

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

2. Checking engine spark plugs

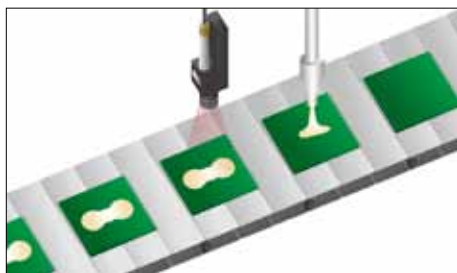


MVS-PM-R
-Contour matching

MVS-EM-R
-Measure its character

MVS-OCR2
-Check the part number

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

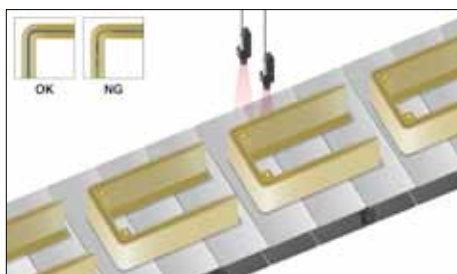
4. Checking engine position



MVS-PM-R
-Check position by pattern matching

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

5. Check bead of sealing rubber for continuity



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

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

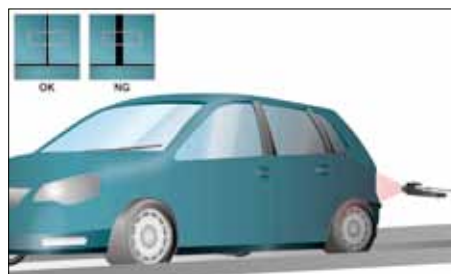
7. Checking shape of O ring



MVS-PM-R
-Check shape by contour

MVS-EM-R
-Measure the diameter

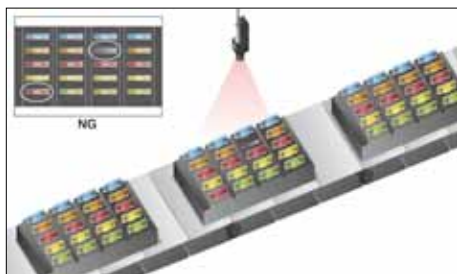
8. Checking gap between doors



MVS-PM-R
-Check area of the gap

MVS-EM-R
-Measure the gap

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

10. Checking shape of piston valve



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

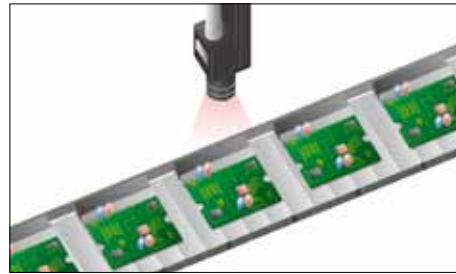
MVS-EM-R
-Measure the dimensions

11. Check flame to ensure the presence of material



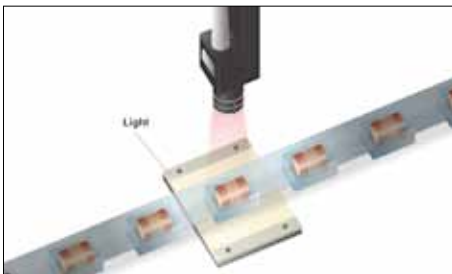
MVS-PM-R
-Check color
area of flame

12. Check LED color and parts position



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

13. Check direction of parts in emboss taping



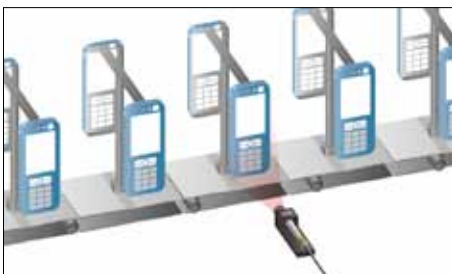
MVS-PM-R
-Check the
direction by
color pattern
matching

14. Measuring pitch of lead frame



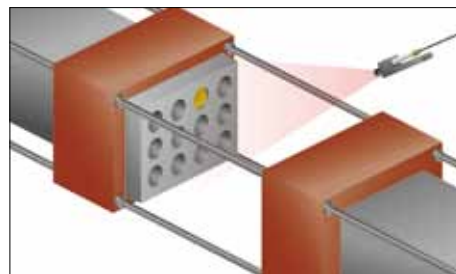
MVS-EM-R
-Measure the
pitch in Max.,
Min. and
Mean

15. Checking the color of paint on parts



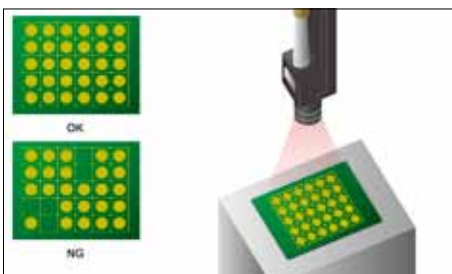
MVS-PM-R
-Check for
correct color
accuracy and
application

16. Check presence of parts in tooling machine



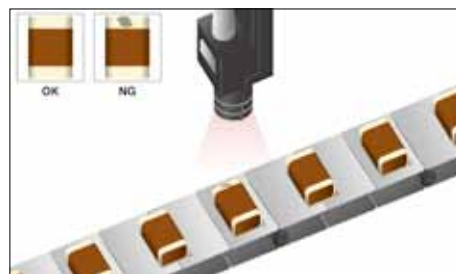
MVS-PM-R
-Check the
presence of
parts by color
pattern
matching

17. Checking existence of paste on PWB



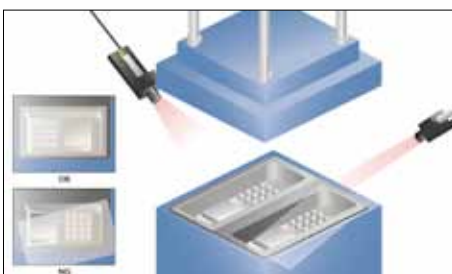
MVS-PM-R
-Check
existence of
the paste by
pattern
matching

18. Checking surface condition of chip parts



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

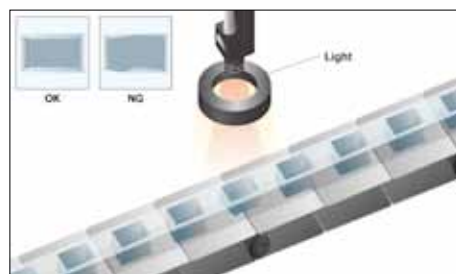
19. Detecting misalignment of material in tooling machine



MVS-PM-R
-Check
material
contour

MVS-EM-R
-Measure
object
position from
edge

20. Checking shape of emboss taping



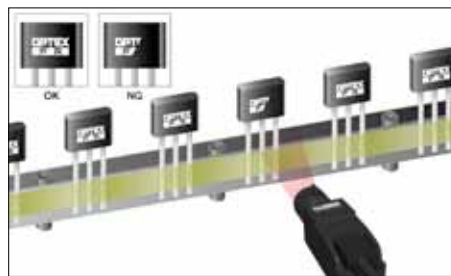
MVS-PM-R
-Check its
shape by
contour or full
color

21. Checking lead pitch of parts



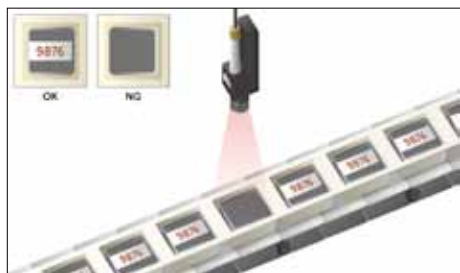
MVS-EM-R
-Measure pitch of multiple leads in max., min. and mean.

22. Check printing on transistors



MVS-OCR2
-Check the characters printed on transistors

23. Check the marking on chip parts



MVS-PM-R
-Check existence of mark

MVS-OCR2
-Check the characters printed on the chip

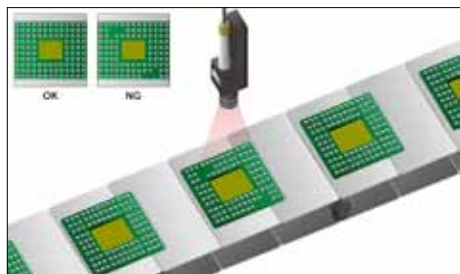
24. Checking position of orientation flat



MVS-PM-R
-Check the area

MVS-EM-R
-Check the distance between edges

25. Checking existence of solder balls



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

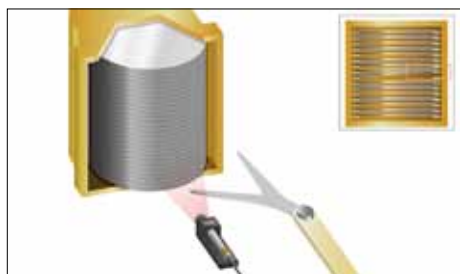
26. Checking position of wafer on handling machine



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

MVS-EM-R
-Check the distance between edges

27. Checking wafer position in FOUP



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

MVS-EM-R
-Check distance between wafers

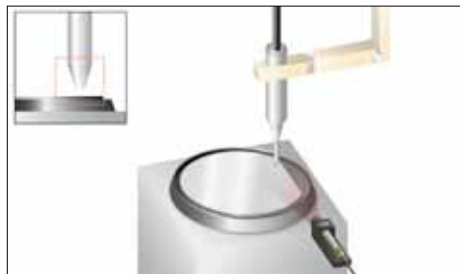
28. Checking position of reference mark on PWB glass



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

MVS-EM-R
-Measure distance between edges

29. Checking condition of vacuum collet tip



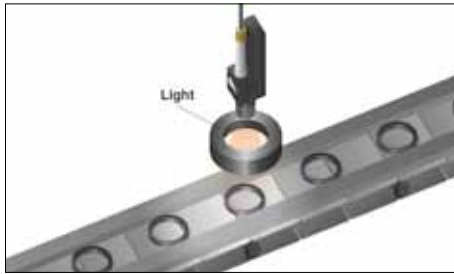
MVS-PM-R
-Check the shape by pattern matching

30. Checking segments of LCD display



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

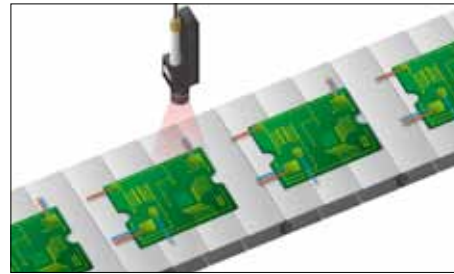
31. Checking shape of rubber ring



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

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

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



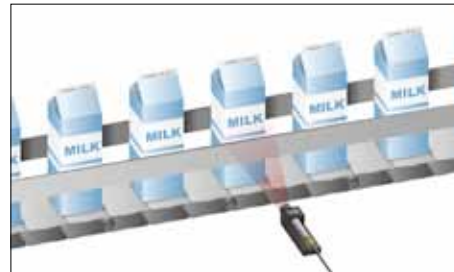
MVS-PM-R
-Check color area utilizing multiple inspection windows (max. 16)

33. Checking lid alignment



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

34. Checking shape and printing on milk package



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

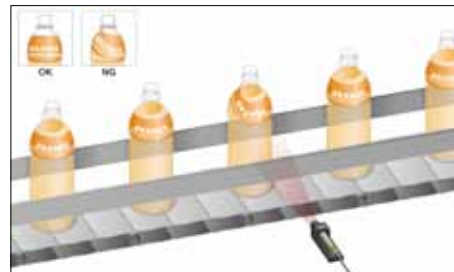
MVS-OCR2
-Check for printing on the package

35. Checking shape of plastic bottles



MVS-PM-R
-Check the shape by contour

36. Checking for label on plastic bottle



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

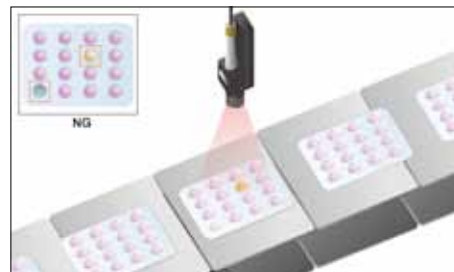
MVS-OCR2
-Check characters printed on label

37. Checking number and type of bottles



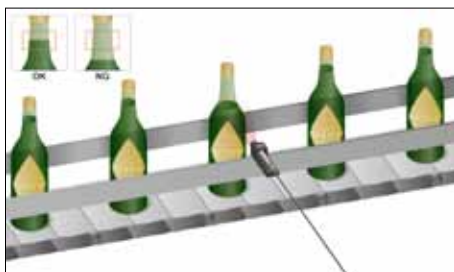
MVS-PM-R
-Check for presence of each bottle by color pattern matching

38. Checking position and type of pills in dispenser



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

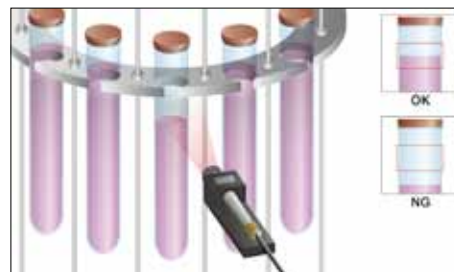
39. Checking level of liquid in bottle



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

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

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



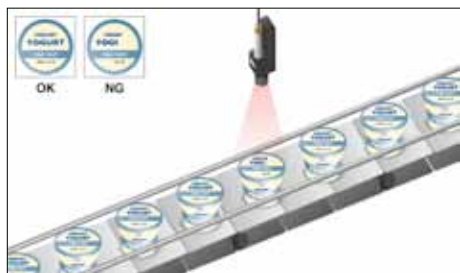
MVS-OCR2
-Check characters on the pouch

42. Detecting condiments in instant food package



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

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

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



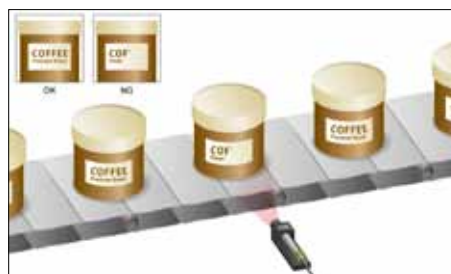
MVS-PM-R
-Check surface condition by stain area and color area

45. Checking presence of label attached for ad campaign



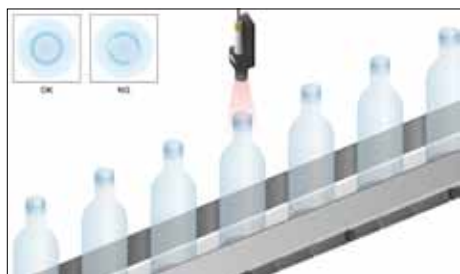
MVS-PM-R
-Check its position by color pattern matching

46. Checking for characters printed on package



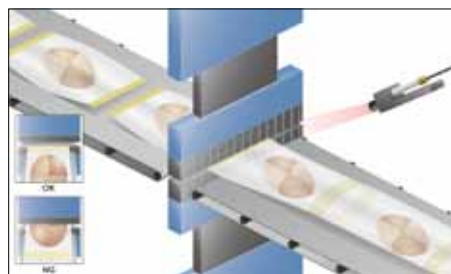
MVS-PM-R
-Check character by color pattern matching
MVS-OCR2
-Check character on the package

47. Detecting defects on bottle



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

48. Checking position of heat sealing on pillow packaging



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

49. Detecting lid position on the bottle



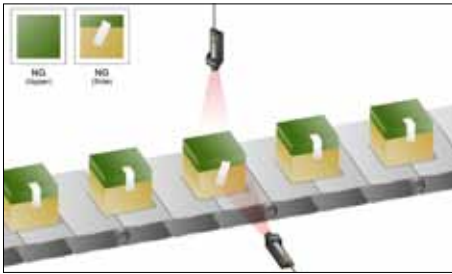
MVS-PM-R
-Check its position by color pattern matching

50. Checking for correct order in Calendar sorting



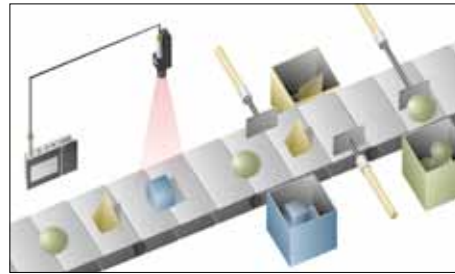
MVS-PM-R
-Check pattern by unique characteristics of each sheet
MVS-OCR2
- Check printed characters

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

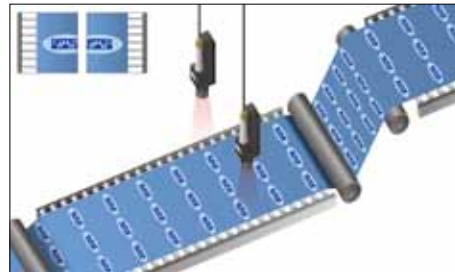
53. Checking position of printing material



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

MVS-EM-R
-Measure position of the mark

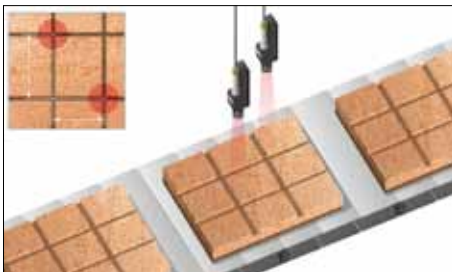
54. Measure width of sheet material



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

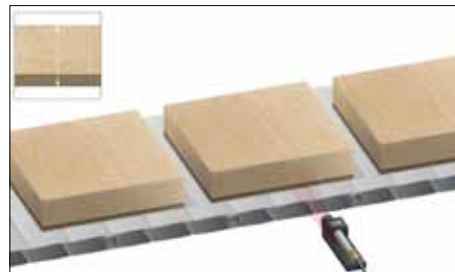
MVS-EM-R
-Measure position of the edge

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