

The latest addition to the JEKSON Vision Systems family



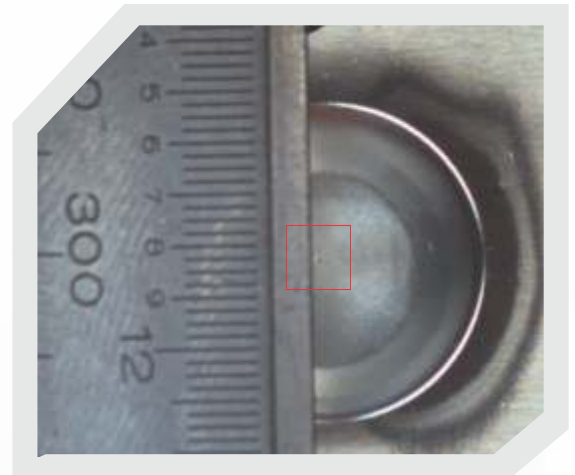
JEKSON USA Inc has designed **Raptor: Ultra High Resolution Pinhole Detection System** for quality assurance on Pharmaceutical packaging line. Raptor is a validated, universal, high speed, continuous, inline inspection system for detecting 100% of micron-sized pinholes, pores, fissures, foil fractures and cracks which may occur on aluminum blister packs during their cold-forming or laminating process at very high speed usually impossible to be seen by human eyes.

Features:

- Superior sidewall, angular and horizontal hole detection.
- Can inspect contoured forms as well as flat materials.
- Sensitivity adjustable to detect up to 10 micron-sized holes at the speed up to 1800 m/hr.
- Quick setup: "PLUG n PLAY" configuration with just 3 buttons.
- Stand-alone System. No PLC/PC dependency for rejection.
- Built-in shift register setting facility eliminates machine specific PLC programming.
- Solid-state technology yields highest reliability and lower maintenance.
- Modular design and small footprint creates an easy-fit on any blister packing machine.
- R-Logic provides increased immunity against noise.
- Advanced embedded DSP processor.
- Continuous self-diagnostics ensures 100% inspection reliability.
- Onboard I/O provides multiple options for rejecting and interfacing, etc.
- Connectivity (optional): Serial RS 232 for PC connectivity for data logging and troubleshooting.
- 21 CFR PART 11 compliant.

The Technology and Process:

Pinholes are perforations that are generally less than 100 microns in size and are present in virgin material from the factories. Pinholes can be caused by contaminants present in the foil's molten state or from rolling debris during foil production or at the time of forming on the blister packing machine. To detect pinholes, one side of the material to be inspected is illuminated with an IR light source and the other side has a device for detecting any light emerging through the foil. Raptor can perform at full line speed with sensitivity down to 10 microns with ease.



Technical Specifications:

	JEKRAP240	JEKRAP300
		Inspection Specs
INSPECTION ACCURACY	Down to 10 µm pinhole diameter	
INSPECTION SPEED	Maximum 1800 m/hr	
EFFECTIVE INSPECTION LENGTH	240	300
ILLUMINATION	Infrared light	
SYSTEM OUTPUT	Maximum 6 tracks for rejection	
		Physical
DIMENSIONS (in mm)	412 (L) X 74 (W) X 340 (D)	475 (L) X 74 (W) X 340 (D)
HOUSING	Anodized aluminum housing	
SUITABLE HUMIDITY	40 – 70 %	
WEIGHT	~10 kg	
SUITABLE OPERATING TEMP	5 – 40 °C	
DISPLAY	16 X 2-line alphanumeric matrix LCD display	
CONNECTION	8-pin socket connection	
		Power
SUPPLY VOLTAGE	230/240 V AC. ±10%	
SYSTEM FREQUENCY	50 Hz. < ±1%	
POWER CONSUMPTION	~10 W	
CERTIFICATION	CE (EN 610101-1:2001, EN 61000-2:2005, EN61000-6-4:2007)	

Benefits:

- Waste reduction
- Easy system integration
- Whole foil width monitoring
- PLUG n PLAY operation
- Easy to maintain due to compact and enclosed design
- Rapid return on investment