ACCRETECH

High Accuracy CNC Coordinate Measuring Machine

XYZAX AXCEL

NEW

High speed, high accuracy and high resistance to environment. A new global standard that leads the new age.

■ Class highest level accuracy

Maximum permissible length measurement error

$E_{0,MPE}$: 1.8 + 3L/1000 μm*

A newly developed highly rigid bridge delivers the highest level accuracy in class.

■ Amazing speed is achieved by review of the drive mechanism

A maximum drive speed of **700** mm/sec and

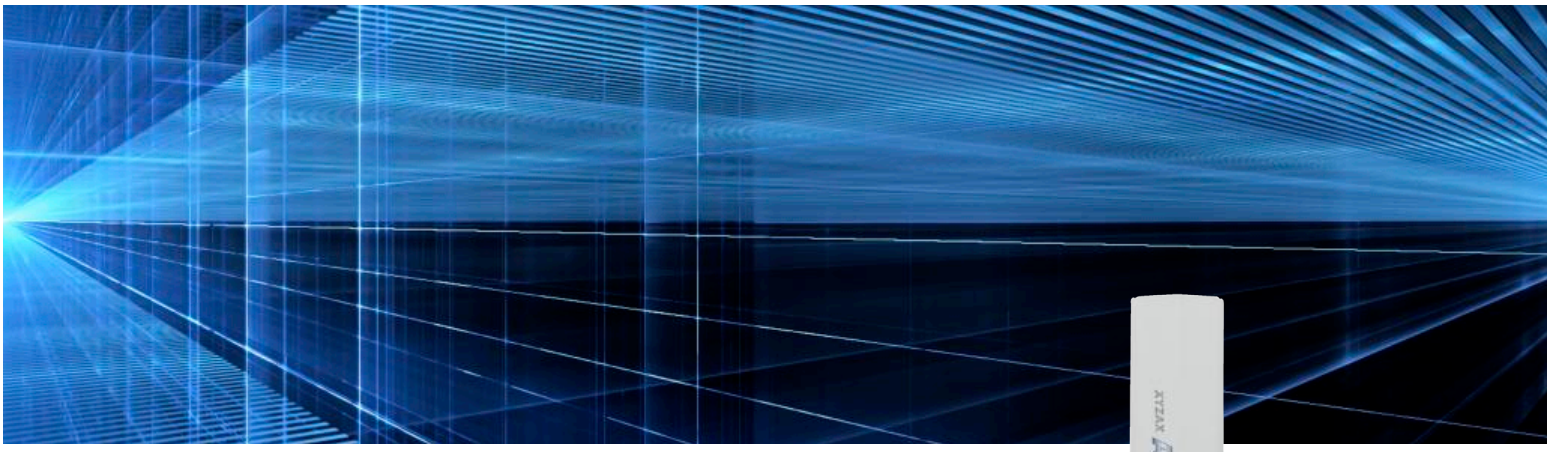
maximum acceleration of **2300** mm/sec^2

The drive mechanism of the axes were thoroughly reviewed, and 64% increase in driving speed and 35% increase in acceleration (compared with our conventional machines) were achieved. Measurement efficiency increases significantly.

Specification

Item			Model	XYZAX AXCEL RDS	
				9/6/6	9/10/6
Measuring range	X-axis		(mm)	850	
	Y-axis		(mm)	600	1000
	Z-axis		(mm)	600	
Measuring accuracy VAST XXT	Maximum permissible error for length measurement $E_{0,MPE}$		(μm)	1.8 + 3L/1000 (18 ～ 22℃) 1.8 + 4L/1000 (16 ～ 26℃) 1.8 + 5L/1000 (15 ～ 30℃)	
	Maximum permissible error for length measurement $E_{150,MPE}$		(μm)	2.3 + 3L/1000 (18 ～ 22℃) 2.3 + 4L/1000 (16 ～ 26℃) 2.3 + 5L/1000 (15 ～ 30℃)	
	Maximum permissible limit for repeatability range $R_{0,MPL}$		(μm)	1.3	
	Maximum permissible error for single stylus form $P_{FTU,MPE}$		(μm)	1.8	
	Maximum permissible error for scannning probe MPE_{THP}		(μm)	2.9	
Table	Usable width (X)		(mm)	1050	
	Usable depth (Y)		(mm)	1500	1900
Workpiece	Max. height		(mm)	790	
	Max. weight		(kg)	800	1000
Driving speed	Max. acceleration		(mm/sec^2)	2300	
	Variable speed range		(mm/sec)	0.01 ～ 700	
Outer diameter dimension	Dimentions	Width	(mm)	1715	
		Depth	(mm)	1550	1950
		Height	(mm)	2578	
	Weight		(kg)	2100	2550

＊ Temperature condition:18 ～ 22℃



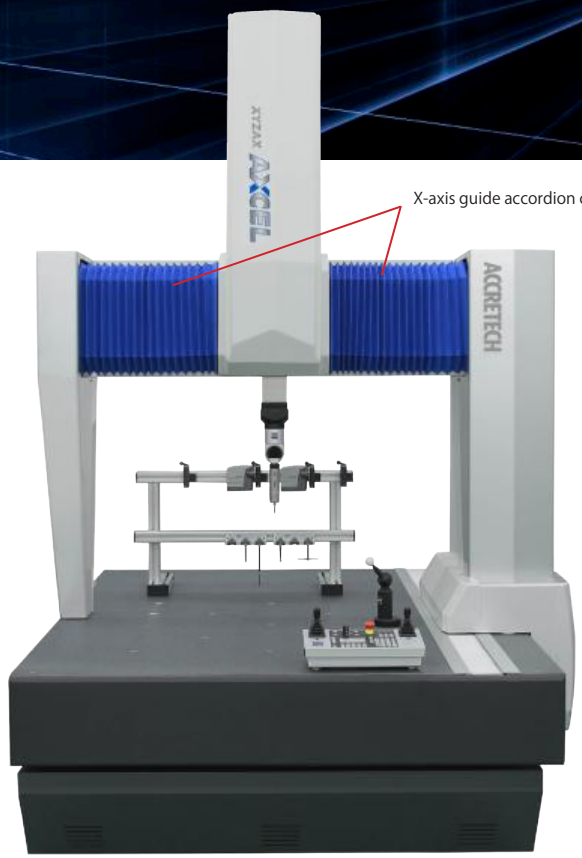
■ Enhanced resistance to environment

Temperature to guarantee accuracy: 15 to 30℃ .
An accordion cover protects the X-axis guide and a new design cover is provided to the Y-axis carriage. This structure prevents deformation of the guide and carriage due to temperature changes, increasing resistance to environment (XYZAX AXCEL RDS standard).

■ Equipped with 2-axis rotating head RDS and scanning probe

VAST XXT

2-axis rotating head RDS rotates ± 180 ° horizontally or vertically at a pitch of 5.0°, enabling 5,184 positioning patterns at maximum. By combining with scanning probe VAST XXT, XYZAX AXCEL can perform high accuracy oscillating scanning measurement at many different angles. Non-contact type line laser sensor LineScan 2 is also available (optional). It is useful when you want to shorten lead time of profile by surface measurement or conduct reverse engineering by obtaining mass point group data.



RDS + VAST XXT

RDS + LineScan2

LineScan2 Specification

	LineScan 2-25	LineScan 2-50	LineScan 2-100
Z measuring range (mm)	25	50	100
Work distance (mm)	63	94	220
Measuring width (center of measuring range) (mm)	25	50	80
Maximum obtaining points	700,000 points/second	250,000 points/second	700,000 points/second
MPE_{PF} (ISO 10360-8:2013) (μm)	12	20	50
Accuracy (1 σ) (μm)	4	5	12

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ISO 9001
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Certification

UKAS MANAGEMENT SYSTEMS
008

ISO 9001 and ISO 14001 awarded to the Hachioji and Tsuchiura Plants

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