

3D BIN PICKING SYSTEM

Automates the repetitive and labor-heavy task of feeding lines or CNC Machines

- Increased part handling accuracy using 3D Vision Technology
- Improves cycle time & efficiency
- Flexible set-up for multiple part types
- Modular design for simplified installation
- Available in two standard sizes
- Lowers operating cost and increases throughput
- Basic design allows for either a conveyor to come out with parts to feed a line, or load directly in-to a machine
- Options for conveyor location on three sides, or machines on two sides



FEATURES

- FANUC Robot with 3D Sensor
- Payload (magnet & part)
- Part Weight
- Cycle Time (seconds)
- Bins (2 bins) 35”(L) x 30”(W) x 28” (H) (890x760x710mm)
- Built in Robot Controller
- 3D Area Sensor Positioned by Servo Axis
- Magnetic, Vacuum or Mechanical Gripper
- Exit Conveyor Available, Exiting from (3) Different sides
- Maximum Noise Level 76dB (A)

VBP-35

M20/35
16kg.
8kg.
18-20

VBP-80

R1000/80
28kg.
14kg.
20



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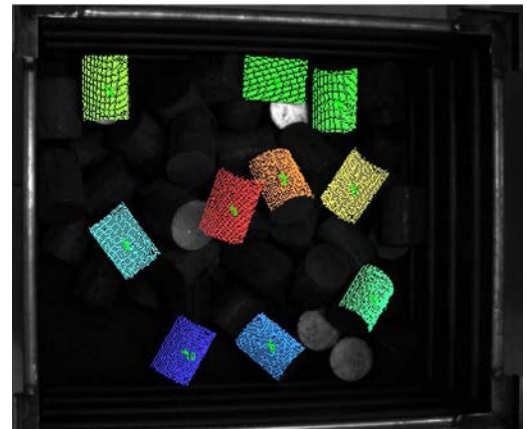
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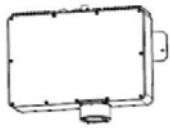



3D AREA SENSOR

FEATURES

- Acquires detailed 3D point cloud in one snap using stereo vision with visible, structured light
- iRVision features full suite of vision tools for 3D data analysis
- 3D vision tools can be combined with iRVision's existing and powerful 2D tools using either camera
- Bin picking software suite features Interference Avoidance and Part List Manager
- IP65 rating for projector unit and cameras
- Up to four (4) 3DAS systems can be connected to a single controller
- The sensor is fully integrated into the controller



Type	3DA/1300	3DA/400
Projector Appearance		
Measurement Range (mm) (W x D x H)	1340 x 1000 x 1000 to 400 x 300 x 300	400 x 300 x 300 to 200 x 150 x 150
Measurement Time	2 ~ 3 sec. (depending on setup)	
Measurement Resolution in Height direction (Z)	Z: ± 2.3mm (for measurement range 1340 x 1000 x 1000)	Z: ± 0.7mm (for measurement range 400 x 300 x 300)
Number of 3D Points	Normal Mode High-Speed Mode High-Density Mode	app. 45000 points (239 x 192) app. 11000 points (119 x 96) app. 180000 points (479 x 384)
Number of 3D Sensors	Up to 4 per a robot controller	
Installation Environment	Ambient Temperature: 0 to 45°C Ambient Humidity: Normally max. 75% RH or less (No dew, nor frost allowed) Short term max. 95% RH or less (within one month) Vibration: 0.5G or less	



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