YQ - Doctor

Tags/Label inspection Machine

S200/S300 T1B1 model



Key features

The YQ Doctor S200 T1B1 compares each item with approved sample templates, identifies print and finishing defects, and automatically rejects faulty products. It supports inspection data reports and MES integration.

What it checks

- Surface defects and printing errors or omissions
- Wrong, duplicate or missing barcodes and QR codes
- Mixed product types or materials
- Dimensional deviations and die-cutting failures

Inspection flow

Feed → Capture and compare → Reject defects → Collect and report

A 1200W CCD industrial camera and image processing software scan products in real time. A PLC directs automatic rejection when a defect is found.

TECHNICAL SPECIFICATIONS

YQ Doctor tag card quality inspection machines

SPECIFICATION	S200 T1B1	S300 T1B1
MACHINE VISION & INSPECTION		
Inspection field of view	200 × 220 mm	300 × 320 mm
Camera	1200W CCD	1200W CCD
Front and reverse imaging resolution	0.06 mm each	0.06 mm each
Detection resolution	81.7 μm/pixel	73.2 μm/pixel
Minimum regular defect area	≥0.05 mm²	≥0.05 mm²
Minimum hot stamping defect area	≥0.15 mm²	≥0.15 mm²
Registration / die-cut offset precision	≥0.08 mm	≥0.08 mm
Comprehensive inspection accuracy	99.95%	99.95%
Variable QR code checking	Real-time alarm for wrong, duplicate or missing codes	Real-time alarm for wrong, duplicate or missing codes
TRANSPORT & INSTALLATION		
Stable transport speed	60 m/min	60 m/min
Maximum inspection throughput	About 25,000 pieces/hour at minimum sheet size	About 25,000 pieces/hour at minimum sheet size
Sheet size range	50 × 60 mm to 200 × 200–220 mm	50 × 60 mm to 300 × 300–320 mm
Applicable paper weight	80–350 g/m²	80–350 g/m²
Power consumption	2.5 kW	2.5 kW
Machine weight	About 800 kg	About 850 kg
Overall dimensions (L × W × H)	2,500 × 460 × 1,490 mm	2,500 × 560 × 1,490 mm
Installation	Four adjustable foot pads; no poured foundation required	Four adjustable foot pads; no poured foundation required
Maintenance clearance	At least 800 mm on the right side	At least 800 mm on the right side



Applicable products