

# CROMA

## Coordinate Measuring Machines

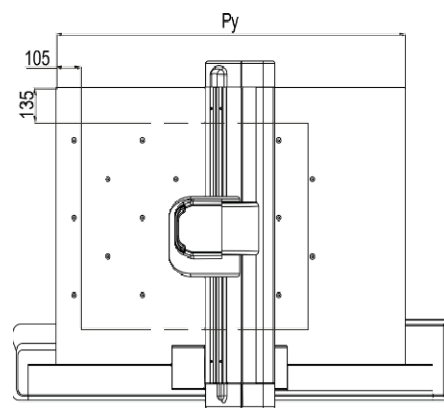
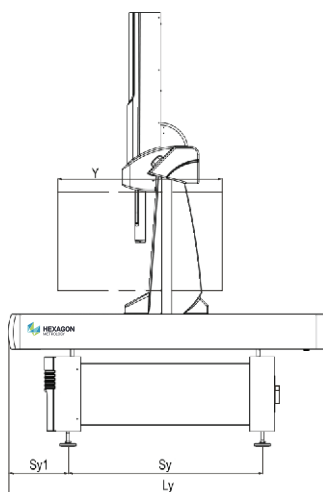
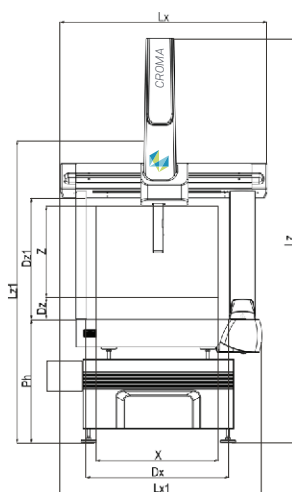


# CROMA COST EFFECTIVE MEASURING SOLUTION



## MAIN FEATURES

- All aluminium structure combined with hard anodized aerometal for cross beam and Z axis ensures temperature consistency, reduces mass of moving parts and force of inertia, hence ensures high accuracy during high speed movement
- High-precision self-cleaning air bearing in all three axes, smoother movement without wearing down guide ways
- Europe-imported high-precision optical scales for all the three axes, system resolution up to 0.078um; Installation method with one end fixed and the other end freely extensible ensures linear expansion and contraction at temperature change and reduces the deformation of the optical scale
- The patented precision triangular beam, featuring gravity center, better stiffness, and more reliable motion compared to rectangular and cross beams
- Integral dovetail guideway is Y axis, reduces machine weight as well as twistings during movement, ensures measuring accuracy and stability
- All axes driven by DC servo motors for stable movement and accurate locations
- The IDC-I control system specially designed by Hexagon Metrology for CROMA improves the dynamic performance and measuring accuracy
- Powerful, easy-to-learn and efficient PC-DMIS BASIC (/PC-DMIS PREMIUM) software





## SPECIFICATION AND TECHNIQUE DATA AS FOLLOWS

Machine Type		Croma564	Croma686	Croma8106	Croma8126
Strokes (mm)	X	500	600	800	800
	Y	600	800	1000	1200
	Z	400	600	600	600
Measuring Range (mm)	Dx	634	734	934	934
	Dz	144	144	144	144
	Dz1	594	794	794	794
Working plate (mm)	Ph	783	783	805	805
	Py	1155	1355	1555	1755
Support (mm)	Sy	824	978	1178	1378
	Sy1	356	379	379	379
Overall Size (mm)	Lx	1050	1150	1350	1350
	Ly	1535	1735	1935	2135
	Lz	2247	2647	2729	2729
Max. part weight (kg)		300	300	500	500
Machine weight (kg)		590	730	1074	1196
MPEe (μm)		2.4 + L / 300	2.4 + L / 300	2.6 + L / 300	2.6 + L / 300
MPEp (μm)		2.4	2.4	2.6	2.6
Probe / Sensor		Manual or Motorized			
Scales resolution (μm)		0.078	0.078	0.078	0.078
Max. 3D Speed (mm/s)		520	520	520	520
Max. 3D Acceleration (mm/s²)		1730	1730	1730	1730
Air Pressure		120 NL / min, 0.45 Mpa	120 NL / min, 0.45 Mpa	120 NL / min, 0.45 Mpa	120 NL / min, 0.45 Mpa
Operating Temperature		20±2°C	20±2°C	20±2°C	20±2°C
<b>Temperature Gradients:</b>					
Air Temperature Variation		1°C / h – 2°C / 24h	1°C / h – 2°C / 24h	1°C / h – 2°C / 24h	1°C / h – 2°C / 24h
Air Temperature Gradient		1°C / m	1°C / m	1°C / m	1°C / m
Humidity		45% – 75%	45% – 75%	45% – 75%	45% – 75%

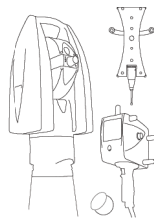
Due to dedication of constant quality improvement, Hexagon Metrology maintains the right to modify products' technical parameters without previous notifications. Picture is for reference only and subject to material product.



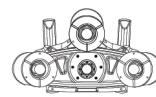
PRECISION MEASURING  
INSTRUMENTS



PORTABLE MEASURING ARMS



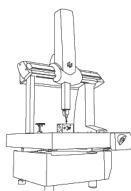
LASER TRACKERS  
& STATIONS



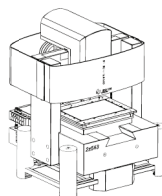
WHITE LIGHT SCANNERS



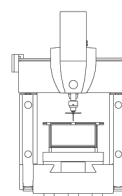
SENSORS



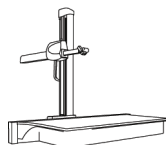
BRIDGE CMMS



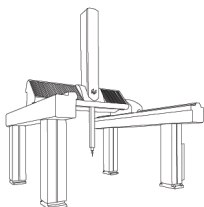
MULTISENSOR & OPTICAL SYSTEMS



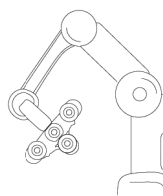
ULTRA HIGH ACCURACY CMMS



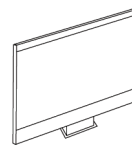
HORIZONTAL ARM CMMS



GANTRY CMMS



AUTOMATED APPLICATIONS



SOFTWARE SOLUTIONS



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METROLOGY

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With more than 20 production facilities and 70 Precision Centres for service and demonstrations, and a network of over 100 distribution partners on five continents, we empower our customers to fully control their manufacturing processes, enhancing the quality of products and increasing efficiency in manufacturing plants around the world.

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