

CALIPRI

C11

TRICKY
PROFILES,
TRUE
DATA



C11LKF1 - CALIPRI C11

Data sheet

DATA SHEET

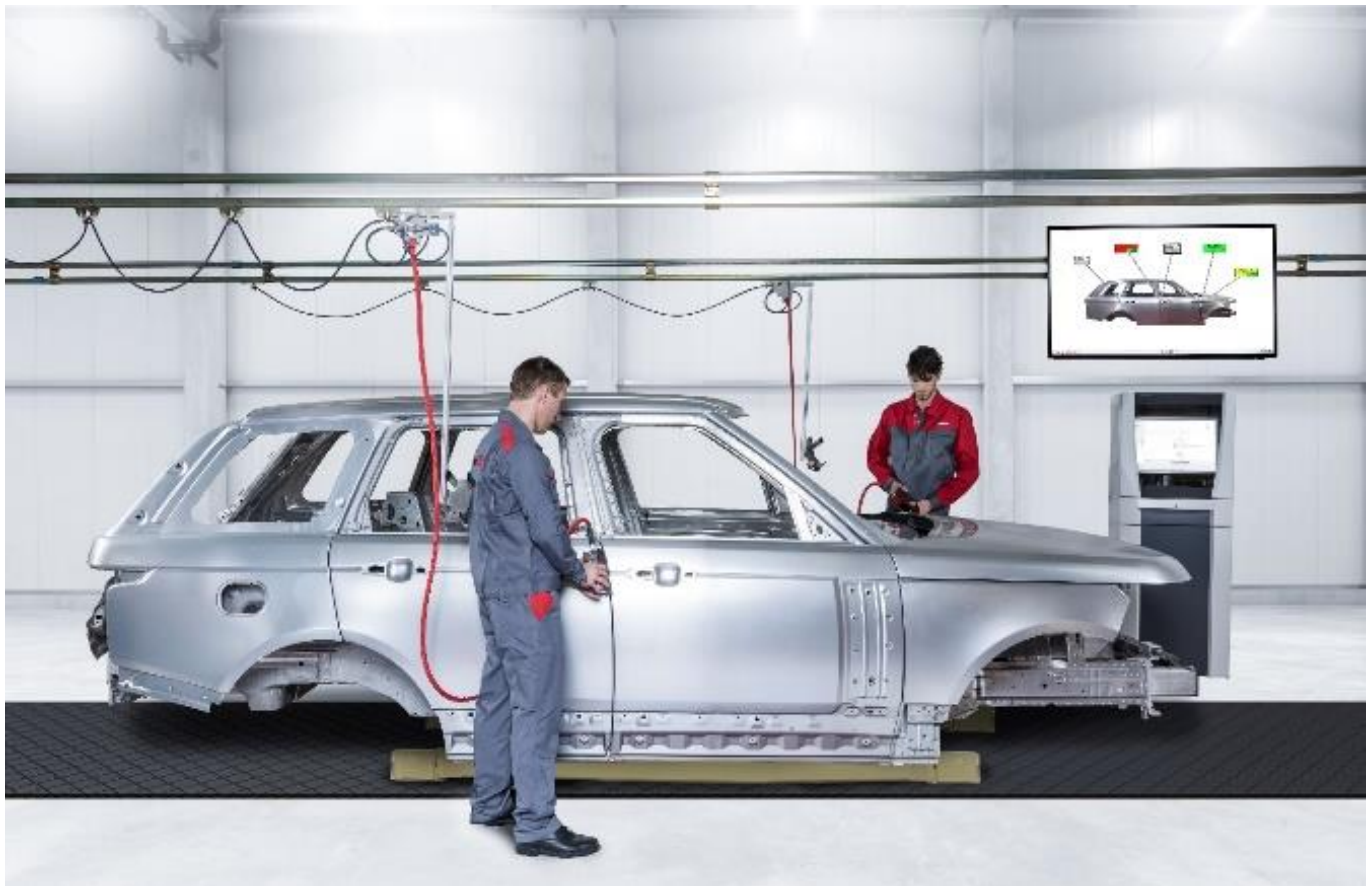
APPLICATION

CALIPRI C11 is a handheld gap and flush measuring system for taking continuous measurements on a production line.

The system is extremely easy to use and collects real data. Therefore, choosing CALIPRI C11 means you can rely on a highly accurate measuring system in your production line – without the need for expensive and time-consuming training. The device employs the latest-generation laser light section technology, plus a sensor turning and tilting correction system that is the only one of its kind in the world.

With just a short swiveling motion, the user can capture the entire profile of a gap from multiple perspectives, thus eliminating the need for mathematical approximations. The measurement results are then displayed on a visualization monitor, where deviations in tolerance are highlighted in color.

Thanks to cross-platform measurement standards, the results from the Calipri C11 measuring system can be compared with the data from mobile gap measurement devices (Calipri C10) and robot-controlled systems (Calipri C12) in order to identify deviations in the production process and develop appropriate measures to resolve them.



CALIPRI C11 – LKF PACKAGE

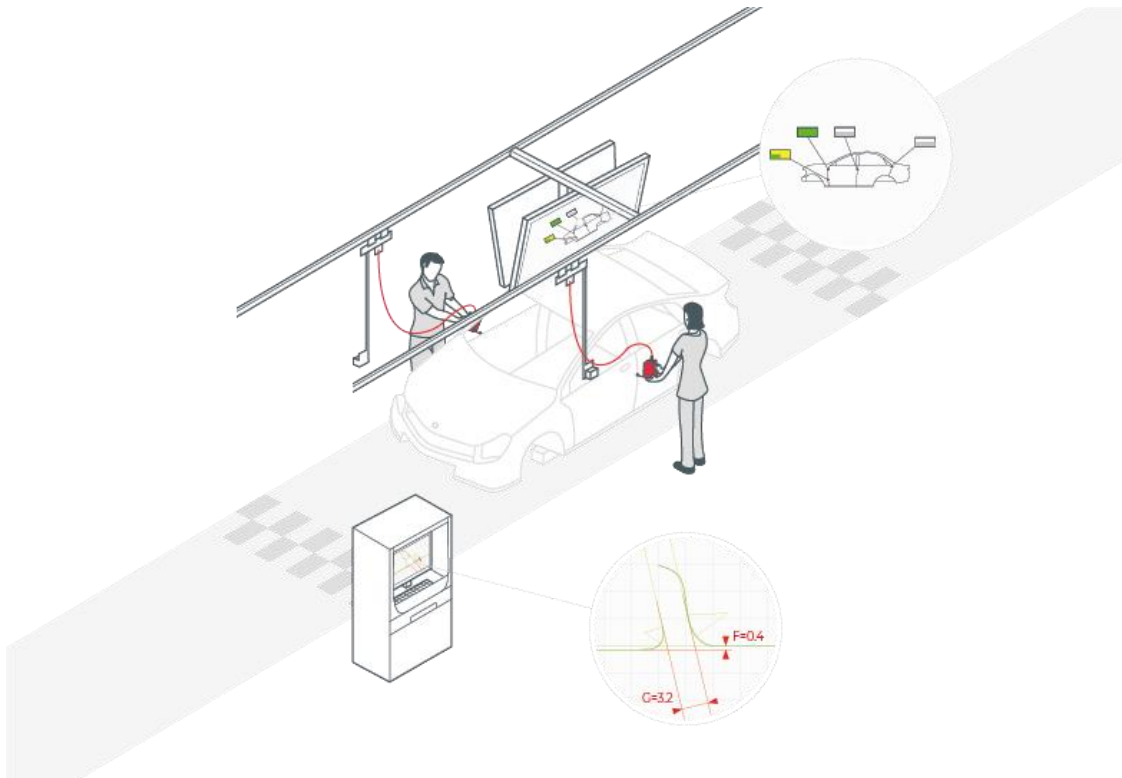


CALIPRI C11 – RFK PACKAGE

OPTIONS

CALIPRI C11 – LKF PACKAGE | LINEAR CABLE GUIDE

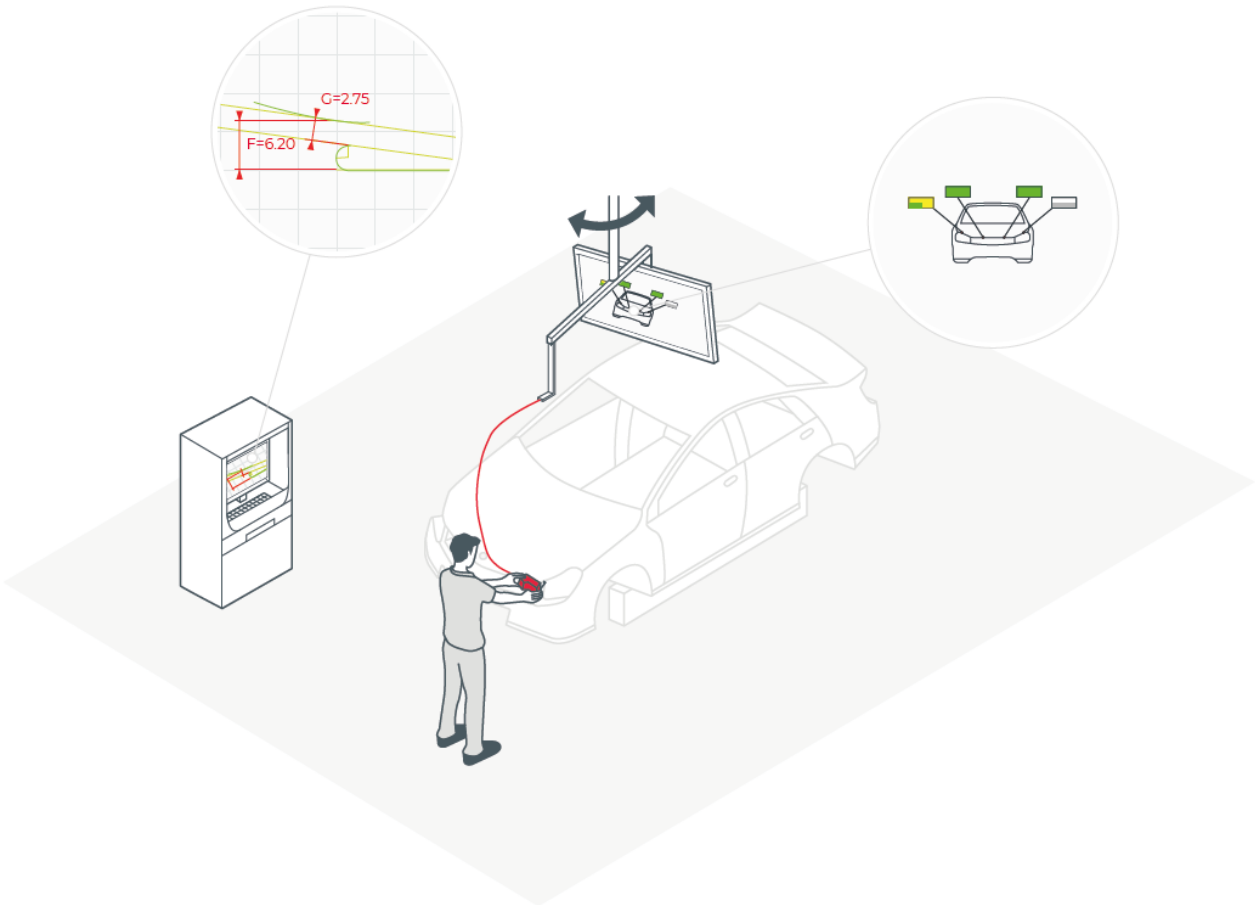
For measuring by hand directly on the production line



- Simultaneous measurement with two Calipri C11 sensors (one on either side of the vehicle)
- Enjoy maximum freedom of movement thanks to the movable rail-mounted cable hanger
- Measurements are taken using the patented Calipri principle:
 - Automatic tilting and turning correction function
 - The swiveling motion during measurement collects real data about the gap contour
- The measurement plan is called up automatically (PLC controlled)
- The measured data is visualized with color-coded tolerance classes
- The measurement results are forwarded to the company database automatically
- The sensor system is calibrated against a certified reference standard

CALIPRI C11 – RKF PACKAGE | ROUND CABLE GUIDE

For taking stationary measurements by hand with low throughput (e.g. audit station)



- 360 ° freely rotating guide rail for the sensor cable
- The person taking the measurements can move freely around the vehicle
- Measurements are taken using the patented Calipri principle:
 - Fully automatic tilting and turning correction function
 - The swiveling motion during measurement collects live data about the gap contour
- The measurement plan is called up automatically (PLC controlled)
- The measured data is visualized with color-coded tolerance classes
- The measurement results are forwarded to the company database automatically
- The sensor system is calibrated against a certified reference standard

SCOPE OF SUPPLY AND SERVICES

	CALIPRI C11 - LKF PACKAGE	CALIPRI C11 - RKF PACKAGE
Hardware	2x sensor with reference standard	1x sensor with reference standard
	2x cable guide (rail)	1x cable guide (360°)
	2x visualization monitor	1x visualization monitor
	Cabinet with computer and control monitor	
Software	Operating system (Microsoft Windows®)	
	"Calipri Inline Software" measurement software	
	"Calipri Manager" measurement plan creation software	
	"Calipri Analyzer" offline analysis software	
	"Automotive Measurement Methods" software license (measurement methods for standard gaps)	
	"Special Gaps" measurement module software license (measurement methods for complex gap contours)	
Services	Project management (situation analysis, installation planning, coordination, documentation)	
	On-site installation and commissioning of the system	
	Basic induction for workers, maintenance staff and IT personnel	

ADD-Ons:

<ul style="list-style-type: none"> + Calipri C1X Trainings <ul style="list-style-type: none"> - Basic Training (CSM2011/AUT1) - Expert Training (CSM2011/AUT2) + Barcode scanner <ul style="list-style-type: none"> - For vehicle identification via barcode - Product ID: CAO9011 + Customized Interface (Export) <ul style="list-style-type: none"> - Product ID: CAO9019 + Measurement plan <ul style="list-style-type: none"> - Creation incl. Parameters, tolerances and visualization - Basic package 20 measurement points (CSM2101) - Extension package +10 meas. points (CSM2102) 	<ul style="list-style-type: none"> + roof of measurement reliability <ul style="list-style-type: none"> - Product ID: CSM2110 + Recalibration service <ul style="list-style-type: none"> - Reference standard recalibration & cert. - Product ID: CSM3008/C1X + C11 Service Package Standard <ul style="list-style-type: none"> - Telephone & e-mail support, 1x on-site maintenance, 1x recalibration reference standard - Service package LKF (CSM1024/LKS) - Service package RKF (CSM1024/RKS) + Calipri Parts <ul style="list-style-type: none"> - Selection of vehicle parts for measurement via touch screen - Product ID: CAO9018
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TECHNICAL DATA

Accuracy	Absolute:	< ± 20 µm
	Repeatability:	< ± 10 µm
Speed	Time/measuring point:	2-3 s
Sensor	Laser class:	2M
	Degree of protection:	IP 54
Control terminal	Computer unit:	Dell P5810 (MS Windows®, 64 bit)
	Monitor size:	19 inches
Visualization monitor	Monitor size:	42 inches
Data recording	Technology:	Laser light section
	Tilt and rotation correction:	Automatic (pat. Calipri principle)
Export formats	Reports:	PDF, direct connection to the printer
	Data records:	XML, CSV/DXF
Application	For semi-automatic measurement of standard and special gaps on the exterior of a vehicle. LKF: Production line RKF: Audit station/reworking station	
Space required	approx. 6 m unobstructed production line (1 cycle)	
Product ID	LKF: C11LKF1 RKF: C11RKF1	