

Robotic & Automation System

VEPRO
MACHINERY



Count us as your
partner

Peripheral equipment

We are supplying various peripheral equipments towards a comprehensive and fully integrated production line:

Conveyor system



Auto pallet dispenser



RGV



Turntable



Conveyor lane diverter



Various types of grippers head



Pusher



Palletising System

Our robotic palletising system deploys 4 or 6 axis articulated robots for flexible, high durability palletising solution. Ranging from payload of 3kg to 500kg, Vepro robot palletising can handle up to 3000 cartons per hour. End effector customisation is our core competency in response to customer requirement. They can operate at up to 5-7 cycles per minutes or faster with payloads that can be up to 500kg. Besides, it can collect empty pallets from magazines, slip sheets and cohesive with various types of picking head like gripper, suction pad, clamping and others. It can palletise up to a 4 standard pallets to the front of the robot, or more depending on the pallet location and robot handling speed.



Figure 4: Integrated robotic palletizing system for multiple production line

Industrial Robot Technical information:

Technical Spec\Robot	Articulated Robot	FlexPicker
Handling Application	Pick & place, palletising, education, advertising and others	Pick & place
Product Load	5kg – 300kgs	1 – 3 kgs
Cycle times/hour *Subject to application	1000 – 3000 cartons/hour	700- 8000 pick/hour
Picking Head	Gripper, Clamping, suction and others custom design for different handling	
Product types	Glass bottle, PET bottle, carton, bag, tray and others	
Palletising handling	Per item, per row and whole layer	



Figure 6: Palletising robot with gripper

All grippers are custom designed to handle multi tasks. It can grip 1-4 cartons depending on requirements.

Robotic system provide faster cycle times, more accurate, consistent and non stop 24/7 operation. The system is flexible and reprogrammable. Tool changing can be used for nitch application. The robot can accomodate different product incoming combination. The system can handle different forms of products, not restricted to the following: carton, bag, tray, crate, pail etc. It allows to receive different products for multiple-in-feed lanes and place them in various locations.



Layer Palletising System

For high speed palletising solution, we offer layer picking. Layer formation can be done by conventional matrix way or by robots.



Educational System

Our innovative ideas extend into educational sector. We offer robotic training system to fit various syllabus of teaching aid from colleges, univeristies and technology center.

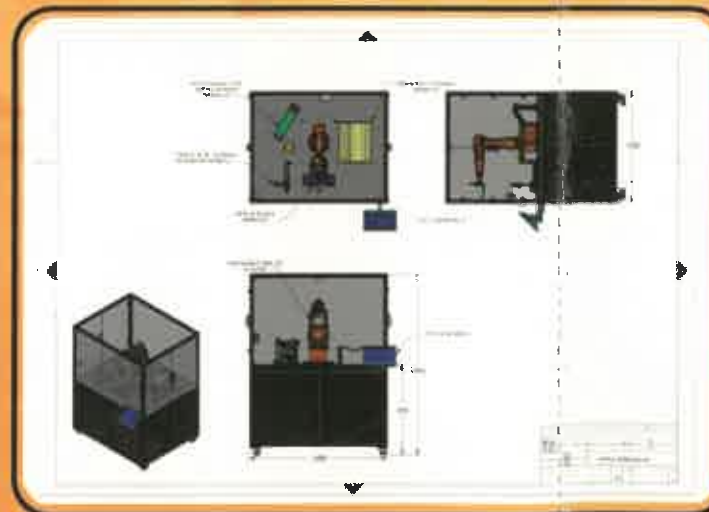


Figure 5: Robotic pick and place training kit for education institute



Figure 7: Palletising robot with suction mechanism



Robotic & Automation System

In Vepro, we offer the most innovative and comprehensive robotic system with multi axis articulated robot for various product handling, focusing on food and beverage industries. As a turn-key integrator of robotic system, we provide robotic pick and place, palletising, educational and other end line packaging machineries which can be fully integrated into a complete production line if required. We provide simple, versatile, easy to maintain and most of all, cost effective factory automation which provide long term cost-saving in a plant.



Pick and Place System

Our robotic pick and place system picks the products and place them into various locations. The custom designed robot gripper can handle different types of shapes of products and maximize per pick quantity based on output capacity. Products like bottles, sachet, pouch, individual pack, display carton, tube etc. can be picked and placed at the designated area. Separation and re-orientation can be performed when the need arises.



Figure 3: Bottle Pick and Place to carton box



Figure 1: Display carton insertion to box



Amazing World's Fastest Robot, 'ABB FlexPicker'

ABB Flexpicker is invented for its new, ultra-sanitary and high speed robotic pick and place system. It is hygienically designed for high capacity industries like meat, biscuit, chocolate, dairy product, ready-made meals and others.



Figure 2: Bottle Pick and Place to carton box



Contact



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