



# *Star-Print Inspection Machine for Folding Cartons*



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# Star-Print Inspection Machine for Folding Cartons



Star is one series of offline inspection machine commonly used to inspect the print quality of cigarette blanks, pharmaceutical, cosmetic, food, daily consuming, and FMCG cartons, tags, labels, and corrugated board, etc. It is able to inspect the quality of foil stamping, embossing, varnishing, lamination, hologram, braille, and variable code, etc.

Star can configure maximum 6 cameras to capture the image(s) of cartons one by one, compare with standard master, reject the defective cartons, and separate the good ones and bad ones into different collection module, so as to make sure that only good products are delivered to customer.

## Options

- Suction feeder and reverse feeder for feeding cartons with easy-scratch surface
- Auto stacker for stacking regular shape products after inspection
- Pre-feeder and banding machine for automatic production
- Additional cameras for inspecting hologram, variable data, back-side print, etc

## Features

- Our new technology eliminates the need for vacuum suction to reduce power consumption, heat, and noise
- Multi-spectral camera technology for precise color variance measurement
- Fully automated and user-friendly software enable quick setups in minutes
- Multi-master feature to inspect the folding carton products with varying images in specified region
- Diagnostic doctor software monitors the overall system performance and stability by evaluating light, camera, computer, sensor, etc
- Statistic feature generates an inspection report in PDF per each job

## Specifications

Items	DH-CJP200	DH-CJP300	DH-HSJP420	DH-HSJP550
Max. inspection size(WxL)	200mmx200mm	300mmx200mm	420mmx350mm	550mmx400mm
Min. inspection size(WxL)	35mmx40mm	40mmx50mm	90mmx90mm	90mmx90mm
Paper quality	180-500g/m2	150-500g/m2	90-500g/m2	90-500g/m2
Stable inspection speed	150m/min 90,000 (Carton: 35mmx40mm)	150m/min 90,000 (Carton: 40mmx50mm)	270m/min 130,000 (Cigarette blank:248mmx98mm)	270m/min 130,000 (Carton: 90mmx90mm)
Min. defect size(as a spot)	0.05mm2	0.1mm2	0.1mm2	0.15mm2
Min. registration deviation	±0.05mm	±0.1mm	±0.1mm	±0.15mm
Min. color variance(ΔE)	ΔE≥3	ΔE≥3	ΔE≥3	ΔE≥3
Accepted products handling	Shingle stream, counting, direct output		Shingle stream&pile stacking, counting, direct output	Shingle stream, counting, direct output
Rejected products handling	Shingle stream, direct output		Shingle stream, lateral output	Shingle stream, direct output
Gross weight	2,600kg	2,800kg	4,000kg	3,700kg
Total power	9kw	12.5kw	16.5kw	15.5kw

Items	DH-JP650	DH-JP800	DH-JP1100	DH-JP800B	DH-JP1100B
Max. inspection size (WxL)	650mmx500mm	800mmx500mm	1,100mmx500mm	800mmx500mm	1,100mmx800mm
Min. inspection size (WxL)	100mmx100mm	150mmx120mm	150mmx120mm	250mmx250mm	90mmx90mm
Paper quality	90-500g/m2	180-500g/m2	180-500g/m2	200-500g/m2 Flute B/E/F/G	90-500g/m2
Stable inspection speed	270m/min 110,000 (Carton: 100mmx100mm)	240m/min 90,000 (Carton: 150mmx120mm)	240m/min 90,000 (Carton: 150mmx120mm)	230m/min	230m/min
Min. defect size (as a spot)	0.2mm2	0.1mm2	0.15mm2	0.1mm2	0.15mm2
Min. registration deviation	±0.2mm	±0.1mm	±0.15mm	±0.1mm	±0.15mm
Min. color variance(ΔE)	ΔE≥3	ΔE≥3	ΔE≥3	ΔE≥3	ΔE≥3
Accepted products handling	Shingle stream, counting, direct output				
Rejected products handling	Shingle stream, direct output			Carton: Shingle stream, direct output Corrugated board: Shingle stream, lateral output	
Gross weight	4,000kg	4,100kg	5,300kg	7,000kg	7,500kg
Total power	16.5kw	18.5kw	30kw	22kw	27kw