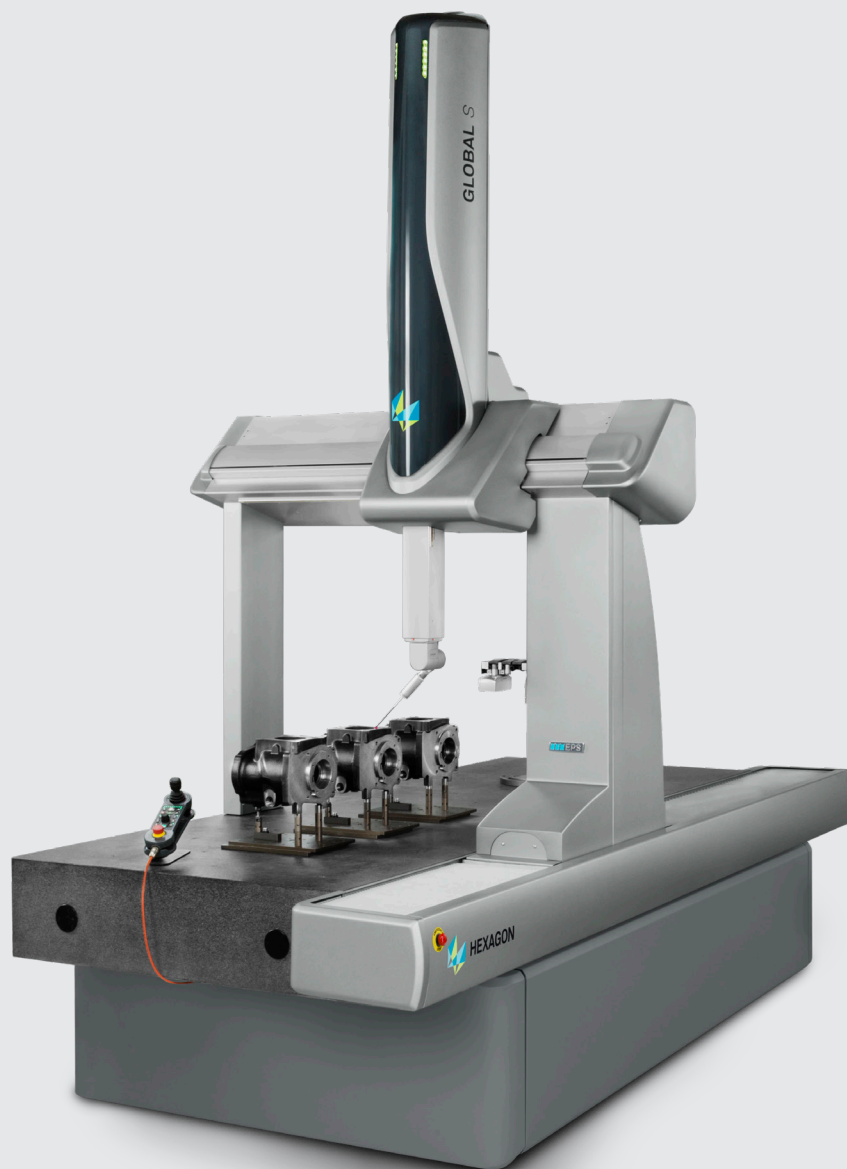


GLOBAL S





GLOBAL S



HEXAGON

WTEPS



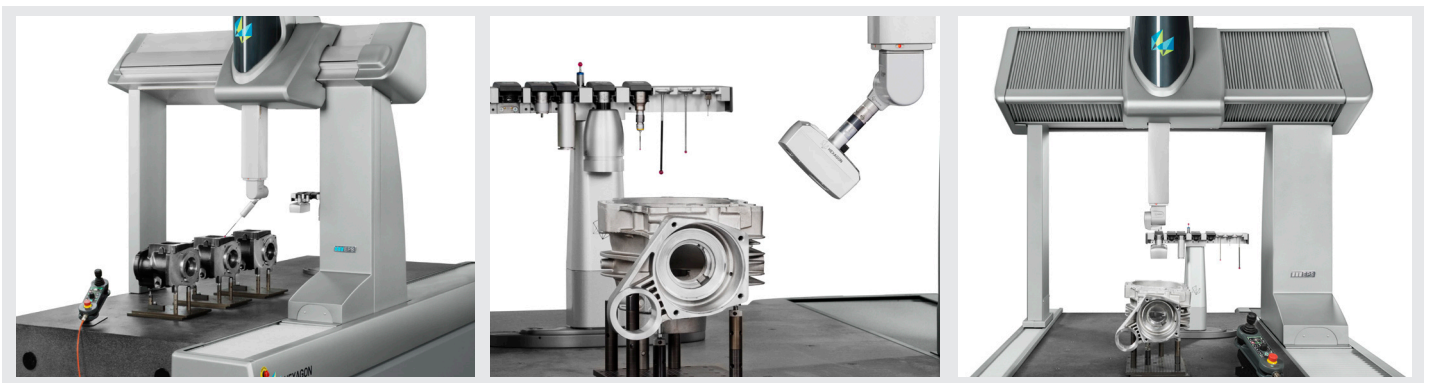
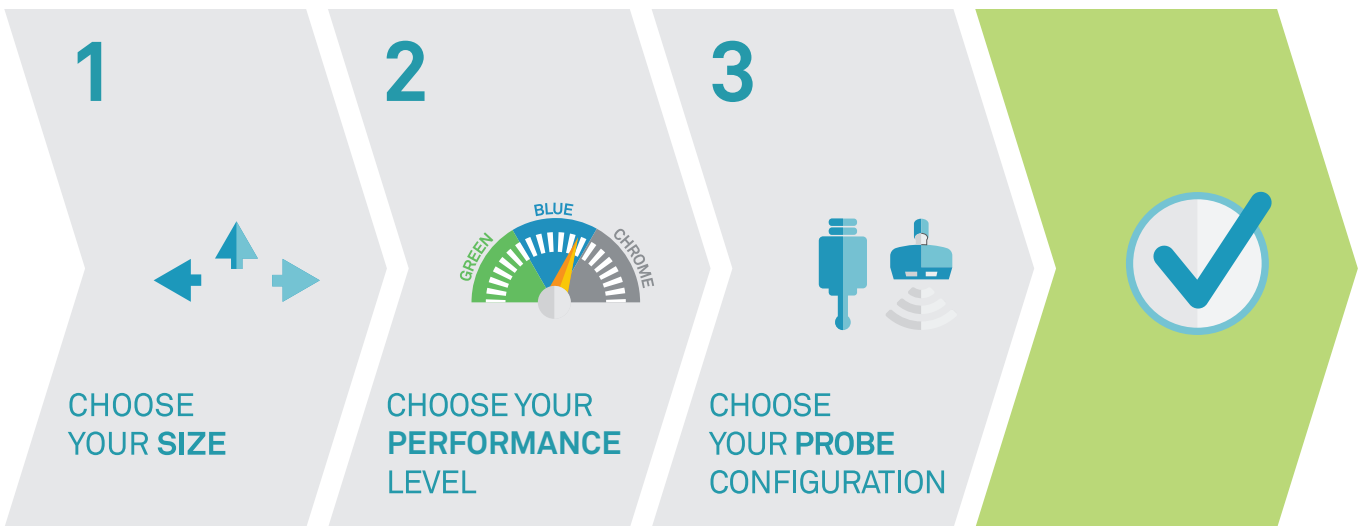
GLOBAL S

The Coordinate Measuring Machine that Pushes Productivity Further

The GLOBAL S coordinate measuring machine (CMM) series from Hexagon Manufacturing Intelligence combines smart technologies delivering superior measurement performance and enhanced productivity for the unique needs of any production environment. Designed by Pininfarina and powered by Hexagon's Enhanced Productivity Series (EPS) concept, GLOBAL S brings together enhanced technologies to form an optimal measurement solution

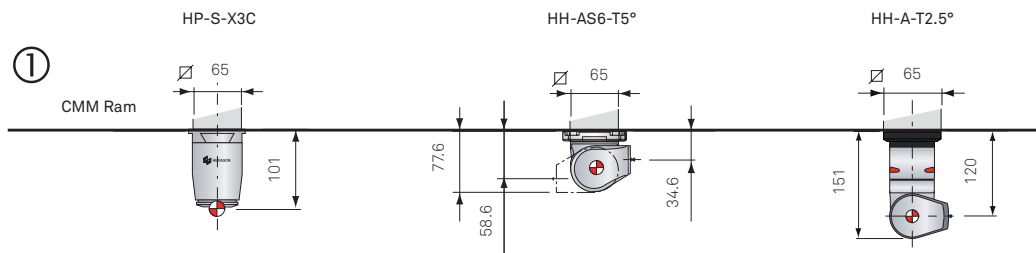
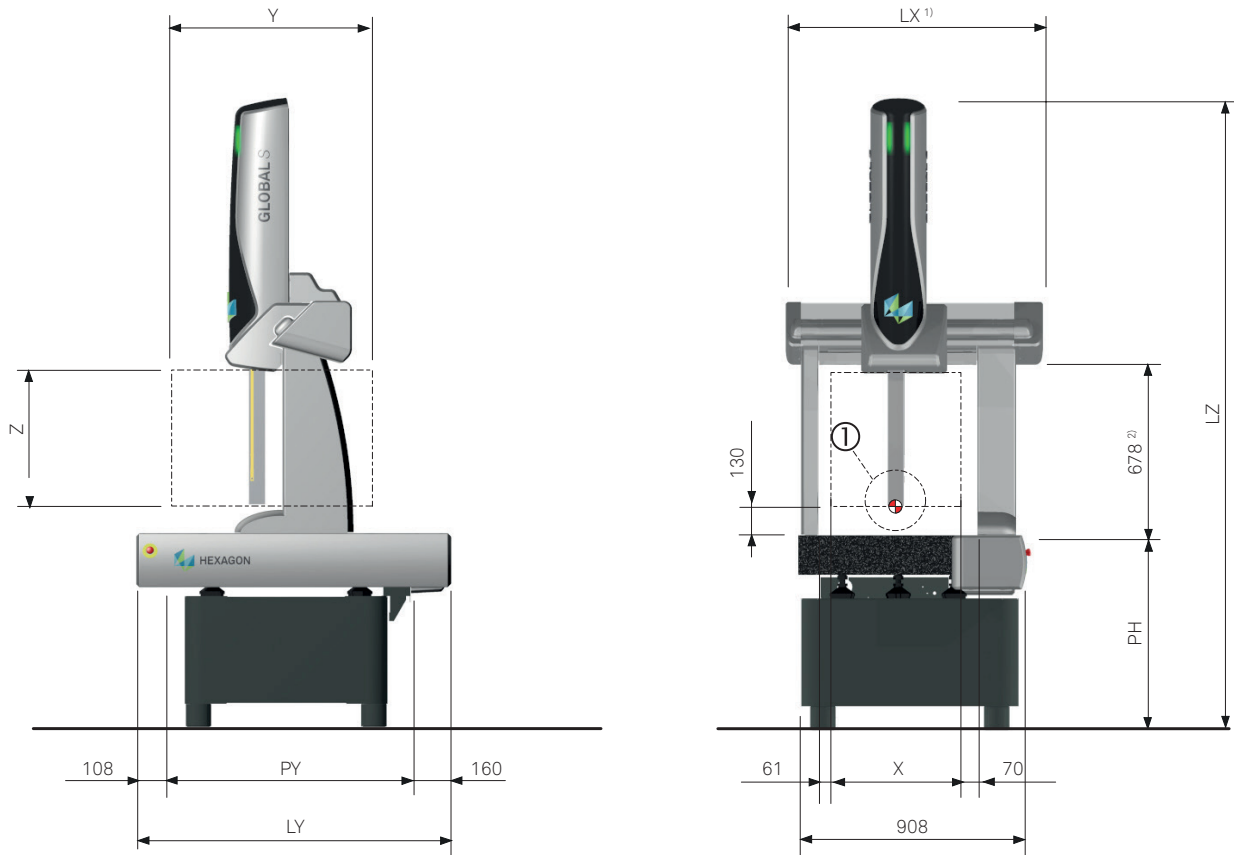
with three performance levels: Green, Blue and Chrome, to suit the requirements of any application. EPS machines offer customers the option to select their main productivity driver and configure the CMM for throughput, precision, flexibility or shop floor capability. The CMM range also supports fully-customised setups to ensure that GLOBAL S is universally applicable and drives continuous productivity improvements.

GLOBAL S- HOW TO CHOOSE THE RIGHT SYSTEM





GLOBAL S 05.YY.05: OVERALL DIMENSIONS



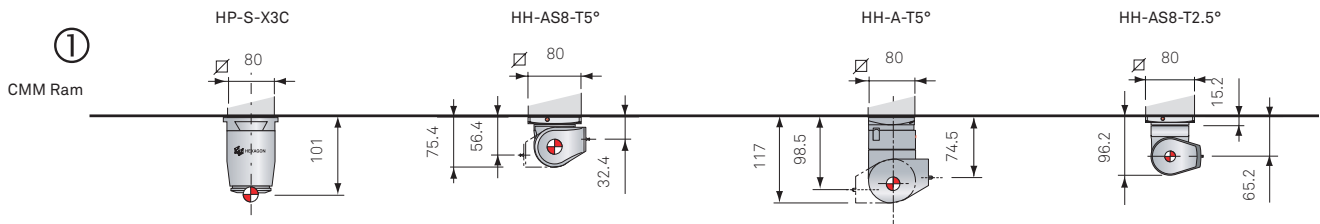
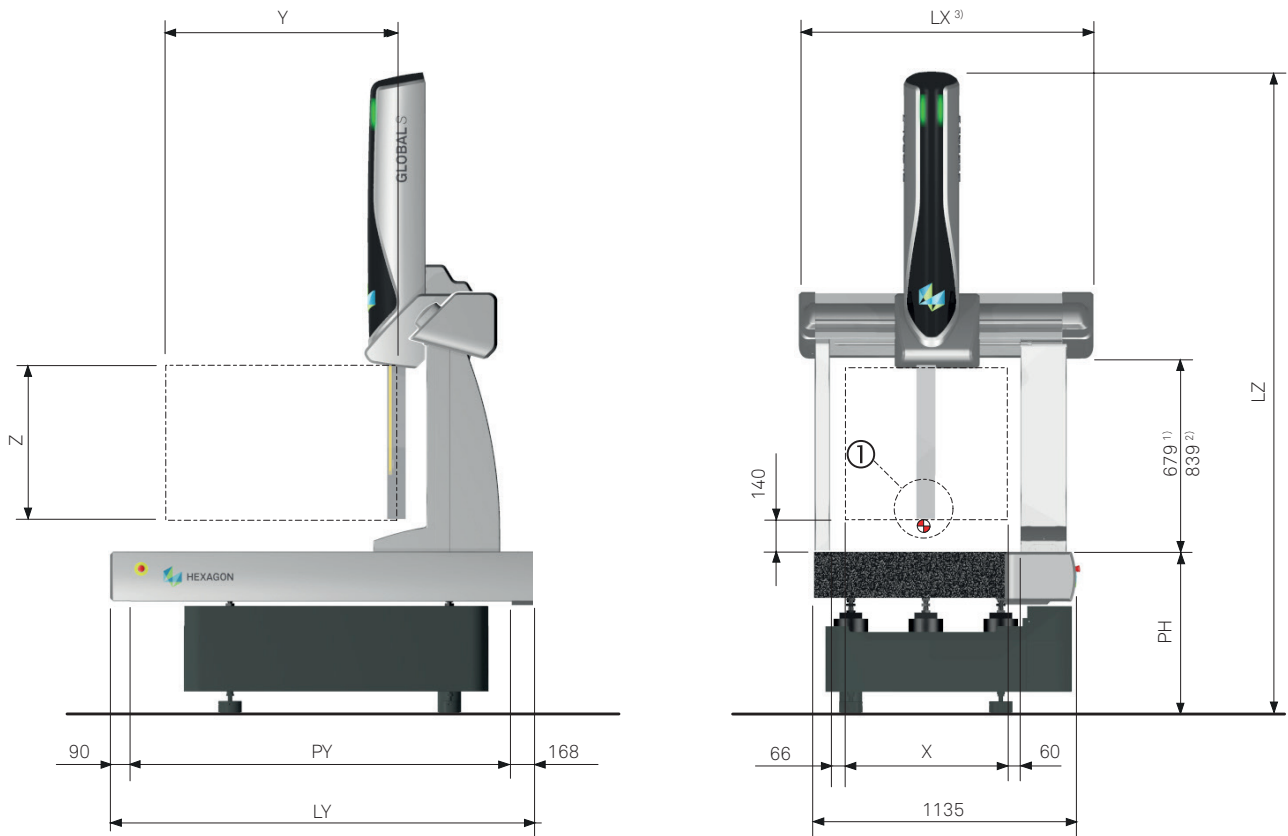
| Models | Measuring Range (mm) | | | Overall Dimensions (mm) | | | Surface Plate (mm) | | Max. Part Weight (kg) | CMM Weight approx. (kg) |
|----------|----------------------|-----|-----|-------------------------|------|------|--------------------|------|-----------------------|-------------------------|
| | X | Y | Z | LX ¹⁾ | LY | LZ | PH | PY | | |
| 05.05.05 | 500 | 500 | 500 | 1024 | 1255 | 2540 | 800 | 990 | 230 | 510 |
| 05.07.05 | 500 | 700 | 500 | 1024 | 1455 | 2540 | 800 | 1190 | 230 | 625 |

¹⁾ With Shop Floor bellows: LX + 21 mm

²⁾ With Shop Floor bellows: 649 mm



GLOBAL S 07.YY.05 AND 07.10.07: OVERALL DIMENSIONS

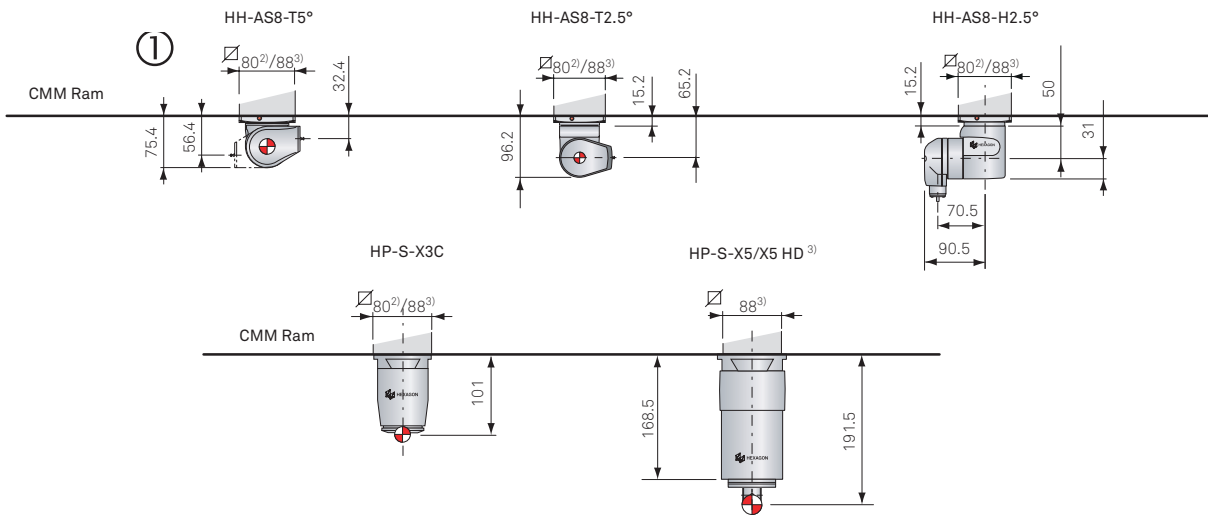
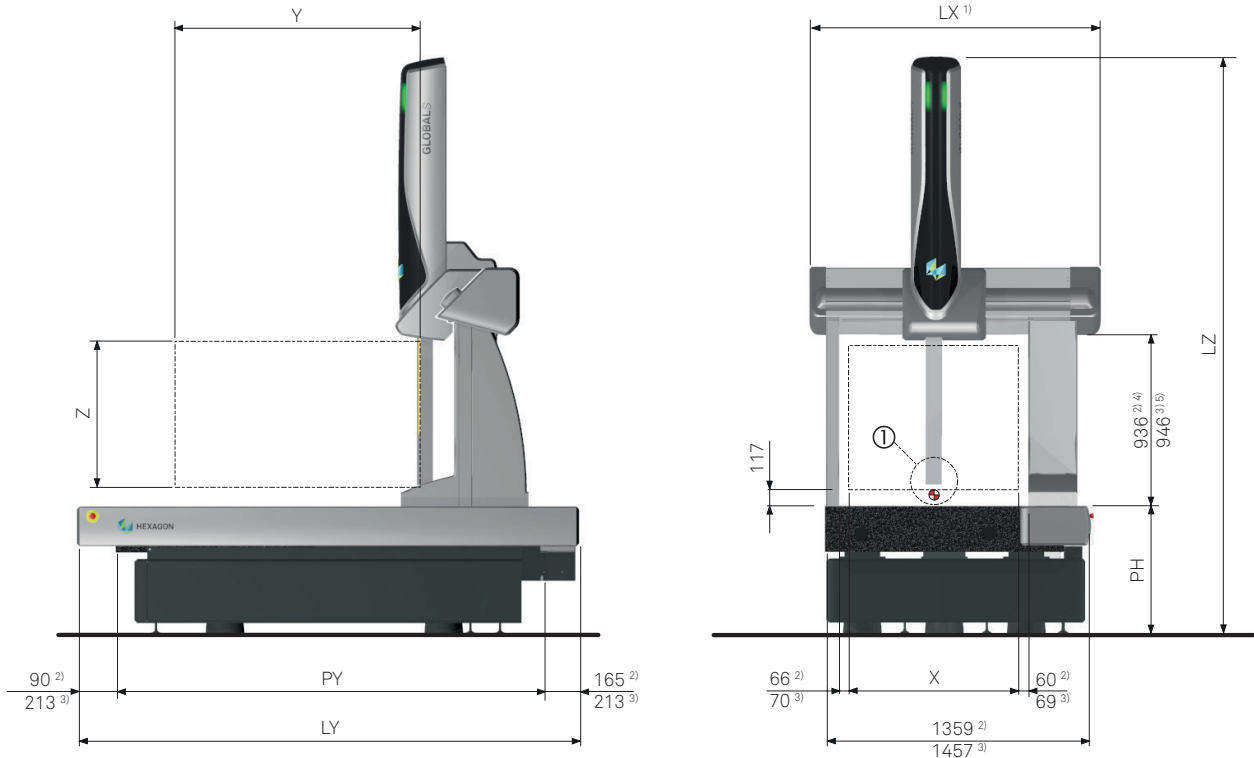


| Models | Measuring Range (mm) | | | Overall Dimensions (mm) | | | Surface Plate (mm) | | Max. Part Weight (kg) | CMM Weight approx. (kg) |
|----------|----------------------|------|-----|-------------------------|------|------|--------------------|------|-----------------------|-------------------------|
| | X | Y | Z | LX ³⁾ | LY | LZ | PH | PY | | |
| 07.07.05 | 700 | 700 | 500 | 1277 | 1608 | 2438 | 680 | 1350 | 900 | 960 |
| 07.10.05 | 700 | 1000 | 500 | 1277 | 1908 | 2458 | 700 | 1650 | 900 | 1245 |
| 07.10.07 | 700 | 1000 | 660 | 1277 | 1908 | 2777 | 700 | 1650 | 900 | 1265 |

¹⁾ GLOBAL S 07.YY.05 - With Shop Floor bellows: 639 mm

²⁾ GLOBAL S 07.YY.07 - With Shop Floor bellows: 796 mm

³⁾ With Shop Floor packages: LX + 12 mm



| Models | Measuring Range (mm) | | | Overall Dimensions (mm) | | | Surface Plate (mm) | | Max. Part Weight (kg) | CMM Weight approx. (kg) |
|----------|----------------------|------|-----------------|-------------------------|--------------------|--------------------|--------------------|--------------------|-----------------------|-------------------------|
| | X | Y | Z ⁶⁾ | LX ¹⁾ | LY | LZ | PH | PY | | |
| 09.12.08 | 900 | 1200 | 800 | 1477 ²⁾ | 2165 ²⁾ | 3027 ²⁾ | 700 | 1910 ²⁾ | 1300 | 1700 ²⁾ |
| | | | | 1598 ³⁾ | 2455 ³⁾ | 3150 ³⁾ | | 2030 ³⁾ | | 2350 ³⁾ |
| 09.15.08 | 900 | 1500 | 800 | 1477 ²⁾ | 2465 ²⁾ | 3027 ²⁾ | 700 | 2210 ²⁾ | 1500 | 1900 ²⁾ |
| | | | | 1598 ³⁾ | 2755 ³⁾ | 3150 ³⁾ | | 2330 ³⁾ | | 2650 ³⁾ |
| 09.20.08 | 900 | 2000 | 800 | 1477 ²⁾ | 2965 ²⁾ | 3027 ²⁾ | 700 ²⁾ | 2710 ²⁾ | 1800 | 2300 ²⁾ |
| | | | | 1598 ³⁾ | 3255 ³⁾ | 3175 ³⁾ | 725 ³⁾ | 2830 ³⁾ | | 3350 ³⁾ |

¹⁾ With Shop Floor bellows: LX + 16 mm

²⁾ GLOBAL S Green

³⁾ GLOBAL S Blue and Chrome

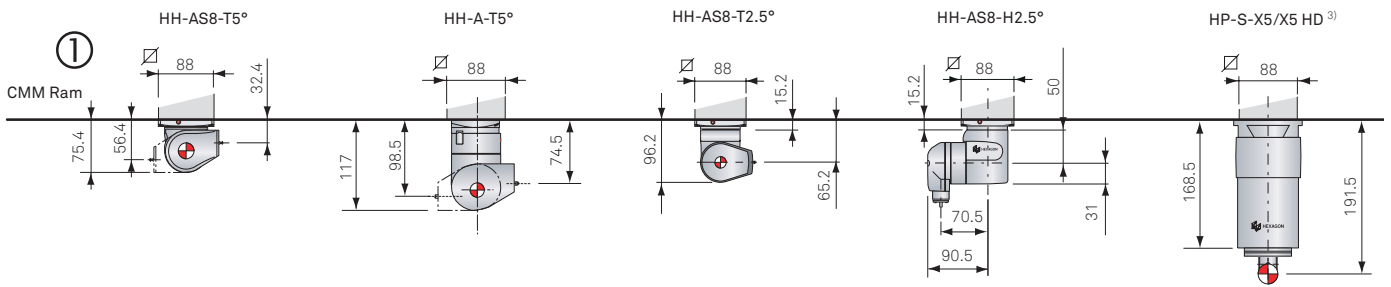
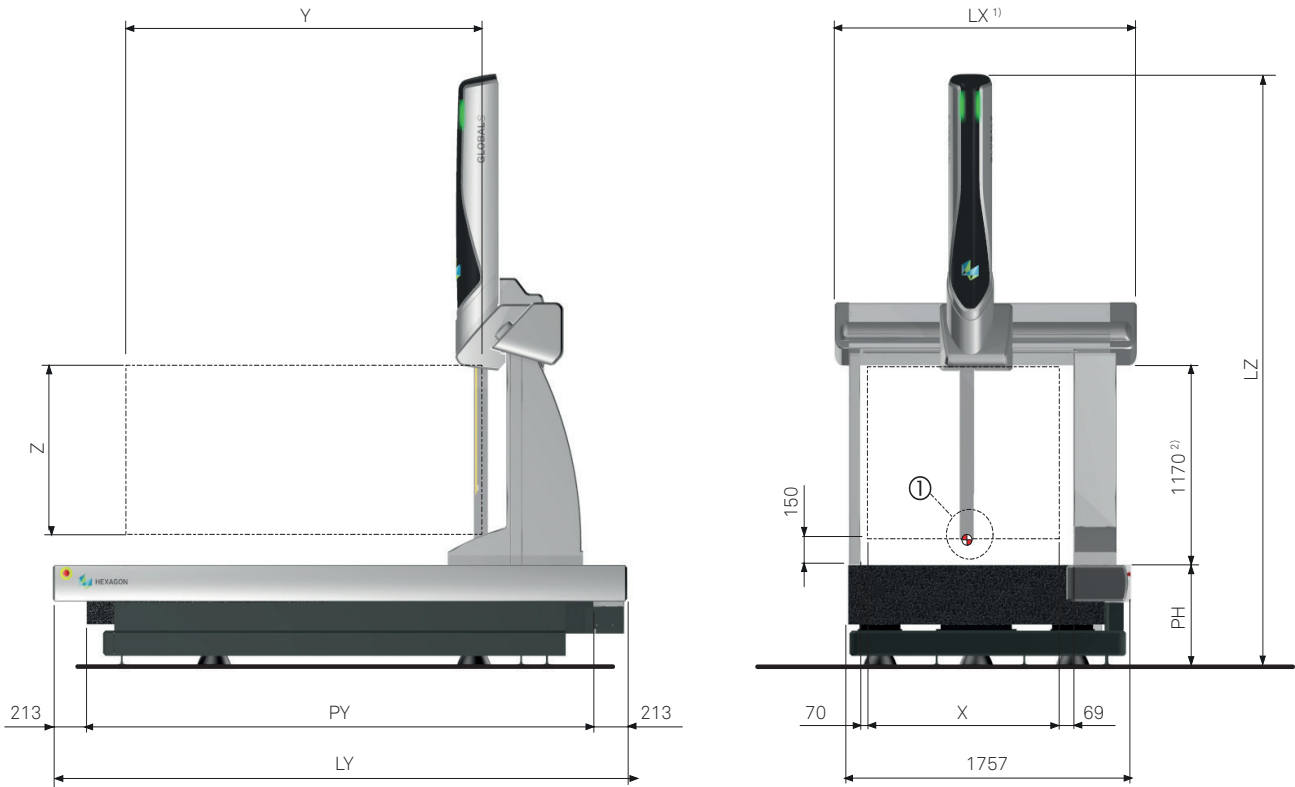
⁴⁾ With Shop Floor bellows: 906 mm

⁵⁾ With Shop Floor bellows: 922 mm

⁶⁾ With HP-S-X5/H5HD probe head, Z travel = 730 mm



GLOBAL S 12.YY.10: OVERALL DIMENSIONS



| Models | Measuring Range (mm) | | | Overall Dimensions (mm) | | | Surface Plate (mm) | | Max. Part Weight (kg) | CMM Weight approx. (kg) |
|----------|----------------------|------|-----------------|-------------------------|------|------|--------------------|------|-----------------------|-------------------------|
| | X | Y | Z ⁴⁾ | LX ¹⁾ | LY | LZ | PH | PY | | |
| 12.15.10 | 1200 | 1500 | 1000 | 1898 | 2905 | 3513 | 625 | 2480 | 1800 | 3850 |
| 12.22.10 | 1200 | 2200 | 1000 | 1898 | 3605 | 3488 | 600 | 3180 | 2250 | 5750 |
| 12.30.10 | 1200 | 3000 | 1000 | 1898 | 4405 | 3513 | 625 | 3980 | 2250 | 7650 |

¹⁾ With Shop Floor bellows: LX + 17 mm

²⁾ With Shop Floor bellows: 1162 mm

³⁾ GLOBAL S Blue and Chrome

⁴⁾ With HP-S-X5/X5HD probe head, Z travel = 970 mm



| Scanning probe heads HP-S-X5/X3 Articulating head with HP-S-X1 scanning probe | 05.YY.05 | 07.YY.05 | 07.YY.07 | 09.YY.08 | 12.YY.10 |
|--|-------------|-------------|-------------|-------------|-------------|
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.4 + L/333 | 1.3 + L/333 | 1.3 + L/333 | 1.3 + L/333 | 2.0 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 1.6 + L/222 | 1.5 + L/250 | 1.5 + L/250 | 1.6 + L/250 | 2.4 + L/200 |
| MPL(R0) | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 |
| MPE(PFTU) | 1.4 | 1.4 | 1.4 | 1.3 | 1.7 |
| MPE(THP)/MPT(τ) - High accuracy ²⁾ | 2.1/30 | 2.0/30 | 2.0/30 | 2.0/35 | 2.5/35 |
| MPE(THP)/MPT(τ) - High throughput ²⁾ | 2.1/30 | 2.0/30 | 2.0/30 | 2.3/25 | 3.5/25 |
| MPE(THN)/MPT(τ) - Non-predefined path ²⁾ | 2.1/50 | 2.0/50 | 2.0/50 | 2.0/50 | 2.0/50 |
| RONt (MZCI) ³⁾ | 1.4 | 1.4 | 1.4 | 1.4 | 1.7 |
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.4 + L/333 | 1.4 + L/333 | 1.4 + L/333 | 1.4 + L/333 | 2.1 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 1.6 + L/222 | 1.6 + L/250 | 1.6 + L/250 | 1.7 + L/250 | 2.5 + L/200 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) ⁴⁾ | – | 1.4 + L/294 | 1.4 + L/294 | 1.4 + L/285 | 2.1 + L/277 |
| MPE(E0/E150) ¹⁾ - (15 °C - 30 °C) ⁴⁾ | – | 1.4 + L/263 | 1.4 + L/263 | 1.4 + L/256 | 2.1 + L/250 |
| MPL(R0) | 1.2 | 1.2 | 1.2 | 1.2 | 1.7 |
| MPE(PFTU) | 1.4 | 1.4 | 1.4 | 1.4 | 1.8 |
| MPE(THP)/MPT(τ) ²⁾ | 2.5/45 | 2.5/45 | 2.5/45 | 2.5/45 | 3.1/45 |
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.5 + L/333 | 1.5 + L/333 | 1.5 + L/333 | 1.8 + L/333 | 2.4 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 1.7 + L/222 | 1.7 + L/250 | 1.7 + L/250 | 2.1 + L/250 | 2.8 + L/200 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) ⁴⁾ | – | 1.5 + L/294 | 1.5 + L/294 | – | – |
| MPE(E0/E150) ¹⁾ - (15 °C - 30 °C) ⁴⁾ | – | 1.5 + L/263 | 1.5 + L/263 | – | – |
| MPL(R0) | 1.4 | 1.4 | 1.4 | 1.7 | 1.9 |
| MPE(PFTU) | 1.6 | 1.6 | 1.6 | 1.8 | 2.4 |
| MPE(THP)/MPT(τ) ²⁾ | 2.9/45 | 2.9/45 | 2.9/45 | 2.9/45 | 4.0/45 |

Max. Permissible Error MPE (µm) and Max. Permissible Limit MPL (µm) according to ISO 10360-2:2009:

- Volumetric length measuring error: MPE(E0/E150)
- Repeatability range: MPL(R0)

Max. Permissible Error MPE (µm) according to ISO 10360-5:2010:

- Single stylus form error: MPE(PFTU)

Max. Permissible Error MPE (µm) and Max. Permissible Time MPT (s) according to ISO 10360-4:2000:

- Single stylus form error, scanning: MPE(THP)/MPT(τ)
- Single stylus form error, scanning - Non-predefined path: MPE(THN)/MPT(t)

ISO 12181-1: 2011 (VDI/VDE 2617 part 2.2): Form measurement error (µm): RONt (MZCI)

Probe Configuration:

- HP-S-X5/3C: stylus length 60 mm, tip diameter 5 mm
- HP-S-X1: stylus length 50 mm, tip diameter 5 mm

¹⁾ MPE(E0/E150) specifications are to be formally understood as MPE(E0/E150)* for the case where non-normal CTE material calibrated test lengths are used. Length unit measure (L) in mm.

²⁾ MPE(THP/THN) and MPT(τ): test sphere placed in the centre of measuring volume

³⁾ RONt test on Ø 50 mm ring gauge. Ring axis parallel to machine vertical axis, gauge placed in the centre of measuring volume

⁴⁾ For Shop Floor packages only.



Articulating head with HP-THD / TP200
high precision trigger probe

| | 05.YY.05 | 07.YY.05 | 07.YY.07 | 09.YY.08 | 12.YY.10 |
|--|----------|-------------|-------------|-------------|-------------|
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | - | 1.7 + L/333 | 1.7 + L/333 | 1.7 + L/333 | 2.4 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | - | 1.9 + L/250 | 1.9 + L/250 | 1.9 + L/250 | 2.7 + L/200 |
| MPL(R0) | - | 1.7 | 1.7 | 1.7 | 2.7 |
| MPE(PFTU) | - | 1.7 | 1.7 | 1.7 | 2.2 |

| | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.7 + L/333 | 1.7 + L/333 | 1.7 + L/333 | 1.9 + L/333 | 2.5 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 1.9 + L/222 | 1.9 + L/250 | 1.9 + L/250 | 2.1 + L/250 | 2.8 + L/200 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) ²⁾ | - | 1.7 + L/294 | 1.7 + L/294 | 1.9 + L/285 | 2.5 + L/277 |
| MPE(E0/E150) ¹⁾ - (15 °C - 30 °C) ²⁾ | - | 1.7 + L/263 | 1.7 + L/263 | 1.9 + L/256 | 2.5 + L/250 |
| MPL(R0) | 1.9 | 1.9 | 1.9 | 2.1 | 2.7 |
| MPE(PFTU) | 1.9 | 1.9 | 1.9 | 1.9 | 2.2 |

| | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.7 + L/333 | 1.7 + L/333 | 1.7 + L/333 | 1.9 + L/333 | 2.5 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 1.9 + L/222 | 1.9 + L/250 | 1.9 + L/250 | 2.1 + L/250 | 2.8 + L/200 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) ²⁾ | - | 1.7 + L/294 | 1.7 + L/294 | - | - |
| MPE(E0/E150) ¹⁾ - (15 °C - 30 °C) ²⁾ | - | 1.7 + L/263 | 1.7 + L/263 | - | - |
| MPL(R0) | 1.9 | 1.9 | 1.9 | 2.1 | 2.7 |
| MPE(PFTU) | 1.9 | 1.9 | 1.9 | 1.9 | 2.5 |

Articulating head with HP-TM trigger probe.

| | 05.YY.05 | 07.YY.05 | 07.YY.07 | 09.YY.08 | 12.YY.10 |
|--|-------------|-------------|-------------|-------------|-------------|
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.9 + L/333 | 1.9 + L/333 | 1.9 + L/333 | 2.1 + L/333 | 2.7 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 2.2 + L/222 | 2.2 + L/250 | 2.2 + L/250 | 2.4 + L/250 | 3.1 + L/200 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) ²⁾ | - | 1.9 + L/294 | 1.9 + L/294 | 2.1 + L/285 | 2.7 + L/277 |
| MPE(E0/E150) ¹⁾ - (15 °C - 30 °C) ²⁾ | - | 1.9 + L/263 | 1.9 + L/263 | 2.1 + L/256 | 2.7 + L/250 |
| MPL(R0) | 1.9 | 1.9 | 1.9 | 2.1 | 2.7 |
| MPE(PFTU) | 2.0 | 2.0 | 2.0 | 2.0 | 2.6 |

| | | | | | |
|--|-------------|-------------|-------------|-------------|-------------|
| MPE(E0/E150) ¹⁾ - (18 °C - 22 °C) | 1.9 + L/333 | 1.9 + L/333 | 1.9 + L/333 | 2.1 + L/333 | 2.7 + L/333 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) | 2.2 + L/222 | 2.2 + L/250 | 2.2 + L/250 | 2.4 + L/250 | 3.1 + L/200 |
| MPE(E0/E150) ¹⁾ - (16 °C - 26 °C) ²⁾ | - | 1.9 + L/294 | 1.9 + L/294 | - | - |
| MPE(E0/E150) ¹⁾ - (15 °C - 30 °C) ²⁾ | - | 1.9 + L/263 | 1.9 + L/263 | - | - |
| MPL(R0) | 1.9 | 1.9 | 1.9 | 2.1 | 2.7 |
| MPE(PFTU) | 2.0 | 2.0 | 2.0 | 2.0 | 2.7 |

Max. Permissible Error MPE (µm) and Max. Permissible Limit MPL (µm) according to ISO 10360-2:2009:

- Volumetric length measuring error: MPE(E0/E150)

- Repeatability range: MPL(R0)

Max. Permissible Error MPE (µm) according to ISO 10360-5:2010:

- Single stylus form error: MPE(PFTU)

Probe Configuration:

- HP-THD: Standard force module, stylus length 10 mm, tip diameter 4 mm
- TP200: Standard force module, stylus length 10 mm, tip diameter 4 mm
- HP-TM: Standard Force Module, stylus length 10 mm, tip diameter 4 mm

¹⁾ MPE(E0/E150) specifications are to be formally understood as MPE(E0/E150)* for the case where non-normal CTE material calibrated test lengths are used.
Length unit measure (L) in mm.

²⁾ For Shop Floor packages only.



GLOBAL S: NON CONTACT SENSORS SPECIFICATIONS



HH-A/HP-L-10.6 ¹⁾

HH-A/HP-L-20.8 ¹⁾

HH-A/HP-C-Ve

| | | | |
|----------------------------------|--------|--------|-----------|
| ²⁾ Probing Form Error | 22 µm | 25 µm | – |
| ³⁾ Dispersion | 7.5 µm | 7.5 µm | – |
| ⁴⁾ $P_{F2D,MPE}$ | – | – | 10 µm |
| ⁴⁾ $P_{FD2D,MPE}$ | – | – | 6 µm |
| ⁴⁾ $E_{UV,MPE}$ | – | – | 4 + 2L µm |

¹⁾ From GLOBAL S 07.YY.07. Some restrictions to workpiece size and machine configuration may apply when used on GLOBAL S 07.YY.07

²⁾ Maximum Permissible Probing Form Error $P_{Form,Sph,1x25;Tr;ODS,MPE}$ according to ISO10360-8:2013

³⁾ Maximum Permissible Probing Error (1σ). In a Gaussian error distribution, the Probing Error (1σ) is the width of the spherical shell that encompasses 34.1% of all the points.

⁴⁾ According to ISO10360-7:2011

GLOBAL S: THROUGHPUT AND DYNAMICS

| | Max. probing frequency (with scanning probes) | Max. 3D Speed | Max. 3D Acceleration |
|-----------------------------|---|---------------|------------------------|
| High Dynamics ⁵⁾ | 1000 point/s | 860 mm/s | 4300 mm/s ² |
| Standard Dynamics | 1000 point/s | 510 mm/s | 1700 mm/s ² |

⁵⁾ Dynamics reduction may apply to meet specific customer and/or local safety requirements

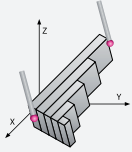
GLOBAL S: TEMPERATURE SPECIFICATIONS

| | Lab Temperature | Extended Temperature | Shop Floor Temperature |
|--------------------------------|-------------------|----------------------|---|
| Ambient temperature | 18 °C ÷ 22 °C | 16 °C ÷ 26 °C | 15 °C ÷ 30 °C |
| Max. air temperature variation | 1 °C/h - 2 °C/24h | 1 °C/h - 5 °C/24h | 1 °C/h - 5 °C/24h 2 °C/h - 10 °C/24h ⁶⁾ |
| Max. gradient in space | 1 °C/m | 1 °C/m | 1 °C/m |

⁶⁾ Accuracy specifications for this temperature range are available on request.

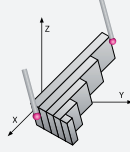
PERFORMANCE VERIFICATION

MPE(E0): maximum permissible error of length measurement



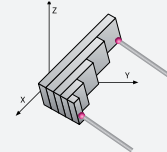
5 gauges have to be measured 3 times with one probing at each end, in 7 different directions. All measuring results must be within MPE(E0).

MPL(R0): maximum permissible limit of the repeatability range



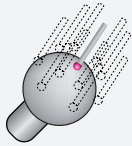
Extreme value of the repeatability range of the length measurement error, calculated by three repeated measurements on each size for a total of 35 values. The 35 repeatability range results must be within MPL(R0).

MPE(E150): maximum permissible error of length measurement



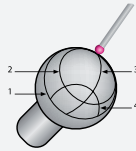
5 length gauges have to be measured 3 times in the YZ- or XZ plane with opposite styli, mounted 150 mm off the Z spindle axis. All measuring results must be within MPE(E150).

MPE(PFTU): maximum permissible single stylus form error



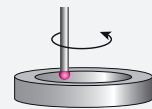
A precision sphere has to be measured with 25 probings. PFTU is the range of all radii. The range of all radii must be within MPE(PFTU).

Maximum permissible scanning probing error



MPE(THP)/MPT(τ): A precision sphere has to be scanned with 4 defined lines. THP is the range of all radii with the predefined path.
MPE(THN)/MPT(τ): A precision sphere has to be scanned with 4 defined lines. THN is the range of all radii with the non-predefined path.
 The range of all radii and the scanning time must be within MPE(THP/THN) and MPT(τ).

RONt (MZCI) maximum permissible form measurement error (2D)



A ring gauge is measured in scanning mode, with high points density. The range of radial distances from two concentric circles enclosing the roundness profile and having the least radial separation, is then evaluated. The range of radial distances must be within RONt.

NOTE: ISO 10360-2 test with maximum part weight performed as an option upon request only.



PROBE HEADS AND SENSORS



| Technical Characteristics | HP-S-X3C | HP-S-X5/X5 HD |
|---------------------------|-----------------------|--------------------|
| Overtravel range | ± 1.25 mm in all axes | ± 2 mm in all axes |
| Stylus joint | M5 | M5 |
| Max. stylus weight | 150 g | 500 g / 650 g |
| Max. stylus length | 360 mm | 500 mm / 800 mm |



| Technical Characteristics | HH-AS and HH-A-T5° Indexable Probe Head | HH-AS8 and HH-A-T2.5° Indexable Probe Head | HH-AS8-H2.5° Indexable Probe Head |
|---------------------------|--|---|--------------------------------------|
| Angular rotation | A axis: +90° / -115° B axis: ±180° | A axis: ±105° B axis: ±180° | A axis: ±180° B axis: ±180° |
| Angular rotation step | 5° | 2.5° | 2.5° |
| Max. applied torque | 0.6 Nm | 1.4 Nm | 1.7 Nm |
| Max. extensions length | 300 mm | 450 mm | 750 mm |

| Technical Characteristics | HP-L-10.6 | HP-L-20.8 |
|--------------------------------|----------------------|-------------------------|
| Laser | Visible red, class 2 | Visible red, class 2 |
| Standoff and depth of FOV | 170 ± 30 mm | 180 ± 40 mm |
| Width of FOV user selectable | 24, 60, 124 mm | 25, 51, 63, 130, 220 mm |
| T range for specified accuracy | 15 ~ 32 °C | 15 ~ 32 °C |
| Sensor size L x W x H | 134 x 72 x 60.5 mm | 137 x 76 x 85 mm |



| Technical Characteristics | HP-C-VE |
|---------------------------|--|
| Nominal FOV size | 6.5 mm x 5 mm |
| Nominal pixel size | approx. 8.5 µm |
| Optical magnification | x 0.73 |
| Working distance | 75 mm |
| Ring light configuration | 2 rings, each with 4 sectors. 1 LED per sector on the inner ring, 2 LED per sector on the outer ring |
| Sensor size Ø x L | max. Ø 75 mm x 137.5 mm (with TKJ mount) |





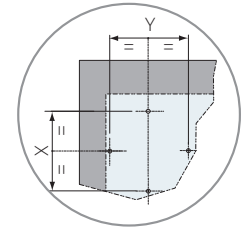
PROBE HEADS CONFIGURATIONS

| | 05.YY.05 | 07.YY.05 | 07.YY.07 | 09.YY.08 | 12.YY.10 |
|--------------|----------|----------|----------|----------|----------|
| HP-S-X3c | X | ✓ | ✓ | • | • |
| HP-S-X5 | X | X | X | ✓ | ✓ |
| HP-S-X5 HD | X | X | X | • | • |
| HH-A-T 5° | • | • | • | X | • |
| HH-AS-T 5° | ✓ | • | • | • | • |
| HH-A-T 2.5° | • | • | • | • | • |
| HH-AS-T 2.5° | X | ✓ | ✓ | ✓ | ✓ |
| HH-AS-H 2.5° | X | X | X | • | • |
| HP-S-X3c | ✓ | ✓ | ✓ | • | • |
| HP-S-X5 | X | X | X | ✓ | ✓ |
| HP-S-X5 HD | X | X | X | • | • |
| HH-A-T 5° | • | • | • | X | • |
| HH-AS-T 5° | ✓ | • | • | • | • |
| HH-A-T 2.5° | • | • | • | • | • |
| HH-AS-T 2.5° | X | ✓ | ✓ | ✓ | ✓ |
| HH-AS-H 2.5° | X | X | X | • | • |
| HP-S-X3c | ✓ | ✓ | ✓ | ✓ | ✓ |
| HP-S-X5 | X | X | X | X | X |
| HP-S-X5 HD | X | X | X | X | X |
| HH-A-T 5° | • | • | • | X | • |
| HH-AS-T 5° | ✓ | ✓ | ✓ | ✓ | ✓ |
| HH-A-T 2.5° | • | • | • | • | • |
| HH-AS-T 2.5° | X | • | • | • | • |
| HH-AS-H 2.5° | X | X | X | • | • |

- X Unavailable
- ✓ Recommended
- Available

GLOBAL S: TECHNICAL CHARACTERISTICS

| | | | | |
|---------------------------------|--------------|--|--------------------------|-----------------|
| | | Machine maximum overall dimension | | |
| Mechanical Frame | | X: Micromachined anodized light alloy extrusion Y: Integral dovetail guideways, machined into the table Z: Micromachined anodized light alloy extrusion | | |
| Surface Plate | | Material: Granite Flatness: according to DIN 876/III Part Locking: threaded inserts M8 x 1.25 Diagonally staggered hole pattern: GLOBAL S 05.YY.05: X = 350 mm ; Y= 150 mm GLOBAL S 07.YY.05: X = 300 mm ; Y= 300 mm GLOBAL S 07.YY.07: X = 300 mm ; Y= 300 mm GLOBAL S from 09.YY.08: X = 350 mm ; Y= 350 mm | | |
| Sliding System | | Air bearings on all axes | | |
| Measuring System | | METALLUR® linear scales. System Resolution: 0.039 µm | | |
| Temperature Compensation | | Extended temperature 16 - 26 °C: Multi-sensor technology Shop floor temperature 15 - 30°C: Structural multi-sensor technology | | |
| Ram Counterbalance | | Pneumatic, adjustable | | |
| Controller | | DC800 I/O-Ready, IP54 | DC800 I/O-Ready, IP54 | DC 241, IP54 |
| Supply Requirements | Power | 100/120/220/240 V ± 10% - 50/60 Hz - 1.6 KVA | | |
| Supply Requirements | Air | 0.5 MPa minimum - Class 4 according to ISO 8573/1 | | |
| Consumption | Power | 0.5 KVAh | 0.5 KVAh | 0.35 KVAh |
| Consumption | Air | 70 NL/min (for 05.YY.05); 90 NL/min (for all other models) | | |
| Operating Specifications | | Ambient temperature: 10 - 40 °C Relative humidity: 20% - 90 % non-condensing | | |



GLOBAL S: MINIMUM DOOR OPENING REQUIREMENTS

| Standard Size Frames | Machine maximum overall dimension | |
|--------------------------------|---|---|
| | Width (mm) | Height (mm) ¹⁾ |
| 5.5.5 - 5.7.5 | 1095 | 1490 |
| 7.7.5 - 7.10.5 | 1340 | 1475 |
| 7.10.7 | 1340 | 1655 |
| 9.12.8 - 9.15.8 - 9.20.8 | 1540 ²⁾ / 1665 ³⁾ | 2020 ²⁾ / 2065 ³⁾ |
| 12.15.10 - 12.22.10 - 12.30.10 | 1965 | 2305 |

¹⁾ Minimum Height is listed w/o the CMM stand for Global 05.YY.05 , 07.YY.05, 07.YY.07 series and w/o pedestals for the Global 09.YY.08 and 12.YY.10 series

Dimensions shown are from the highest point at the top of the CMM to the lowest point on the CMM as in shipped condition

Dimensions shown do not include lifting equipment

Dimensions shown are with 25 mm minimum clearance all around

²⁾ For GLOBAL S Green

³⁾ For GLOBAL S Blue and Chrome



GLOBAL S

EPS

HEXAGON











HEXAGON

MANUFACTURING INTELLIGENCE

Hexagon Manufacturing Intelligence helps industrial manufacturers develop the disruptive technologies of today and the life-changing products of tomorrow. As a leading metrology and manufacturing solution specialist, our expertise in sensing, thinking and acting – the collection, analysis and active use of measurement data – gives our customers the confidence to increase production speed and accelerate productivity while enhancing product quality.

Through a network of local service centres, production facilities and commercial operations across five continents, we are shaping smart change in manufacturing to build a world where quality drives productivity. For more information, visit HexagonMI.com.

Hexagon Manufacturing Intelligence is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity across geospatial and industrial enterprise applications.

-  COORDINATE MEASURING MACHINES
-  3D LASER SCANNING
-  SENSORS
-  PORTABLE MEASURING ARMS
-  SERVICES
-  LASER TRACKERS & STATIONS
-  MULTISENSOR & OPTICAL SYSTEMS
-  WHITE LIGHT SCANNERS
-  METROLOGY SOFTWARE SOLUTIONS
-  CAD / CAM
-  STATISTICAL PROCESS CONTROL
-  AUTOMATED APPLICATIONS
-  MICROMETERS, CALIPERS AND GAUGES
-  DESIGN AND COSTING SOFTWARE