

## ARGUS (SHANGHAI) TECHNOLOGY CO., LTD.

**WWW.ARGUS-T.COM** 

Fei: +86-13701225444 Email:

FEI@ARGUS-T.COM

#### **ARGUS Introduction**

- ARGUS is the machine vision system supplier by providing the system for detecting textile defects to support textile company realize cost saving, efficiency improvement & data management
- ARGUS partners are mainly the global first tier Equipment Maker, Manufacture and Brand in the textile industry, such as Shenzhou International, China Jushi, Taishan Fiberglass, American Performance, GITI Tire cord & Luolai Home textile, etc.
- ARGUS R&D and Project members own over 15-20 years of professional experience in textile machine vision
- Base on Artificial Intelligence, ARGUS develops the latest Generation Inspection System
  which makes the traditional complicated system innovated to be simple, low cost and
  user friendly—Primary school graduates can operate easily

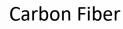
#### **Application in Textile Industry — Not just Apparel**







Apparel Weaving, Knitting

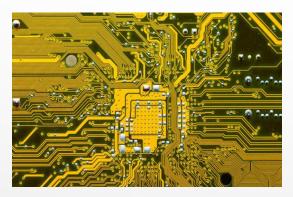


Leather base cloth Knitted and woven

Automotive sector Seat belt, airbag, tire cord, car interior



Household products
Curtains, sheets, carpets, wallcoverings



Circuit Board
Glass fiber insulation



Nonwovens Facial & Mask



Wind power
Carbon/Glass fiber wet felt,
Carbon/Glass fiber pultrusion plate

#### **Global Partners**

**Apparel & household** 



LUOLAI罗莱家纺

**Automotive Textile** 



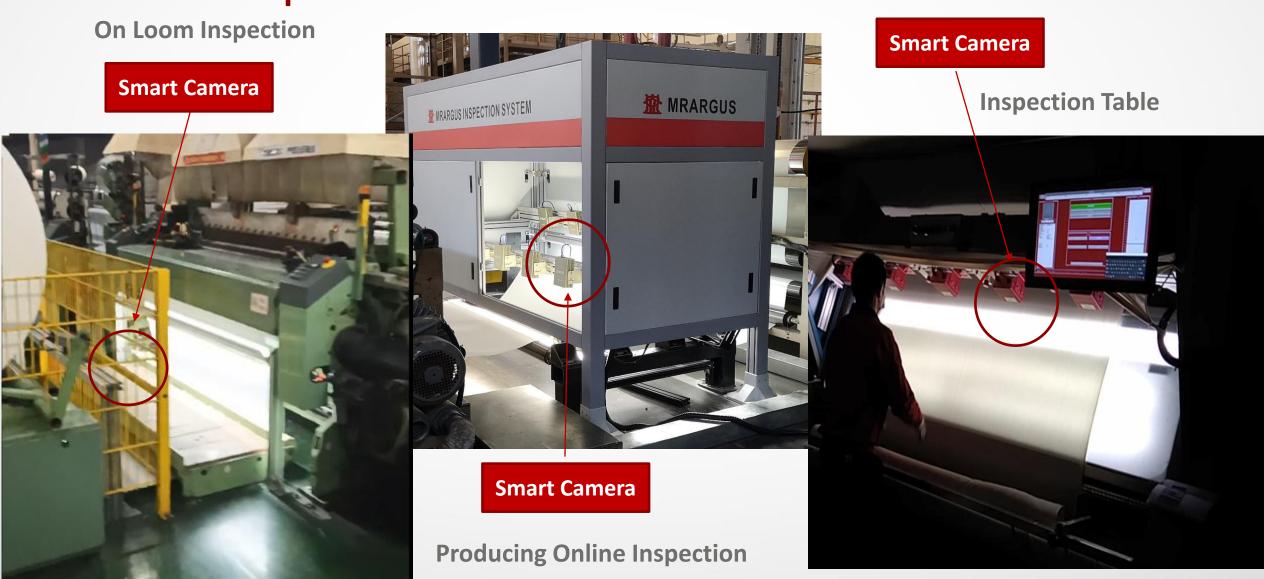


**Fiberglass & Composites** 





#### **Installation Example**



#### **Main Parts of the System**

#### **Smart Camera**

- ◆ Independent R&D
- Edge Computing Capability

#### Industrial illumination

- Reliable
- Custom made design

#### **Artificial Intelligence Software**

- Simple & Easy to Learn and Use
- Cover various products such as Apparel, Automotive Textile, Composites, nonwoven& films, etc.
- ◆ ARGUS system can be adopted into different production processes for online or offline detection







#### **System Function**

- ◆ 24-hour, real-time and full width detection
- ◆ Defects information such as defect's picture, longitude and latitude are recorded on time
- ◆ According to the production need, Argus inspection system can "Record Defects information", "Alarm" or "Stop the machine" when Argus detect the defects
- Production information of textile such as production date, textile type, length, defects information, and operator name etc. can be recorded, used and tracked
- ◆ All the above production information data can be connected to any management system like ERP or MES system, etc.

#### **System Function**

- ◆ ARGUS system own the central control system
- ◆ ARGUS system can assign the different data management authority according to the customer organization management needs
- ◆ ARGUS system detect various kinds of defects such as broken ends, broken picks, knot, hole, dirt, broken filament and weft shrink, etc.
- ◆ ARGUS system provide defects map include each defect's "X, Y position" which data can support for textile optimized cutting

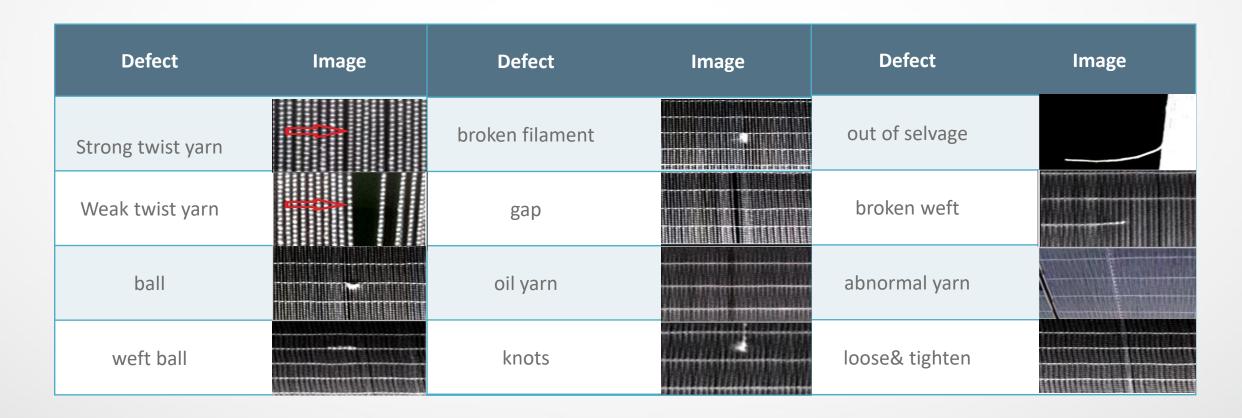
#### **Typical Defect Types of Apparel**

Defect	Image	Defect	Image	Defect	Image
Broken yarn		Broken yarn		Missing yarn	
Missing yarn		Spot		Colored yarn	
Dirt		Broken yarn		Broken yarn	
Hole		Knot	<b>C</b>	Joint	

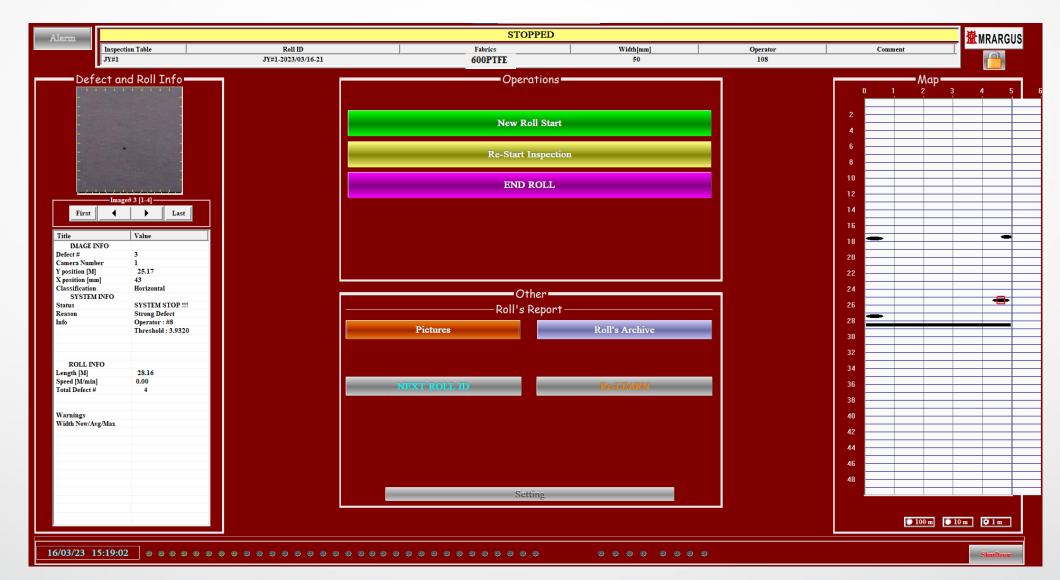
#### **Typical Defect Types of Fiberglass**

Defect	Image	Defect	Image	Defect	Image
Bound damage		Floating		Double knitting	
Dirt & Oil stain		Hole		Cotton yarn	
Weft spot		Broken ends		Double pick	
Honeydew dust		Broken picks		Loose/Tight end	
Back stitch		Broken thread		Missing pick	

#### **Typical Defect Types of Tire Cord**

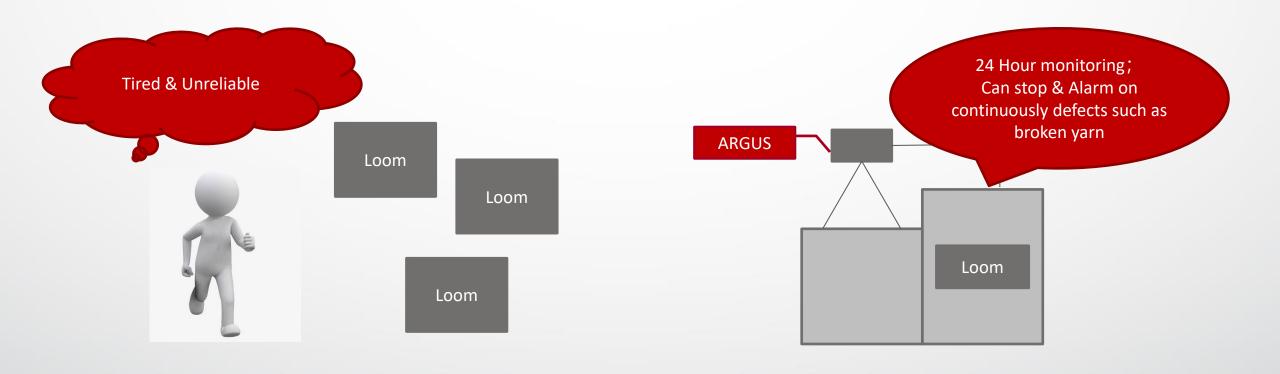


#### Operation interface—Primary School Graduated can operate easily



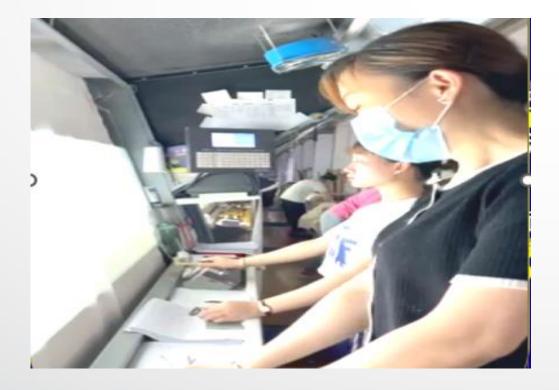
#### The Value of ARGUS System: On Loom

Operator-Human Being	ARGUS Value	ARGUS Function
8 to 12 hours of patrol inspection-Tired, sleepy	save 10%-80% labor cost	Tireless24 hours inspection
Unstable inspection	Accurate	24-hour Reliable & Accurate detection
Losses caused by continuous defects	save 5-15% loss	Stop & Alarm the machine, control loss on time



#### The Value of ARGUS System: Inspection Table

Operator-Human Being	ARGUS Value	ARGUS Function
Inspection Speed 15-25M/Min.	60%-110% inspection efficiency increase	Inspection Speed 30-60M/Min.
1-2 Person/Inspection table	save 50%-75% labor cost	1 Person/2-3 inspection table
new operator one year training	save 95% time	new operator one week training





#### The Value of ARGUS System: Data Management

Operator-Human Being	ARGUS Value	ARGUS Function	
Manual data input	50%-90% inspection efficiency increase	Inspection data>ERP/MES	
Error Record	Accurate	Stable & Reliable	
Data Confusion	Data Analysis guide production	Analyze data and prevent loss	

Thousands of data, we are wholly confused!



ARGUS Data Analysis Guide Production





#### The Value of ARGUS System: Optimized Dyeing, Cutting

Operator-Human Being	ARGUS Value	ARGUS Function
Cutting and dyeing depend on experience and mood	save 1-10% loss	Dyeing or cutting by defect data
		Quickly discover defect locations through
Hundreds of workers inspect the cloth pieces after cutting	save 30-85% labor cost	defect maps

Loss in the process of dyeing, cutting



Optimized dyeing and cutting to save loss





#### The Value of ARGUS System: Supplier and Buyer

Operator-Human Being	ARGUS Value	ARGUS Function
Repeated inspection work-supplier check+buyer check	Efficieny improve 10-30%	Buyer use supplier inspection data
	No travel for Dispute	
	No Time Waste for Dispute	
Product quality disputes	No Cargo return for Dispute	Defects & Production data Trace and Track

Supplier: your problem!

Buyer: It's your problem!

Based upon data!!!

Agree!

Agree!







# We are Destinated to Support ESG Development

禁 ARGUS (SHANGHAI) TECHNOLOGY CO., LTD.

**WWW.ARGUS-T.COM** 

Fei +86 13701225444 FEI@ARGUS-T.COM