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MECHATRONICS  
SOLUTIONS, INC

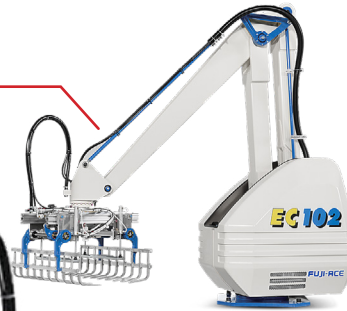


FUJI EC-171

FUJI EC-201



FUJI EC-102



# Robotic PALLETIZER

COST-EFFECTIVE  
INDUSTRIAL TECHNOLOGY



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## ROBOTIC PALLETIZERS

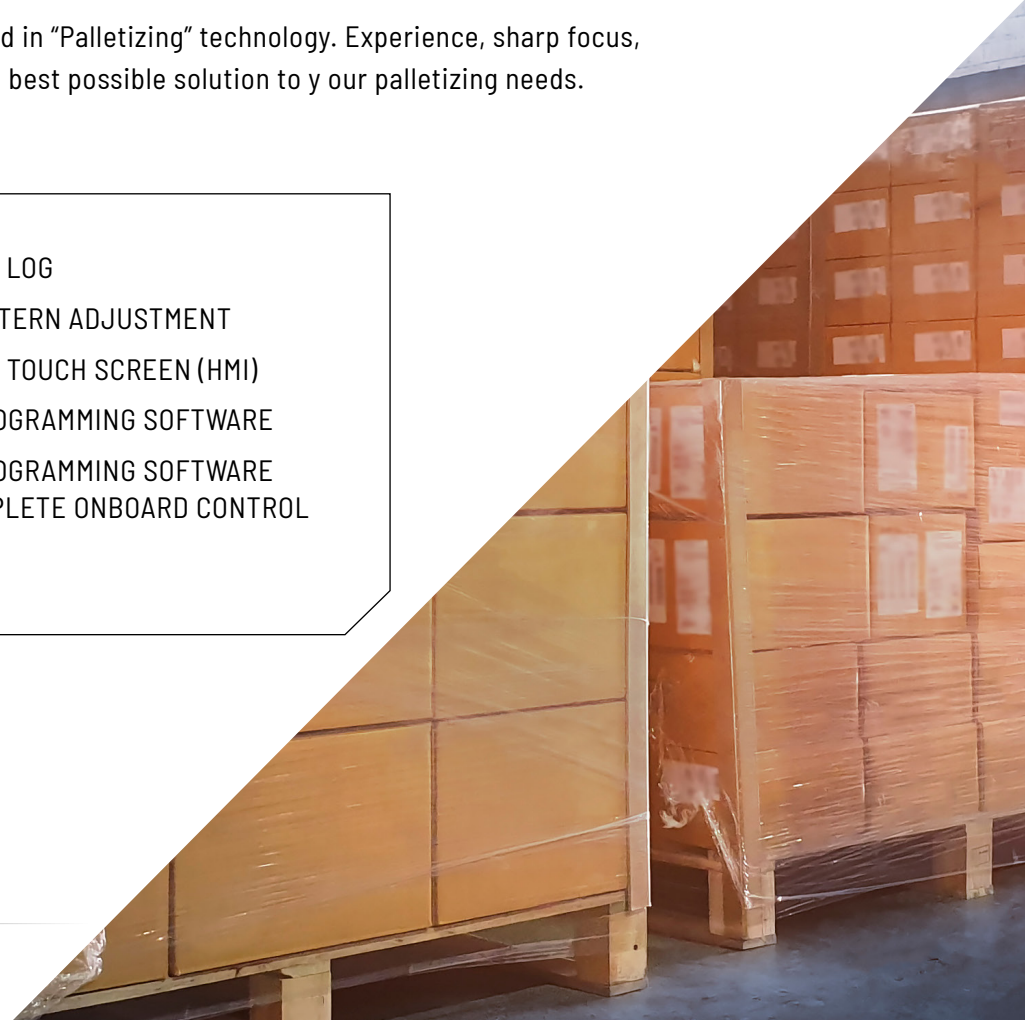
# Features

### WORLD'S LEADING PALLETIZING ROBOTS



With over 14,000 Robotic Palletizers installed worldwide, Fuji Robotics is unmatched in "Palletizing" technology. Experience, sharp focus, and dedication to the palletizing industry have enabled Fuji Robotics to provide the best possible solution to your palletizing needs.

- HIGH LEVEL PROGRAMMING SOFTWARE OFFERING COMPLETE ONBOARD CONTROL
- PRE-PROGRAMMED PALLET PATTERNS
- REAL TIME I/O MONITORING
- INVENTORY MONITORING
- UL 17 40 CERTIFIED
- ERROR DIAGNOSTICS
- ERROR HISTORY LOG
- SIMPLIFIED PATTERN ADJUSTMENT
- USER FRIENDLY TOUCH SCREEN (HMI)
- HIGH LEVEL PROGRAMMING SOFTWARE
- HIGH LEVEL PROGRAMMING SOFTWARE OFFERING COMPLETE ONBOARD CONTROL

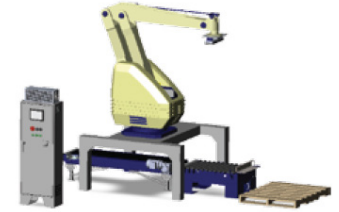
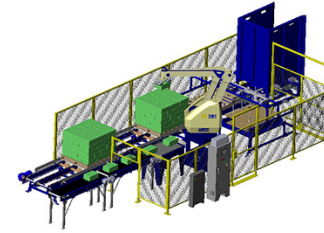
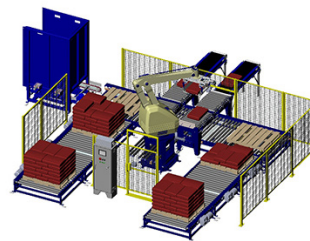
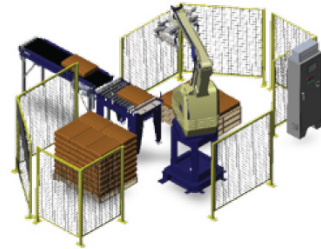


## ROBOTIC PALLETIZERS

Choose one of our standard layouts or create your own!

# Layouts

WORLD'S LEADING  
PALLETIZING ROBOTS



Fuji knows every layout may not fit an exact mold. Because of this we understand the need for total flexibility and innovative thinking to meet our customer needs. We have provided a few standard layouts that may assist in the beginning phase of your layout design.

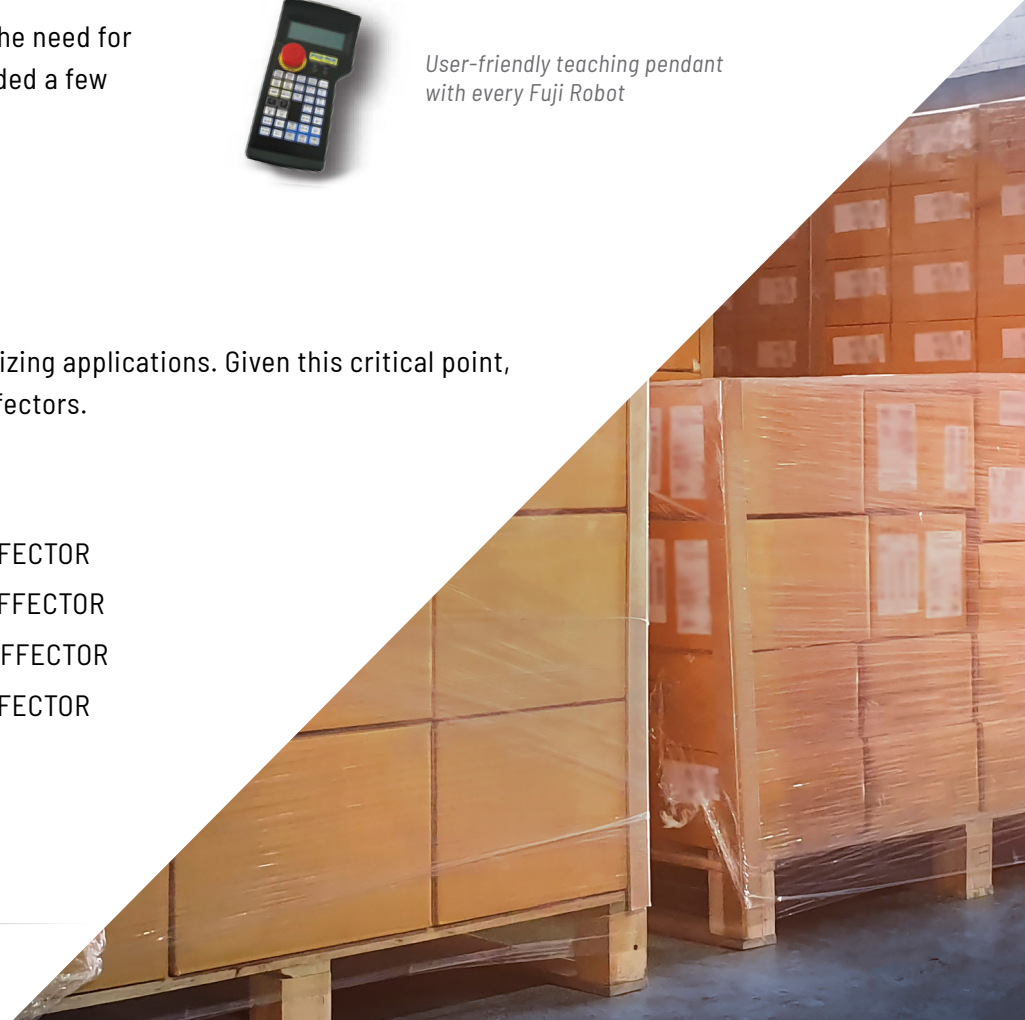


*User-friendly teaching pendant  
with every Fuji Robot*

# End Effectors

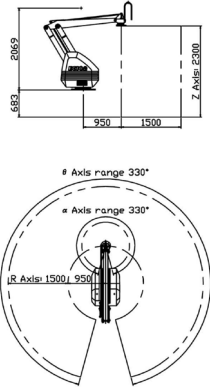
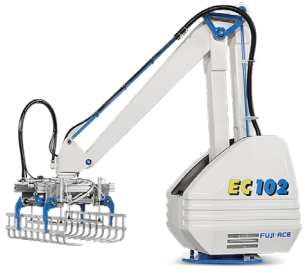
We understand how End Effectors play an intricate role in successful robotic palletizing applications. Given this critical point, we have spent years developing and refining high quality and cost effective End Effectors.

- BOX END EFFECTOR
- CAN END EFFECTOR
- BAG DEPALLEYZE
- CASE DEPALLEYZE
- BAG END EFFECTOR
- CASE END EFFECTOR
- BOOK END EFFECTOR
- BAG END EFFECTOR



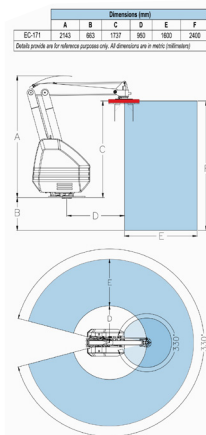


## Models



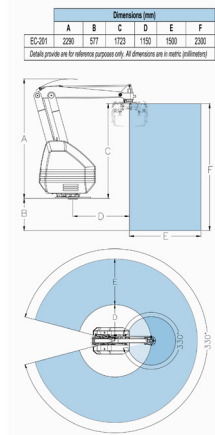
### EC-102

The EC-102 model is one of our most energy-efficient robotic palletizers, as it uses only 3.5 KV A. Given the cycle rate-to-power ratio, it provides the most cost-effective, technically capable solution for moderate production throughput lines.



### EC-171

The EC-171 robot has the largest working envelope of all Fuji Robots while maintaining the smallest rotation radius. The EC-171 is energy efficient using only 4kva while still allowing the robot to work in tight space conditions and accomplishing a very high palletizing rate.



### EC-201

Through many years of research and development the EC-201 robot is one of the most technologically advanced robotic palletizers on the market today. This model can be configured for High-Speed, or Heavy Weight applications.

Specifications		
Load Capacity (Including End Effector)	160kg (350 lbs.)	
Speed Capacity (cycles/hour)	1200	
Degree of Freedom	4-axis (5th optional on End Effector)	
Operating Area	Z axis (vertical)	2300mm (90.50")
	R axis (longitudinal)	1500mm (59.00")
	Theta axis (rotation)	330°
	Alpha axis (wrist)	330°
Memory	120 to 400 Programming Locations Available	
Power Requirements	200 / 220V, 3-phase, 50/60 Hz	
Power Consumption (Without Peripheral Equipment Load)	3.5 kva	
Robot Weight (Without End Effector)	700kg (1544 lbs.)	
Pneumatic Consumption (*Using Standard Fuji Case or Bag End Effector)	*5.7 SCFM@70psi (0.5MPa)	
<p><b>Note:</b> Specifications are subject to change without notice. Capacities as stated above are the maximum that may be achieved by the robot under ideal conditions. Capacity rates can be significantly affected by layouts, product types, and can be confirmed after a detailed analysis of an application. *Pneumatic consumption may vary with use a third-party End Effector.</p>		

Specifications		
<b>Fuji ACE Model</b>	EC-171	
Type of Motion	Multi-Articulated	
Action Mode	Cylindrical	
Load Capacity (Including End Effector)	160kg (353 lbs)	
Palletizing Capacity (cycles / hour)	1400	
Degree of freedom	4 axis	
Operating Area	Z axis (vertical)	2400mm (94.75")
	R axis (longitudinal)	1600mm (63")
	Theta axis (rotation)	330°
	Alpha axis (wrist)	330°
	Repeatability	± 0.5mm
Memory	400 programming locations available	
Teaching method	Teaching Playback / Teaching Support	
Power Requirements	(208 / 220V, 3 phase, 50 / 60 Hz)	
Power Consumption (Without Peripheral Equipment Load)	4.0 kVA / 10.5 Amps	
Robot Weight (Without End Effector)	750 kg (1654 lbs)	
Maximum Air Pressure	120 psi (0.827 MPa)	
Pneumatic Consumption (*Using Standard Fuji Case or Bag End Effector)	*5.7 SCFM @ 70 psi (.48 MPa)	
<p><b>Note:</b> Capacity rates can be significantly affected by layouts, product types and total payload weight. Accurate capacity can be confirmed after a detailed analysis of an application.</p>		

Specifications		
<b>Fuji ACE Model</b>	EC-201	
Type of Motion	Multi-Articulated	
Action Mode	Cylindrical	
Load Capacity (Including End Effector)	160kg (353 lbs)	
Palletizing Capacity (cycles / hour)	1 600	
Degree of freedom	4 axis	
Operating Area	Z axis (vertical)	2300mm (90.5")
	R axis (longitudinal)	1500mm (59")
	Theta axis (rotation)	330°
	Alpha axis (wrist)	330°
	Repeatability	± 0.5mm
Memory	400 programming locations available	
Teaching method	Teaching playback / Teaching Support	
Power Requirements	(208 / 220V, 3 phase, 50 / 60 Hz)	
Power Consumption (Without Peripheral Equipment Load)	6.5 kVA / 17 amps or 7.0 kVA / 18.4 amps	
Robot Weight (Without End Effector)	1150 Kg (2536 lbs)	
Maximum Air Pressure	120 psi (0.827 MPa)	
Pneumatic Consumption (*Using Standard Fuji Case or Bag End Effector)	*5.7 SCFM @ 70 psi (.48 MPa)	
<p><b>Note:</b> Capacity rates can be significantly affected by layouts, product types and total payload weight. Accurate capacity can be confirmed after a detailed analysis of an application.</p>		

# Application Video





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