

Brick Inspection



Brick inspection can be performed on a wide range of different brick sizes and colors

In the production of building bricks, manual inspection is often performed before the burning process. Because of a very high production speed, manual inspection is difficult to achieve.

JLI's brick inspection system provides 100% online inspection for measurements such as dimensions, surface, cracks etc. An advanced surface inspection analysis makes it possible to classify bricks depending on their surface quality.

The inspection system can be integrated into existing production equipment and can be setup for automatic rejection of defective bricks by timing a signal. The system also provides process analysis by trend curves.

Features

- High speed operation with reliable results
- Advanced surface inspection
- Designed for dusty environment
- Replaces manual inspection
- Statistics showing trends and performance
- 100 % online inspection
- Internet connectivity
- User friendly software
- Flexible, compact and portable design
- Elaborate defect classification

General

Capacity:	10 bricks/s
Cameras:	Industrial high resolution CCD
Sensing area:	Depends on brick size/type
Operating temperatures:	+5° C to +30° C
Humidity:	Designed for dusty environment
Power:	110V, 60Hz or 230V, 50Hz
Lamp life:	> 3 years
Computer:	Industrial vision PC's
Monitor:	21" flat screen
Dimensions: W x H x D	On request

Measurements

Detects:	Dimensions, cracks, condensed cracks, chips, surface, lumps, fill errors
Accuracy:	Depends on brick type and size

Interface

Vision input/output:	24V, Input: Brick type, Output: Error Class, Remote control.
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	Resultat	Antal fejl	Fejl %
Længde	237,05	820	0
Bredde	110,89	823	0
Hejde	59,56	829	0
Længde forskel (mm)	4,02	896	0
Bredde forskel (mm)	1,17	1012	0
Hejde forskel (mm)	5,33	825	0
Hak (Plus), Leber	0,66	297	0
Hak (Plus) blænd	6,70	296	0
Hak (Minus), Leber	5,89	303	0
Hak (Plus), Kop	4,27	885	0
Hak (Minus), Kop	4,99	773	0
Oprivning leber	5,89	517	0
Oprivning Leber diff	2,90	441	0
Oprivning kop	6,65	767	0
Oprivning Kop diff	3,25	767	0
Fyktning leber	1988	647	0
Fyktning kop	107	0	0
Lodret revne leber	248	2083	1
Lodret revne kop	0	0	0
Kondens revne leber	80	0	0
Kondens revne kop	120	0	0
Knold	0	1365	1
Knold under sten	0	290	0
Regulert vinkel	0,00	821	0

Typical setup for brick inspection

Company Profile



JLI vision a/s develops, designs and manufactures dedicated turnkey vision systems for the international industry.

With more than 27 years of experience, JLI is among the oldest companies in the computer vision field. Our customers include well known international companies. JLI works in many different industries ranging from food processing to material handling, glass, steelworks, pharmaceutical, plastics and packaging.