

JTU

One-Man-Operation Concept with underneath pallet return conveyor

A turn-key total solution for

CONFORMAL COATING

production, process, quality and environmental control.



- ⚙ Complete line solution
- ⚙ Pallet returning system
- ⚙ Modular and flexible
- ⚙ People-oriented design
- ⚙ Industry 4.0 ready
- ⚙ Minimum manual handling & labour
- ⚙ Improved quality & consistency

C SERIES SELECTIVE COATING MACHINES

- COMPETENT - CREDIBLE - COMPREHENSIVE -



CS-05
Cone Shape
Atomization Spray Valve



PD-01
Precision
Dispensing Valve



FS-30
Fan Shape Large
Area Spray Valve



V-54HP
High Pressure
Dispensing Valve

MODEL	C3			C5		C7	C7s
	Standard config.	Optional config. A	Optional config. B	Standard config.	Optional config.		
GENERAL							
Dimensions: L x W x H	956 x 1,512 x 1,640 mm						
Weight	Approx. 700 kg						
Head structure	2 valves (Work independently)	2 valves (Work independently with 4-way tilt)	2 valves (Work simultaneously)	3 valves (Work independently)	3 valves (2 front valves work simultaneously)	4 valves (2 by 2)	4 valves (Straight line)
Tilt angle	N.A.	4-way 35° tilt on left side valve	35° left tilt for both valves	35° tilt inwards for 2 front valves	35° tilt inwards for 2 front valves	35° left tilt for all valves	35° left tilt for all valves
Valve pitch for simultaneous coating	N.A.	N.A.	60 - 230 mm adjustable	N.A.	60 - 120 mm adjustable	60 - 230 mm adjustable	85 - 100 mm adjustable
Valve pitch adjustment mode	N.A.	N.A.	Manual / Automatic	N.A.	Manual	Manual	Manual
Valves included as standard	CS-05, PD-01	CS-05, PD-01	2 x CS-05 / 2 x PD-01	CS-05, PD-01, FS-30	2 x CS-05, PD-01	2 x CS-05, 2 x PD-01	4 x CS-05 / 4 x PD-01
Valves applicable as option	FS-30 / V-54HP			N.A.	FS-30	FS-30	N.A.
No. of axis movement	3 (X, Y, Z)			4 (X, Y, Z, U ± 180° rotation)		3 (X, Y, Z)	3 (X, Y, Z)
Rotation angle	N.A.			±180°		N.A.	N.A.
Type of driver	Closed loop servo motor						
X, Y travelling speed	1 - 800 mm/s						
Practical working speed	10 - 200 mm/s						
X, Y repeatability	± 25 microns						
Effective coating area: L x W	460 x 460 mm*1 (With terms & conditions applied)						
Z-axis movement	100 mm						
Com. port	SMEMA 4 pins						
CONVEYOR SYSTEM							
Conveyor type	Stainless steel						
Board clearance	Top: 100 mm, bottom: 100 mm						
Edge clearance	5 mm						
Conveyor height	900 ± 20 mm						
Conveyor speed	Max. 750 mm/s (Stepper motor control)						
Conveyor direction	Left to right (Option: Right to left)						
Conveyor width	50 - 460 mm (Auto adjustment)						
UTILITIES							
Power supply	230 V AC (Single phase)						
Total power	2.5 kW						
Exhaust requirement	Min. 5 m ³ /min (150 mm diameter ducting)						
Compressed air requirement	Min. 6 bar, 400 L/min						
STANDARD FEATURES							
Single-stage conveyor							
Automatic conveyor width adjustment (Software controlled)							
ESD grounding point							
PCB/Pallet clamping system							
LED UV lamps for visual inspection							
Auto valves dipping & purging with waste collection system							
Exhaust flowrate auto detection & alarm							
PC controlled with Windows 11 OS							
Adjustable PC work station height							
1 material tank (1 gallon)							
1 tank holder with weighing scale for material level auto detection & alarm							
Voltage stabilizer & UPS							
MES ready (i4.0)							
CE certified							
OPTIONAL FEATURES							
Needle calibration station (For PD-01)							
CCD vision camera							
Barcode/2D code scanning function (With Keyence SR-710)							
MES customization (i4.0)							
Double indexing (For long boards up to 600 mm)*2							
Pallet return conveyor (Manual width adjustment)							

*1 With C5 optional simultaneous working configuration, the effective coating area becomes 430 x 460 mm (With terms & conditions applied).

*2 With double indexing option, machine total length will be extended by 100 mm.

JCURE+ SERIES CURING OVENS

Infra-red (IR) Curing Oven

x2
LONGER heating length
SMALLER footprint

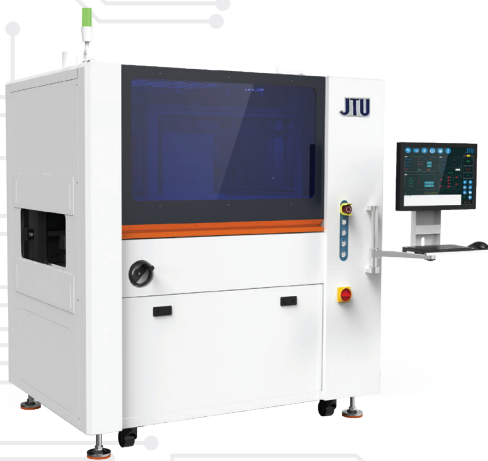


Other optional features:

- ✦ Bottom IR heating zones
- ✦ Underneath pallet return conveyor (OMO concept)
- ✦ Top IR heating zones for underneath pallet return conveyor (OMO Concept)

MODEL	jCURE-3+	jCURE-4+	jCURE-5+
Dimensions: L x W x H	3,000 x 1,560 x 1,250 mm	3,940 x 1,560 x 1,250 mm	4,940 x 1,560 x 1,250 mm
Weight	1,350 kg	1,550 kg	1,750 kg
Control system	PLC + PC (Windows 11 OS)		
Conveyor system	Chain type		
Conveyor height	900 ± 20 mm		
Conveyor width	50 - 460 mm (Auto adjustment)		
Conveyor clearance	Top: 100 mm, bottom: 100 mm		
Edge clearance	5 mm		
Conveyor speed	200 - 2,000 mm/min		
Conveyor direction	Left to right (Option: Right to left)		
No. of heating zone (Top)	3	4	5
Power per IR heating zone	12 pcs * 0.4 kW = 4.8 kW/zone		
Heat-up time (Stable stage)	Approx. 25 - 30 mins		
Temp. setting range	Room temp. - 200°C		
Temp. deviation on PCB	± 5°C		
Power supply	380 V AC (3 phase, 5 wire)		
Total power	14.6 kW	19.4 kW	24.2 kW
Standards compliance	SMEMA, CE		
Exhaust flow rate	5 m³/min x 2 pcs		
Exhaust opening diameter	150 mm x 2 pcs		

Ultra-violet (UV) Curing Oven



Other optional features:

- ✦ Underneath pallet return conveyor (OMO concept)

MODEL	jCURE-2UV+
Dimensions: L x W x H	1,500 x 1,100 x 1,620 mm
Weight	450 kg
Control system	PLC + PC (Windows 11 OS)
Conveyor system	Chain type
Conveyor height	900 ± 20 mm
Conveyor width	50 - 460 mm (Auto adjustment)
Conveyor clearance	Top: 100 mm, bottom: 100 mm
Edge clearance	5 mm
Conveyor speed	500 - 3,000 mm/min
Conveyor direction	Left to right (Option: Right to left)
Type of UV lamp	Medium Pressure Mercury Arc
No. of UV lamp (Power)	2 (6 kW per lamp. 1 running, 1 stand by)
UV lamp focal height	60 - 120 mm (Motorized adjustment)
UV lamp wave length type	UVA, UVB, UVC & UVV
UV light intensity (At 100 mm distance)	119 W/cm (For 625 mm length UV lamp)
UV effective area: X, Y (At 100 mm distance)	200 x 400 mm (For 625 mm length UV lamp)
Average lamp lifespan	Min. 1,000 hours
Average reflector lifespan	Min. 3,000 hours
Cooling system	PWM (Pulse width modulation)
Power supply	380 V AC (3 phase, 5 wire)
Total power	13 kW
Standards compliance	SMEMA, CE
Exhaust flow rate	15 m³/min x 2 pcs
Exhaust opening diameter	150 mm x 2 pcs

BOARD HANDLING MACHINES

Automatic Link Conveyor



Other optional features:

- ✦ Underneath pallet return conveyor (OMO concept)

MODEL	ADJ-460
Dimensions: L x W x H	1,000 x 1,074 x 909 mm
Weight	110 kg
Board width	50 - 460 mm
No. of board stop position	1
Conveyor system	Chain type
Conveyor height	900 ± 20 mm
Conveyor clearance	Top: 100 mm, bottom: 100 mm
Edge clearance	5 mm
Conveyor speed	0 - 4,500 mm/min
Conveyor direction	Left to right (Option: Right to left)
Conveyor width adjustment	Manual
Control system	PLC
Power supply	220 V AC (Single phase)
Total power	100 W
Standards compliance	SMEMA

Visual Inspection Conveyor



Open Type



Enclosed Type A



Enclosed Type B

MODEL	ADJ-460UV (Open Type)	ADJ-460UV (Enclosed Type A)	ADJ-460UV (Enclosed Type B)
Dimensions: L x W x H	1,000 x 1,074 x 963 mm	1,000 x 944 x 1,232 mm	1,000 x 834 x 1,662 mm
Weight		120 kg	
Board width		50 - 460 mm	
No. of board stop position		1	
Conveyor system		Chain type	
Conveyor height		900 ± 20 mm	
Conveyor clearance		Top: 100 mm, bottom: 100 mm	
Edge clearance		5 mm	
Conveyor speed		0 - 4,500 mm/min	
Conveyor direction		Left to right (Option: Right to left)	
Conveyor width adjustment		Manual	
Light source		LED UV lamps	
Control system		PLC	
Power supply		220 V AC (Single phase)	
Total power		150 W	
Standards compliance		SMEMA	
Exhaust requirement	-	2.2 m ³ /min	2.2 m ³ /min
Exhaust opening diameter	-	100 mm	80 mm

Other optional features:

✦ Underneath pallet return conveyor (OMO concept)

Automatic NG PCB Reject Conveyor



MODEL	RJ-460
Dimensions: L x W x H	1,100 x 905 x 915 mm
Weight	200 kg
Board size: L x W	50 x 50 - 460 x 460 mm
No. of board stop position	2
Conveyor system	Chain type
Conveyor height	900 ± 20 mm
Conveyor clearance	Top: 100 mm, bottom: 100 mm
Edge clearance	5 mm
Conveyor speed	0 - 4,500 mm/min
Conveyor direction	Left to right (Option: Right to left)
Conveyor width adjustment	Manual
Control system	PLC + touch screen
Power supply	220 V AC (Single phase)
Total power	500 W
Compressed air requirement	5 bar, min. 250 L/min
Standards compliance	SMEMA

Other optional features:

✦ Underneath pallet return conveyor (OMO concept)

* Conveyor clearance is 80 mm

Automatic Up-Down Lifter



MODEL	SJ-460
Dimensions: L x W x H	603 x 1,165 x 1,192 mm
Weight	150 kg
Board size: L x W	50 x 50 - 460 x 460 mm
Conveyor system	Chain type
Conveyor height	900 ± 20 mm
Conveyor clearance	Top: 100 mm, bottom: 100 mm
Edge clearance	5 mm
Conveyor direction	Left to right (Option: Right to left)
Conveyor width adjustment	Manual
Control system	PLC + touch screen
Power supply	220 V AC (Single phase)
Total power	300 W (1 kW with heater)
Compressed air requirement	5 bar, min. 250 L/min
Standards compliance	SMEMA

Other optional features:

✦ Heater with enclosure for linking with jCURE⁺ oven to maintain temperature on the board while the lifter is bringing the board down to the return conveyor (OMO concept)



Automatic Flip Conveyor

MODEL	UL-460W
Dimensions: L x W x H	600 x 1,150 x 1,348 mm
Weight	230 kg
Board size: L x W	50 x 50 - 460 x 460 mm
Conveyor height	900 ± 20 mm
Conveyor system	Chain type
Conveyor clearance	Top: 100 mm, bottom: 100 mm
Edge clearance	5 mm
Conveyor direction	Left to right (Option: Right to left)
Conveyor fixed rail	Front fixed
Conveyor width adjustment	Manual
Control system	PLC + touch screen
Power supply	220 V AC (Single phase)
Total power	300 W
Compressed air requirement	5 bar, min. 250 L/min
Standards compliance	SMEMA, CE

Other optional features:

- ⚙ Underneath pallet return conveyor (OMO concept)



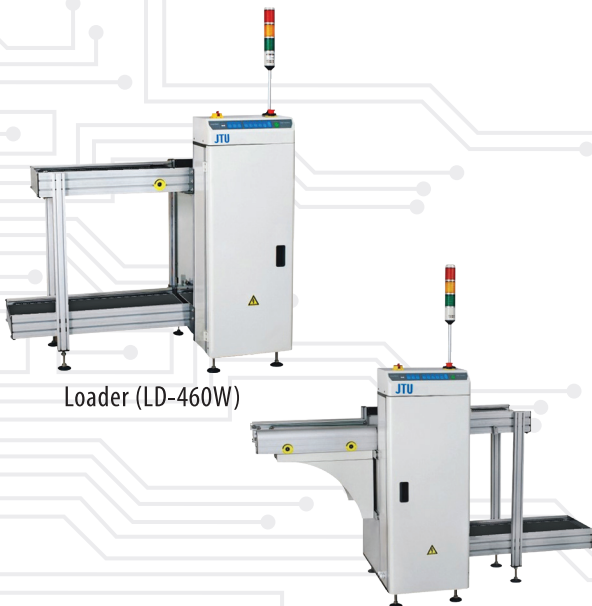
Automatic Buffer Stocker

MODEL	HC-XL71C
Dimensions: L x W x H	654 x 1,511 x 1,714 mm
Weight	290 kg
Board size: L x W	50 x 50 - 500 x 460 mm
Pitch selection	1 - 3 (50 mm/pitch)
No. of storage rack	Max. 10 pcs
Conveyor system	Chain type
Conveyor height	900 ± 20 mm
Conveyor clearance	Top: min. 20 mm, bottom: min. 20 mm (Depends on indexing pitch)
Conveyor direction	Left to right (Option: Right to left)
Control system	PLC + touch screen
Power supply	220 V AC (Single phase)
Total power	500 W
Compressed air requirement	5 bar, min. 250 L/min
Standards compliance	SMEMA
Exhaust requirement	5 m ³ /min
Exhaust opening diameter	89 mm diameter ducting

Other optional features:

- ⚙ Underneath pallet return conveyor (OMO concept)

* With pallet return conveyor, the number of storage rack becomes maximum 6 pcs.



Loader (LD-460W)

Unloader (ULD-460W)

Automatic Magazine Loader/Unloader

MODEL	LD-460W	ULD-460W
Dimensions: L x W x H	2,320 x 890 x 1,202 mm	3,125 x 1,020 x 1,200 mm
Weight	280 kg	290 kg
Board size: L x W	50 x 50 - 530 x 460 mm	
Magazine size: L x W x H	535 x 530 x 570 mm	
Pitch selection	1 - 4 (10 mm/pitch)	
No. of standby rack	2 top; 3 bottom	
Conveyor system	-	Chain type
Conveyor height	900 ± 20 mm	
Conveyor direction	Left to right (Option: Right to left)	
Control system	PLC + touch screen	
Power supply	220 V AC (Single phase)	
Total power	500 W	
Compressed air requirement	5 bar, min. 250 L/min	
Standards compliance	SMEMA	

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Manufacturing Supremacy with Absolute Control

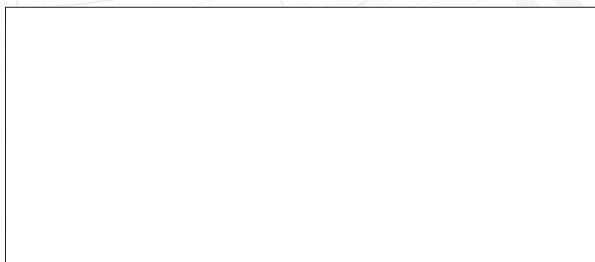
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