Doosan
Palletizing System

Optimized solution for a palletizing applicationv

Doosan Palletizing Solution

❶ Doosan Collaborative Robot (H-SERIES)
· Max. 25 kg Payload
· Max. 1.7m Reach

❷ Light weight vacuum gripper
· Composed multiple no. of vacuum pads
· Weight of gripper: 3kg (approx.)

❸ Doosan Dress Pack
· Arrange harness, connected to tool
· Doosan's official accessories

❹ PC
· Touchable PC(Win OS.)
· Built-in SW for palletizing application

❺ Lift System
Servo actuator lift system

❻ Radar Sensor
· Installed to 3 directions
· Detect range for safety (Up & Down, Left & Right)

❼ Wheels for mobility
Easy to install for a varous location

Why Doosan Palletizing Solution?

Easy·Fast
· Setting a task just input the basic information
· Easy setting with intuitive SW for beginner (within 10min.)

Space Saving
· Install without a fence
with collaborative robot solution
· Movable freely for
a required location

Economical solution
· Basic composition
including all components
(robot, tool, safety device and SW)
· Realizing fast ROI with
price competitiveness

Improved Productivity
· Max payload 25kg
(Using Lightweight gripper, handling up to 22kg)
· Max load Reach 2.2m
*Lift and gripper customizable

Safe Solution
· Collaborative robot with the highest level of
functional safety(Cat 4, PLe)
· Set safe zone with built-in radar sensor

Lift System
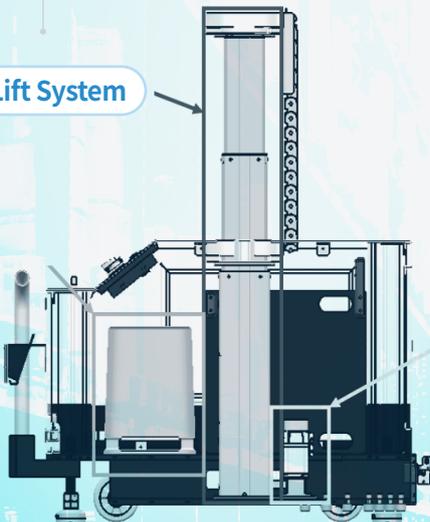
Servo Motor

Palletizing Solution
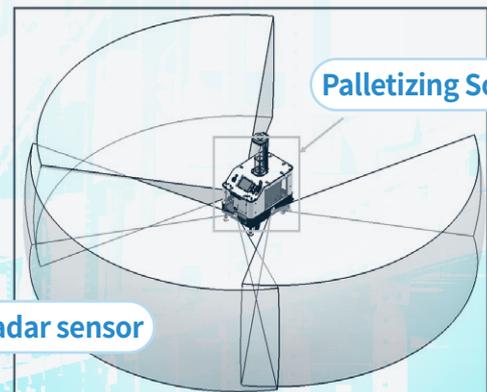
Range of Radar sensor

Composition of front system

❶ Main Power Button : Main power button(on/off)

❸ Reset Button : Reset for components and signals (Servo motor and Robot Alarm)

❺ Abort(Stop) : Stop the task / motion

❼ Select Mode : Set a system(Auto/Manual/Single)

❾ Switch for Touchable PC(On/Off)

❷ Start : Start a set operation

❹ Origin : Moving the origin position of components (robot, lift system etc.)

❻ Servo On : Switch for servo-on of robot

❽ Extra component: Power Socket, USB and Ethernet Port

❿ E-stop: Emergency Stop switch for whole system

Specification

Doosan Collaborative Robot(H-SERIES)

H2017 20kg Payload, 1700mm Reach	H2515 25kg Payload, 1500mm Reach

Repetability	±0.1 mm

Built-in high resolution torque sensor to all axis for usability and safety

Highest grade of Functional safety (Cat4, PLe)

Basic composition	Robot Arm, Controller, Teach Pendant

System(Base)

Size	650 x 1400 x 865 mm		
Power Supply	110V ~ 220V, 50~60Hz, Max. 15A	**Operating temperature**	0 ~45℃
Weight	300kg	**IP rating**	54
Lift System	Applying servo-actuator lift system (Max. 0.7m)*		
Industrial communication	RS232/USB 3.0(RS422/485), TCP/IP, Modbus TCP/Modbus RTU/Ethernet/Profinet		

*Specification of lift(stroke) can be customized

Doosan Robotics

Contact sales.robotics@doosan.com | pmsol.robotics@doosan.com

155, Jeongjail-ro, Bundang-gu, Seongnam-si, Gyeonggi-do