





# TIGO SF

## An easy fit into production

TIGO SF is an innovative coordinate measuring machine (CMM) designed to operate on the shop floor. This compact, robust and ergonomic CMM allows quality assurance to be seamlessly integrated where it's needed most, right where workpieces are manufactured. Intuitive to operate, TIGO SF opens the world of metrology to new users whilst retaining the flexibility and versatile measurement functionality demanded by the most proficient technicians.

A small footprint combined with a highly-accessible measurement volume makes the TIGO SF perfect for close-to-production measurement and cell integration even in the tightest of spaces. Offering a sophisticated yet simple alternative to manual gauging, TIGO SF's open structure and purpose-built accessories and options mean it can also be easily integrated into automated manufacturing cells. Designed for challenging environments, this air-free CMM is fully protected against the effects of dust and dirt, vibrations and humidity in shop-floor environments. Its advanced thermal compensation technology enables users to measure accurately in temperatures ranging from 15 °C up to 40 °C with the XT option.

Combining precision, scanning performance and throughput in one compact machine package, TIGO SF is perfectly suited to a wide range of applications while an innovative range of hardware and software tools ensure easy machine operability. The INSPECT software module makes part program execution and data analysis easy for operators at every skill level, offering a simple graphical interface with a clear overview of the results.

With accessories including the PULSE environmental monitoring system, messaging lights for visual machine status indication, and Q-DAS statistical process control (SPC) software for enhanced process monitoring, TIGO SF helps manufacturers embrace Industry 4.0 principles.

# Expertly designed for operability

The TIGO SF CMM was developed by experts to provide an extremely robust measurement solution that is simple to use, highly flexible and cost effective.

## Open measurement volume

The TIGO SF's 500 x 580 x 500 mm measurement volume is open on three sides for easy accessibility and integrability.

## Protective bellows and covers

Bellows and covers fully protect the machine structure from dust and airborne contaminants.

## 15 °C to 30 °C temperature range

Optimised for precision measurement in a temperature range of 15 °C to 30 °C, TIGO SF can operate in production areas without air conditioning.

## Passive dampeners

Built-in passive dampeners insulate TIGO SF against effects of vibration in ranges common to industrial areas.

## Granite measuring table

A wide granite table with a tight net of fixture holes makes part placement simple and efficient.

## Linear guideways for air-free operation

As an air-free machine, TIGO SF offers a low total cost of ownership, and has intrinsic robustness in harsh environments.

## All-in-one design

The compact cantilever-type TIGO SF CMM houses the PC and controller within the machine stand so the system requires minimum floor space and is easy to relocate.

## Ergonomic workstation and jogbox

The monitor and keyboard are conveniently located on an adjustable mount for ease of use, while the user-friendly jogbox is light and comfortable to hold.

## Probing and scanning sensors

High-speed scanning or touch-trigger probing techniques are both available to maximise flexibility and application potential.

## Fly2 Mode

The Fly2 Mode trajectory optimisation function keeps part program execution time to a minimum.

## Eco Mode

Eco Mode automatically powers down the machine to save energy and money while also contributing to environmental sustainability.