

ARGUS



Automatic on-loom inspection for Jacquard fabrics

ARGUS is the first system ever capable of inspecting uni-color jacquard woven fabrics on the weaving machine.

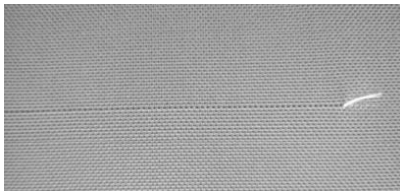
The ARGUS scanner consists of an array of fixed cameras and a LED illumination bar in a slim aluminum housing and can be mounted in the loom or on the batching motion.

Intelligent image recognition software algorithms detect warp and filling defects, stains, floats and many other weaving defects and ARGUS will stop the loom in case of severe defects and risks for off-quality. An additional software module allows monitoring of tracer distances in OPW (One Piece Woven) airbag fabrics.

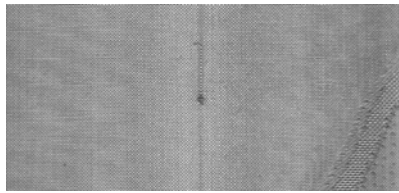
Connected to the BMSvision QUALIMASTER system, all defect information, pick and time stamped, is sent and stored in a fabric quality database, allowing generation of piece maps and various types of quality analysis reports.

ARGUS is the perfect quality monitoring tool for weavers of high end jacquard fabrics such as OPW airbag and mattress ticking.

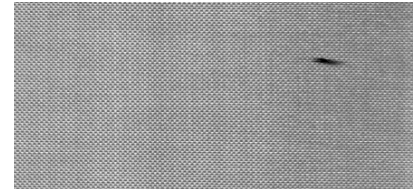
Typical defects



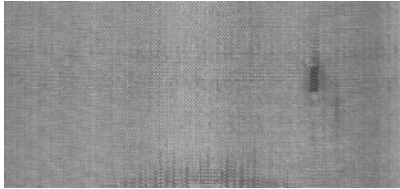
Pick defect



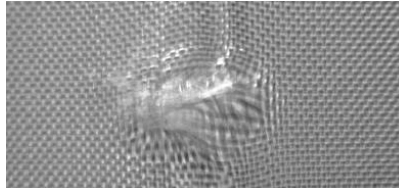
Warp defect



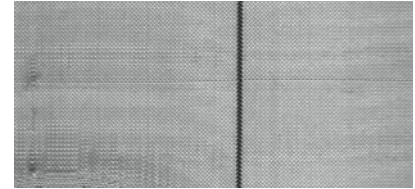
Stain



Local



Mechanical distortion



Starting mark, pick defect

Tracer report

VERTICAL TRACER REPORT																		
Airbag Row		Warn Level		Confirm		Actual		Tol: 1mm		Row: Trn: 0								
HT	1	2	3	4	5	6	7	8	9	10	11							
6	9.7	34.8	9.8	10	35.2	9.9	9.9	35.2	10	10.1	35							
7	9.7	34.9	-0.1	9.8	0.1	9.9	-0.1	35.3	9.9	9.9	35.2	10	10.1	35				
8	9.7	34.9	0.1	9.9	-0.1	9.9	0.2	35.3	-0.1	9.9	9.9	35.2	-0.1	10	0.1	10.1	35	-0.1
9	9.7	34.9	9.8	10	35.3	9.9	9.9	35.1	10	10.2	35							
10	9.7	34.9	-0.1	9.8	0.1	10	35.3	9.9	9.9	35.1	10	-0.1	10.1	35				

HORIZONTAL TRACER REPORT																								
Airbag Row		Warn Level		Confirm		Actual		Tol: 1mm		Row: Trn: 0														
HT	1	2	3	4	5	6	7	8	9	10	11	12												
11->12	37.9	0.7	38	0.3	37.8	1	38	0.2	37.9	0.7	38	0.7	37.9	0.6	37.9	0.7	37.8	1	37.9	0.7	37.8	1	37.9	0.9
12->13	38.3	-0.5	38.3	0	38.3	-0.4	38.5	-0.4	38.4	-0.6	38.3	-0.8	38.3	-0.1	38.4	-0.5	38.3	-0.6	38.3	-0.8	38.3	-0.5	38.1	-0.1
13->14	38.3	0.1	38.1	-0.1	38.2	0.1	38.1	0.4	38.3	0.1	38.4	0.2	38.2	-0.3	38.2	0.2	38.4	0.1	38.4	0.2	38.3	0	38.3	-0.7
14->15	38	0.4	38.2	0.1	38.1	0.2	38	0.1	38	0.5	37.9	0.5	38.3	0.2	38.1	0.2	38.1	0	37.8	0.5	38.1	0.2	38.4	0.3

Benefits and advantages

- Real time detection allowing to stop the loom and prevent production of defective fabric
- Independent of human perception
- Automatic fabric grading, based on customer defined rules
- Easy to install and operate
- User friendly HMI for display of defect images and quality reports
- No maintenance required
- Low power consumption

ARGUS specifications

- Maximum available width: 3000 mm
- Illumination: blue LEDs
- Camera resolution: 10 pixels/mm
- Loom interface: VDI, Ethernet
- Shopfloor network: Ethernet
- Maximum power consumption: 45 W
- Option for front and back inspection

Touch panel specifications

- 15.6" TFT touch panel, 1366 x 768 pixels (16:9)
- VESA 100 x 100 mm compliant mounting
- Dimensions: 420 x 269 x 59 mm (W x H x D)
- Power: 100 to 240 Vac, 50 W



BMSvision

In Pursuit of Productivity



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