YASKAWA

PRODUCT BULLETIN

Product: **MotoSight™ 3D BinPick**

Release Date: *7/29/16*

Part Number:	Description:
176609-1	Accessory, MotoSight 3D BinPick with RV300 Vision Head
176610-1	Accessory, MotoSight 3D BinPick with RV500 Vision Head
176611-1	Accessory, MotoSight 3D BinPick with RV1100 Vision Head

MOTOSIGHT 3D BINPICK

Description:

MotoSight 3D BinPick is a hardware/software solution utilizing a Canon 3D machine vision system to accomplish random bin picking. Part recognition is accomplished using part CAD data allowing even complicated parts to be handled. Three packages are available to cover a range of bin sizes.

Features:

- Easy to use; system utilizes 3D CAD (.step file format) for part training which greatly simplifies setup
- Full 3D CAD matching used to locate parts
- Performs interference checking between EOAT and the bin
- System determines best pick solution based upon defined pick options, pick limits, and bin interference
- Part location data is transferred to the robot control via Ethernet
- Requires only a single 3D vision head (camera and lighting integrated into one device)
- Utilizes structured lighting to locate parts (no need for additional lighting)
- Calibration target included
- Automatic bin locator
- Empty bin detection
- Automatic exposure and gain adjustment
- Up to 200 part models supported

System Requirements:

PC

- Windows® 7 Professional with SP1 x64
- Core i7 processor
- 12GB RAM minimum, 16GB preferred
- 600W power supply or higher with at least one graphic card connector
- Three Gigabit Ethernet Ports, one must be Intel EXP19301CT or Intel 1210T1
- nVIDIA GeForce GTX970 (4GB) or greater
- SXGA (1280x1024) or Higher

Compatibility:
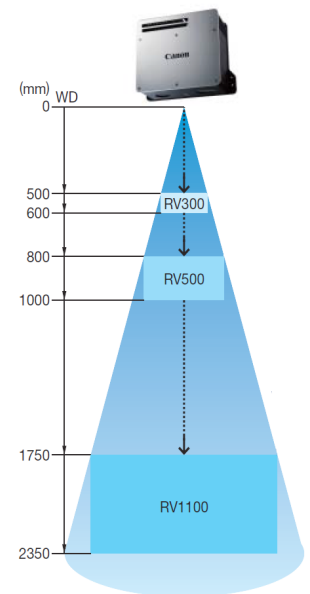
- DX200

MOTOSIGHT 3D
BINPICK

Options:

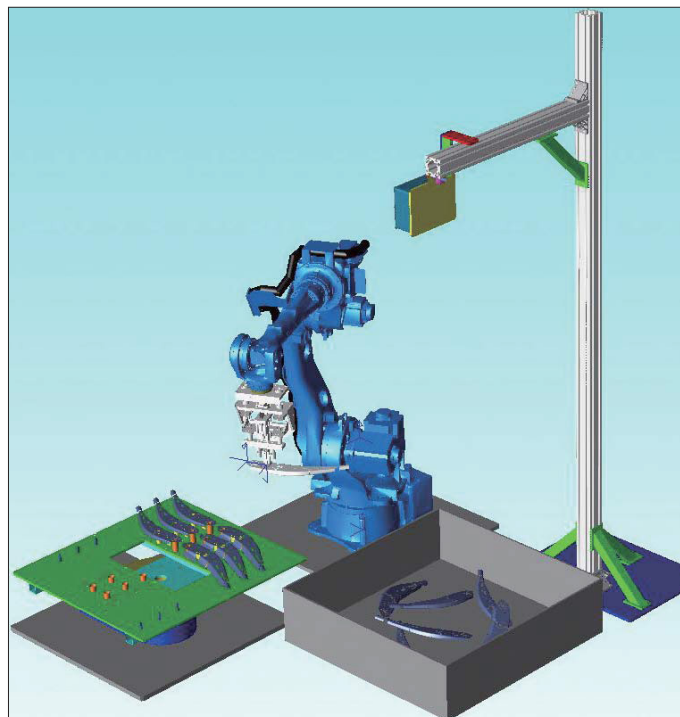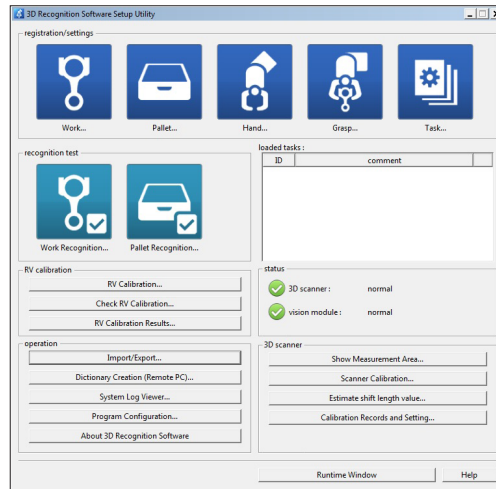| Part Number	Description
176946-1	Slider Mount Support (Add the ability to move the vision head over a second bin)
176947-1	External Dictionary Creation (Create recognition dictionary on a non-production PC)
176948-1	Batch Recognition with multiple bins
176949-1	Consecutive Recognition Checking
176950-1	Partial Work Recognition

Vision Heads:

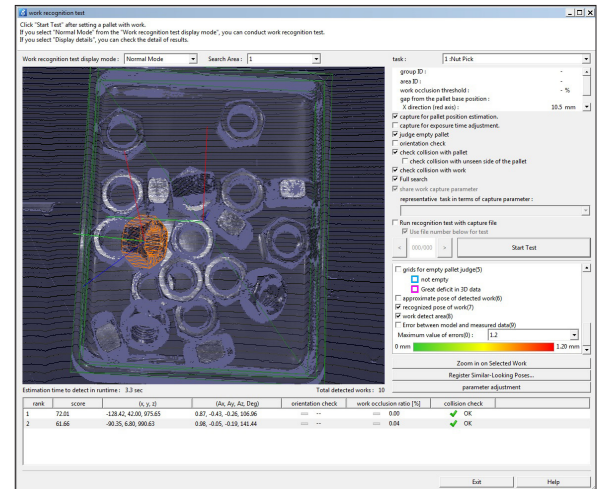| Model	Measurement Range (mm)	Minimum Part Size (mm)
RV300	340 x 340 x 100	10 x 10
RV500	540 x 540 x 200	20 x 20
RV1100	1160 x 1160 x 600	45 x 45

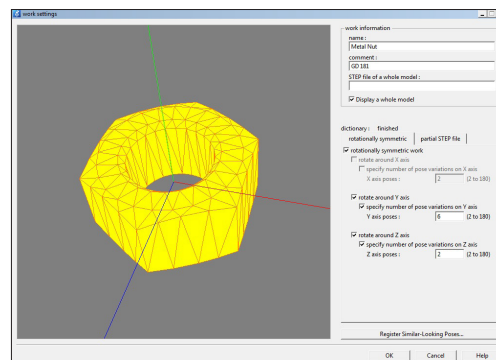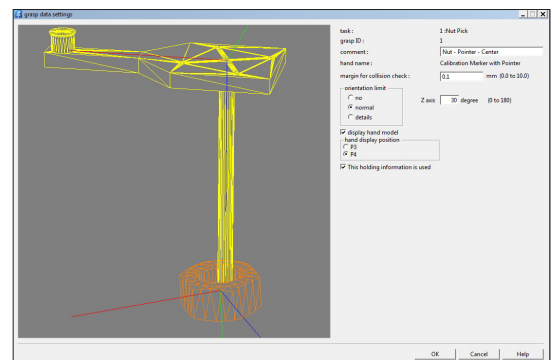

Example Configuration:

Screens:

Main Screen

Part Recognition

Part CAD Data

Robot Tool Model

MOTOSIGHT 3D BINPICK