

Jornadas Técnicas Industrial Track 4.0 2024

LA INDUSTRIA Y LA IA CON MUCHA VISION
“SIX HEAD” SURFACE INSPECTION SYSTEM



ADOLFO CARDELÚS- MACHINE VISION PRODUCT MANAGER
BURGOS, 24-25 DE SEPTIEMBRE 2024



¿Quien es NUTAI?



TECNOLOGÍAS

MACHINE VISION SYSTEMS

ROBOTIC & COBOTIC STATIONS

PART TRACEABILITY

SOFTWARE DEVELOPMENT

AI PREDICTIVE MAINTENANCE

PALLETIZING – INTELLIGENT HANDLING

BIN PICKING

GANTRIES

DEEP LEARNING

¿Donde está NUTAI?

- ESPAÑA
- MEXICO
- ALEMANIA



Referencias

CLUSTER
ENERGIA
Comunidad Valenciana



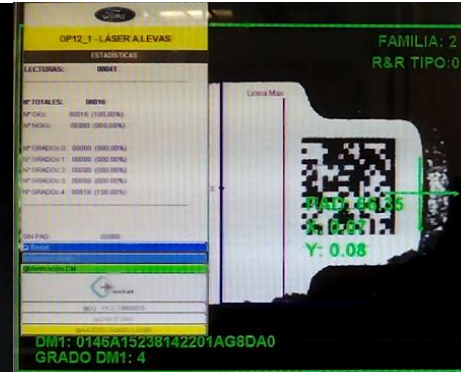
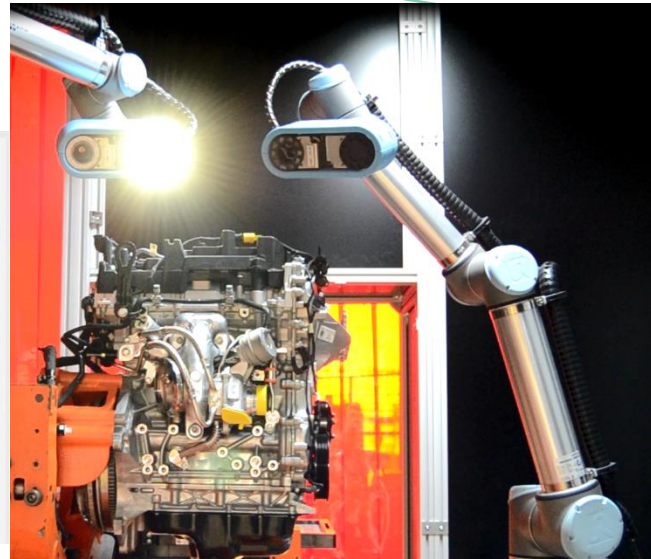
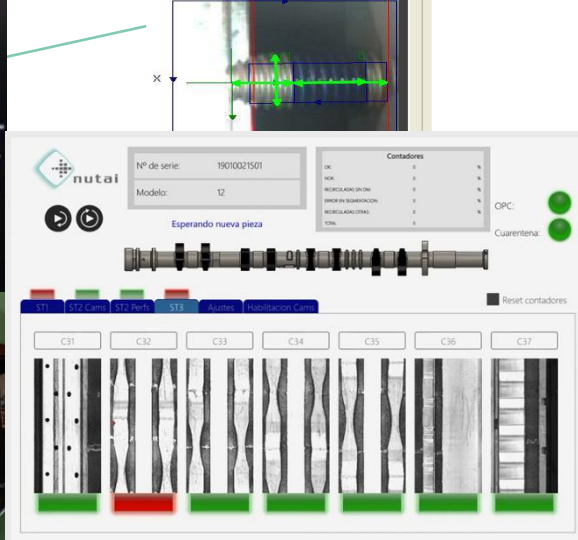
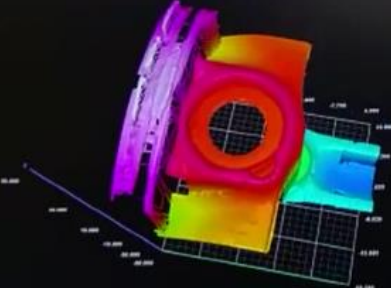
 **AVIA**
Cluster de Automoción de la Comunitat Valenciana

 **UNIVERSAL ROBOTS**
Certified System Integrator

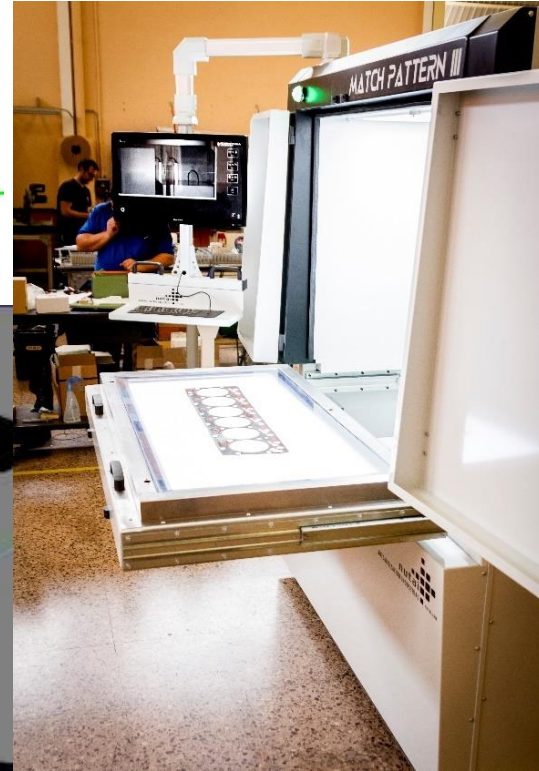
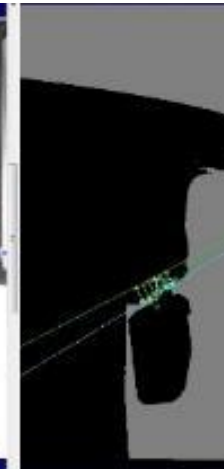
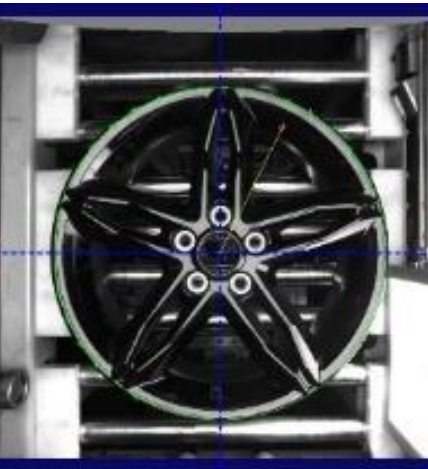
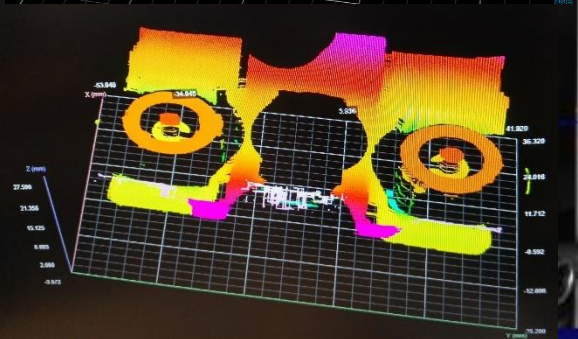
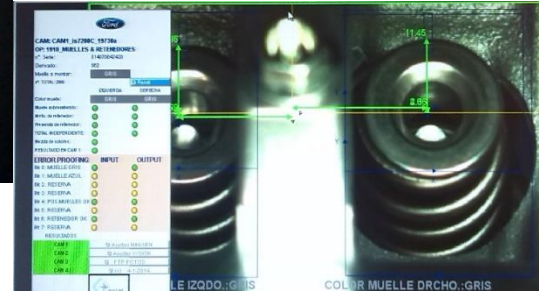
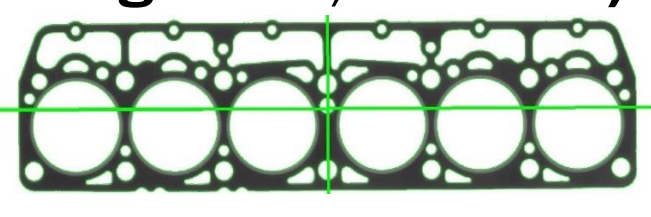
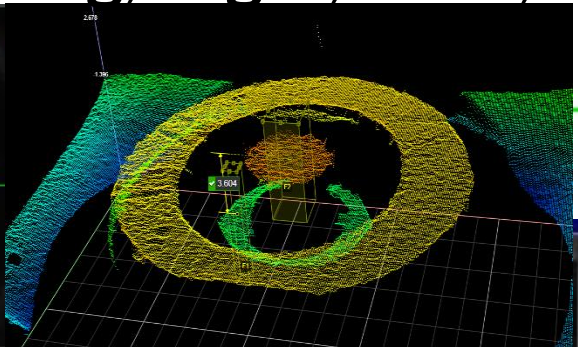
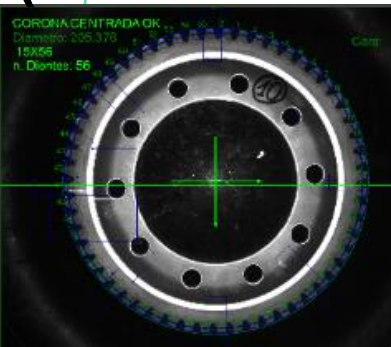


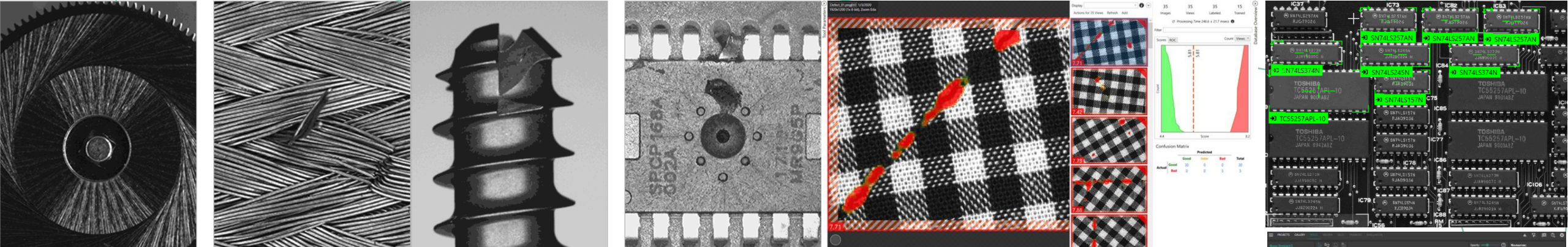
INNOVATIVE SME
Valid until Feb 2nd 2024





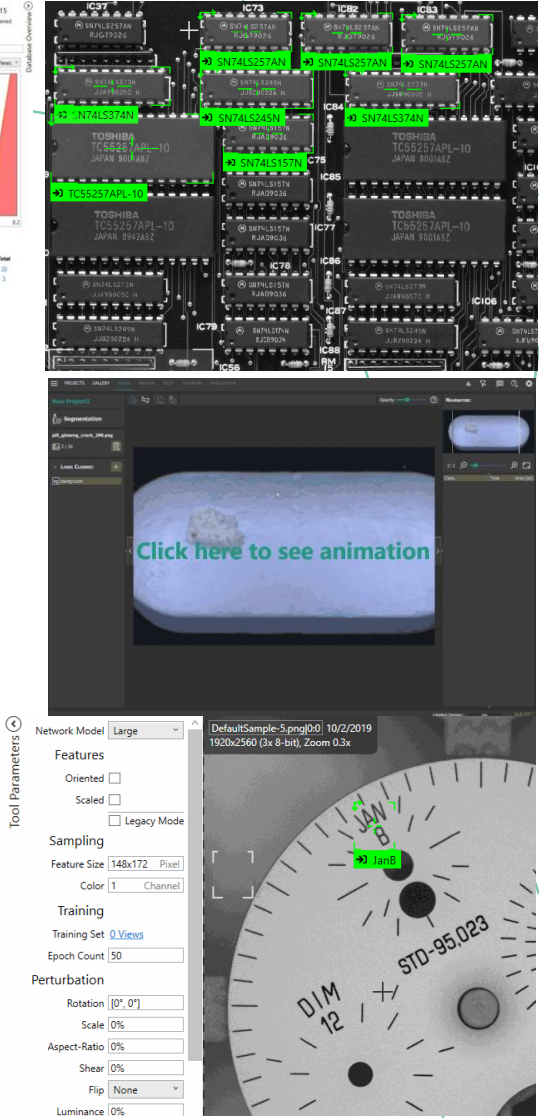
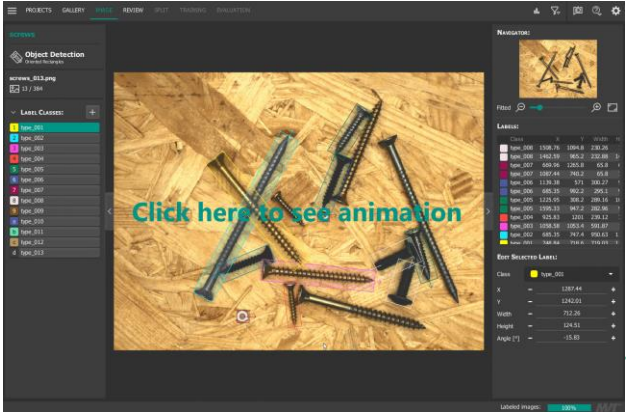
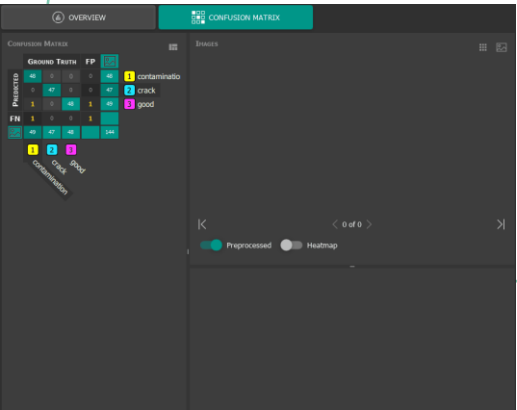
SISTEMAS DE VISION ARTIFICIAL INDUSTRIALES BASADOS EN ALGORITMOS CONVENCIONALES (PatternMatching, Edges, Blobs, Histogramas, Filtros ...)





SISTEMAS DE VISION ARTIFICIAL INDUSTRIALES BASADOS EN REDES NEURONALES.

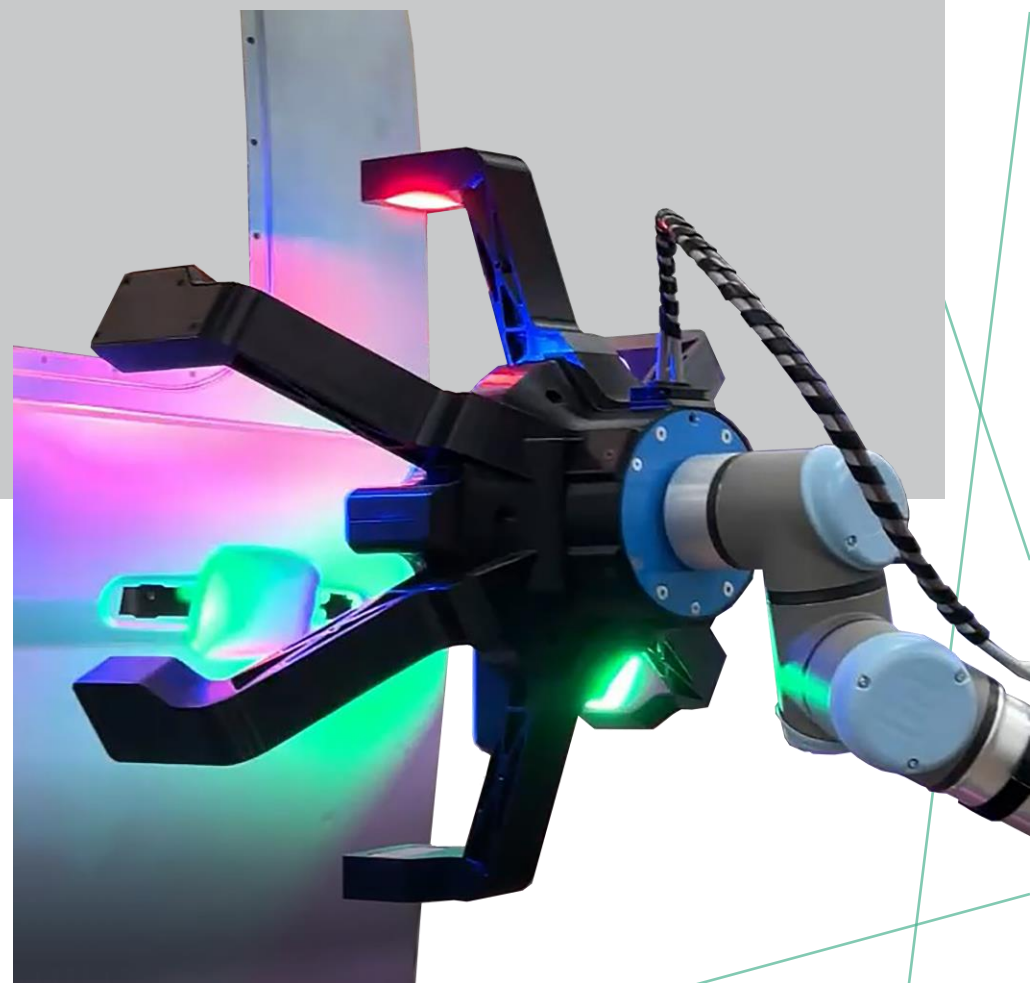
MODELOS DE DEEP LEARNING CAPACES DE APRENDER
DE FORMA “SUPERVISADA” Y “NO SUPERVISADA”... EN
IMÁGENES Y OTRAS FUENTES DE DATOS.



Caso de éxito: SIX Head - Inspección superficial en chapa con Modelo NQInspect.

 **SIX Head**
Surface Inspection Head

 **NQinspect**
NUTAI QUALITY INSPECTION SYSTEM by nutai



SIXHead

Surface Inspection Head



Sistema de inspección de defectos superficiales en chapas metálicas u otras superficies mediante modelos basados en IA.

SIXHead emplea varias tecnologías: **robótica avanzada, visión por ordenador**, y software basado en el **modelo de inteligencia artificial propiedad de NUTAI (NQInspect)** para la detección de defectos con una precisión de 0,1 mm.

Defect detection



BUMPS



DENTS



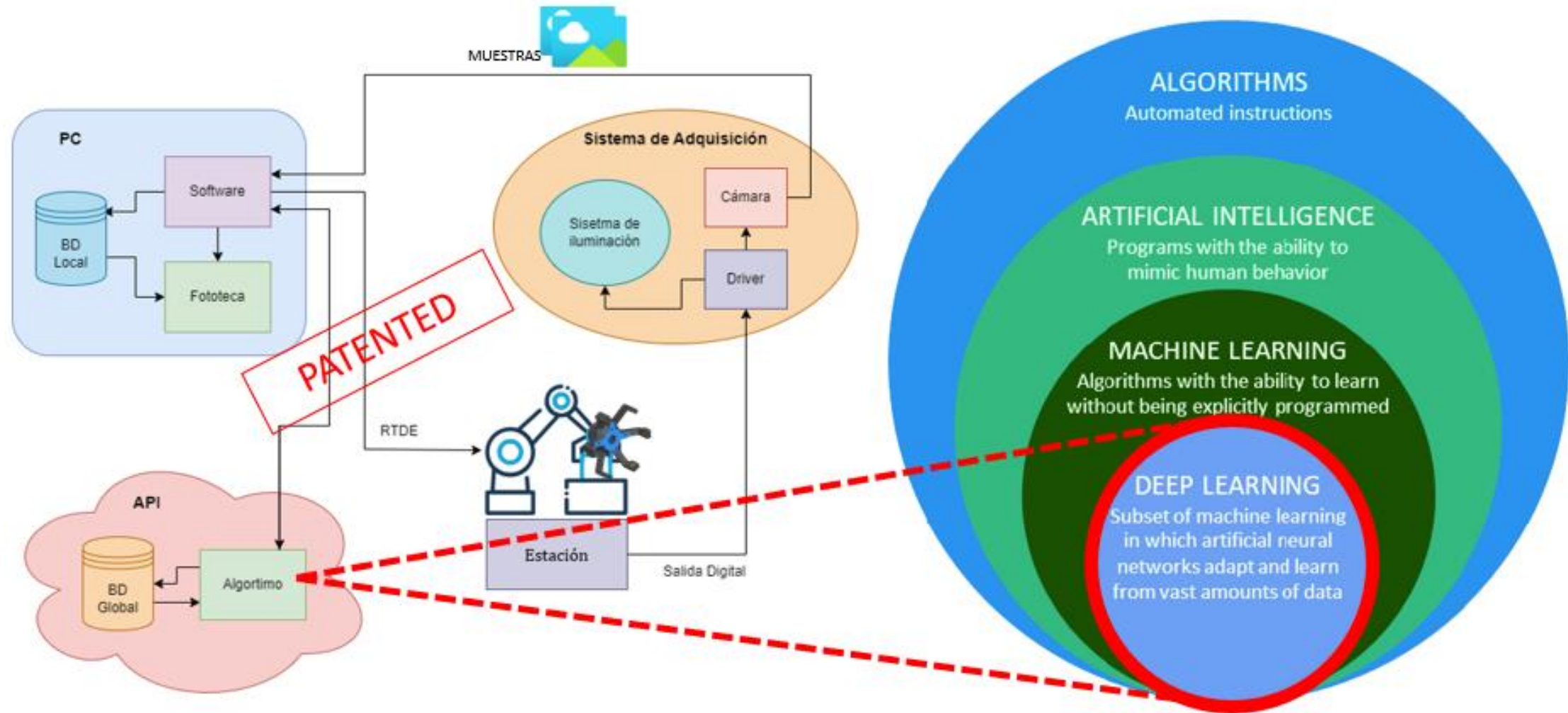
SINK MARKS



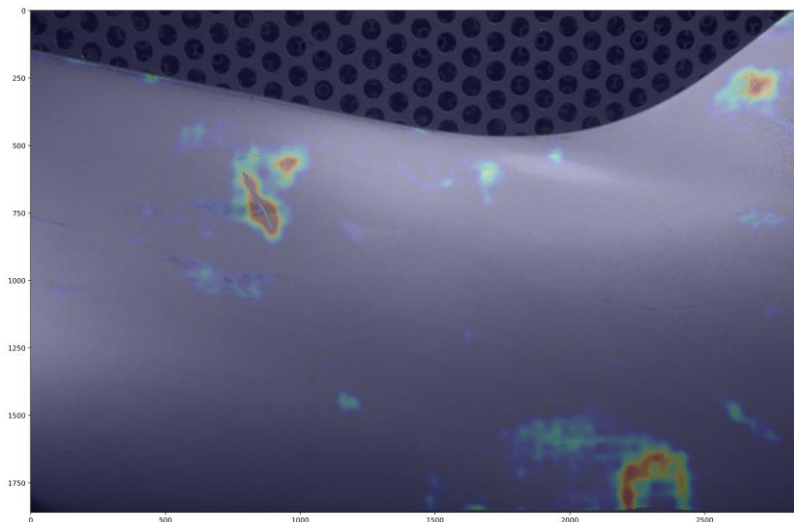
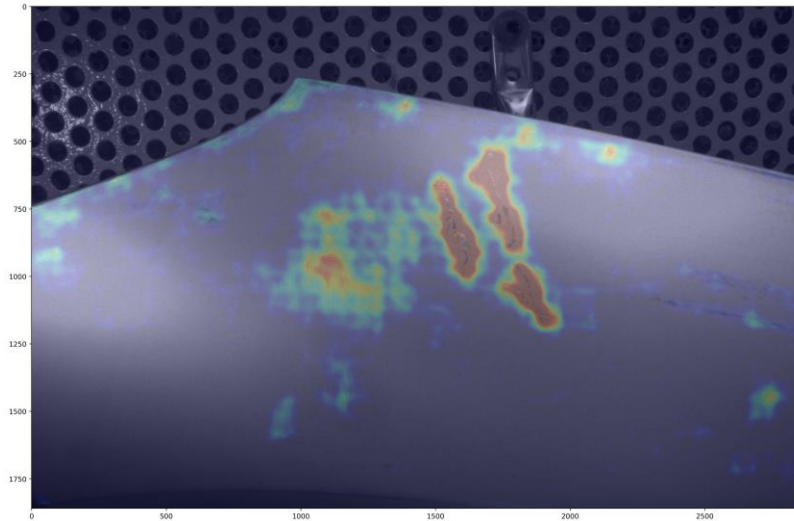
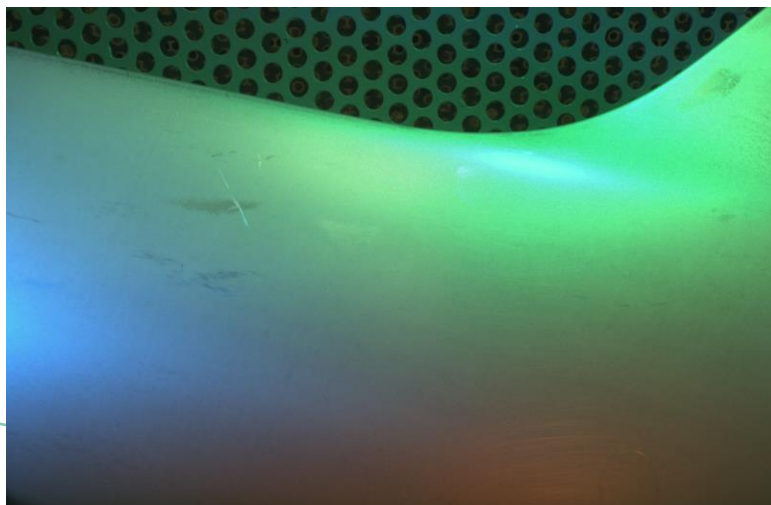
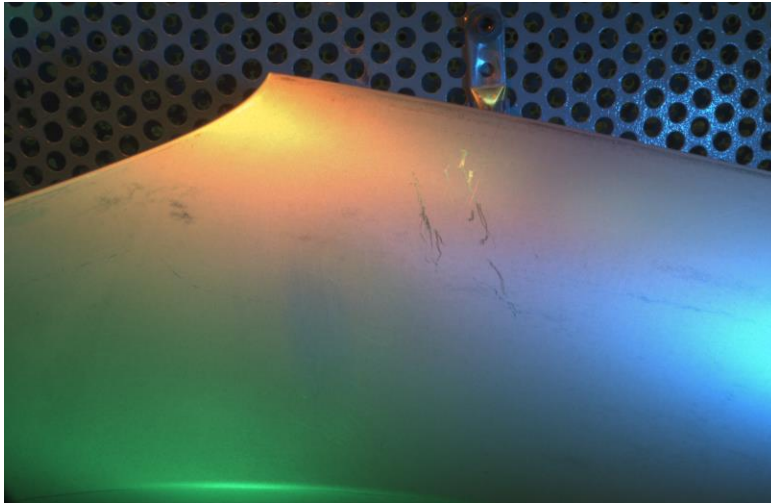
WAVINESS

SIXHead BASADO EN MODELO NQInspect

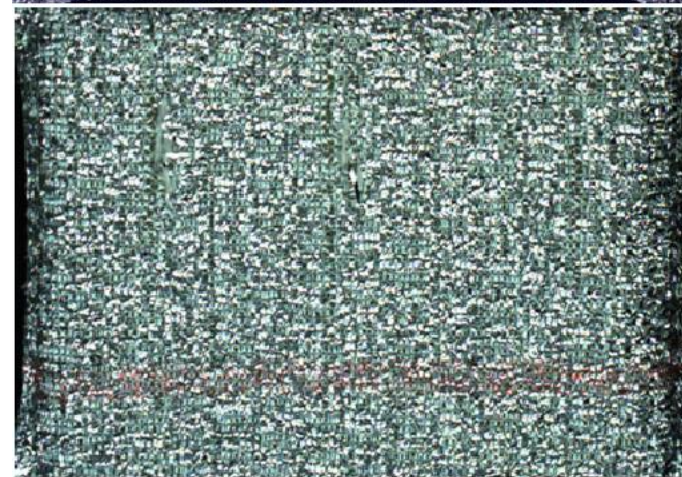
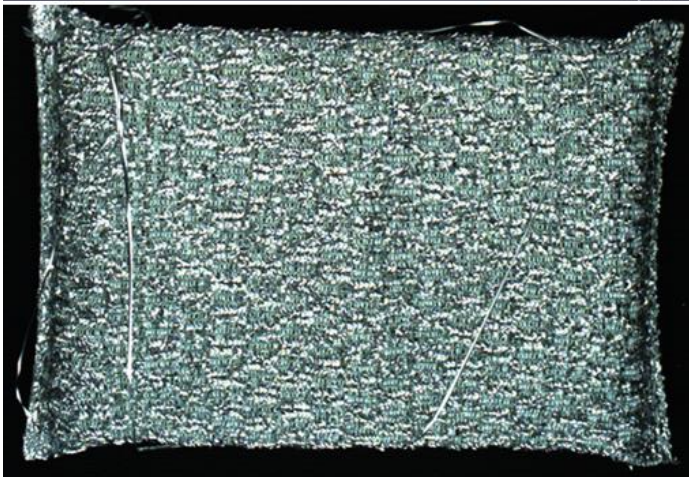
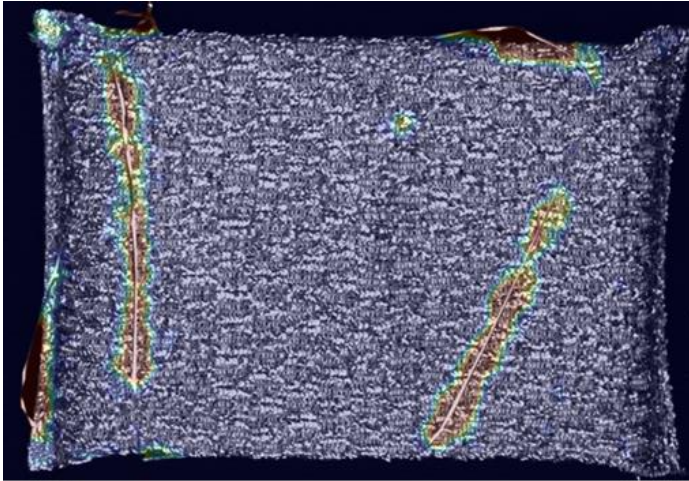
- Modos "Supervisado" y "No Supervisado"
- Modelo "agnóstico a los datos de entrada"

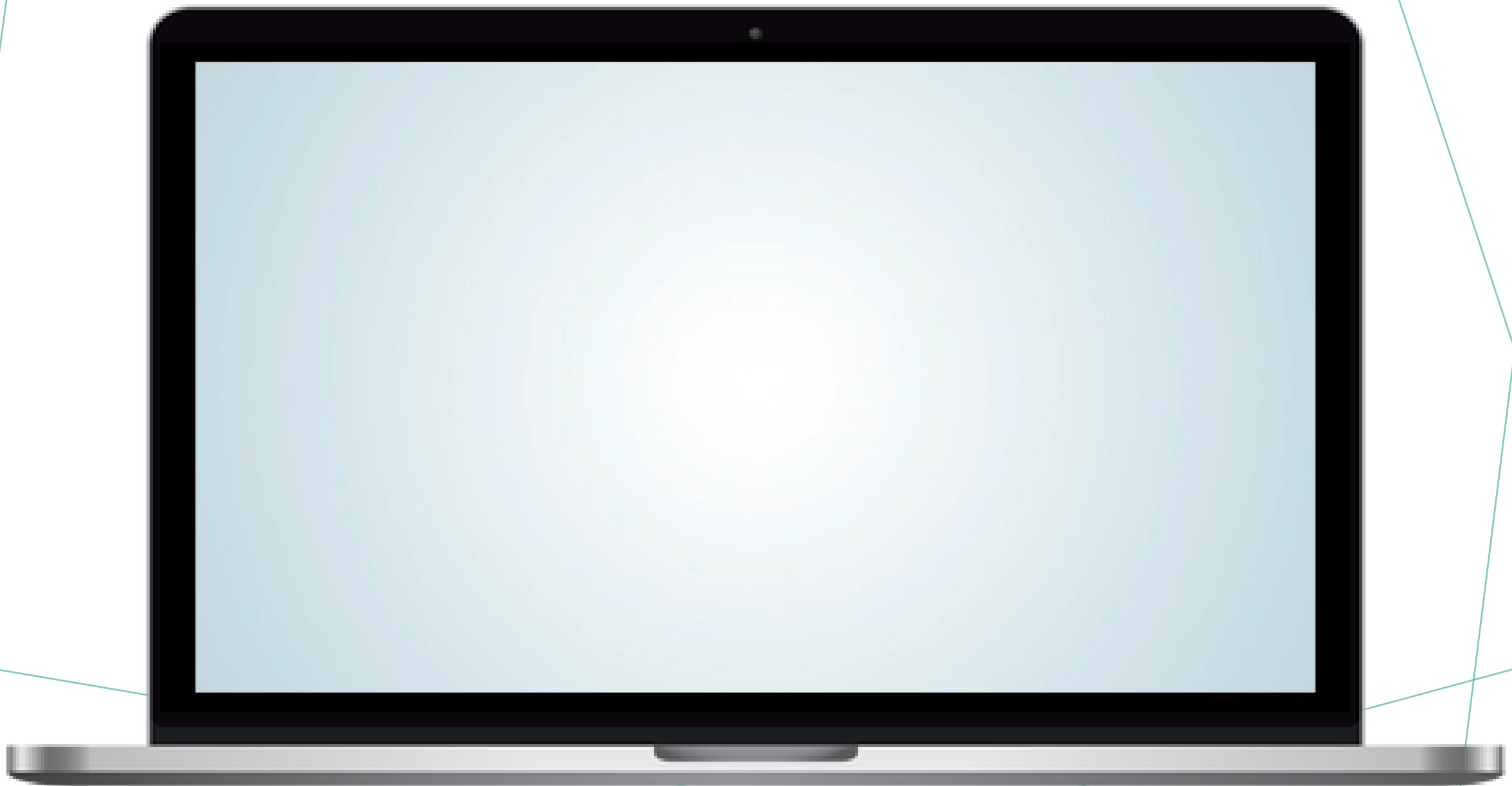


DETECCIÓN DE DEFECTOS CON EL MODELO EN CHAPA SIN PINTAR (LATERALES, TECHO, CAPÓ, PORTÓN TRASERO, PASOS DE RUEDA)



DETECCIÓN DE DEFECTOS CON EL MODELO EN PRODUCTO IRREGULAR (ESTROPAJOS)





Gracias

Para más información, póngase en contacto:



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