

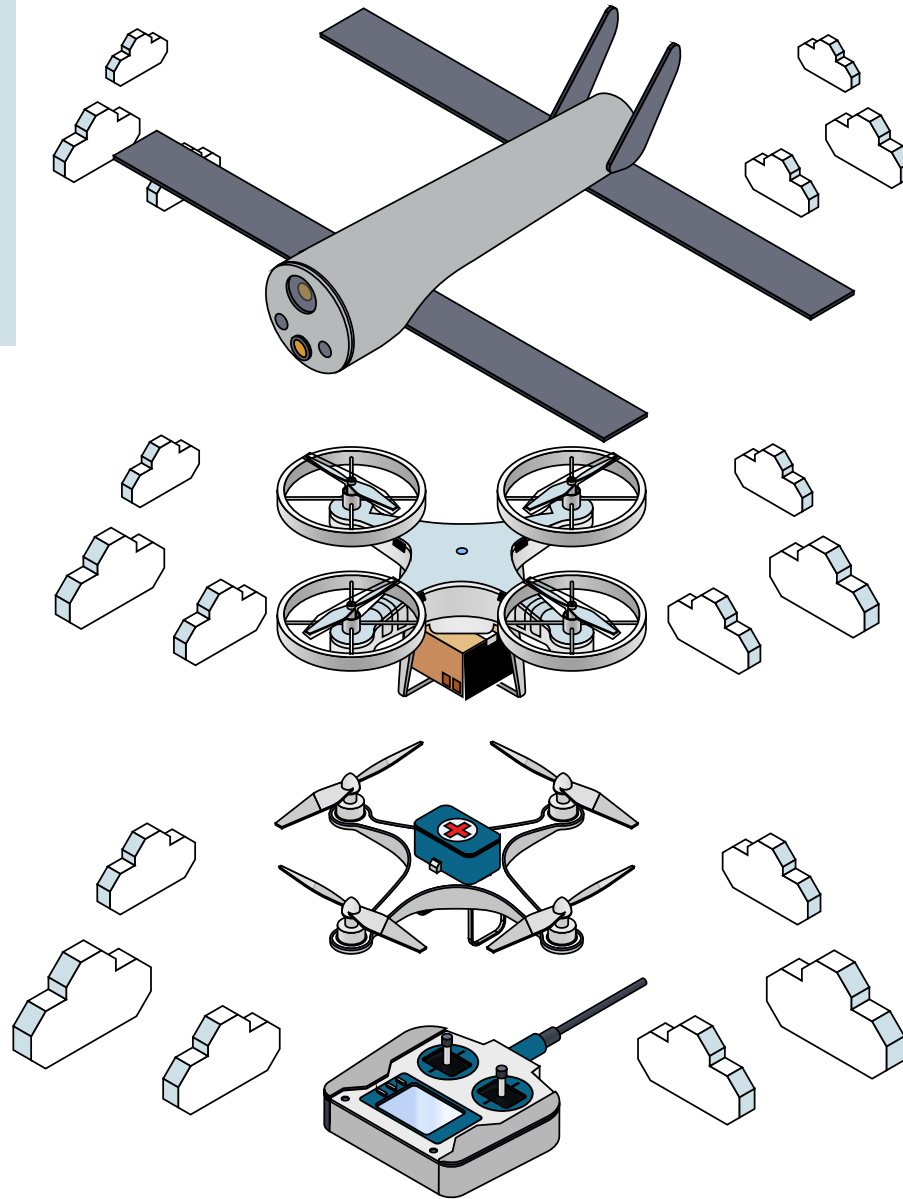
HIGH FLYING INNOVATION: UAV TECHNOLOGY

interface
FORCE MEASUREMENT SOLUTIONS.

Unmanned Aerial Vehicles (UAVs) are primarily used in developed countries for multiple purposes, from entertainment and agriculture monitoring to package delivery and governmental defense operations. Interface force sensors are used during the development, testing, and validation phases of UAVs. Testing is necessary to ensure that UAVs can withstand operational stresses, perform efficiently, and maintain reliability throughout their lifetime.

Interface has experience supplying precision measurement devices to advance research, technologies, and innovations. Interface load cells, miniature transducers, and instrumentation solutions are perfect for UAV Test and measurement. Our wireless sensors and digital instrumentation are particularly attractive to drone makers because they eliminate the need for wires and facilitate real-world testing.

UAVs cause sensors for important operations including surveillance and inspecting difficult-to-reach locations at certain altitudes or in contaminated surroundings. UAVs can be employed for aerial evaluation of buildings and other infrastructure such as pipelines, electric grids offshore plants, and solar plates. UAVs embed measurement devices to continuously measure weight and force during operations.



The overall global UAV market is projected to reach \$48.5B in 2029, and the UAV volume is projected to grow from 5.42M units in 2024 to 7.51M units in 2029. Growth is driven by lightweight materials, technology advancements and new applications for UAVs.

Interface force sensors are used during the development, testing, and validation phases of UAVs. Testing is necessary to ensure that UAVs can withstand operational stresses, perform efficiently, and maintain reliability throughout their lifetime. The sensor data also supports regulatory requirements.

Interface load cells and instrumentation support the use of UAVs rapid growth across many civil application domains, including real-time monitoring, providing wireless coverage, remote sensing, search & rescue, delivery of goods, security & surveillance, precision agriculture, and civil infrastructure inspection.

