



620 mm

height

172 mm

diameter

13 Kg

Portable Precision

THE NEXT DIMENSION

A revolutionary solution to a complicated problem

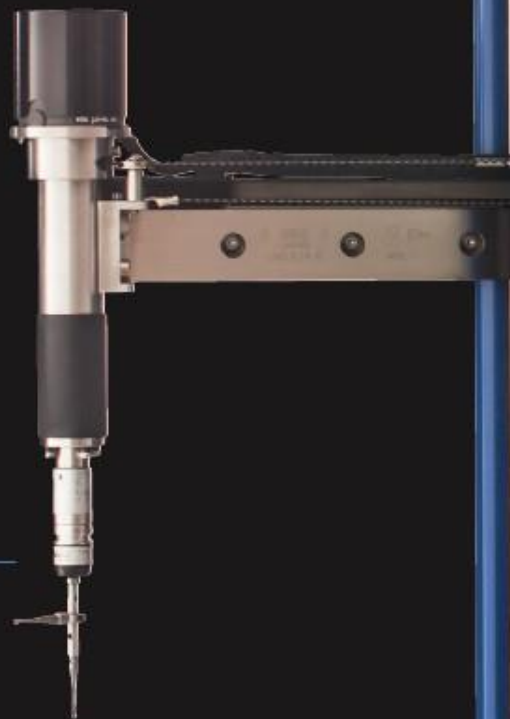
Utilizing advanced technology, software, design and electronics, the zCAT is manufactured as a compact self-contained unit that is fundamentally different than existing CMM technology, design and operation. From initial equipment acquisition through set-up, training and maintenance, the zCAT offers significant cost reductions without compromising measuring accuracy or performance.

Easy-to-Use

The zCAT is the easiest DCC CMM to use. Built with the intention of lowering the threshold of training needed to successfully operate and even program a DCC CMM, every component, from the mechanics to the software, has been examined for optimal user experience and ease of use.

Probe System

The zCAT ensures accuracy with an industry-standard probe system. Find comfort in knowing that easy-to-acquire, accurate results are measured by this reliable touch-trigger probe system. Whatever your measurement task, this probe system allows for the optimal stylus arrangement for accuracy.



zCAT the world's first truly portable DCC Coordinate Measuring Machine

Software

The zCAT comes with ControlCAT - built-in, easy-to-use, geometric measurement software controlled through an intuitive, icon-based touchscreen interface. Take advantage of the direct computer controlled measurements without the need for a secondary computer. From shop technicians to dedicated CMM operators, anyone can feel comfortable operating the zCAT.

Programming

Automate measuring processes, and gain accurate data time after time. The unique zCAT clutch seamlessly shifts from direct computer to manual control without the need for flipping switches or clicking buttons. Simply, move the probe manually, and the computer will remember and reproduce the movements for accurate, repeatable measurements.

Designed and Manufactured in the U.S.A.

We manufacture the zCAT in the United States. From California to Massachusetts, we're taking advantage of American ingenuity, drive, and passion to create a high quality product that will help advance the capabilities of those who use it.

Portability

The zCAT is the world's first portable direct computer control coordinate measuring machine (DCC CMM). At only 30 pounds, the zCAT conveniently goes with you wherever you need it. No longer are you required to take the part to the CMM; from a surface plate, to a table on the shop floor or on a large part itself, the zCat can be deployed directly in the manufacturing process.

Power

Being tethered to an outlet is a thing of the past. The zCAT is powered by a built-in 10.8 volt lithium ion battery, providing enough power to gain precise, accurate measurements for four hours in the field. The zCAT is truly wireless. A power supply charger is included for quick recharges between or during use.



System Components

zCat – 54-950-001-0

- zCat CMM — 4 Axes
- ControlCAT metrology software
- Renishaw TP20 probe
- Battery
- Ethernet communication (WiFi optional)
- I++ Software interface
- zCat Wedge Excel export software
- Training part and calibration sphere
- Quick start guide
- Reusable shipping container
- Standard 1 year warranty

Software

ControlCAT Metrology Software

- Easy to use geometric measurement tool
- Measures manually or DCC. Creates constructions for most common geometrics including:

Plane	Line	Point	Sphere	Angle	PCD
Circle	Slot	Cone	Reference	Cylinder	Cloud
- Reports actual and nominal information to Excel spreadsheet
- Program remembers geometry and plays back for repetitive part measurements

I++ Server Software

Optional MK4 zCat Software gives zCat advanced 3D capabilities including:

- Automatic measurement routines
- Powerful interactive graphics window
- 2D and 3D inspection
- DXF data import
- Feature construction
- GD&T dimensions and tolerances
- Teach & learn programming
- Engineering drawing GD&T report
- Simple PASS/FAIL report
- Real-time SPC
- Export to DXF
- And much more!

zCat Specifications

Working volume	X and Y 700mm diameter, Z 250mm
Diametral Accuracy (μm)	$3.0 + (D / 100\text{mm})$
Linear Accuracy (μm)	$5.0 + (L / 100\text{mm})$
Fixturing accuracy requirement	5mm
Machine speed	User controlled to 150 mmps
Machine air requirement	None required
Construction	Stainless steel for all structural components
Machine power requirements	100-240 V AC \pm 10%, 50-60Hz
Battery life	4 hours with normal use, 3 hours at peak
Power consumption	Peak 15 W, normal 10 W
Manual motion control	User controlled by hand movement of probe
Controller	Onboard PCB provides motion control, error mapping, I++ interface and ControlCAT metrology software
Temperature compensation	Onboard monitoring and compensation
Probe Type	Renishaw TP20 probe
Machine weight	13.6kg, 30lbs
Machine dimensions (W x D x H)	420mm x 172mm x 620mm

Prices & specifications subject to change without notice.



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