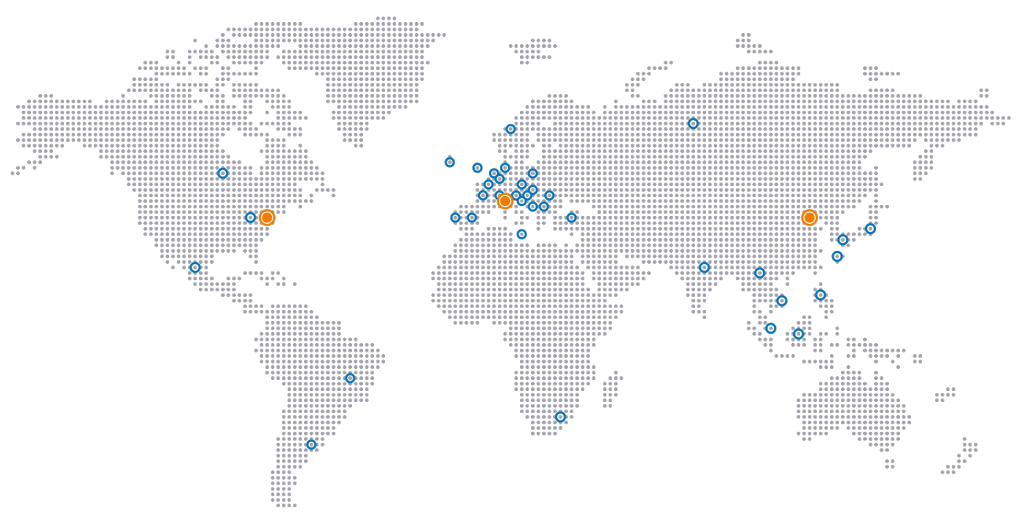# UTP VISION
VISUAL INSPECTION

Looking for (im)perfection

PRODUCT RANGE

We are the leader of turnkey vision inspection systems for the industrial, pharmaceutical and cosmetic sectors.

With long experience in a wide variety of industries, **we can develop tailored solutions for any application.**

We operate all over the world: we have a subsidiaries in North America and one in China, and we have over 1500 machines installed in 45 countries.

headquarter and subsidiaries ◉
macchines installed worldwide ◎

MiniMatliX

VERY SMALL GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
-	7	1.2 - 7	0.26 - 1	rubber plastic PTFE metal
	12	1.8 - 12	0.26 - 1	
	20	2.5 - 20	0.5 - 5	

MatliX

SMALL GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
DS	35	3 - 35	0.9 - 9/25	rubber plastic PTFE metal
	50	3 - 50	0.9 - 9/25	
OS	35	3 - 35	0.9 - 9/25	
	70	3 -70	0.9 - 9/25	

SmartMatliX

GENERIC SMALL PIECES

version	type	field of view (mm)	thickness (mm)	material
-	35	3 - 35	0.9 - 5	rubber plastic PTFE metal
	50	3 - 50	0.9 - 5	

OPTIONAL
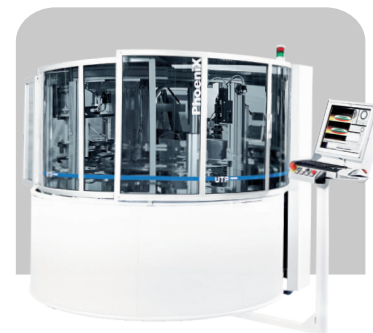
PhoeniX

SMALL AND MID-SIZED GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
-	50	4 - 50	0.9 - 9/25	rubber plastic PTFE metal

MiniMatliX, MatliX, PhoeniX and ScrappiX are automatic visual inspection machines for high precision control of small and mid-sized gaskets, seals and generic parts made of rubber, plastic, PTFE and other materials. SmartMatliX is the basic version of the MatliX machine, it offers great value for money and it can be remotely upgraded with the new Artificial Intelligence option at any time. StretchX can control the presence of cuts or tears thanks the elongation and deformation of through the traction unit, while BigX is specifically designed to inspect large O-rings.

ScrappiX

SMALL AND MID-SIZED GENERIC PARTS

version	type	field of view (mm)	thickness (mm)	material
-	35	4 - 35	0.9 - 9	rubber plastic PTFE metal
	70	4 - 70	0.9 - 9	
	90	20 - 90	0.9 - 9	

StretchX

SMALL AND MEDIUM-SIZED O-RINGS

version	type	field of view (mm)	thickness (mm)	material
-	72	25 - 72	1,50 - 3,53	rubber

BigX

LARGE-SIZED O-RINGS

version	type	field of view (mm)	thickness (mm)	material
-	150	70 - 150	1.50 - 5.33	rubber
	200	70 - 200	1.50 - 5.33	

SPECIAL DIVISION

GasketX controls frames of various shapes, while SqueezeX can detect nearly invisible closed cuts in O-rings and generic rubber parts. LoringX, RollinX, ProfiliX and BlynX are tailor-made for very specific vision inspection tasks.

GasketX
FRAMES

version	type	field of view (mm)	thickness (mm)	material
-	240	240x240	15	rubber plastic PTFE
	500	240x500	15	

SqueezeX
TO DETECT CLOSED CUTS

version	type	field of view (mm)	thickness (mm)	material
-	20	3 - 20	1 - 5	rubber

LoringX
EXTRA-LARGE O-RINGS

version	type	field of view (mm)	cross section (mm)	material
-	-	250 - ∞	1.78*-12	rubber

*as a function of diameter

RollinX
SPHERES

version	type	sphere diameter (mm)	material
-	-	2 - 10	any kind of material

DIMENSIONAL SERIES

The Kalix series includes visual inspection machines for automatic non-contact measurement of articles of any shape.

ProfiliX

PROFILES

version	type	dimension of section (mm)	material
-	-	3 - 20 up to 40 to be evaluated	rubber

BlynX

FOR REAL-TIME PRODUCTION QUALITY MONITORING

A CUSTOM-CONFIGURABLE VISION INSPECTION SYSTEM

KaliX

DIMENSIONAL CONTROL

version	OD max (mm)	thickness (mm)	material
40	38	2	
70	Ø 70	10	
155	Ø 155	10	any kind of material
Dual Mag	Ø 155	10	
	Ø 20	1	

KaliX 500

DIMENSIONAL CONTROL

version	max field of view (mm)	thickness (mm)	material
-	500	10	any kind of material

WINDOWS DATABASE INTEGRATION STATISTICS REPORTS

PHARMA DIVISION

Dimensional and surface control for pharmaceutical and medical applications: aluminium caps, spray valves, plungers, stoppers and needle shields.

Pharma

TYPICAL PHARMACEUTICAL AND MEDICAL COMPONENTS

diameter	thickness (mm)	speed (pps)	material
Plunger			
5 - 9	2 - 18	6 - 25	rubber TPE
Stopper			
12 - 32	2 - 19	6 - 18	rubber TPE
Needle Shield			
5 - 12	15 - 28	6 - 12	rubber TPE

Cap

COLLARS AND CLOSURES IN METAL

diameter	thickness (mm)	speed (pps)	material
15 - 25	0.9 - 22	4 - 5	metal

LINUX   DATABASE INTEGRATION   STATISTICS REPORTS   PATENTED COLOR VISION   AI

Valve

SPRAY VALVE AND SIMILAR ITEMS

diameter	thickness (mm)	speed (pps)	material
15 - 25	0.9 - 22	4 - 5	metal TPE

X-RAY INSPECTION

Automatic inspection machine for rubber parts, able to determine shore hardness and differences in the rubber compound of an entire production batch.

X^2
COMPOUND AND HARDNESS ANALYSIS

version	type	field of view (mm)	thickness (mm)	material
-	-	8 - 70	0.9 - 25	rubber

LINUX   DATABASE INTEGRATION   STATISTICS REPORTS   AI
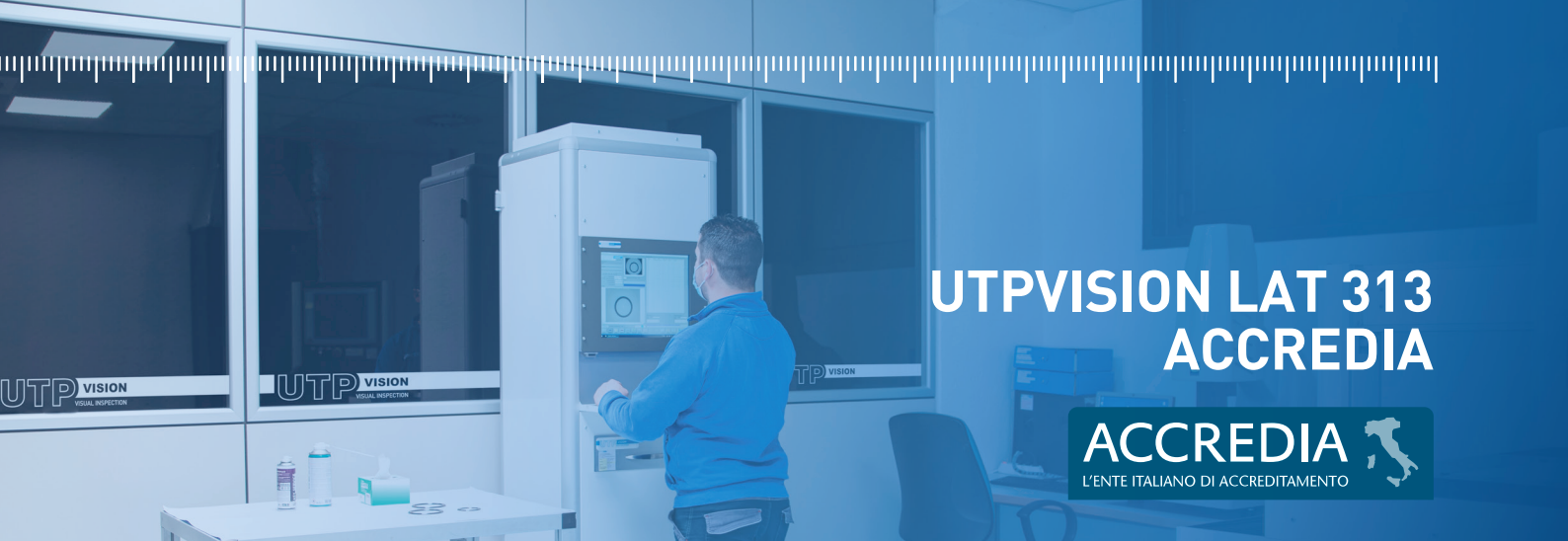
UTPVISION LAT 313 ACCREDIA

UTPVision's **LAT 313** Center is **the first metrological laboratory accredited** by the independent accreditation body Accredia, for the diametrical optical measuring system.
ACCREDIA guarantees the **competence**, **independence**, and **impartiality** of the LAT 313 Centre. In this way, UTPVision helps to stimulate the circulation on the market of reliable inspection instruments, issuing internationally recognized calibration certificates (EA, ILAC).

UTPVision operates in compliance with **UNI CEI EN ISO/IEC 17025:2018**, a decisive factor for customers who must guarantee the quality of their products in highly demanding sectors, such as automotive certification (IATF 16949). Compliance of products and services is guaranteed in full compliance with current technical regulations.
UTPVision considers the application of a Quality Management System compliant with the requirements of **UNI EN ISO 9001:2015** as a tool for constant growth.

What makes UTPVision's inspection machines unique is the innovative **Artificial Intelligence software (AIs)**, which twists the traditional image processing methods based on manually set thresholds. With AIs, the operator just needs to collect a series of significant samples that well represent the range of defects to be found. Thanks to the SVL (SuperVised Learning) procedure, the machine can be quickly trained to discriminate and classify defects according to the user's needs.

UTPVision's patented **Color Vision** technology is the result of years of constant innovation in machine vision solutions. Our automated inspection systems leverage multiangle and **multicolor** illumination to detect even the most critical surface defects, delivering cutting-edge performance and unmatched flexibility for the inspection of different color parts.

MaviX is the dedicated software for monitoring and managing automatic and manual visual inspection systems, specifically designed for use in the rubber-goods sector. The MaviX suite consists of two independent modules: **MaviX-A** for automatic sorting operations and **MaviX-M** for those of manual nature. MaviX-A is a perfect solution to streamline automatic visual inspection machines in order to benefit from the advantages brought about by **Industry 4.0**

UTP VISION