



Automate manual, subjective operations for optimal fit and finish



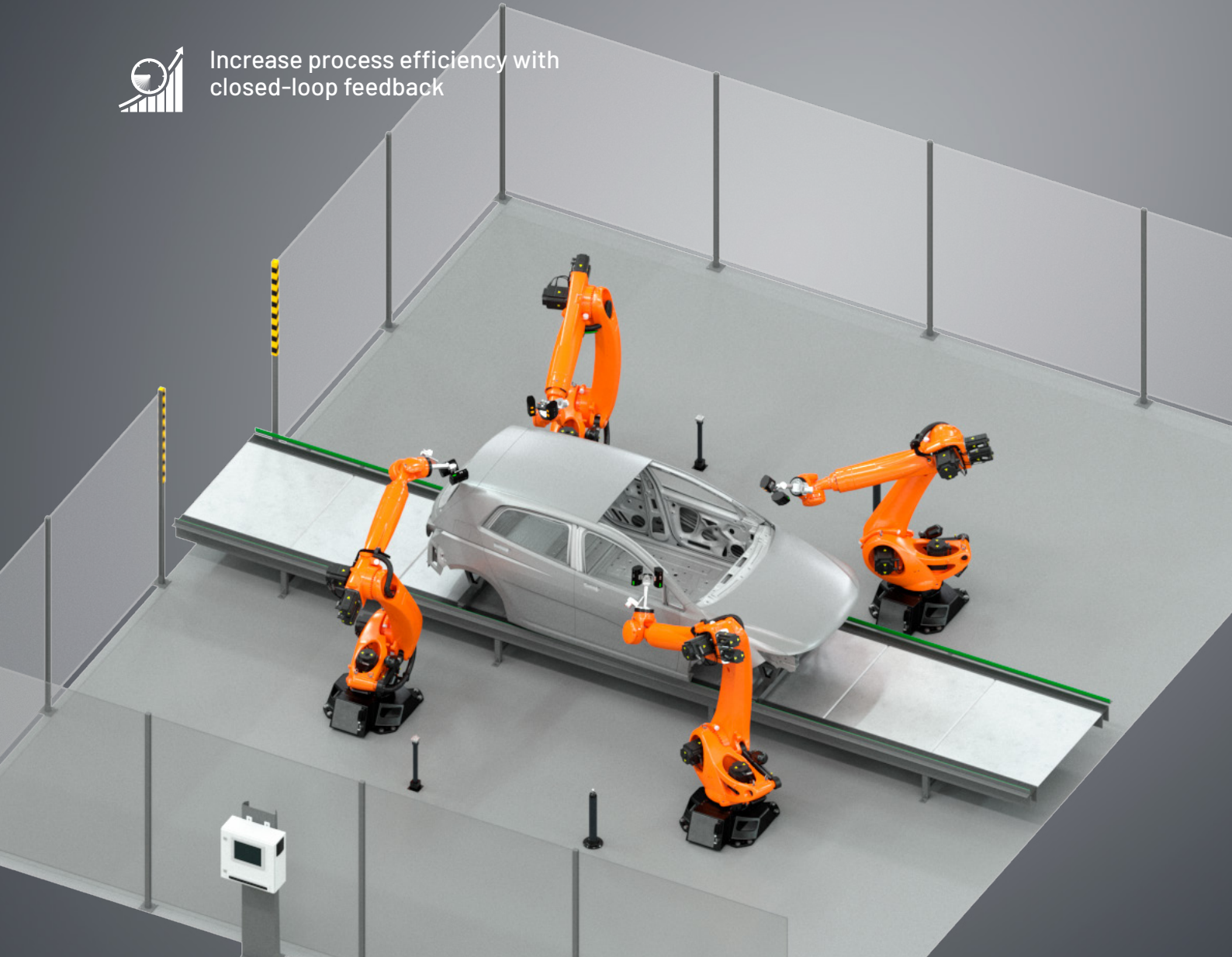
Reduce costs with less labor, warranty, and scrap



Improve quality by reducing road, wind noise and water leaks



Increase process efficiency with closed-loop feedback



AUTOFIT

Automated, Accurate Gap and Flush Measurement Solution



ISRA
VISION
Part of Atlas Copco Group

About AutoFit – Automated, Accurate Gap and Flush Measurement Solution

AutoFit inline solutions feature our latest robot-mounted Helix_{solo} sensor and advanced algorithms, delivering best-in-class measurement data for adjacent materials in both the body shop and final assembly. Our robotic solutions ensure optimal positioning for every feature, guaranteeing exceptional measurement repeatability—even when vehicle positioning is not consistent.

Whether you're aligning headlamps to paint and chrome, tail lamps to paint and chrome, or paint to paint, Helix_{solo} provides precise measurement results in seconds. This enables you to quickly identify and correct out-of-spec fit conditions, ensuring superior quality and efficiency throughout your production process.

AutoFit can automatically transmit offsets to downstream stations, enabling real-time alignment adjustments. Alternatively, it can guide your personnel by pinpointing exactly where corrections are needed. With AutoFit, every product leaving your facility meets the highest quality standards—consistently and efficiently.



Sensor Type	Field of View of Standoff (mm)			Length (mm)	Weight (kg)
	X	Y	Z		
C200	0	65	100	175	1.80
C400	0	55	120	235	2.20
C600	0	110	200	310	2.60
C800VF	0	250	400	380	3.10

Technical Data	
Operating Temp.	10 - 45° C
Communications	PoE Class 4
Laser	Violet or Blue 405 or 450 mm wavelength
Safety	Class 2M or 3R IEC 60825-1:2014
Certification	CE
Protection	IP67

KEY FEATURES

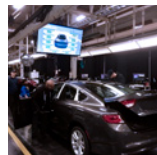
- Helix_{solo} is a non-contact, single line sensor built for the plant floor with an IP67 rating (dust-tight, immune to temporary water immersion).
- By pairing a high-resolution camera with a blue and violet laser, we have achieved an unparalleled return image quality on edges and hemmed radii.
- Available in 200mm to 600mm standoffs to support all robot types – collaborative and industrial.
- Single cable connectivity via Power over Ethernet (PoE) is common with Helix_{HD} and simplifies robot dress package setup and system maintenance.
- Optimized acquisition speed and save cycle time since the entire gap is captured in one scan.
- Factory calibrated and rectified so each sensor arrives ready to measure.
- No-offset algorithm provides data confidence and meets industry-leading gap and flush standard.

SPECIAL FEATURES



Real-time Data

Know your fit and finish quality on every vehicle before it leaves the body shop or final assembly.



Fitter Monitors

Present current part in station results for fitters to only correct what is out of specification.



Flexibility

Available as a stop station or moving line configuration to meet your production requirements and cycle time.