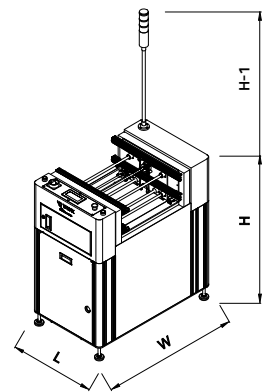
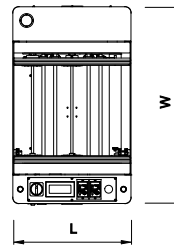
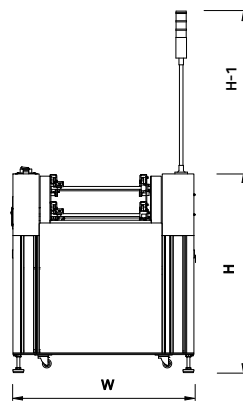
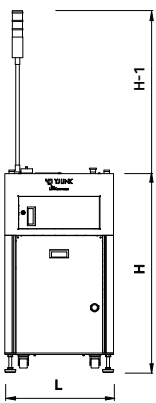
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

NG Conveyor



This unit automatically separates GOOD boards and NG boards while allowing visual inspection for NG PCBs without any interruption on GOOD board flow.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM3-0901	M-50C-YM3-0901	YNC-1M 00	M	500	870	1098	2000	137
M-10C-YX3-0901	M-50C-YX3-0901	YNC-1X 00	XL	600	1000	1098	2000	179
	M-50C-YU3-0901	YNC-1U 00	UX	700	1150	1098	2000	221

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item	SMT	POST-PROCESS	
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60	
PCB Edge (mm)	3	5	
PCB Loading Weight (kg)	3	8	
Conveyor Belt	Flat edge belt		Pin chain
Conveyor Speed (mm/sec) *	200	100	
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Mode	By pass / Inspection		
Length (mm) / Segment (ea)	500 / 1	600 / 1	700 / 1
Completion Switch	Button Type		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower lamp (3 colors)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa(5bar)		
Air Usage	5.30 ℓ/min		
Electricity Consumption	120W		

Option Spec.			
Item		CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	1~200 / Analog / 2ea
	POST-PROCESS		1~100 / Analog / 2ea
Width Adjustment *		O-100-HW0-0205	Auto
Width Synchronization		O-100-SW0-0200	via RS-485
Line Control		O-200-LC0-0100	Hermes
		O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *		O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

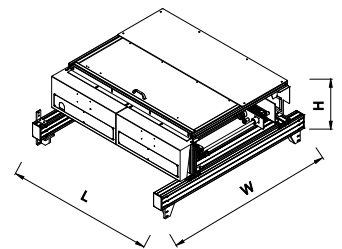
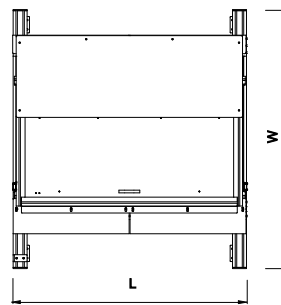
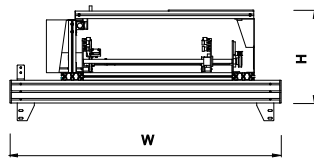
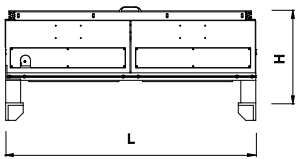
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

Connection Conveyor - Sky Line



The sky line can be used for operators' passage in SMT lines.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
M-10C-YM3-0504		YCC-1M 60	M	~ 2000	750	250	150
M-10C-YX3-0504		YCC-1X 60	XL	~ 2000	950	250	180

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top / Bottom Clearance	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	8	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By Pass	
Length (mm) / Segment (ea)	2000 / 2	
Width Adjustment *	Manual	
Electricity Consumption	180W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Add Segment	O-100-HW3-1000	-

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

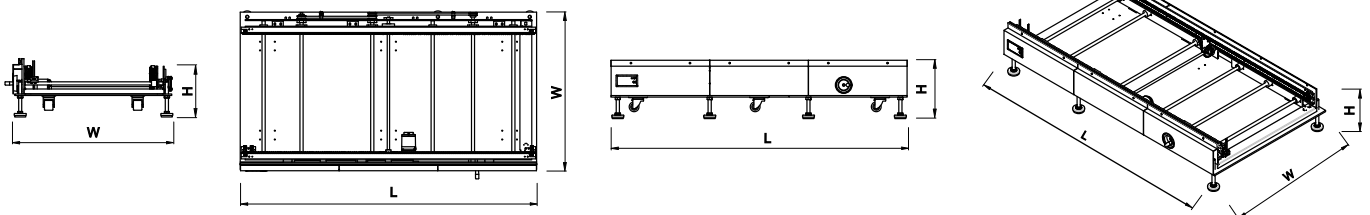
Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

Connection Conveyor - Pallet Return Line



The pallet return line provides automated return of empty pallets. It is completely automated with PLC control and can convey pallets efficiently and fast.



CODE No.		MODEL	SIZE	DIMENSION (mm)			WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	
	M-50C-YM3-0607	YCC-1M 71	M	~ 1500	443	300	120
	M-50C-YX3-0607	YCC-1X 71	XL	~ 1500	653	300	150
	M-50C-YU3-0607	YCC-1U 71	UX	~ 1500	803	300	190

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
		610 X 610
Item	POST-PROCESS	
PCB Top / Bottom Clearance	30 / 25	
PCB Edge (mm)	5	
PCB Loading Weight (kg)	8	
Conveyor Belt	Pin Chain	
Conveyor Speed (mm/sec) *	100	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By Pass	
Length (mm) / Segment (ea)	1500 / 1	
Width Adjustment *	Manual	
Max. Bottom Clearance (mm)	300	
Min. Bottom Clearance (mm)	190 (No caster)	
Electricity Consumption	180W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~100 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Add Segment	O-100-HW3-1000	-

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Connection Conveyor

Connection Conveyor - Cooling

Connection Conveyor-Barcode Manual Bracket (Single sided)

Connection Conveyor-Barcode Manual Bracket (Double sided)

Work Conveyor - Inspection

Work Conveyor - Work

NG Conveyor

Connection Conveyor - Sky Line

Connection Conveyor - Pallet Return Line

BOARD HANDLING

CONVEYOR SERIES

[M-10C-Y()4 SERIES &
M-50C-Y()4 SERIES]



P. 68

➤ Destacker - Knife



P. 76

➤ Stacker



P. 84

➤ Gate Conveyor - Down/Up



P. 92

➤ Elevator Unit - Sky Line

Destacker - Knife	.....	P. 68
Destacker - Clamp	.....	P. 70
Destacker - Clamp(Batch)	.....	P. 72
Vacuum Loader - Edge	.....	P. 74
Stacker	.....	P. 76
PCB Cleaner - Vacuum	.....	P. 78
PCB Cleaner - Vacuum + Sticky roller	.....	P. 80
Gate Conveyor - Telescope	.....	P. 82
Gate Conveyor - Down/Up	.....	P. 84
Vertical Turn	.....	P. 86
Horizontal Turn	.....	P. 88
Shuttle Conveyor	.....	P. 90
Elevator Unit - Sky Line	.....	P. 92
Elevator Unit - Pallet Return Line	.....	P. 94



P. 70

➤ Destacker - Clamp



P. 72

➤ Destacker - Clamp(Batch)



P. 74

➤ Vacuum Loader - Edge



P. 78

➤ PCB Cleaner - Vacuum



P. 80

➤ PCB Cleaner - Vacuum
+ Sticky roller



P. 82

➤ Gate Conveyor - Telescope



P. 86

➤ Vertical Turn



P. 88

➤ Horizontal Turn



P. 90

➤ Shuttle Conveyor



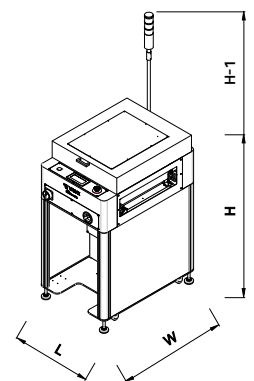
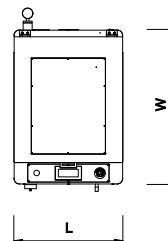
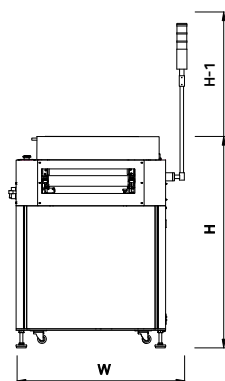
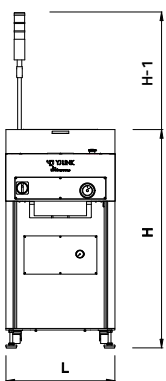
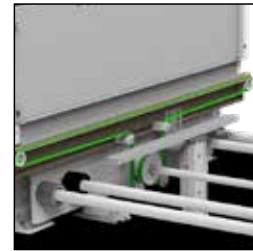
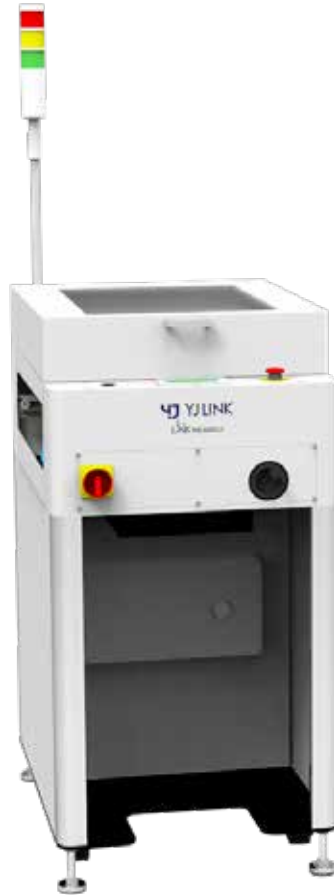
P. 94

➤ Elevator Unit - Pallet Return Line

Destacker - Knife



Using “Knife Cylinder”, this unit unstacks bare boards one by one



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0100		YDL-1X 00	XL	600	970	1200	2000	193

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	XL	
Min.PCB (L X W) (mm)	70 X 70	
Max.PCB (L X W) (mm)	460 X 460	
Item	SMT	
PCB Top/Bottom Clearance (mm)	00 / 00	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
PCB Stacking Weight (kg)	20	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	1.0~ 2.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By pass / Bare board loading	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa (5bar)	
Air Usage	0.74 ℓ/min	
Electricity Consumption	120W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

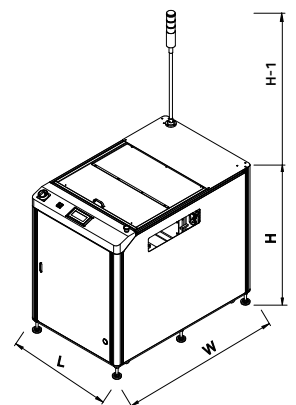
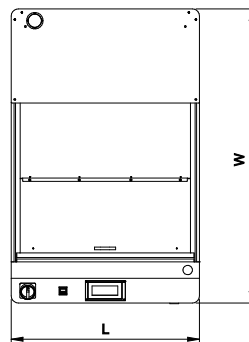
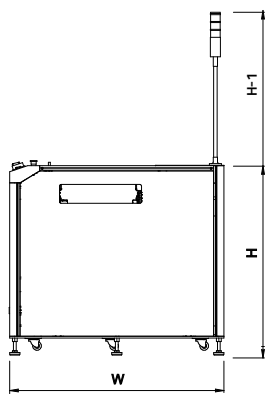
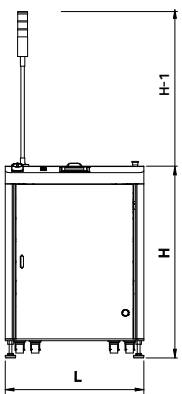
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Destacker - Clamp



Using “Side Clamp”, this unit unstacks bare boards one by one



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YL4-0200		YDL-1L 10	L	600	1040	1105	2000	360
M-10C-YX4-0200		YDL-1X 10	XL	800	1250	1105	2000	400

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	L	XL
Min.PCB (L X W) (mm)	70 X 70	
Max.PCB (L X W) (mm)	440 X 330	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	00 / 00	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
PCB Stacking Weight (kg)	50	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	1.0 ~ 2.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By pass / Bare board loading	
Top Cover Type	Sliding	
Width Adjustment	Auto	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa (5bar)	
Air Usage	10.0 ℓ/min	
Electricity Consumption	400W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Vacuum Unit	O-100-HW4-0300	-
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

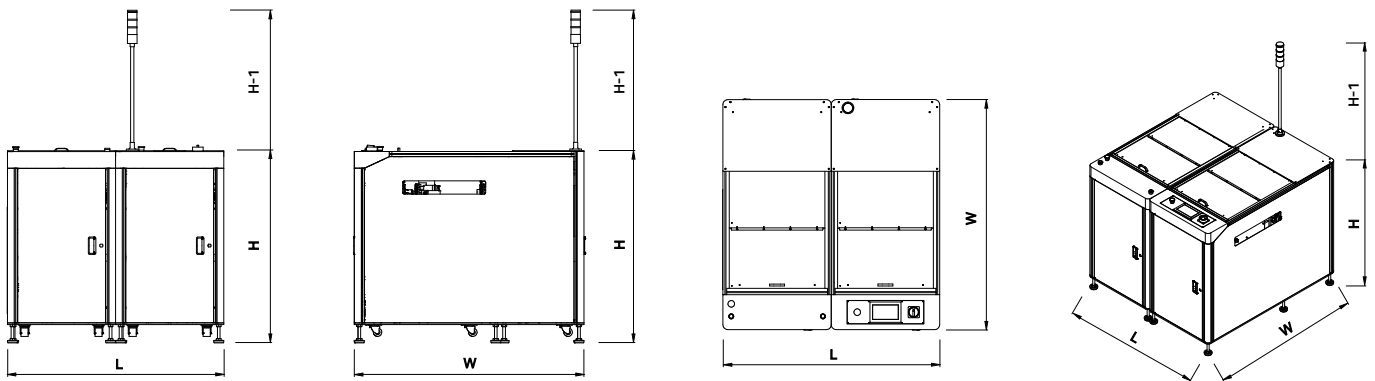
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Destacker - Clamp(Batch)



With the buffer station designed to accommodate more PCB batches, operators may utilize time more efficiently.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YL4-0201		YDL-1L 11	L	1200	1250	1145	2000	440
M-10C-YX4-0201		YDL-1X 11	XL	1300	1380	1145	2000	490

Standard Spec.	
Item	Standard
Line Flow	Left to Right Right to Left
Fixed Rail	Front Rear
Pass Line (mm)	950±20 900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz 110V±(10%) & 50 ~ 60Hz
PCB Size	L XL
Min.PCB (L X W) (mm)	70 X 70
Max.PCB (L X W) (mm)	440 X 330 460 X 460
Item	SMT
PCB Top/Bottom Clearance (mm)	00 / 00
PCB Edge (mm)	3
PCB Loading Weight (kg)	3
PCB Stacking Weight (kg)	Batch
	Destacker
Batch Slot (ea)	21 50
Conveyor Belt	7
Conveyor Speed (mm/sec) *	Flat edge belt
PCB Thickness (mm)	200
PCB Color	1.0 ~ 2.0
PCB In/Out Sensor	Green
Mode	Single sensor
Top Cover Type	By pass / Bare board loading
Width Adjustment	Sliding
Interface	Auto
Smema Cable	SMEMA Pin No. 1, 2, 3, 4, 5, 6
Alarm	3m / 1 ea
Color *	Tower lamp (3 color)
Air Supply	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)
Air Usage	0.5Mpa (5bar)
Electricity Consumption	10.0 ℓ/min
	260W

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	Batch
		Destacker
Vacuum Unit	O-100-HW4-0300	1~200 / Analog / 1ea 1~200 / Analog / 1ea
Width Synchronization	O-100-SW0-0200	-
Line Control	O-200-LC0-0100	via RS-485
	O-200-LC0-0200	Hermes
Color *	O-400-CO0-0100	Smart kit (LAN communication PLC)
		ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

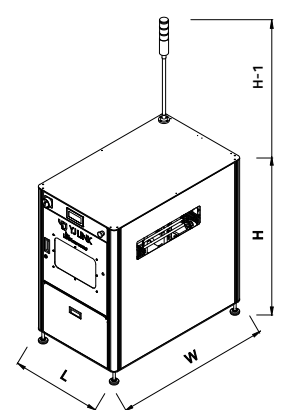
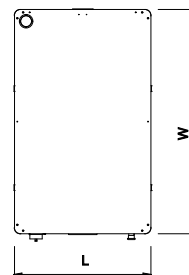
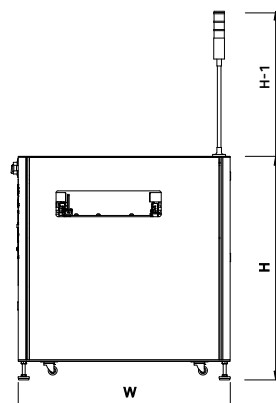
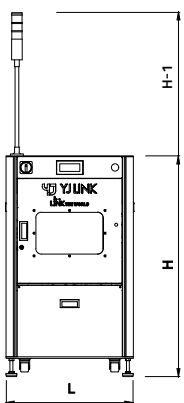
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Vacuum Loader - Edge



Using “Edge vacuum pad”, this unit unstacks bare boards one by one



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM4-0300		YVL-1M 00	M	600	940	1413	2000	285
M-10C-YX4-0300		YVL-1X 00	XL	700	1150	1413	2000	315

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	00 / 00	
PCB Edge (mm)	6	
PCB Loading Weight (kg)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By pass / Bare board loading	
Vacuum Pad	Auto Blocked	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa (5bar)	
Air Usage	7.0 ℓ/min	
Electricity Consumption	540W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 2ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

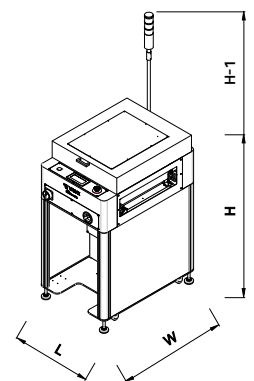
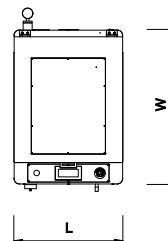
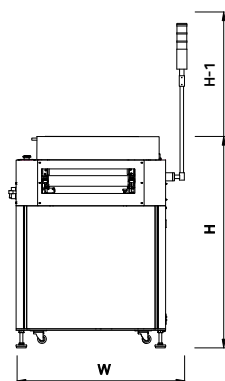
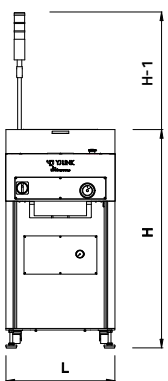
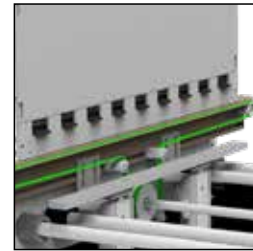
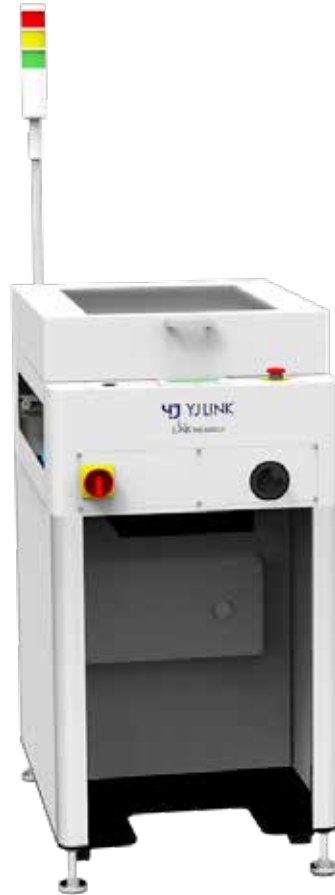
Shuttle Conveyor

Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line



Using cylinder, it lifts up a bare board for stacking up as an unloader of offline laser marking machine.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0400		YPU-1X 00	XL	600	970	1200	2000	176

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	XL	
Min.PCB (L X W) (mm)	70 X 70	
Max.PCB (L X W) (mm)	460 X 460	
Item	SMT	
PCB Top/Bottom Clearance (mm)	00 / 00	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
PCB Stacking Weight (kg)	20	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	Bare board stacking	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower lamp (3 color)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa (5bar)	
Air Usage	0.74 ℓ/min	
Electricity Consumption	120W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 2ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

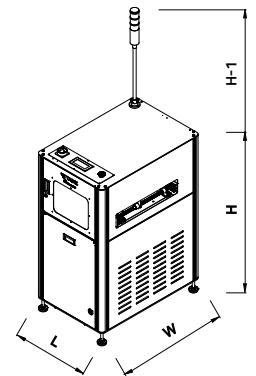
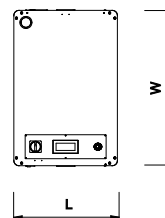
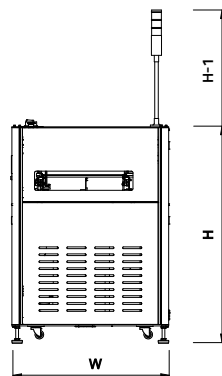
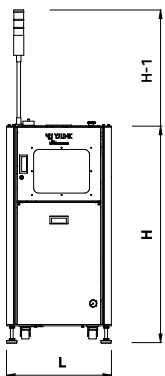
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

PCB Cleaner - Vacuum



Removes dust and particle on a PCB by vacuum and ionizer while being transferred to next process.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0501		YPC-1X 00	XL	600	900	1243	2000	212

Standard Spec.		Standard	
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		XL	
Min.PCB (L X W) (mm)		70 X 50	
Max.PCB (L X W) (mm)		460 X 460	
Item		SMT	
PCB Top/Bottom Clearance (mm)	Cleaning	00 / 00	
	By pass	30 / 25	
PCB Edge (mm)		3	
PCB Loading Weight (kg)		3	
Conveyor Belt		Flat edge belt	
Conveyor Speed (mm/sec) *		200	
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Mode		By pass (Manual) / Cleaning	
Ionizer Brand		PANASONIC	
Ionizer Position		Output	
Dust Collector		Inner Ring Blower	
Width Adjustment *		Manual	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Tower Lamp (3 Colors)	
Color *		SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply		0.5Mpa(5bar)	
Air Usage		6.0 ℓ/min	
Electricity Consumption		1350 W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

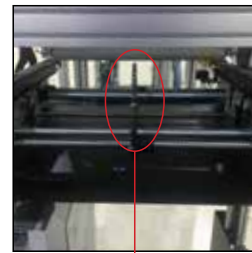
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

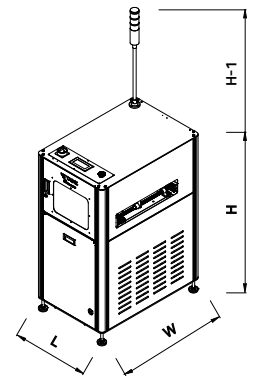
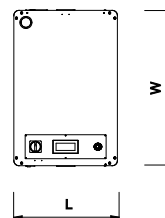
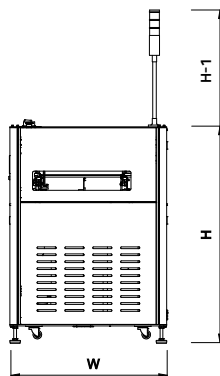
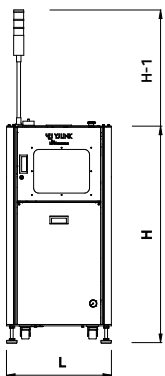
PCB Cleaner - Vacuum + Sticky roller



Removes dust and particle on a PCB by vacuum, sticky roller and ionizer while being transferred to next process.



Support Roller



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0503		YPC-1X 01	XL	600	900	1243	2000	162

Standard Spec.			
Item		Standard	
Line Flow		Left to Right	Right to Left
Fixed Rail		Front	Rear
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size		XL	
Min.PCB (L X W) (mm)		70 X 100	
Max.PCB (L X W) (mm)		460 X 460	
Item		SMT	
PCB Top/Bottom Clearance (mm)	Cleaning	00 / 00	
	By pass	30 / 25	
PCB Edge (mm)		3	
PCB Loading Weight (kg)		3	
Conveyor Belt		Flat edge belt	
Conveyor Speed (mm/sec) *		200	
PCB Thickness (mm)		0.6 ~ 4.0	
PCB Color		Green	
PCB In/Out Sensor		Single sensor	
Mode		By pass (Manual) / Cleaning	
Ionizer Brand		PANASONIC	
Ionizer Position		Output	
Support Roller Position		Bottom	
Dust Collector		Inner Ring Blower + Sticky Roller	
Width Adjustment *		Manual	
Interface		SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable		3m / 1 ea	
Alarm		Tower Lamp (3 Colors)	
Color *		SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply		0.5Mpa(5bar)	
Air Usage		6.0 ℓ/min	
Electricity Consumption		1350 W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

Elevator Unit - Sky Line

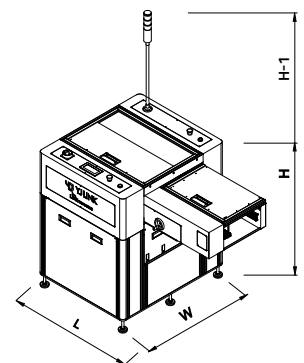
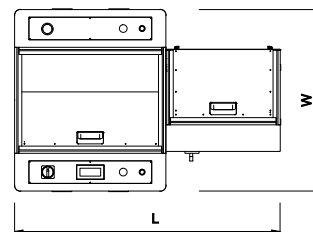
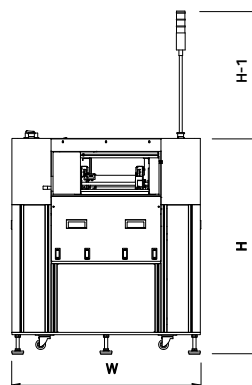
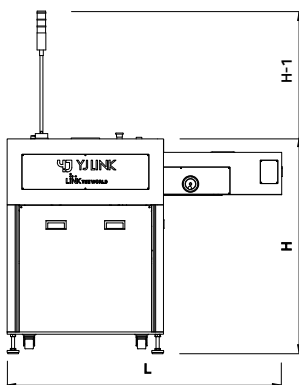
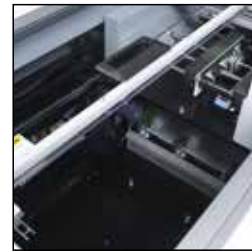
Elevator Unit - Pallet Return Line

M-10C-Y()4 Series & M-50C-Y()4 Series

Gate Conveyor - Telescope



In middle of SMT line, this unit allows operators to pass through the line, without interrupting PCB flow.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0601	M-50C-YX4-0601	YGC-1X 00	XL	1405(805+600)	1170	1100	2000	315
	M-50C-YU4-0601	YGC-1U 00	UX	1405(805+600)	1320	1100	2000	350

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	XL	UX
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	460 X 460	610 X 610
Item	SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60
PCB Edge (mm)	3	5
PCB Loading Weight (kg)	3	8
Conveyor Belt	Flat edge belt	Pin chain
Conveyor Speed (mm/sec) *	200	100
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Standard Length (mm)	805(Body) + 600(Passing Rail)	
Safety Sensor	Photo Sensors on Body Part	
Passing Rail Cover	Sliding Cover	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower Lamp (3 Colors)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption	275W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	1~200 / Analog / 1ea
	POST-PROCESS	1~100 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

Elevator Unit - Sky Line

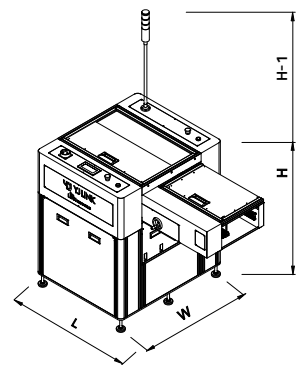
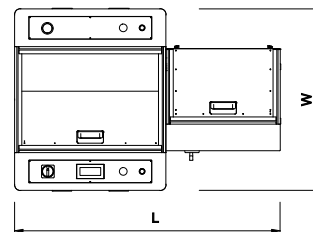
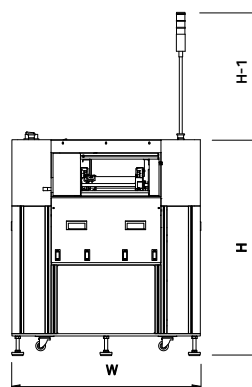
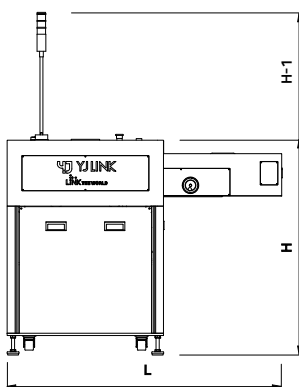
Elevator Unit - Pallet Return Line

M-10C-Y()4 Series & M-50C-Y()4 Series

Gate Conveyor - Down/Up



In middle of SMT line, this unit allows operators to pass through the line, without interrupting PCB flow.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0602	M-50C-YX4-0602	YGC-1X 10	XL	1405(805+600)	1170	1100	2000	360
	M-50C-YU4-0602	YGC-1U 10	UX	1605(905+700)	1320	1100	2000	395

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	XL	UX
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	460 X 460	610 X 610
Item	SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60
PCB Edge (mm)	3	5
PCB Loading Weight (kg)	3	8
Conveyor Belt	Flat edge belt	Pin chain
Conveyor Speed (mm/sec) *	200	100
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Standard Length (mm)	805(Body) + 600(Passing Rail)	
Safety Sensor	Photo Sensors on Body Part	
Passing Rail Cover	Sliding Cover	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower Lamp (3 Colors)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa(5bar)	
Air Usage	9.4 ℓ/min	
Electricity Consumption	355W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	1~200 / Analog / 2ea
	POST-PROCESS	1~100 / Analog / 2ea
Width Adjustment *	O-100-HW0-0205	Auto / 2ea
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

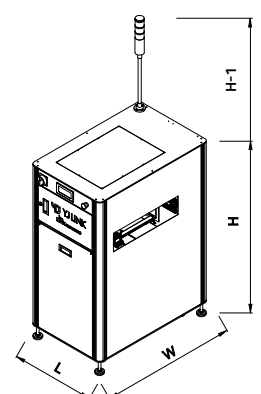
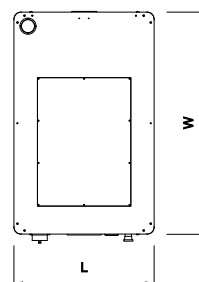
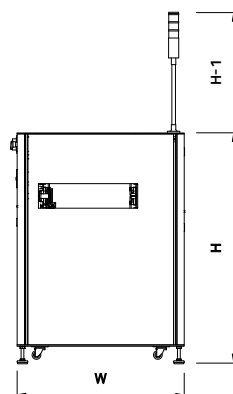
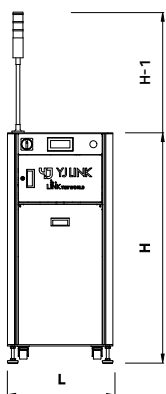
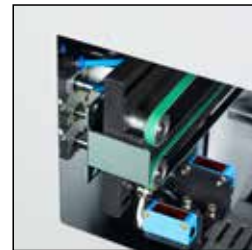
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Vertical Turn



This unit flips the PCBs for double sided assembly.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YX4-0700	M-50C-YX4-0700	YVT-1X 00	XL	535	950	1313	2000	145
	M-50C-YU4-0700	YVT-1U 00	UX	680	1125	1313	2000	180

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	XL	UX
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	460 X 460	610 X 610
Item	SMT	POST-PROCESS
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60
PCB Edge (mm)	3	5
PCB Loading Weight (kg)	3	8
Conveyor Belt	Flat edge belt	Pin chain
Conveyor Speed (mm/sec) *	200	100
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Mode	By pass / Flip and Pass PCB	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower Lamp (3 Colors)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa(5bar)	
Air Usage	0.8 ℓ/min	
Electricity Consumption	265W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	1~200 / Analog / 1ea
	POST-PROCESS	1~100 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

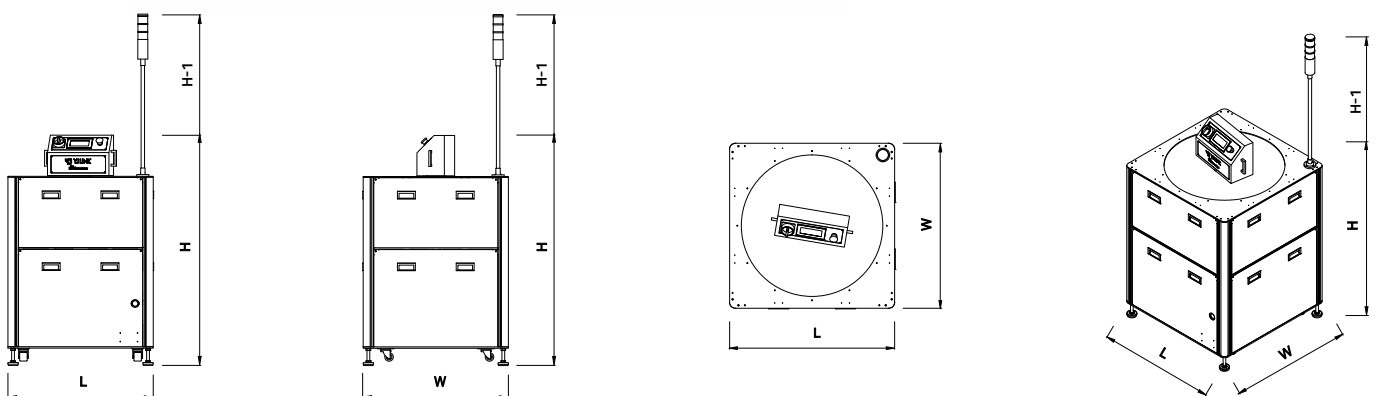
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Horizontal Turn



This unit turns PCBs' flow direction clockwise and counter clockwise



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-10C-YM4-0800	M-50C-YM4-0800	YHT-1M 00	M	640	640	1100	2000	155
M-10C-YX4-0800	M-50C-YX4-0800	YHT-1X 00	XL	840	840	1100	2000	205
	M-50C-YU4-0800	YHT-1U 00	UX	1000	1000	1100	2000	255

Standard Spec.			
Item	Standard		
Line Flow	Left to Right	Right to Left	
Fixed Rail	Front	Rear	
Pass Line (mm)	950±20	900±20	
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz	
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item	SMT	POST-PROCESS	
PCB Top/Bottom Clearance (mm)	30 / 25	60 / 60	
PCB Edge (mm)	3	5	
PCB Loading Weight (kg)	3	8	
Conveyor Belt	Flat edge belt	Pin chain	
Conveyor Speed (mm/sec) *	200	100	
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Mode	By pass / Horizontal Turn		
Turning Direction	Clockwise / Counter Clockwise		
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower Lamp (3 Colors)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa(5bar)		
Air Usage	6.20 ℓ/min		
Electricity Consumption	465W		

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	SMT	1~200 / Analog / 1ea
	POST-PROCESS	1~100 / Analog / 1ea
Width Adjustment *	O-100-HW0-0104	
Width Synchronization	O-100-HW0-0205	Auto
Line Control	O-100-SW0-0200	via RS-485
	O-200-LC0-0100	Hermes
Color *	O-200-LC0-0200	Smart kit (LAN communication PLC)
	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Shuttle Conveyor



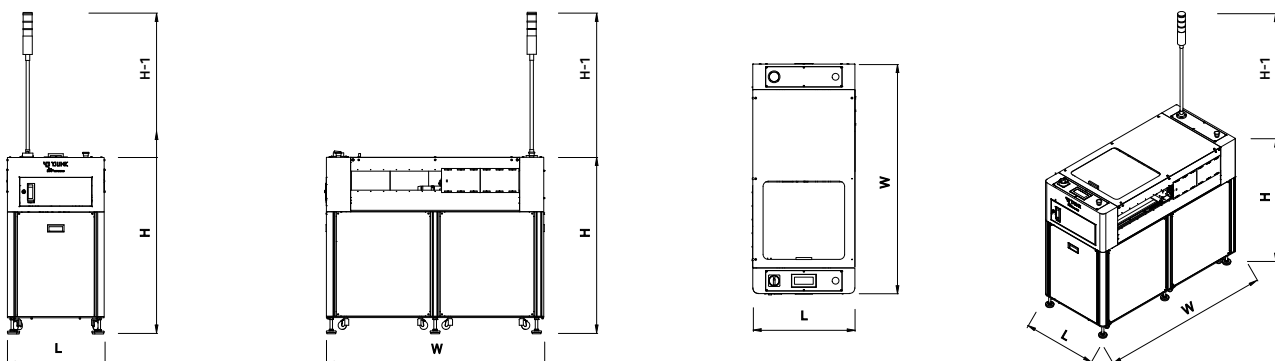
This unit can merge a few production lines into a single one or separate one a single line into few multiple ones.



CODE No.		MODEL	SIZE	DIMENSION (mm)					WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	Stroke	
M-10C-YM4-0901	M-50C-YM4-0901	YSC-1M 00	M	500	1140	1086	2000	500	156
M-10C-YX4-0901	M-50C-YX4-0901	YSC-1X 00	XL	600	1350	1086	2000	500	205
	M-50C-YU4-0901	YSC-1U 00	UX	700	1500	1086	2000	500	255
M-10C-YM4-0902	M-50C-YM4-0902	YSC-1M 01	M	500	1640	1086	2000	1000	207
M-10C-YX4-0902	M-50C-YX4-0902	YSC-1X 01	XL	600	1850	1086	2000	1000	257
	M-50C-YU4-0902	YSC-1U 01	UX	700	2000	1086	2000	1000	307
M-10C-YM4-0903	M-50C-YM4-0903	YSC-1M 02	M	500	2140	1086	2000	1500	274
M-10C-YX4-0903	M-50C-YX4-0903	YSC-1X 02	XL	600	2500	1086	2000	1500	324
	M-50C-YU4-0903	YSC-1U 02	UX	700	2650	1086	2000	1500	374
M-10C-YM4-0904	M-50C-YM4-0904	YSC-1M 03	M	500	2640	1086	2000	2000	331
M-10C-YX4-0904	M-50C-YX4-0904	YSC-1X 03	XL	600	3000	1086	2000	2000	381
	M-50C-YU4-0904	YSC-1U 03	UX	700	3150	1086	2000	2000	431
M-10C-YM4-0905	M-50C-YM4-0905	YSC-1M 04	M	500	3140	1086	2000	2500	425
M-10C-YX4-0905	M-50C-YX4-0905	YSC-1X 04	XL	600	3500	1086	2000	2500	475
	M-50C-YU4-0905	YSC-1U 04	UX	700	3650	1086	2000	2500	525
M-10C-YM4-0906	M-50C-YM4-0906	YSC-1M 05	M	500	3640	1086	2000	3000	447
M-10C-YX4-0906	M-50C-YX4-0906	YSC-1X 05	XL	600	4000	1086	2000	3000	493
	M-50C-YU4-0906	YSC-1U 05	UX	700	4150	1086	2000	3000	539
M-10C-YM4-0907	M-50C-YM4-0907	YSC-1M 06	M	500	4140	1086	2000	3500	497
M-10C-YX4-0907	M-50C-YX4-0907	YSC-1X 06	XL	600	4500	1086	2000	3500	547
	M-50C-YU4-0907	YSC-1U 06	UX	700	4650	1086	2000	3500	597
M-10C-YM4-0908	M-50C-YM4-0908	YSC-1M 07	M	500	4640	1086	2000	4000	555
M-10C-YX4-0908	M-50C-YX4-0908	YSC-1X 07	XL	600	5000	1086	2000	4000	605
	M-50C-YU4-0908	YSC-1U 07	UX	700	5150	1086	2000	4000	655

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL	UX
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	330 X 250	460 X 460	610 X 610
Item	SMT		POST-PROCESS
PCB Top/Bottom Clearance (mm)	30 / 25		60 / 60
PCB Edge (mm)	3		5
PCB Loading Weight (kg)	3		8
Conveyor Belt	Flat edge belt		Pin chain
Conveyor Speed (mm/sec) *	200		100
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Mode	1 in / 1 out	1 in / 2 out	2 in / 1 out 2 in / 2 out
Width Adjustment *	Manual		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1 ea		
Alarm	Tower Lamp (3 Colors)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Sliding Speed	Max. 500 mm/sec		
Electricity Consumption	515W		

Option Spec.			
Item	CODE No.		Option
Conveyor Speed (mm/sec) *	SMT	O-100-HW0-0104	1~200 / Analog / 1ea
	POST-PROCESS		1~100 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205		Auto
Add Touch Screen	O-100-HW4-0400		Rear Side
Width Synchronization	O-100-SW0-0200		via RS-485
Line Control	O-200-LC0-0100		Hermes
	O-200-LC0-0200		Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100		ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).			



Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

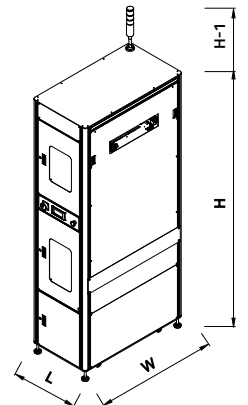
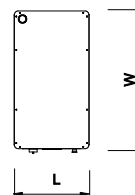
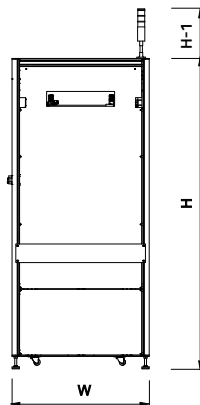
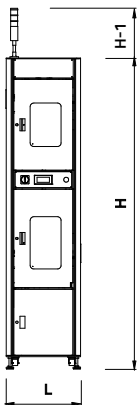
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Elevator Unit - Sky Line



The sky line can be used for operators' passage in SMT lines.



CODE No.		MODEL	SIZE	DIMENSION (mm)			H-1	WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H		
M-10C-YM4-1001		YEU-1M 00	M	600	750	~2000	~2400	220
M-10C-YX4-1001		YEU-1X 00	XL	800	950	~2000	~2400	240
M-10C-YM4-1002		YEU-1M 01	M	600	750	~2500	~2900	250
M-10C-YX4-1002		YEU-1X 01	XL	800	950	~2500	~2900	270

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 25	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower Lamp (3 Colors)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption	300W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
High Speed Lifter	O-100-HW4-0200	Servo Motor Driven
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

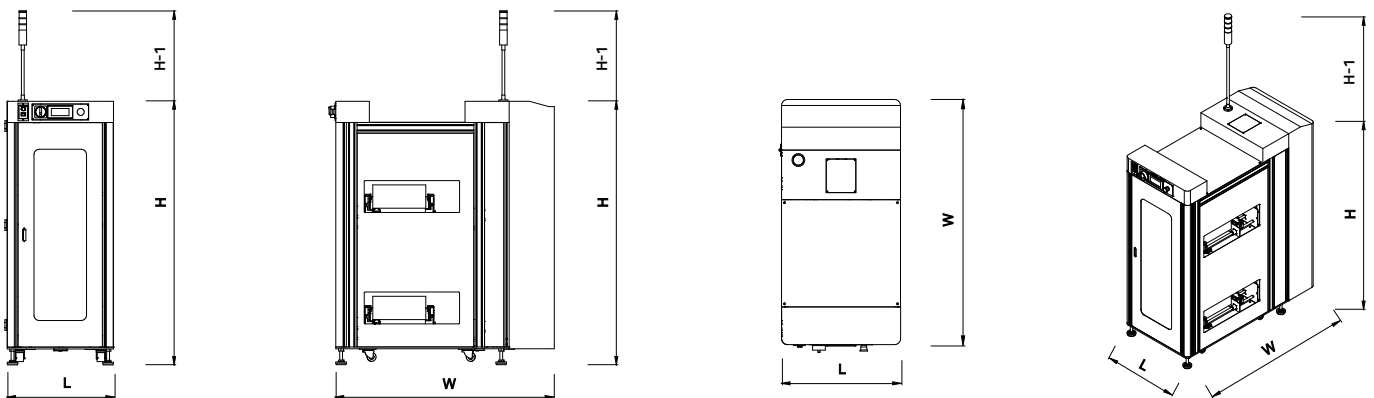
Elevator Unit - Sky Line

Elevator Unit - Pallet Return Line

Elevator Unit - Pallet Return Line



The pallet return line provides automated return of empty pallets. It is completely automated with PLC control and can convey pallets efficiently and fast.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
	M-50C-YM4-1100	YEU-1M 10	M	600	750	1300	2000	140
	M-50C-YX4-1100	YEU-1X 10	XL	800	950	1300	2000	160
	M-50C-YU4-1100	YEU-1U 10	UX	1000	1100	1300	2000	200

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	110V±(10%) & 50 ~ 60Hz
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
		610 X 610
Item	POST-PROCESS	
PCB Top / Bottom Clearance	60 / 60	
PCB Edge (mm)	5	
PCB Loading Weight (kg)	8	
Conveyor Belt	Pin Chain	
Conveyor Speed (mm/sec) *	100	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Width Adjustment *	Manual	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1 ea	
Alarm	Tower Lamp (3 Colors)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Electricity Consumption	200W	

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~100 / Analog / 1ea
Width Adjustment *	O-100-HW0-0205	Auto
Width Synchronization	O-100-SW0-0200	via RS-485
Line Control	O-200-LC0-0100	Hermes
	O-200-LC0-0200	Smart kit (LAN communication PLC)
Color *	O-400-CO0-0100	ESD powder coating(RAL 7035)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

Destacker - Knife

Destacker - Clamp

Destacker - Clamp(Batch)

Vacuum Loader - Edge

Stacker

PCB Cleaner - Vacuum

PCB Cleaner - Vacuum + Sticky roller

Gate Conveyor - Telescope

Gate Conveyor - Down/Up

Vertical Turn

Horizontal Turn

Shuttle Conveyor

Elevator Unit - Sky Line

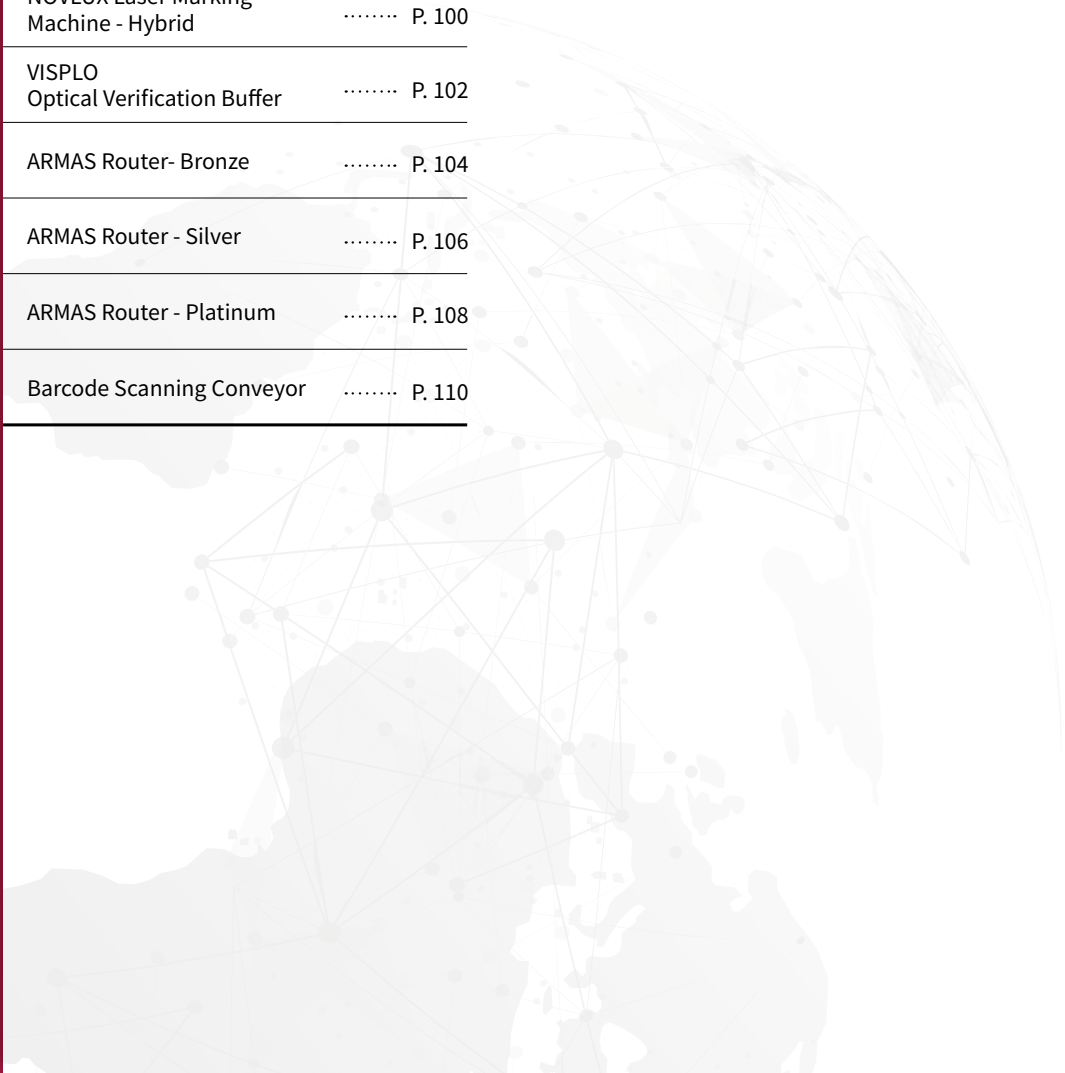
Elevator Unit - Pallet Return Line

TRACEABILITY

PC CONTROLLED SERIES

[M-30C-Y()5 SERIES]

NOVLUX Laser Marking Machine - CO2	.....	P. 98
NOVLUX Laser Marking Machine - Hybrid	.....	P. 100
VISPLO Optical Verification Buffer	.....	P. 102
ARMAS Router- Bronze	.....	P. 104
ARMAS Router - Silver	.....	P. 106
ARMAS Router - Platinum	.....	P. 108
Barcode Scanning Conveyor	.....	P. 110





P. 98

➤ **NOVLUX Laser Marking Machine(CO2 / Hybrid)**



P. 102

➤ **VISPLO Optical Verification Buffer**



P. 104

➤ **ARMAS Router (Bronze / Silver / Platinum)**



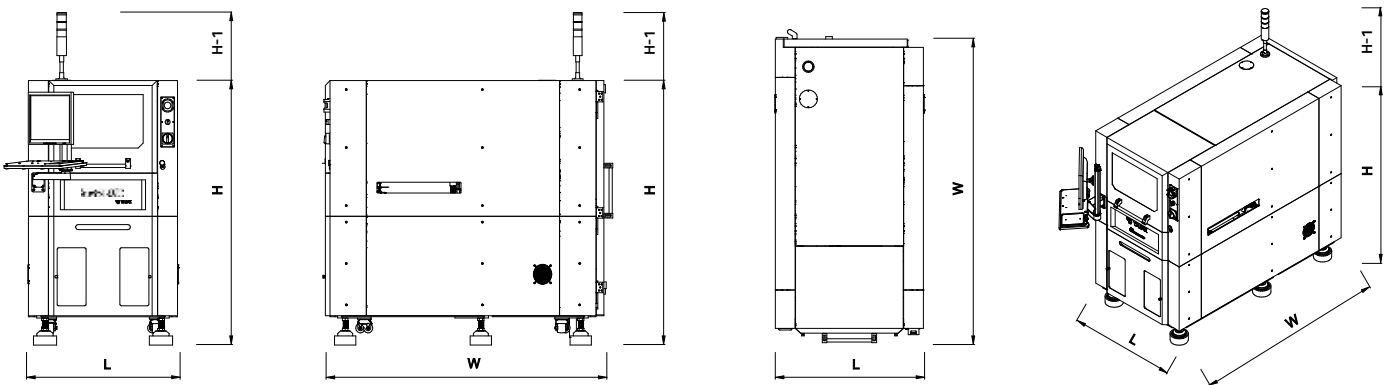
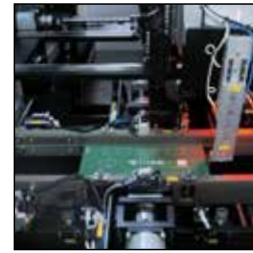
P. 110

➤ **Barcode Scanning Conveyor**

NOVLUX Laser Marking Machine - CO2



Laser Marking Machine engraves 1D/2D barcodes, logos, and characters on the surface of a PCB or an object without physical or chemical damage. The laser head performs its marking by adjusting its own height in the Z axis according to the height of the object.



CODE No.		MODEL	TYPE	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-30C-YM5-4003		YLM-1M 00	CO2	M	720	1720	1600	2000	500
M-30C-YX5-4003		YLM-1X 00	CO2	XL	900	1927	1600	2000	580
M-30C-Y25-4003		YLM-12 00	CO2	2XL	1050	1927	1600	2000	640

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
610 X 460		
Item	SMT	
PCB Top / Bottom Clearance	30 / 30	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec)	500	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Laser Head	KEYENCE 30W	
Moving System	X, Y-axes Head Moving	
Marking	Double Sided Marking	
Scanner	Cognex DM60X	
Fume Collector	DOMINO / External type	
Program	DOT NET	
Position Correction	Fiducial Recognition	
Width Adjustment	Auto	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1ea	
Alarm	Tower Lamp (3 Colors)	
Color *	Samhwa Paints H-GY2912-T3	
Air Supply	0.5Mpa (5bar)	
Air Usage	30 ℓ/min	
Laser Electricity Consumption (kw)	1.5	
Extractor Electricity Consumption (kw)	1.1	

Option Spec.		
Item	CODE No.	Option
Ionizer	O-100-HW5-0101	PANASONIC
Marking Grade	O-100-HW5-0200	-
Marking Power Detector	O-100-HW5-0300	Consultation Required for M Size
Multi LED	O-100-HW5-0400	-
HASL Fiducial Recognition	O-100-HW5-2200	Added camera
Width Synchronization	O-100-SW0-0200	via RS-232
Color *	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

NOVLUX Laser Marking Machine - CO2

NOVLUX Laser Marking Machine - Hybrid

VISPLO Optical Verification Buffer

ARMAS Router - Bronze

ARMAS Router - Silver

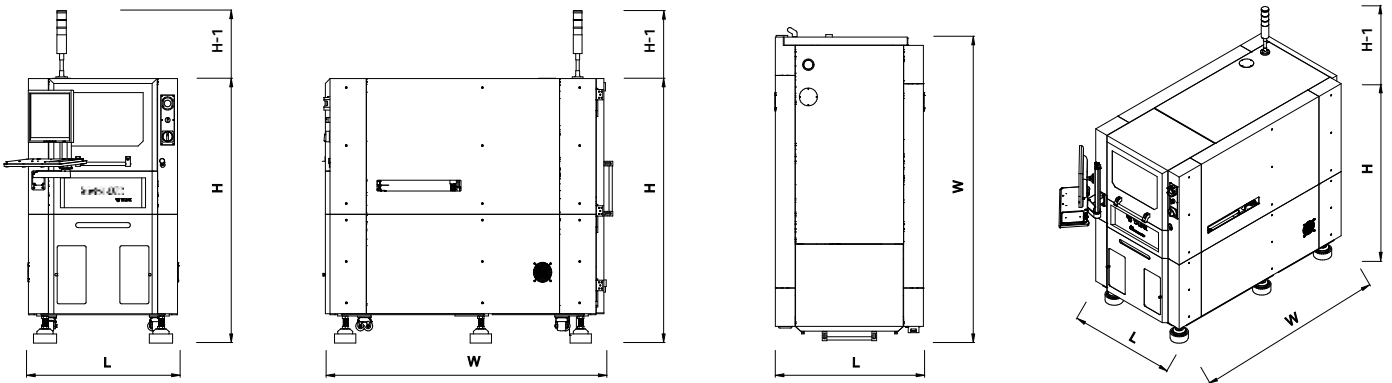
ARMAS Router - Platinum

Barcode Scanning Conveyor

NOVLUX Laser Marking Machine - Hybrid



Laser Marking Machine engraves 1D/2D barcodes, logos, and characters on the surface of a PCB or an object without physical or chemical damage. The laser head performs its marking by adjusting its own height in the Z axis according to the height of the object.



CODE No.		MODEL	TYPE	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-30C-YX5-4004		YLM-1X 10	Hybrid	XL	1050	1977	1600	2000	700
M-30C-Y25-4004		YLM-12 10	Hybrid	2XL	1400	1977	1600	2000	850

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	
PCB Size	XL	2XL
Min.PCB (L X W) (mm)	70 X 50	
Max.PCB (L X W) (mm)	460 X 460	610 X 460
Item	SMT	
PCB Top / Bottom Clearance	30 / 30	
PCB Edge (mm)	3	
PCB Loading Weight (kg)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec)	500	
PCB Thickness (mm)	0.6 ~ 4.0	
PCB Color	Green	
PCB In/Out Sensor	Single sensor	
Laser Head	KEYENCE 13W	
Moving System	X, Y-axis Stage Moving	
Marking	Double Sided Marking	
Scanner	Cognex DM60X	
Fume Collector	DOMINO / External type	
Program	DOT NET	
Position Correction	Fiducial Recognition	
Width Adjustment	Auto	
Interface	SMEGA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1ea	
Alarm	Tower Lamp (3 Colors)	
Color *	Samhwa Paints H-GY2912-T3	
Air Supply	0.5Mpa (5bar)	
Air Usage	30 ℓ/min	
Laser Electricity Consumption (kw)	2.4	
Extractor Electricity Consumption (kw)	1.1	

Option Spec.		
Item	CODE No.	Option
Ionizer	O-100-HW5-0101	PANASONIC
Marking Grade	O-100-HW5-0200	-
Marking Power Detector	O-100-HW5-0300	-
Multi LED	O-100-HW5-0400	-
HASL Fiducial Recognition	O-100-HW5-2200	Added camera
Width Synchronization	O-100-SW0-0200	via RS-232
Color *	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

NOVLUX Laser Marking Machine - CO2

NOVLUX Laser Marking Machine - Hybrid

VISPLO Optical Verification Buffer

ARMAS Router - Bronze

ARMAS Router - Silver

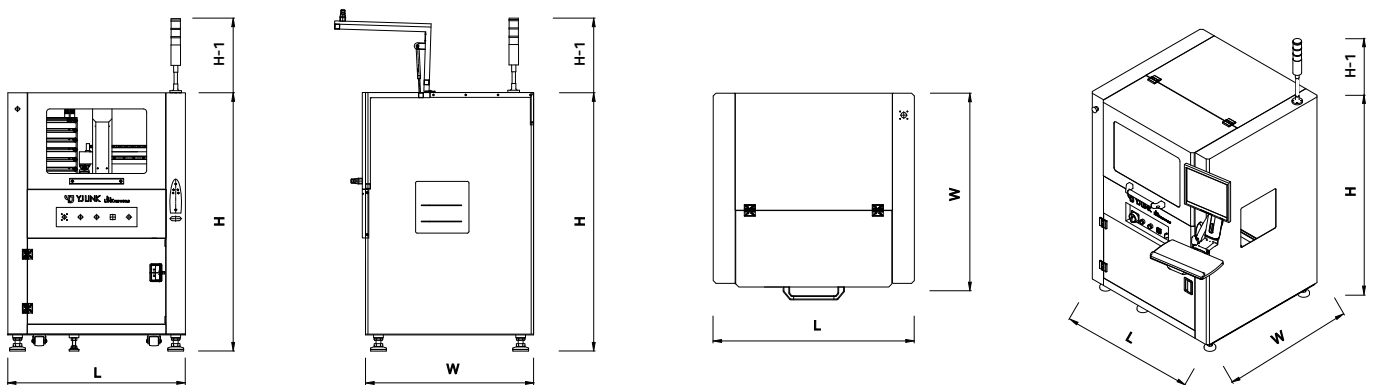
ARMAS Router - Platinum

Barcode Scanning Conveyor

VISPLO Review Verification System



Review Verification System is a machine located downstream of AOI that receives NG information from AOI, with a camera moving to the respective location on the PCB, and sends the actual image to the screen, allowing the operator to determine whether it is NG/OK and accurately detect false defects.



CODE No.		MODEL	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS			L	W	H	H-1	
M-30C-YM5-7000		YCI-1M 10	M	1100	1060	1600	2060	700
M-30C-YX5-7000		YCI-1X 10	XL	1340	1250	1650	2110	800

Standard Spec.		
Item	Standard	
Line Flow	Left to Right	Right to Left
Fixed Rail	Front	Rear
Pass Line (mm)	950±20	900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	
PCB Size	M	XL
Min.PCB (L X W) (mm)	70 X 70	
Max.PCB (L X W) (mm)	330 X 250	460 X 460
Item	SMT	
PCB Top/Bottom Clearance (mm)	30 / 30	
PCB Edge (mm)	3	
Conveyor Belt	Flat edge belt	
Conveyor Speed (mm/sec) *	200	
PCB Thickness (mm)	0.3 ~ 4.0	
Slot (ea)	10 (60mm/pitch)	
Camera Location Accuracy (mm)	-0.05 ~ 0.05	
Camera X/Y-axis Speed(mm/sec)	Max 500	
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6	
Smema Cable	3m / 1ea	
Alarm	Tower Lamp (3 Colors)	
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)	
Air Supply	0.5Mpa (5bar)	
Air Usage	60 l/min	
Extractor Electricity Consumption (kw)	2.0	
Camera Module	Specification : 5m pixel	Resolution : 2.2um
	Zoom : 80~120 fix	Rotation : 360 degree full
Main PC Controlled	OS : window 10	CPU : Intel 6th Gen Quad Core
	Memory : Samsung DDR4 32GB	i5-6500/7500 3.2GHz/6MB
	HDD : 1TB	Storage-Rack : ISGAN-F110-32P
	PCI-e SLOT : GTX-1050 DDR5-2GB	PCI : Ajinextek Motion board N-804
	Monitor : 24 inch LED	PCI : Ajinextek I/O Carrier board BPHD

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 4ea
Width Synchronization	O-100-SW0-0200	via RS-232
Color *	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader
Series

Buffer Series

Link / Work
Series

Conveyor Series

PC Controlled
Series

NOVLUX Laser
Marking Machine
- CO2

NOVLUX Laser
Marking Machine
- Hybrid

VISPLO Optical
Verification Buffer

ARMAS Router
- Bronze

ARMAS Router
- Silver

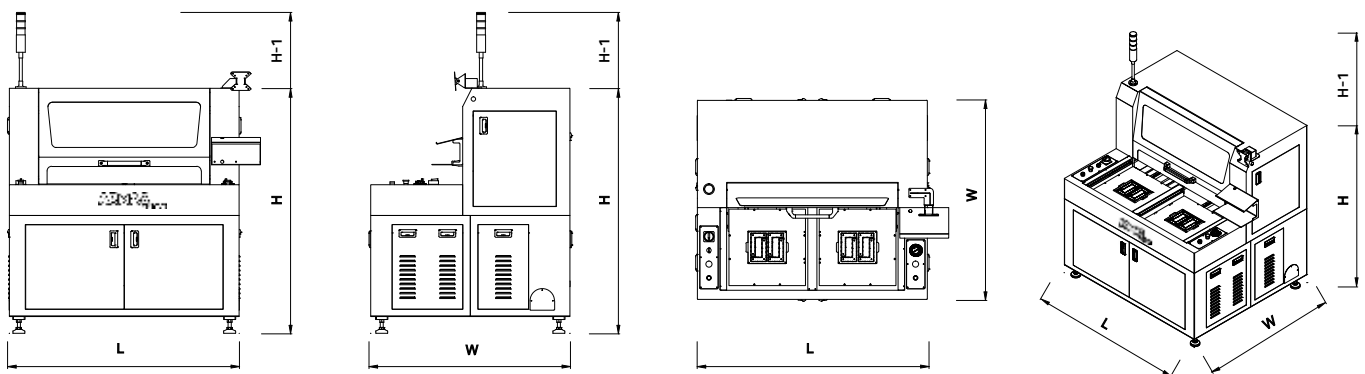
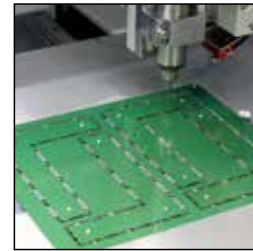
ARMAS Router
- Platinum

Barcode Scanning
Conveyor

ARMAS Router - Bronze



A machine for depaneling PCBs, the ARMAS Router rotates the drill bit at a high speed routing through the contour of the PCB freely.



CODE No.		MODEL	TYPE	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-30C-YX5-8001		YRM-1X 00	Bronze	XL	1500	1300	1600	2000	860

Standard Spec.		Standard	
Item		Standard	
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	
Size		XL	
JIG (L X W) (mm)		500 X 500	
Max. PCB (L X W) (mm)		460 X 460	
Item		SMT	
PCB Top / Bottom Clearance		35 / 35	
PCB Thickness (mm)		0.6 ~ 4.0	
Spindle Motor *		Nakanishi EM30-S6000	
Spindle (ea)		1	
JIG table (ea)		2	
Bit		Multi stage control, Damage detection	
Gantry	Servo Motors	X, Y, Z pitch axes	
	Repeatability	±0.03mm	
	Configuration	X1, Y1, Y2, Z1 (X : X-axis Spindle / Y : Y-axis JIG / Z : Z-axis Spindle)	
Controller		PC based	
Safety Sensor		Light Curtain	
Ionizer		IZN10E-1106	
Vision camera		MV-CE013-50GM	
Dust Collector *		Drawer type (MS-200)	
Auxiliary Power		UPS (Uninterruptible power supply)	
Alarm		Tower Lamp (3 Colors)	
Color		SR RAL 7035 + Doosan Dark Gray	
Air Supply		0.5 Mpa	
Air Usage		150 ℓ/min	
Electricity Consumption (kw)		4	

Option Spec.		
Item	CODE No.	Option
Spindle Motor *	O-100-HW5-1600	SycoTec 4025
Barcode Reading	O-100-HW5-1700	-
Fiducial Recognition	O-110-HW5-1800	-
Interlock with Robot-Arm	O-120-HW5-1901	I/O
	O-120-HW5-1902	RS-232
	O-120-HW5-1903	Ethernet
Spindle Monitoring System	O-130-HW5-2000	-
Additional JIG	O-140-HW5-2100	2pcs=1set
Dust Collector *	O-190-HW5-2601	Dust bag type (ECM-2PB)
Color	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

NOVLUX Laser Marking Machine - CO2

NOVLUX Laser Marking Machine - Hybrid

VISPLO Optical Verification Buffer

ARMAS Router - Bronze

ARMAS Router - Silver

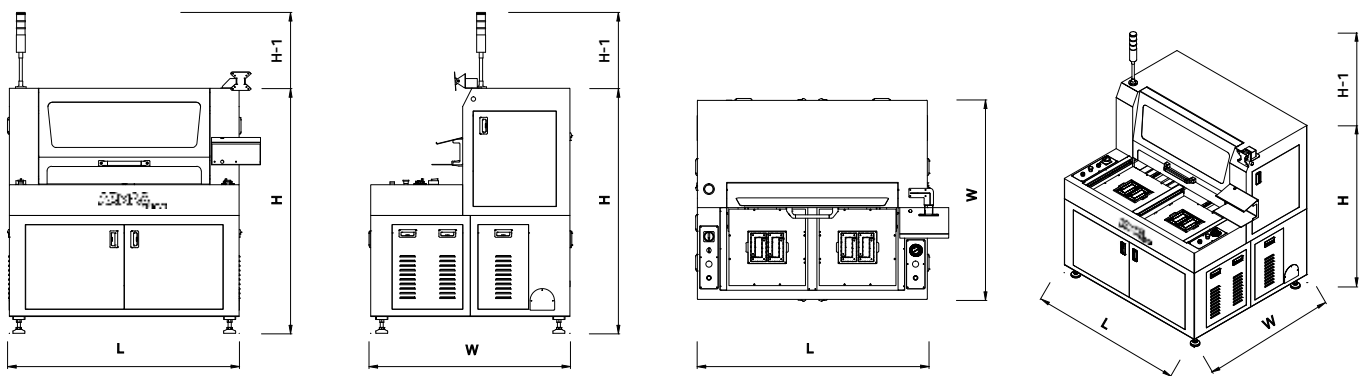
ARMAS Router - Platinum

Barcode Scanning Conveyor

ARMAS Router - Silver



A machine for depaneling PCBs, the ARMAS Router rotates the drill bit at a high speed routing through the contour of the PCB freely.



CODE No.		MODEL	TYPE	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-30C-YX5-8002		YRM-1X 10	Silver	XL	1700	1300	1600	2000	930

Standard Spec.		Standard	
Pass Line (mm)		950±20	900±20
Voltage & Frequency		220V±(10%) & 50 ~ 60Hz	
Size		XL	
JIG (L X W) (mm)		500 X 500	
Max. PCB (L X W) (mm)		460 X 460	
Item		SMT	
PCB Top / Bottom Clearance		35 / 35	
PCB Thickness (mm)		0.6 ~ 4.0	
Spindle Motor		SycoTec 4025	
Spindle (ea)		2	
JIG table (ea)		2	
Bit		Multi stage control, Damage detection	
Gantry	Servo Motors	X, Y, Z pitch axes	
	Repeatability	±0.03mm	
	Configuration	X1, X2, Y1, Y2, Z1 (X : X-axis Spindle / Y : Y-axis JIG / Z : Z-axis Spindle)	
Controller		PC based	
Safety Sensor		Light Curtain	
Ionizer		IZN10E-1106	
Vision camera		MV-CE013-50GM	
Dust Collector *		Drawer type (MS-200)	
Auxiliary Power		UPS (Uninterruptible power supply)	
Alarm		Tower Lamp (3 Colors)	
Color		SR RAL 7035 + Doosan Dark Gray	
Air Supply		0.5 Mpa	
Air Usage		150 ℓ/min	
Electricity Consumption (kw)		5	

Option Spec.		
Item	CODE No.	Option
Barcode Reading	O-100-HW5-1700	-
Fiducial Recognition	O-110-HW5-1800	-
Interlock with Robot-Arm	O-120-HW5-1901	I/O
	O-120-HW5-1902	RS-232
	O-120-HW5-1903	Ethernet
Spindle Monitoring System	O-130-HW5-2000	-
Additional JIG	O-140-HW5-2100	2pcs=1set
Dust Collector *	O-190-HW5-2601	Dust bag type (ECM-2PB)
Color	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

NOVLUX Laser Marking Machine - CO2

NOVLUX Laser Marking Machine - Hybrid

VISPLO Optical Verification Buffer

ARMAS Router - Bronze

ARMAS Router - Silver

ARMAS Router - Platinum

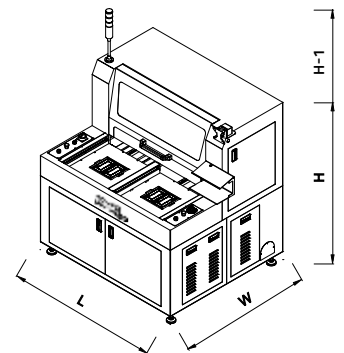
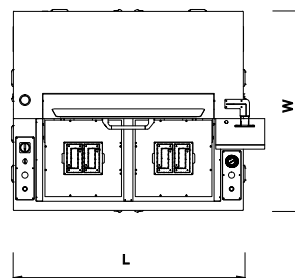
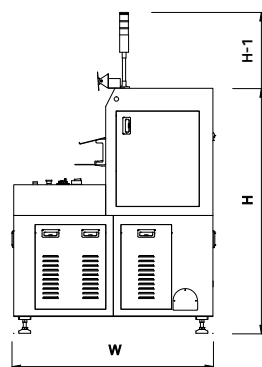
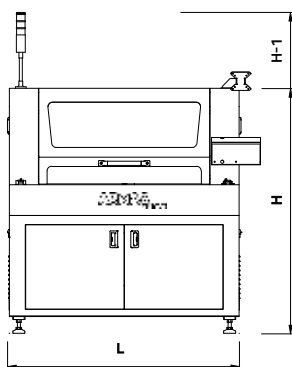
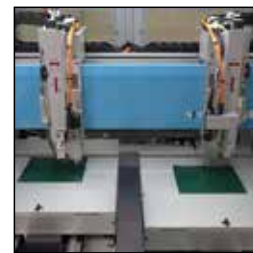
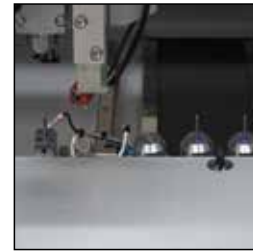
Barcode Scanning Conveyor

M-30C-Y()5 Series

ARMAS Router - Platinum



A machine for depaneling PCBs, the ARMAS Router rotates the drill bit at a high speed routing through the contour of the PCB freely.



CODE No.		MODEL	TYPE	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-30C-YX5-8003		YRM-1X 20	Platinum	XL	1500	1340	1600	2000	980

Standard Spec.		
Item	Standard	
Pass Line (mm)	950±20 900±20	
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz	
Size	XL	
JIG (L X W) (mm)	500 X 500	
Max. PCB (L X W) (mm)	460 X 460	
Item	SMT	
PCB Top / Bottom Clearance	35 / 35	
PCB Thickness (mm)	0.6 ~ 4.0	
Spindle Motor	SycoTec 4033AC (Automatic Bit replacement type, bit station included)	
Spindle (ea)	2	
JIG table (ea)	2	
Bit	Multi stage control, Damage detection	
X-axis, Z-axis control	Independent spindle control	
Gantry	Servo Motors	X, Y, Z pitch axes
	Repeatability	±0.03mm
	Configuration	X1, X2, Y1, Y2, Z1, Z2 (X : X-axis Spindle / Y : Y-axis JIG / Z : Z-axis Spindle)
Controller	PC based	
Safety Sensor	Light curtain	
Ionizer	IZN10E-1106	
Vision camera	MV-CE013-50GM	
Dust Collector	Dust bag type (ECM-5PB)	
Auxiliary Power	UPS (Uninterruptible power supply)	
Alarm	Tower Lamp (3 Colors)	
Color	SR RAL 7035 + Doosan Dark Gray	
Air Supply	0.5 Mpa	
Air Usage	150 ℓ/min	
Electricity Consumption (kw)	6	

Option Spec.		
Item	CODE No.	Option
Barcode Reading	O-100-HW5-1700	-
Fiducial Check	O-110-HW5-1800	-
Interlock with Robot-Arm	O-120-HW5-1901	I/O
	O-120-HW5-1902	RS-232
	O-120-HW5-1903	Ethernet
Spindle Monitoring System	O-130-HW5-2000	-
Additional JIG	O-140-HW5-2100	2pcs=1set
Color	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

NOVLUX Laser Marking Machine - CO2

NOVLUX Laser Marking Machine - Hybrid

VISPLO Optical Verification Buffer

ARMAS Router - Bronze

ARMAS Router - Silver

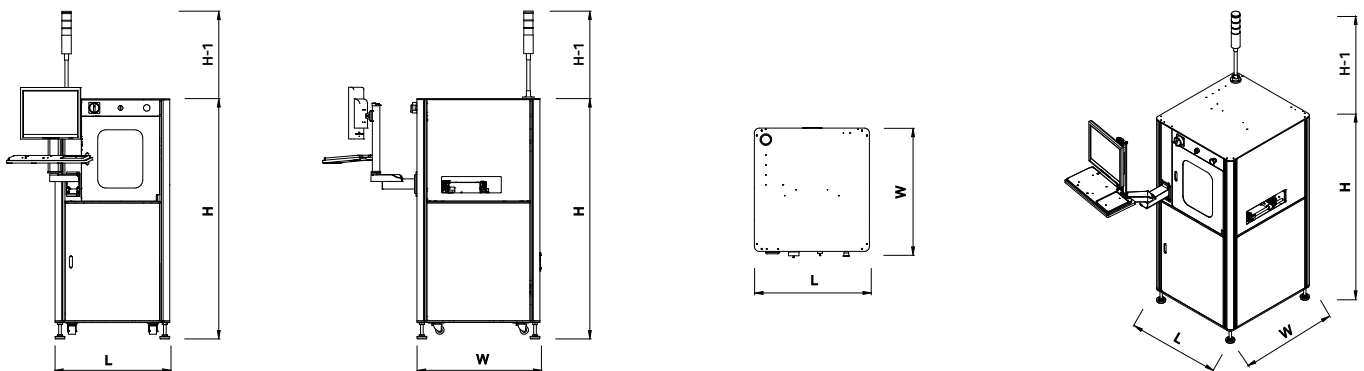
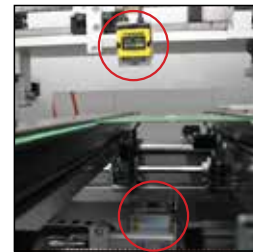
ARMAS Router - Platinum

Barcode Scanning Conveyor

Barcode Scanning Conveyor



Positioned at the rear end of the laser or the labeller, the Scanning Conveyor is designed to scan barcodes(1D/2D).



CODE No.		MODEL	TYPE	SIZE	DIMENSION (mm)				WEIGHT (Kg)
SMT	POST-PROCESS				L	W	H	H-1	
M-30C-YX5-9001		YBS-1X 00	Single side	XL	1000	1000	1665	2000	400
M-30C-YX5-9002		YBS-1X 01	Both side	XL	1000	1000	1665	2000	450

Standard Spec.			
Item	Standard		
Line Flow	Left to Right		Right to Left
Fixed Rail	Front		Rear
Pass Line (mm)	950±20		900±20
Voltage & Frequency	220V±(10%) & 50 ~ 60Hz		
PCB Size	XL		
Min.PCB (L X W) (mm)	70 X 50		
Max.PCB (L X W) (mm)	460 X 460		
Item	SMT		
PCB Top / Bottom Clearance	30 / 25		
PCB Edge (mm)	3		
PCB Loading Weight (kg)	3		
Conveyor Belt	Flat edge belt		
Conveyor Speed (mm/sec) *	200		
PCB Thickness (mm)	0.6 ~ 4.0		
PCB Color	Green		
PCB In/Out Sensor	Single sensor		
Scanner	Cognex DM60X		
Scanner Auto Position	Top	Bottom	Both side
Width Adjustment	Auto		
Interface	SMEMA Pin No. 1, 2, 3, 4, 5, 6		
Smema Cable	3m / 1ea		
Alarm	Tower Lamp (3 Colors)		
Color *	SR RAL 7035 : NON ESD (H-GY2912-T3-Samhwa Paints)		
Air Supply	0.5Mpa (5bar)		
Air Usage	0.5 ℓ/min		
Electricity Consumption (kw)	0.5		

Option Spec.		
Item	CODE No.	Option
Conveyor Speed (mm/sec) *	O-100-HW0-0104	1~200 / Analog / 1ea
Width Synchronization	O-100-SW0-0200	via RS-232
Color *	O-400-CO0-0100	ESD powder coating (RAL 7035 / Gray)
Line Control System for Smart Line / MES / Color-NON ESD ▶ Refer to P.113(Common Option Spec.).		

Loader/Unloader Series

Buffer Series

Link / Work Series

Conveyor Series

PC Controlled Series

NOVLUX Laser Marking Machine - CO2

NOVLUX Laser Marking Machine - Hybrid

VISPLO Optical Verification Buffer

ARMAS Router - Bronze

ARMAS Router - Silver

ARMAS Router - Platinum

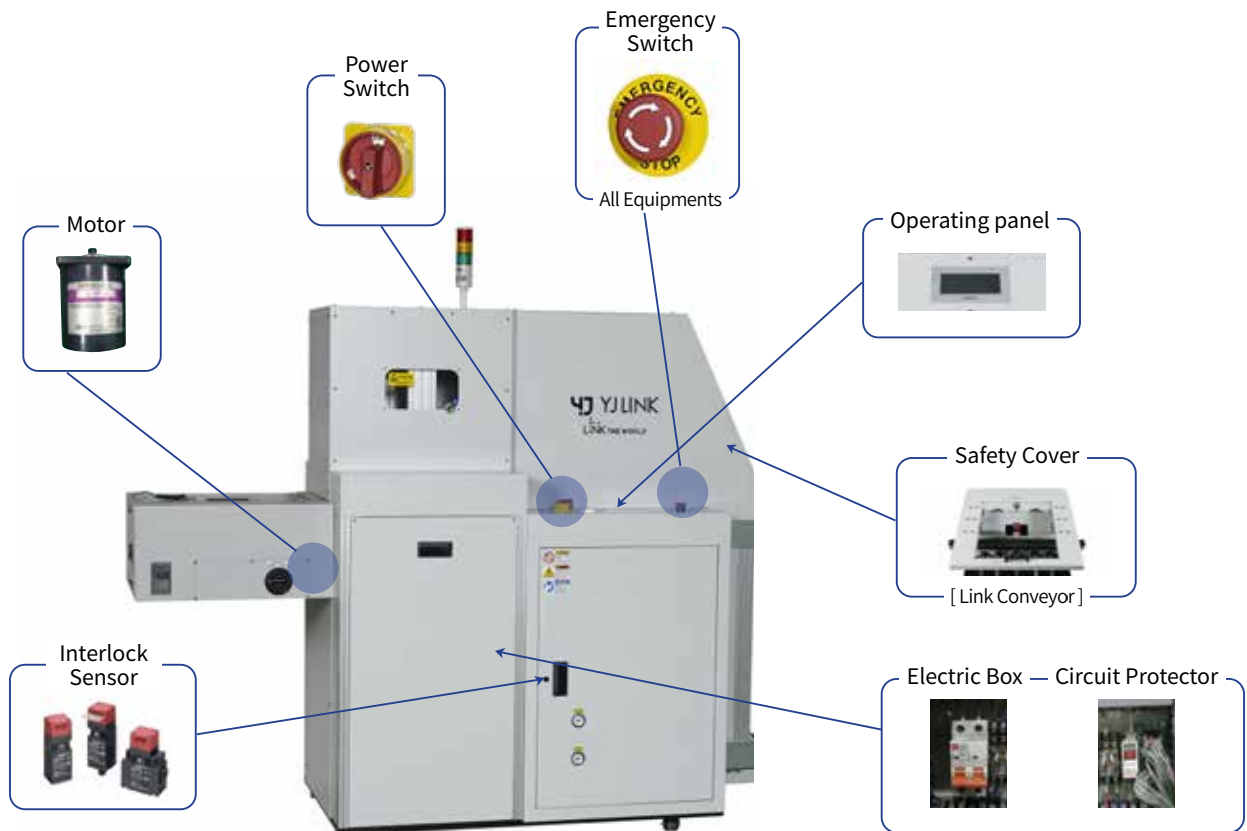
Barcode Scanning Conveyor

01 Common Standard Spec.

Item	CODE No.	Standard
Motor	-	SPG
Sensor_PCB	-	SICK / PANASONIC
Screw Type *	-	TM Screw
Pneumatic	-	TPC / SMC
PLC	-	PANASONIC
OP Panel_Touch Screen	-	PANASONIC
Switch_Main	-	HANYOUNG
Switch_Emergency	-	HANYOUNG
Sensor_Door	-	KOINO

Conveyor Belt type	T	Static Range
HAM(YJ Link Standard)	1.00 T	10 ³⁻⁶
ENI	1.00 T	10 ³⁻⁴

03 Standard Features



[Magazine Unloader (YMU-00)]

02 Common Option Spec.

Item	CODE No.	Option
Line Control System for Smart Line	O-200-LC0-0300	PC + Program
	O-200-LC0-0500	PC + iLNB
MES	O-200-ME0-0501	Complexity - middle / low
	O-200-ME0-0502	Complexity - high
Color - NON ESD Powder Coating	O-400-CO0-0201	NON ESD - EX8816(S)-SR-WH020 (White)
	O-400-CO0-0202	NON ESD - RAL 7035 : Glossy
	O-400-CO0-0203	NON ESD - RAL 7035 : Matt

04 Magazine Rack



MAGAZINE TYPE	L	W	H	Max. PCB Size		Min. PCB Size	
				L	W	L	W
M (097)	355	320	570	330	250	70	50
L (096)	460	400	575	440	330	70	50
XL (100)	535	530	575	530	460	70	50
2XL (101)	620	530	575	610	460	70	50

* Racks of any size and any type are available for orders.

