



# ENSPEC

The Hexagon Bridge CMM within reach  
for growing manufacturers



**Built to qualify.  
Built to grow.**

### **All-carbide aluminium mechanical frame**

The frame is extremely rigid and thermally stable, enabling the system to be used in various environmental conditions while getting best results for general-purpose measurements.

### **Pneumatic balancing technology**

The flexible balancing system avoids problems between the axial movement and transmission system. It also has high positioning accuracy and enabling smooth operation.

### **Highly precise linear encoders**

High-resolution encoders ensure excellent measurement stability, repeatable positioning and precise measurement accuracy. This guarantees stable and reliable operation with minimal interruption and wear.

### **Precise triangular traverse**

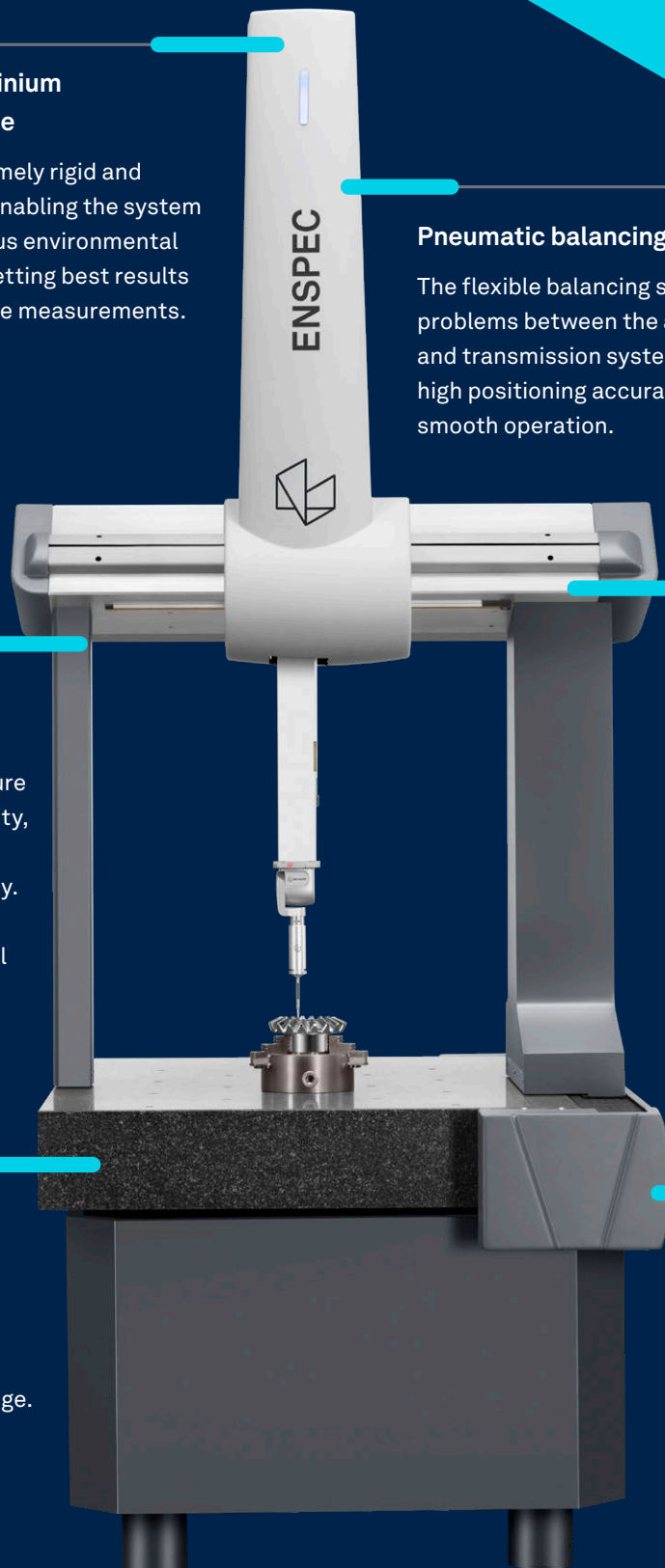
Advanced design enhances the rigidity-to-mass ratio of the entire machine, improving measurement accuracy and operational stability.

### **Use of high-quality granite**

The material is precise, stable and highly precise and is therefore reducing vibration and providing support for the movement of the movable bridge.

### **Dovetail guide rail**

The closed guide rail is integrated into the machine's granite, with high movement accuracy and stability.



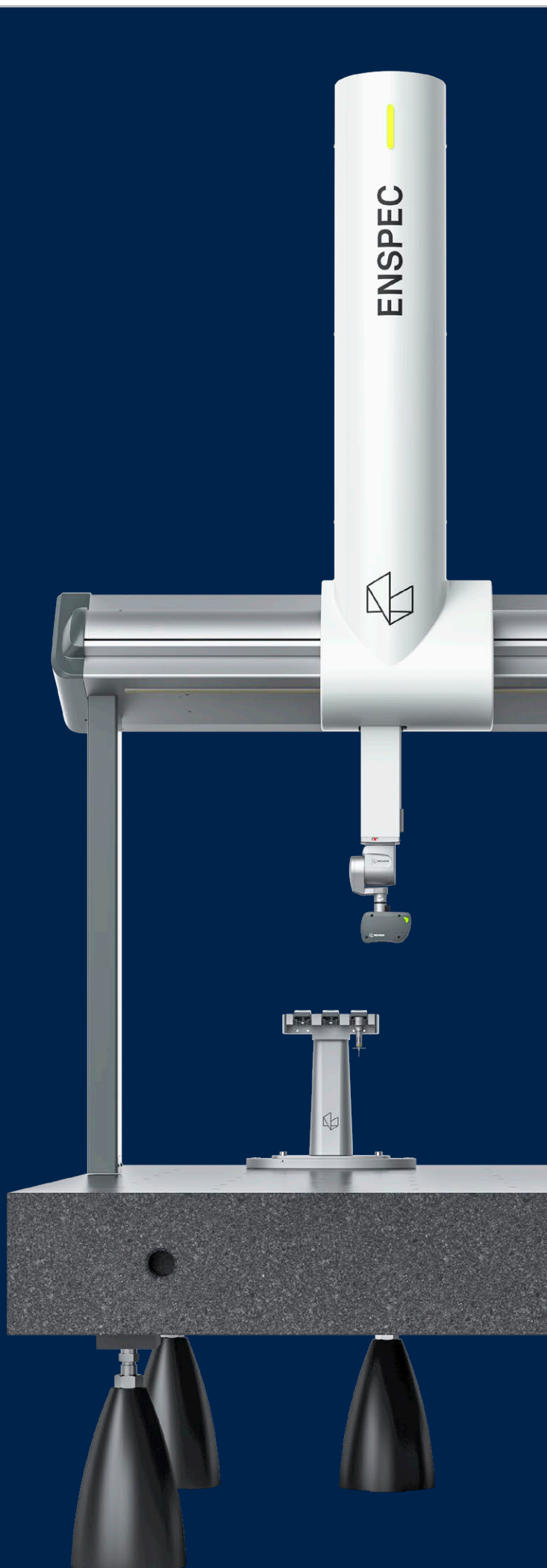


# Hexagon quality was out of reach. Now it isn't.

For years, professional CMM measurement has felt reserved for bigger manufacturers — engineered for enterprise-scale production lines, running software most growing teams never got the chance to learn.

ENSPEC changes that. It's Hexagon's value-driven bridge CMM: the same granite base, air bearings and TRICISION frame design used across our flagship systems, delivering the extremely fast measuring performance and running PC-DMIS, the metrology software the industry already knows, backed by genuine Hexagon service and calibration support.

Three sensor pre-configurations. Eight measuring volumes. One straightforward way to start measuring properly.



# The gap is expensive to leave open

Without in-house measurement, the cost shows up elsewhere: inspection sent out and paid for every time, longer turnaround on every job, and OEM contracts that ask for proof of in-house quality control you can't yet provide.

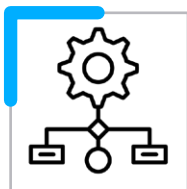
- Every outsourced inspection is a cost that repeats — and a delay that compounds.
- A new machine is only useful once it's running — not six weeks and three service visits later.
- Skills tied to one manufacturer's machines stay tied to them. Skills built on software the whole industry runs travel with your team, whatever they work on next.

# Everything a Hexagon CMM should be

## Hexagon Engineering; right-sized for you

Same engineering, same software, the same service standard our largest customers rely on — delivered at a scale that matches where your business is today.

Three things make that possible: Software your team can build a career on, service that doesn't disappear after delivery, and a machine sized to match your business now — with room to grow into more.



### ECOSYSTEM

#### **Learn once Measure always**

PC-DMIS from day one — skills and programs scale with your business.



### RELIABLE

#### **Hexagon behind every measurement**

Genuine Hexagon service, calibration, support and sensor technology, for as long as you own the machine.



### ACCESSIBLE

#### **A Hexagon CMM, within reach**

Hexagon-grade performance, right-sized for where your business is today — and ready for where it's going next.

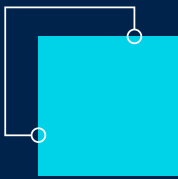
# Built for speed, backed by Hexagon precision

ENSPEC's speed isn't one headline number — it's a combination of raw hardware performance and smart, standard technology that keeps every measurement moving.

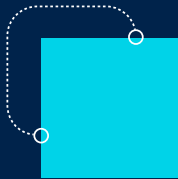
- Fly2 Mode, continuously optimises the machine's motion, path and idle time during measurement — shortening part-program execution and cutting probe calibration time by up to 10%, with nothing extra to configure.
- DCC Scanning delivers faster, more comprehensive inspections by automatically capturing large amounts of measurement data in a single continuous motion

Together, that means ENSPEC measures faster and more consistently, without asking more of your team — and without giving up accuracy: the same specification holds on both fixed and articulated probe heads.

fly2 MODE 



without fly2 Mode



with fly2 Mode

Fly2 Mode: smoother, shorter paths between measurement points — standard on every ENSPEC.

**520 mm/s**

Maximum 3D velocity

**1,740 mm/s<sup>2</sup>**

3D acceleration

# Wherever your business is ready to grow

ENSPEC fits anywhere dimensional inspection has been out of reach until now — bringing measurement in-house, qualifying for new customer contracts, or simply replacing a process that has outgrown hand tools.

Every ENSPEC starts with the configuration that matches your parts today — Touch, Scan, or Speed — and moves with you from there. Add a sensor, add software capability, or step up to GLOBAL S or MAESTRO: your programs, training and routines carry forward at every stage.



## **Touch**

HP-TMe touch-trigger probe. Precise, point-by-point inspection for everyday tolerance checks.



## **Scan**

HP-S-X1S scanning probe. Continuous tactile scanning for form and surface data.



## **Speed**

HP-L-10.10 LITE laser scanner. High-speed, non-contact scanning for full-surface capture.

# Real bridge CMM engineering

## Scaled to where you are

### ENSPEC is built on Hexagon's proven bridge CMM architecture — not a scaled-down imitation of it

TRICISION® triangular beam bridge design — a structurally robust triangular shape that gives higher accuracy, long-term stability and improved dynamic performance, with a smaller footprint than a conventional bridge design.

- One-piece granite stage and a surface-hardened, full-carbide-aluminium frame — the same combination used across Hexagon's CMM range, chosen for its rigidity, thermal stability and resistance to vibration.
- High-resolution linear encoder scales and an integral dovetail guideway on three sides — precision components engineered for repeatability, so measurements stay reliable year after year, not just out of the box.
- Eight measuring volumes to match your parts, from 600 × 800 × 600 mm up to the largest 1200 × 3000 × 1000 mm ENSPEC configuration.



#### 06.YY.06

X: 600 mm

Y: 800 mm | 1000 mm

Z: 600 mm



#### 10.YY.08

X: 1000 mm

Y: 1200 mm | 1500 mm | 2100 mm

Z: 800 mm



#### 12.YY.10

X: 1200 mm

Y: 1500 mm | 2200 mm | 3000 mm

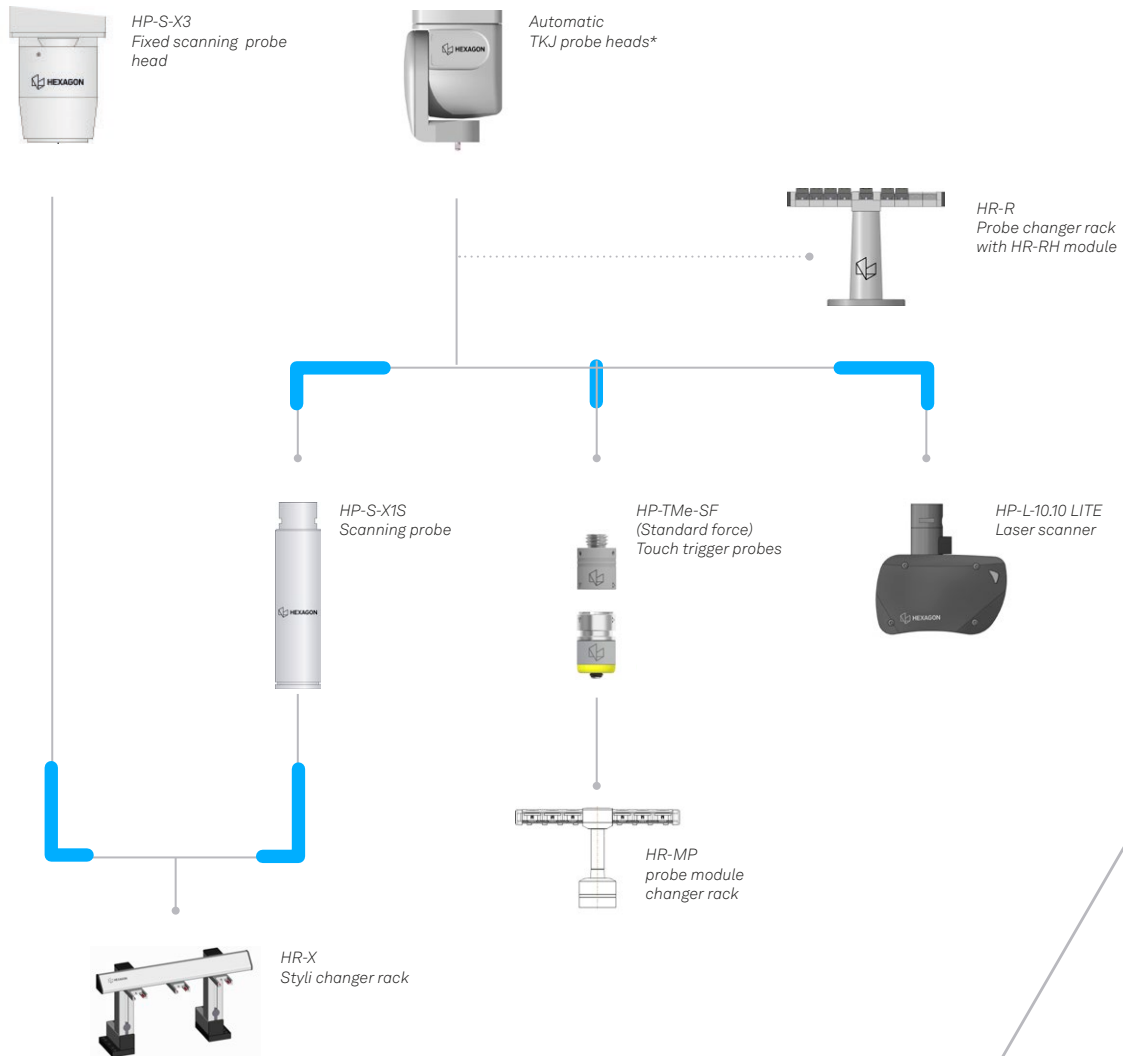
Z: 1000 mm

| Configuration             | Measuring Volume Range (mm)      | Software                                            | Notes                       |
|---------------------------|----------------------------------|-----------------------------------------------------|-----------------------------|
| Touch (HP-TMe)            | 06.YY.06<br>10.YY.08<br>12.YY.10 | PC-DMIS PRO<br>PC-DMIS CAD/CAD<br>PC-DMIS CAD/CAD++ | Point-to-point inspection   |
| Scan (HP-S-X1S   HP-S-X3) | 06.YY.06<br>10.YY.08<br>12.YY.10 | PC-DMIS CAD/CAD<br>PC-DMIS CAD/CAD++                | Continuous tactile scanning |
| Speed (HP-L-10.10 LITE)   | 06.YY.06<br>10.YY.08<br>12.YY.10 | PC-DMIS CAD/CAD<br>PC-DMIS CAD/CAD++                | Non-contact laser scanning  |



# Start where you need to

Upgrade when you're ready



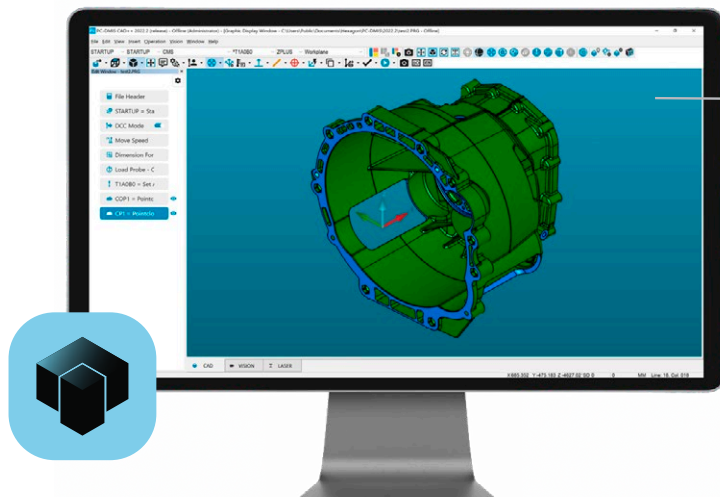
To ensure compatibility with the system, please check individual machine configuration or data sheet.

# Leading metrology software

ENSPEC runs PC-DMIS — Hexagon’s universal metrology software, and the same platform behind all other CMM ranges. If your team has used PC-DMIS before, they’re productive on day one.

## PC-DMIS CAD++

Full CAD-based programming for high-speed scanning, sheet-metal measurement and part alignment — available on ENSPEC’s Scan and Speed configurations.



## Software that grows with your business

If you move up to GLOBAL S or MAESTRO, your programs, routines and training move with you — nothing you learn on ENSPEC is wasted.

## PC-DMIS -The software your team already knows

### Fully integrated with Hexagon hardware

Seamless performance between software and Hexagon’s extensive range of CMMs.

### Ease of use and user-friendly interfaces

Intuitive UIs, and customisable workflows streamline operation for both new and experienced users.

### Comprehensive tools for any application

Handle a wide range of inspection tasks - from dimensional measurements to internal structural analysis.

### Data-driven insights for smarter manufacturing

Collect, analyse, and visualise data in real-time for faster decision making.

# Service, Monitoring & Efficiency

## Full Hexagon service. No exceptions.

### Local teams delivering world-class support and service

Hexagon guarantees comprehensive after-sales support and services across the globe. Our international presence means you can rely on locally delivered solutions, with one of the largest dedicated service team of any metrology equipment manufacturer.



### MyCare

MyCare is Hexagon's service subscription offering that keeps your metrology system performing at its best. Simplify equipment maintenance and keep it performing to the highest standards with cost-effective support throughout its lifetime.

## Greener metrology

### Save air, save energy

Sustainability is a powerful efficiency driver. Lowering energy consumption can significantly reduce operating costs and improve ROI. That's why we're focused on delivering solutions that help you achieve your global sustainability goals, including Eco Mode and Eco Mode+.



## Smart condition monitoring for measuring machines

### APOLLO

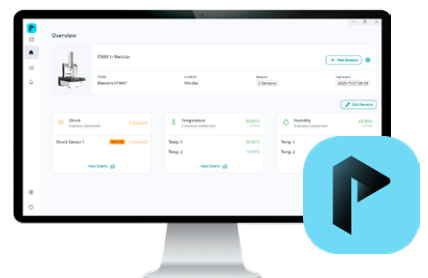
APOLLO provides real-time, centralised visibility of the status and utilisation of your measuring machines. It reads built-in machine and sensor data such as temperatures, operating states and collisions to help detect critical deviations early, keep machines within specification, and ensure reliable measurement quality. By linking measurement results with machine and sensor conditions, APOLLO enables full traceability for every measurement and can provide structured data to third-party software.



### PULSE

PULSE extends condition monitoring on individual CMMs with retrofittable sensors for temperature, humidity, vibration and collisions. It helps reduce the risk of unnoticed events affecting measurement quality.

Connected with APOLLO, PULSE sensor data can be integrated into a central overview across multiple machines.



Hexagon is the global leader in measurement technologies. Our precision measurement, positioning, and autonomous solutions transform the world's most vital industries. From aerospace & defence, automotive, construction, general manufacturing, to mining and more, we provide the confidence that customers rely on to build, navigate, and innovate.

Learn more about Hexagon (Nasdaq Stockholm: HEXA B) at [hexagon.com](https://www.hexagon.com) and follow us @HexagonAB.

