

WORLD TECHNOLOGY
GLOBAL LEADER

labot SQ

Efficiency and Safety All in One



 **Youngchang Robotech**

+82-55-723-3570 | labot@ycrobotech.com
96, Golden root-ro 129 beon-gil, Juchon-myeon,
Gimhae-si, Gyeongsangnam-do, 50969 Republic of Korea

labot.youngchang.co.kr





You don't need more. You need Labot.



Dimensions (LxWxH) / Weight		2600x2060x2200 mm		3600x2060x2200 mm	
Control Software		Smart EZ			
Power Supply (KVA)		5kVA			
Pneumatic Pressure (bar)		5bar			
Robot	Fanuc Robot	M20iD/35 (35kg Payload)			
		M-710iC/50 (50kg Payload)			
Robot Hand (Standard)		Dual 3-Jaw gripper (8.6kg)			
Robot Hand Gripper Control		Pneumatic			
Dimension of Cart (LxWxH)		1220x700x895 mm			
Number of Cart		2,4			
Vise Arrangement		3x5	4x4	5x6	6x7
Max. Workpiece Diameter (mm)		205x205x90	205x150x150	66x120x100	120x120x100
Workpiece Capacity (Per Cart / Total)	2 Carts	15/30	16/32	30/60	42/84
	4 Carts	15/60	16/64	30/120	42/168
Safety	Laser Scanner Sensor	Option			
	Safety Fence	Standard (Lock type: Option)			



Pneumatic Pressure Control Hand System

- Built-in solenoid valve box in the hand for instant pressure monitoring and adjust.
- Digital seating switch provides intuitive feedback on correct workpiece placement, minimizing errors.
- Flexible pressure control supports various materials and sizes, reducing damage risk and enhancing productivity.



Quick-Shift Cart Loading System

- Seamlessly secure and transport materials with enhanced mobility, free from location or distance limits.
- Four versatile cart options flexibly adapt to different sizes and weights for efficient loading.



Dual-Cart Operation System

- Cart-based layout enables simultaneous loading and unloading.
- Parallel workflow allows operator and robot to work efficiently without interruption.
- Alternating carts minimize setup and changeover time, enabling rapid transitions and continuous uptime.



Perimeter Safety Fence System

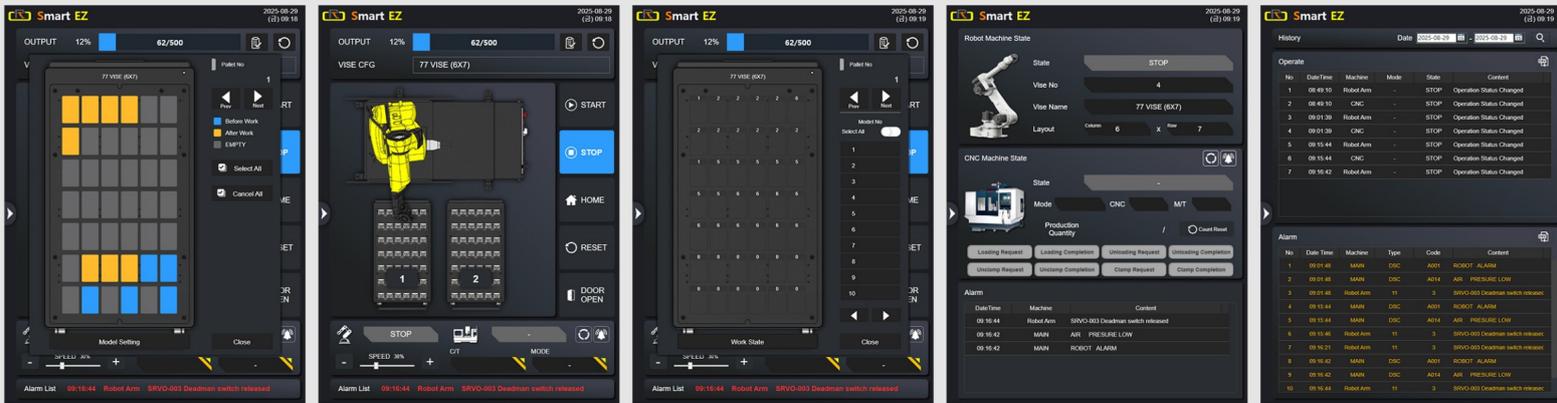
- Surrounds the work area with a durable safety fence to eliminate potential hazards.
- Maintains a controlled environment, ensuring maximum operator protection.



Bottom Area Sensor

- Cart-entry sensor ensures operator safety through instant detection and stop.
- Maintains continuous uptime while protecting both people and equipment.

SMART EZ



- Intuitive drag-and-drop interface designed for effortless use even by first-time users
- Fast and simple machine-to-robot connection and setup in just few simple steps
- Smart, User-friendly robot programming tools that require no prior coding experience
- Automatically generates optimized robot paths with minimal teaching time

Application Solution	Labot Series
Application Robot	Universal Robot
	Hyundai Robot
	Fanuc Robot
Machine Interface	Focas (Fanuc CNC)
	EtherNet/IP, Profibus-DP
OS	Digital I/O
Touch PC	Windows
	Standard (21" PC)