

# MVS SERIES APPLICATION

**MVS** Series

**CVS** Series

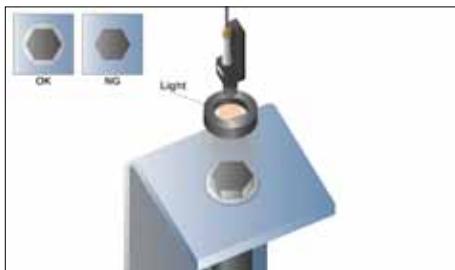
**MVS Series  
APPLICATION**

**MVS-PM/R/EM-R**

**MVS-OCR2**

**OPTIONS**

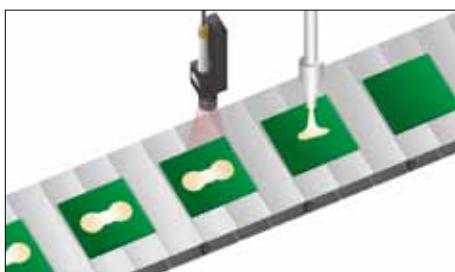
## 1. Detecting presence of metal washer



**MVS-PM-R**  
-Detect its area by color

**MVS-EM-R**  
-Measure the diameter of the washer

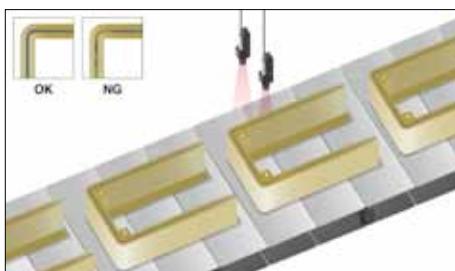
## 3. Checking amount of paint or glue applied



**MVS-PM-R**  
-Check its area by color

**MVS-EM-R**  
-Measure its size in X/Y

## 5. Check bead of sealing rubber for continuity



**MVS-PM-R**  
-Check color area of the rubber

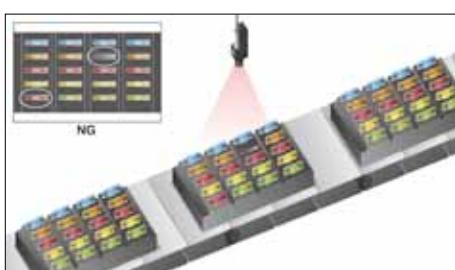
## 7. Checking shape of O ring



**MVS-PM-R**  
-Check shape by contour

**MVS-EM-R**  
-Measure the diameter

## 9. Verifying fuse position and type in fuse panel



**MVS-PM-R**  
-Check color of fuse and position  
-Lighting to be mounted from side to reduce surface reflection

## 2. Checking engine spark plugs



**MVS-PM-R**  
-Contour matching

**MVS-EM-R**  
-Measure its character

**MVS-OCR2**  
-Check the part number

## 4. Checking engine position



**MVS-PM-R**  
-Check position by pattern matching

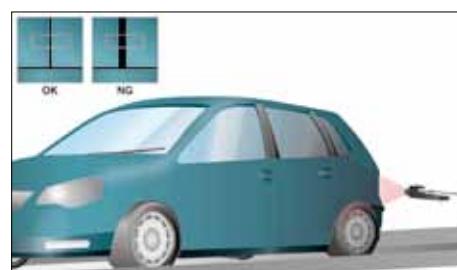
**MVS-EM-R**  
-Measure the distance of body - engine

## 6. Checking display of vehicle speed panel



**MVS-PM-R**  
-Check color area in each part  
-It can check up to 16 parts utilizing 16 inspection windows

## 8. Checking gap between doors



**MVS-PM-R**  
-Check area of the gap

**MVS-EM-R**  
-Measure the gap

## 10. Checking shape of piston valve



**MVS-PM-R**  
-Check the shape by pattern matching

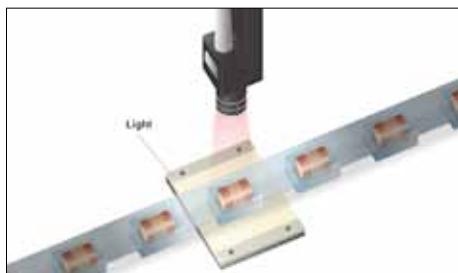
**MVS-EM-R**  
-Measure the dimensions

### 11. Check flame to ensure the presence of material



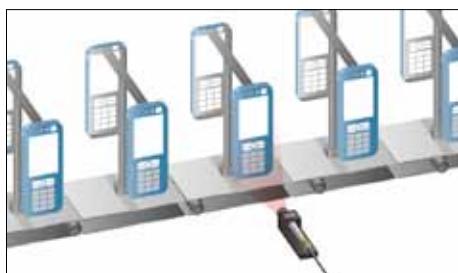
**MVS-PM-R**  
-Check color area of flame

### 13. Check direction of parts in emboss taping



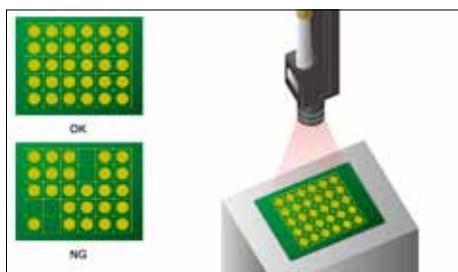
**MVS-PM-R**  
-Check the direction by color pattern matching

### 15. Checking the color of paint on parts



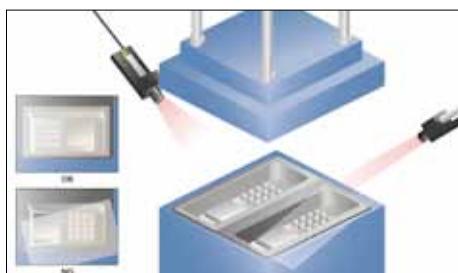
**MVS-PM-R**  
-Check for correct color accuracy and application

### 17. Checking existence of paste on PWB



**MVS-PM-R**  
-Check existence of the paste by pattern matching

### 19. Detecting misalignment of material in tooling machine



**MVS-PM-R**  
-Check material contour

**MVS-EM-R**  
-Measure object position from edge

### 12. Check LED color and parts position



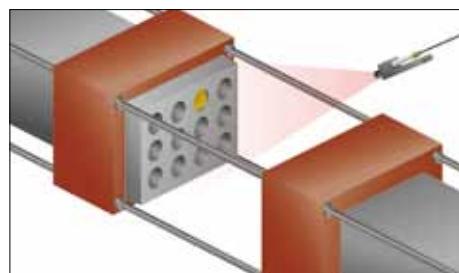
**MVS-PM-R**  
-Check parts position and area by color

### 14. Measuring pitch of lead frame



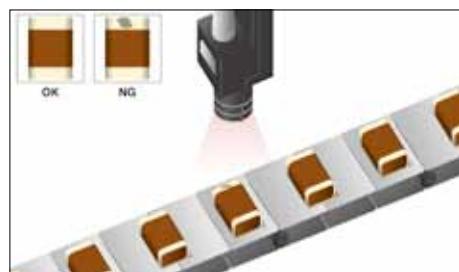
**MVS-EM-R**  
-Measure the pitch in Max., Min. and Mean

### 16. Check presence of parts in tooling machine



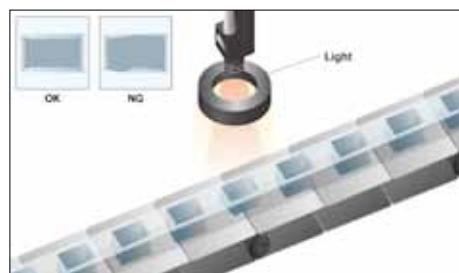
**MVS-PM-R**  
-Check the presence of parts by color pattern matching

### 18. Checking surface condition of chip parts



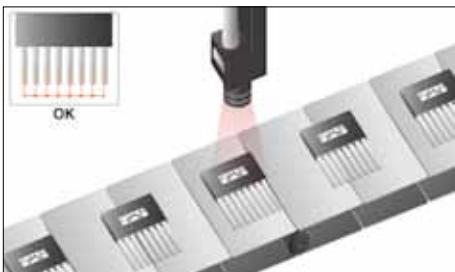
**MVS-PM-R**  
-Check stain area on the surface of the chip parts

### 20. Checking shape of emboss taping



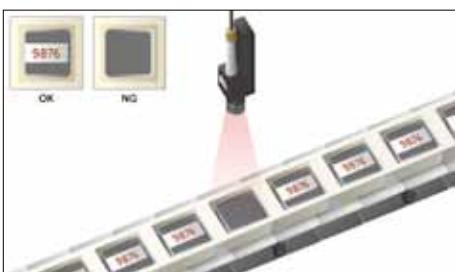
**MVS-PM-R**  
-Check its shape by contour or full color

## 21. Checking lead pitch of parts



**MVS-EM-R**  
-Measure pitch of multiple leads in max., min. and mean.

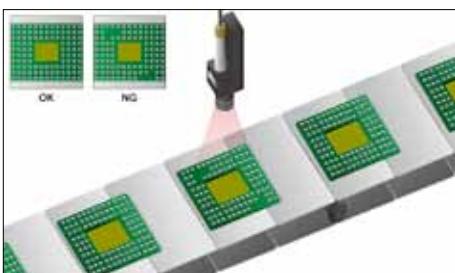
## 23. Check the marking on chip parts



**MVS-PM-R**  
-Check existence of mark

**MVS-OCR2**  
-Check the characters printed on the chip

## 25. Checking existence of solder balls



**MVS-PM-R**  
-Check color area of the solder balls by utilizing multiple inspection windows (max. 16)

## 27. Checking wafer position in FOUN



**MVS-PM-R**  
-Check wafer position by color area utilizing multiple inspection windows (max.16)

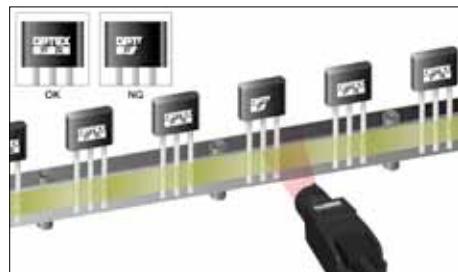
**MVS-EM-R**  
-Check distance between wafers

## 29. Checking condition of vacuum collet tip



**MVS-PM-R**  
-Check the shape by pattern matching

## 22. Check printing on transistors



**MVS-OCR2**  
-Check the characters printed on transistors

## 24. Checking position of orientation flat



**MVS-PM-R**  
-Check the area

**MVS-EM-R**  
-Check the distance between edges

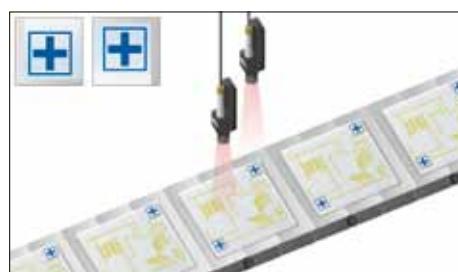
## 26. Checking position of wafer on handling machine



**MVS-PM-R**  
-Check its position in the inspection window

**MVS-EM-R**  
-Check the distance between edges

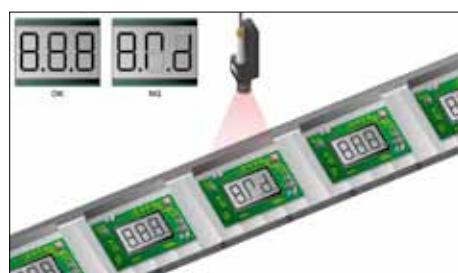
## 28. Checking position of reference mark on PWB glass



**MVS-PM-R**  
-Check its position by pattern matching

**MVS-EM-R**  
-Measure distance between edges

## 30. Checking segments of LCD display



**MVS-PM-R**  
-Check its condition by contour matching

### 31. Checking shape of rubber ring



**MVS-PM-R**  
-Check its shape by pattern matching

**MVS-EM-R**  
-Measure distance between two outermost and innermost edges

### 33. Checking lid alignment



**MVS-PM-R**  
-Multiple points on the lid are checked to determine alignment

### 35. Checking shape of plastic bottles



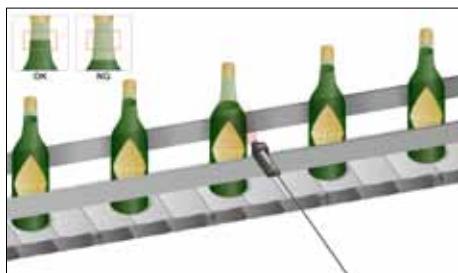
**MVS-PM-R**  
-Check the shape by contour

### 37. Checking number and type of bottles



**MVS-PM-R**  
-Check for presence of each bottle by color pattern matching

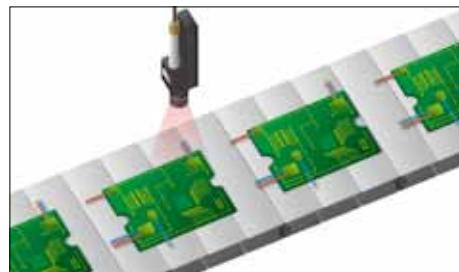
### 39. Checking level of liquid in bottle



**MVS-PM-R**  
-Check color area of the liquid in the bottle

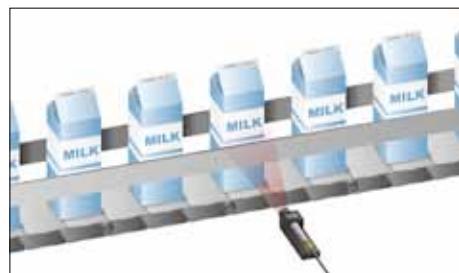
**MVS-EM-R**  
-Measure position of liquid surface in the bottle

### 32. Check for the presence of parts and correct order on PWB



**MVS-PM-R**  
-Check color area utilizing multiple inspection windows (max. 16)

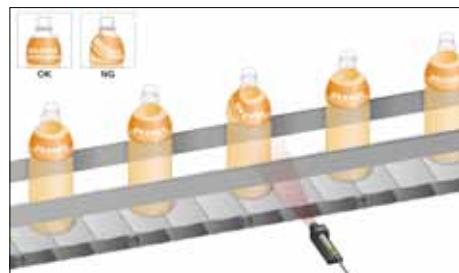
### 34. Checking shape and printing on milk package



**MVS-PM-R**  
-Check the shape by its contour or other pattern matching

**MVS-OCR2**  
-Check for printing on the package

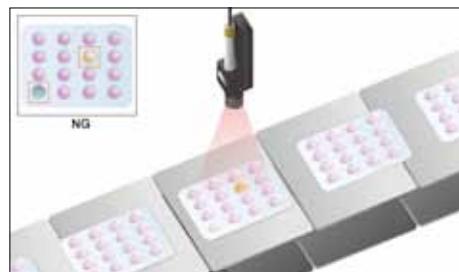
### 36. Checking for label on plastic bottle



**MVS-PM-R**  
-Check its position and type by color pattern matching

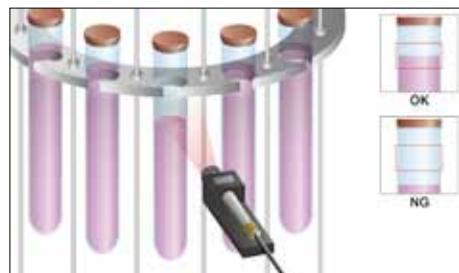
**MVS-OCR2**  
-Check characters printed on label

### 38. Checking position and type of pills in dispenser



**MVS-PM-R**  
-Check position and type by color pattern matching

### 40. Checking level of liquid in tube



**MVS-PM-R**  
-Check color area of the liquid in the tube

**MVS-EM-R**  
-Measure position of liquid surface in the tube

## 41. Checking characters printed on pouch



**MVS-OCR2**  
-Check characters on the pouch

## 43. Checking characters printed on yogurt lid



**MVS-PM-R**  
-Check characters on the lid by color pattern matching

**MVS-OCR2**  
-Check characters on the lid

## 45. Checking presence of label attached for ad campaign



**MVS-PM-R**  
-Check its position by color pattern matching

## 47. Detecting defects on bottle



**MVS-PM-R**  
-Detect defects by checking the contour

## 49. Detecting lid position on the bottle



**MVS-PM-R**  
-Check its position by color pattern matching

## 42. Detecting condiments in instant food package



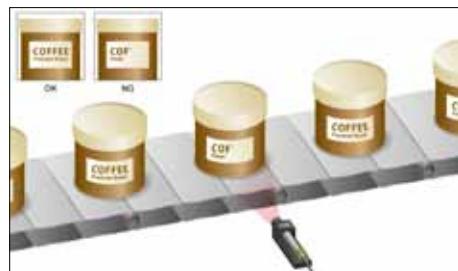
**MVS-PM-R**  
-Check color area of each condiment

## 44. Checking existence of blob or stain on a bottle cap



**MVS-PM-R**  
-Check surface condition by stain area and color area

## 46. Checking for characters printed on package



**MVS-PM-R**  
-Check character by color pattern matching

**MVS-OCR2**  
-Check character on the package

## 48. Checking position of heat sealing on pillow packaging



**MVS-PM-R**  
-Check the position of heat sealing area by color pattern matching

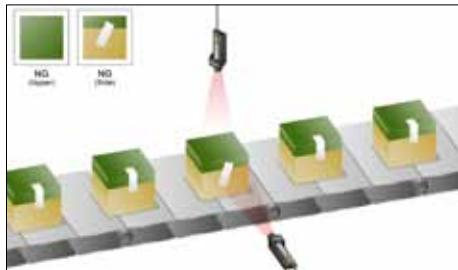
## 50. Checking for correct order in Calendar sorting



**MVS-PM-R**  
-Check pattern by unique characteristics of each sheet

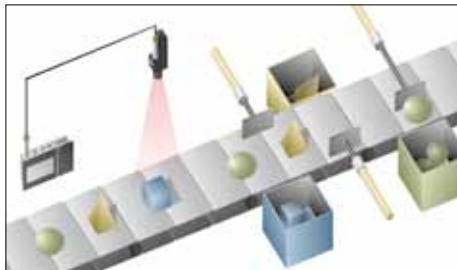
**MVS-OCR2**  
- Check printed characters

### 51. Checking presence and position of packing tape



**MVS-PM-R**  
-Check the position by color pattern matching

### 52. Sorting objects by shape



**MVS-PM-R**  
-Check and sort objects by shape

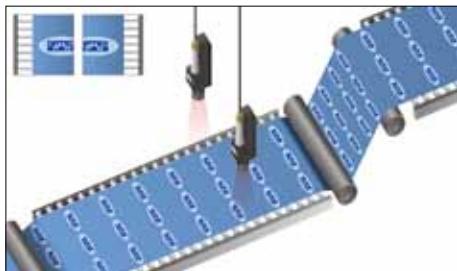
### 53. Checking position of printing material



**MVS-PM-R**  
-Check deviation of the mark from original position

**MVS-EM-R**  
-Measure position of the mark

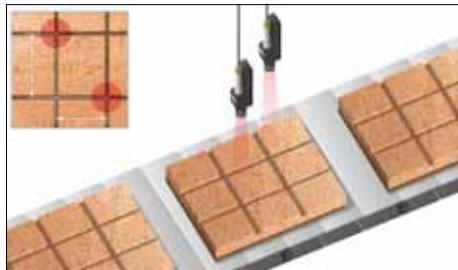
### 54. Measure width of sheet material



**MVS-PM-R**  
-Check deviation of the edge from original position

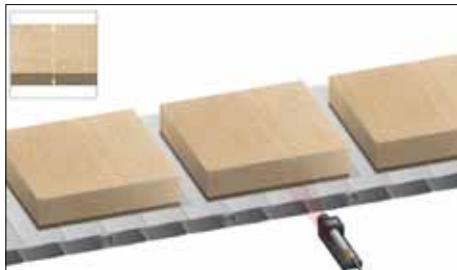
**MVS-EM-R**  
-Measure position of the edge

### 55. Measuring dimension of object



**MVS-PM-R**  
-Measure distance between two edges

### 56. Measuring thickness of object



**MVS-EM-R**  
-Measure distance between two edges

### 57. Checking size of rubber bank



**MVS-PM-R**  
-Check area of the rubber

**MVS-EM-R**  
-Measure distance between two edges of rubber

### 58. Checking shape and surface condition of plastic parts



**MVS-PM-R**  
-Check the shape by contour and check the surface condition by stain area and color area