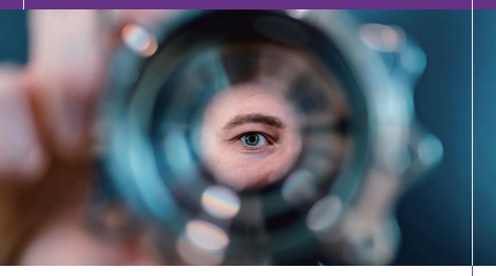
Components Business

Providing solutions in a variety of businesses, including optical components.



From optical component production to the development of custom-made products. Contributing to the evolution of industry and technology.

The Components Business comprises three businesses: Digital Solutions, Customized Products, and Glass. The Digital Solutions Business comprises a variety of businesses, including optical materials and components, and encoders that detect the rotation angle of the joints of industrial robots. There is also the Customized Products Business, which designs and manufactures custom-made products, ranging from cutting-edge space technology development to EUV-related components and inspection equipment for food industry; and the Glass Business, which manufactures FPD photomask substrates. Through these wide-ranging businesses, Nikon contributes to the development of society, industry, and science and technology.

Ultra-compact Machine Vision Camera "LuFact"

A machine vision camera based on proprietary image processing technology gained in long-term digital camera development.

Intelligent Actuator Unit "C3 eMotion"

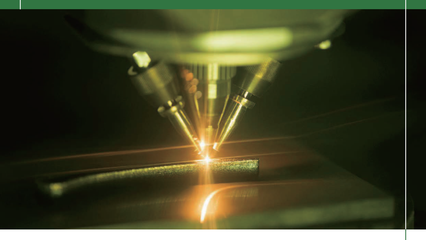
A joint unit for a collaborative robot that integrates a motor, speed reducer, driver, brake and encoders.

Foreign Material Inspection System for the Food Industry

Uses spectroscopic technology and AI to detect organic substances. (Foreign material inspection system for jam and fruit spreads developed jointly with AOHATA Corporation to enable automatic inspection of foreign material and impurities in the jam and fruit spread manufacturing process)

Digital Manufacturing Business

Bringing innovative processing technology and measuring solutions to production facilities.



Meeting a wide range of automotive and aerospace needs for material processing, as well as measuring and inspecting semiconductors and electronic components.

The Digital Manufacturing Business innovates manufacturing with high-precision materials processing technology and measurement and inspection technology. Through optical processing machines including the Lasermeister series, various processing of materials, such as additive or removal processing, becomes highly precise yet simple. Moreover, measurement and inspection technology such as X-ray and CT Systems, Laser Radar, and Video Measuring Systems contribute to the automation of production processes and the improvement of work efficiency and product quality. These technologies respond to a wide range of needs in the manufacturing industry and generate innovative solutions for maximizing the value and potential of digital manufacturing.

Metal 3D Printers and Optical Processing Machine "Lasermeister" Series

An extensive lineup responds to a broad range of material processing needs, from metal additive manufacturing to marking, bonding, and high-precision removal of various materials.

X-ray and CT Systems "VOXLS 40 C 450"

Quickly performs internal defect analysis and shape measurement of a wide variety of inspection targets. Also supports cutting-edge manufacturing such as the production of lithium-ion battery modules for electric vehicles (EV).

Laser Radar "APDIS"

Contributes to improved productivity by enabling non-contact 3D measurement of objects ranging from small automobile parts to large aircraft assemblies.

Video Measuring Systems "NEXIV VMZ-S" Series

Ensures quick and accurate automatic measurement of complex-shaped test objects such as electronics for automotive applications and semiconductor components.