

# SURFACE VISION



The leading automated surface inspection partner for fast and accurate materials checking.

## AUTOMOBILE INDUSTRY COMPONENT INSPECTION

DELIVERED THROUGH

**SMART  
VIEW**<sup>®</sup>

Online detection, classification and visualization of surface defects

**SMART  
ADVISOR**<sup>®</sup>

Synchronized real-time process monitoring and inspection

**METEK**<sup>®</sup>

**SURFACE VISION**

**GIVING YOU THE  
WHOLE PICTURE**

The leading automated surface inspection partner for fast and accurate web inspection and monitoring.

# ENSURING VEHICLE COMPONENT QUALITY

Modern automobiles are assembled from hundreds of components, each made from metal, plastics, glass or nonwoven materials.

The safety, quality, and proper operation of the vehicle depends upon the standard to which these components are produced.

Automobile part manufacturers rely on automated surface inspection solutions to ensure quality and increase productivity, delivering defect-free products.

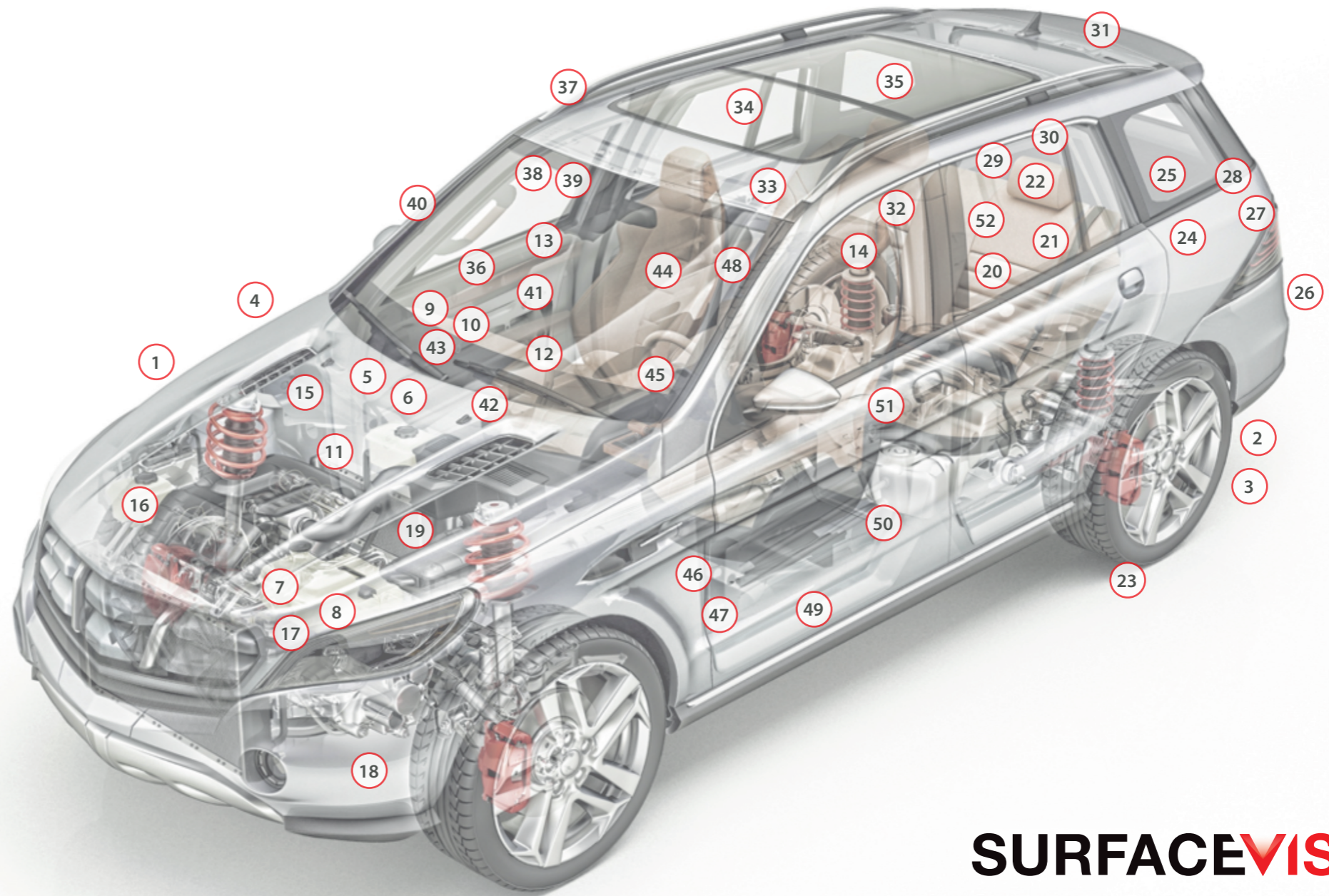
AMETEK Surface Vision provides a powerful, customizable solution for surface inspection across a range of industries, including metals, paper, plastic, glass and nonwovens.

We use the latest, best-fit technology for each application, delivered with the highest consistency and without compromise by experienced service personnel.

This means our systems detect defects in real-time, with highly configurable inspection software that automatically identifies and visualizes product imperfections, synchronizing to the root cause of the imperfection with our web monitoring solution.

**The benefits are: improved product quality, better productivity, maximized yields, defect detection prior to value-added processes or shipping, and a reduced need for manual inspections.**

That's why AMETEK Surface Vision solutions are relied upon by major automobile component manufacturers around the world.



# SURFACEVISION

## SOFTWARE

Our dedicated Windows-based software integrates seamlessly with "off the shelf" system hardware to provide continuous detection, classification, visualization and reporting, accessible across the network.

## CAMERAS

Non-proprietary, high-precision, continuous-operation cameras are located across the process, using resolutions and optical technologies best suited to each specific application.

## LIGHTING

Powerful, long-life LED lights brightly illuminate the web for inspection and monitoring, delivering uniform lighting levels.

## DATA CAPTURE & ANALYSIS

Our Windows-based, non-proprietary computer systems store and analyze data from the cameras, supporting video streaming and defect classification capabilities.

## APPLICATION SUPPORT

Our expert applications knowledge helps you to run your system more easily, providing the optimal solution for your process.

### METALS

1. Steel – external painted panels
2. Steel – internal oil filters, exhaust components, brake pads
3. Steel – wheel rims
4. Aluminum – body panels and painted material
5. Alloys – electrical components
6. Copper – electrical

### PAPER

7. Filters
8. Labels and stickers

### PLASTIC

9. Protective films

### GLASS

10. Displays
11. Battery separators (in EVs and hybrids)
12. PVB foil in windscreen
13. Windshield
14. Windows

### NONWOVENS

15. Fuel filters
16. Oil filters
17. Molded hood liners
18. Sound-proofing
19. Battery separators
20. Decorative fabrics
21. Polyurethane coated backing
22. Seat slip agents

23. Tire reinforcement
24. Trunk floor covering
25. Trunk liners
26. Muffler wraps
27. Molded fuel tanks
28. Bodywork parts
29. Rear shelf panels
30. Window frames
31. Headliner facings
32. Upholstery backing
33. Loudspeaker housing
34. Sunroof
35. Saloon roof
36. Insulation materials
37. Headliner backings
38. Sun-visor covering
39. Sun-visor padding
40. A, B, C column padding

41. Door trim pads
42. Cabin air filters
43. Loudspeaker cover
44. Covering for molded seats
45. Transmission tunnel
46. Carpet and carpet reinforcement
47. Car mats
48. Vinyl backing for seat covers
49. Backing for tufted carpeting
50. Covering for seat belt anchorage
51. Covering for seat belt

### OTHER

52. Synthetic leather

# SURFACE VISION

## ABOUT AMETEK SURFACE VISION

AMETEK Surface Vision is the world leader in automated online surface/web inspection and monitoring solutions. Our broad product range is optimized for the monitoring and inspection of webs and surfaces, and for process surveillance applications.

The SmartView® and SmartAdvisor® product lines deliver robust, flexible solutions to continuous production processes across a number of industries, with hundreds of customers and more than 3,000 installations worldwide.

Our systems have become vital to increasing efficiency, streamlining operations, improving product quality and reducing costs and waste in industrial processes. Manufacturers in the metals, paper, plastics and nonwoven industries rely on our solutions to detect surface flaws or defects, and optimize process efficiency, at their production facilities across the globe.

We continue to innovate, providing cutting-edge technologies and world-class technical support that delivers highly accurate defect data, high-definition video, intelligent grading, archiving and detailed reporting. Customers who use AMETEK Surface Vision's services get the benefits of:

- **Reduced operational costs**
- **Reduced material waste**
- **Process optimization**
- **Improved product quality**
- **Maximized yield**
- **More thorough and objective grading of material**
- **Detection, classification and visualization of defects**
- **Minimized need for manual inspections**
- **Inspection reports you need, in a form you can use**

Based in Hayward, California, AMETEK Surface Vision has offices and sales representatives around the world. We are part of the Process and Analytical Instruments Division of AMETEK, Inc., a leading global manufacturer of electronic instruments and electromechanical devices.

## SURFACE VISION WORLDWIDE

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