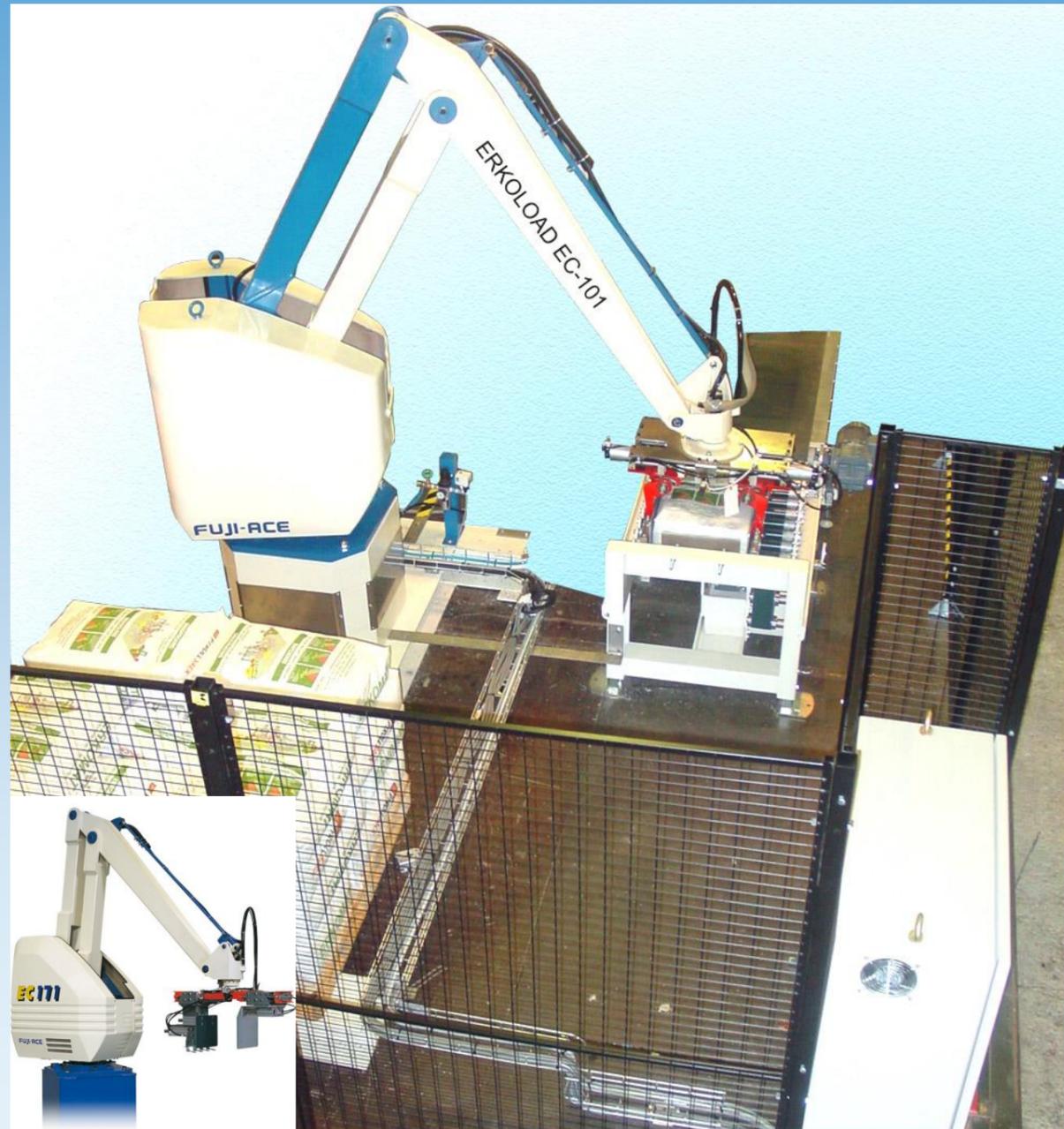


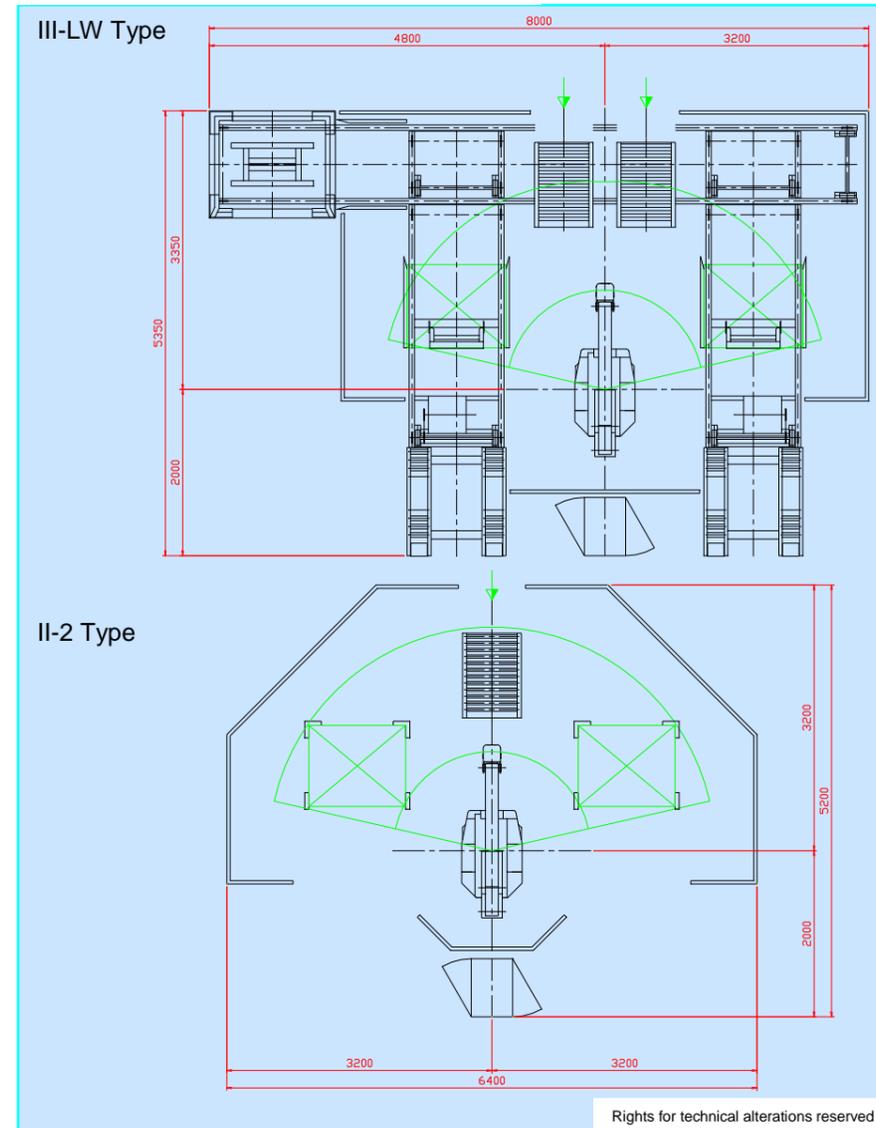
# Erkoload EC-101/171



## ERKOLOAD EC-101/171

### MATERIALS HANDLING ROBOT

TYPICAL LAY-OUT ALTERNATIVES:



EN - ERKOLOAD EC-101/171.DOC - 01/14 © Erkomat Oy

### Technical specifications:

Model	EC-101 HS/HD	EC-171 HS/HD	
Mechanism	Multi-Articulated		
Action Mode	Cylindrical		
Weight Capacity (including hand)	100 / 160 kg	80 / 130 kg	
Palletizing Capacity (cycles/ hour)	1300 / 800 c/hr	1500 / 1000 c/hr	
Degree of Freedom	Standard 4 Axes ( upto 5 Axes )		
Operational Space	- Z Axis (vert.)	2300 mm	2400 mm
	- R Axis (long.)	1500 mm	1600 mm
	- $\theta$ Axis (turn)	330 °	
	- $\alpha$ Axis (wrist)	330 °	
Hand Gripper	Clamp, Fork, Vacuum and Various Options		
Memory	30 Palletizing Blocks ( up to 400 optional)		
Teaching Method	Teaching Playback or Support/ Teachingless (Option)		
Power (220 V 3-ph. 50 Hz)	2,5 kVA	4 kVA	
Main Body Weight (without tool)	700 kg	750 kg	

#### ERKOPACKING Bagging Systems

Single filling units, automatic bagging stations and lines, closing units for valve bags with different closing methods; heat sealing, hot-melt or cold gluing, ultrasonic. Automatic bag placers with high capacity, automatic unrolling devices for rolled up bags, auxiliary equipment to bagging lines, bag palletizing equipment.

#### ERKOTEC Powder Handling

Single machines and equipment required in handling of granules and powders. Rotary valves, centrifugal and vibrating separators, diverter valves, dust removal filters, vibrating beds, fluidization equipment. Process systems for granules and powders. Storage, pneumatical conveying, dosing, weighing and automation.

#### ERKOFILLING Packing Service

Erkomat performs packing service (of bags) according to customer demands. The service also includes storage of pallets and delivery within an agreed period, in conformity with transport orders.

## ERKOMAT

POWDER HANDLING - SACK FILLING AND PALLETISING

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# ERKOLOAD EC-101/171

## A reliable and accurate robot saving energy and resources

Since the first robot arm palletizer in 1982, continual development of the robot range has brought many changes to provide a highly efficient robot capable of handling a wide variety of products. This creativity has made it possible to reach a speed of 1800 cycles/ hour (model EC-201HS) to meet the requirements of today's production lines. Let us bring to You the experience that has been acquired throughout the years. There are over 12 000 pcs of FUJI-ACE robots operating in various industries world-wide (this is the largest reference installation as palletizing robots in the world).

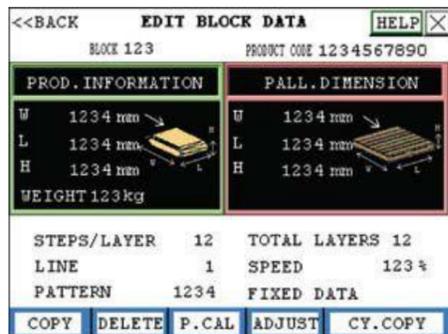
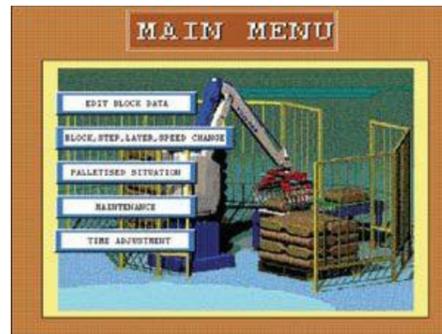
The newly conceived EC-101 and it's new, bigger model EC-171 material handling robot is the most advanced and environment friendly robot of its series. It has been designed to save energy and resources to the best. The total electric consumption is minimized by the ability of its motors to recycle electric energy. This is a compact and light weight designed robot, using aluminium parts and FRP cover. The new robot series are also co-using the main parts and components, allowing a minimization of the spare parts needed to be stocked.

## TOUCH SCREEN

### Perform all operations through the touch screen

All tasks can be done easily by the user-friendly touch screen display.

- The robot can be fully controlled through the touch screen, allowing performance monitoring of the robot
- Easier pattern check**
  - While possible patterns are displayed on the touch screen, you can directly select them on the screen
  - Teaching is easier thanks to the three way configuration
- You can select, view and modify parameters of each production line in all simplicity using the touch screen
- A colour Touch Screen is available for all models as an option

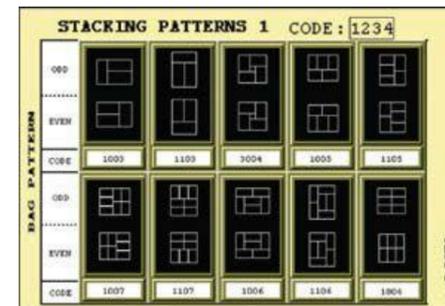


### Multifunction of the Touch Screen:

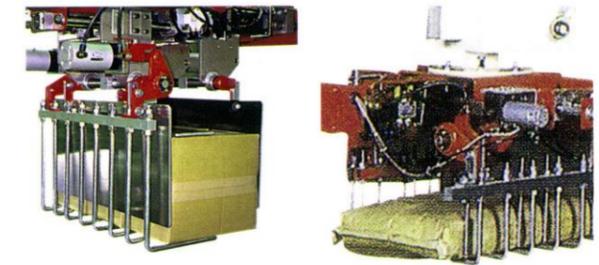
- Maintenance screen:** Provides help and assistance during robot maintenance activity
- Error logging screen:** Shows and records previous errors and their causes to avoid reoccurrence

## THREE-WAY CONFIGURATION

- Teaching playback system:** Using the special teaching box
- Teaching support system:** Required palletizing patterns are programmed in advance. These patterns' teaching can be done easily.
- Teachingless System (option):** Operating parameters of the robot can be automatically configured by inputting products and pallet data on touch screen.



## ROBOT HAND GRIPPER TO SUIT ANY REQUIREMENTS



For boxes

For bags



For depalletizing bags



For 18-liter cans



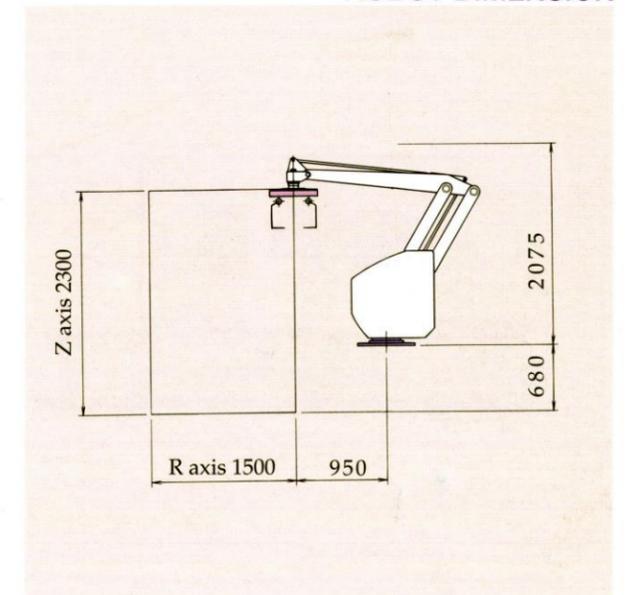
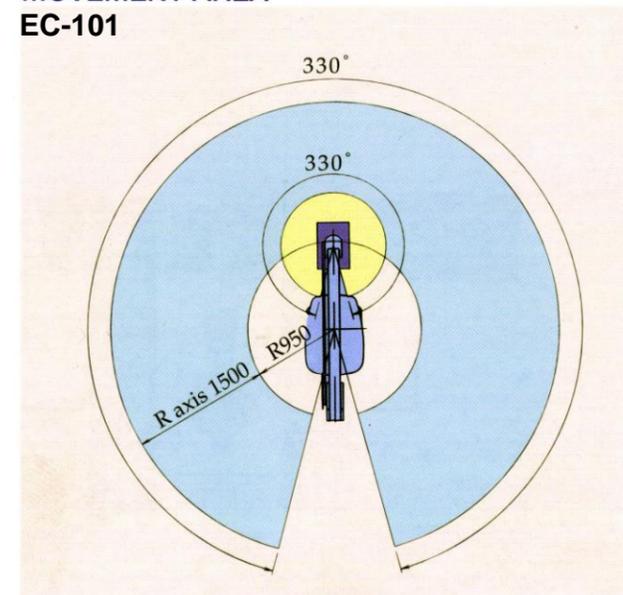
For books



For polyethylene bottles

### ROBOT DIMENSION

### MOVEMENT AREA EC-101



# ERKOPACKING SYSTEMS

## ERKOPACK-BPE

Pneumatic packer for valve bags

## ERKOPACK-BRE

Auger packer with gross scale for valve bags

## ERKOPACK-NRE

Auger packer with net scale for valve bags

## ERKOSET-SVN 1-4

Automatic valve bag placer (1-4 filling spouts)

## ERKOCLOSE-USP

Ultrasonic sealing unit for valve bag (on filling spout)

## ERKOCLOSE-USL

Ultrasonic sealing unit for valve bag (on conveyor line)

## ERKOPACK-AUT

Automatic bagging and closing system for open mouth bags

## ERKOPACK-OPT

Automatic bagging and closing system for pinch bags

## ERKOJET-BSE/ -BSE Standard & -NSE

Semi-automatic/Manual big-bag filling unit (gross&net scale)

## ERKOJET-ABF

Automatic big-bag packing systems

## ERKOLOAD-500/-1200

Automatic plate palletizer for bags

## ERKOLOAD-EC 101 / 171 / 201

Automatic robot palletizer for bags