

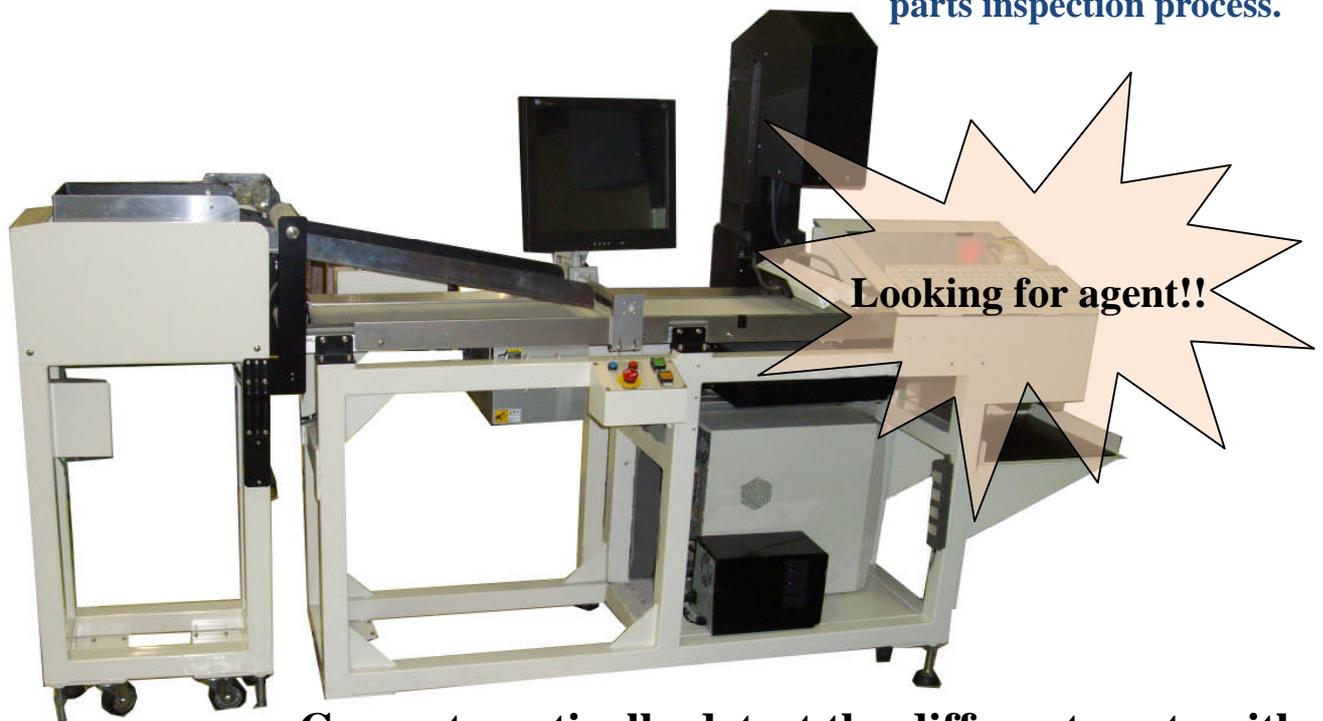
High Speed Parts Appearance Inspection System

IM-1000

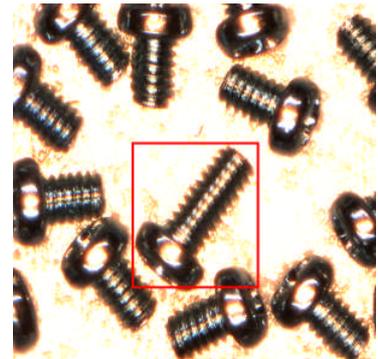
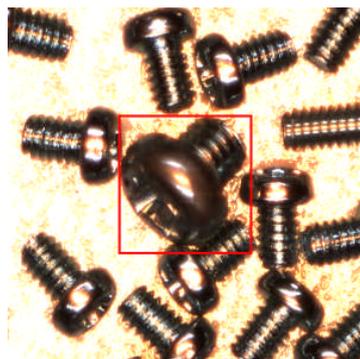
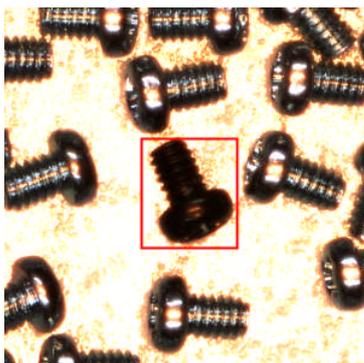
Automatic Detection of Odd-looking Parts

Suitable for Screw, Washer, Housing, Gear etc.

With the continuous increasing demand on quality improvement for parts, don't you think the overload of your visual inspectors is too much? This system meets all your needs in automation/stabilization of parts inspection process.



Can automatically detect the different parts with **color, shape, size, length, etc.**



Suitable for various inspection lines

IM-1000 is compact off-line type inspection system. It is possible to build into the inspection line if the customer requires. If customers want to change to automatic on-line inspection system we will be happy to respond too.

High inspection speed using fast IP algorithms

Patent pending

When using the IM-1000 system the operator removes the overlapped parts from the top of each other. In our experiment results, inspection speed is around 1,000 pieces/min for M4 screws. On the other hand, if there is no overlapping parts inspection around 30,000 pieces/min for M4 screws would be possible. This amazing speed is simply due to KGK image processing algorithms.

No need to difficult settings or training

Patent pending

There is no need to usual hard parameter setting of inspection system. The KGK “teaching-less system” can learn the necessary specifications of parts and enables you to start using machine easily from the first day.

System Specification

System	High Speed Parts Appearance Inspection system IM-1000
Inspection speed	Around 1,000 pieces/min for M4 screws (*)
Inspection result	Show NG parts on the image Operator removes NG parts manually
External dimensions	2,300(W)X600(D)X1,600(H)
Camera	Color line CCD
Scan width	230mm (33umX7,500 pixels)
Scan speed	9m/min
Lighting	Reflection lighting + Transparent lighting
Parts handing	Belt conveyer
Parts supplier	The feeder directly supplies parts on the belt conveyer and then operator removes overlaps

(*) Number of pieces to be inspected in one minute depends on the part size



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