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

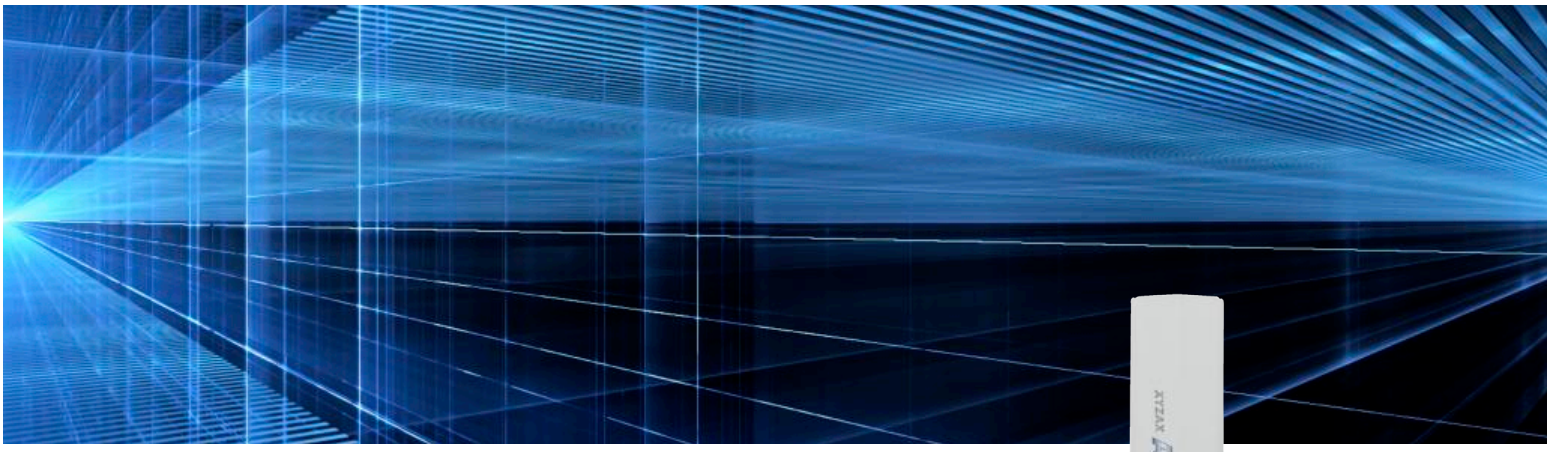
maximum acceleration of **2300** mm/sec^2

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℃



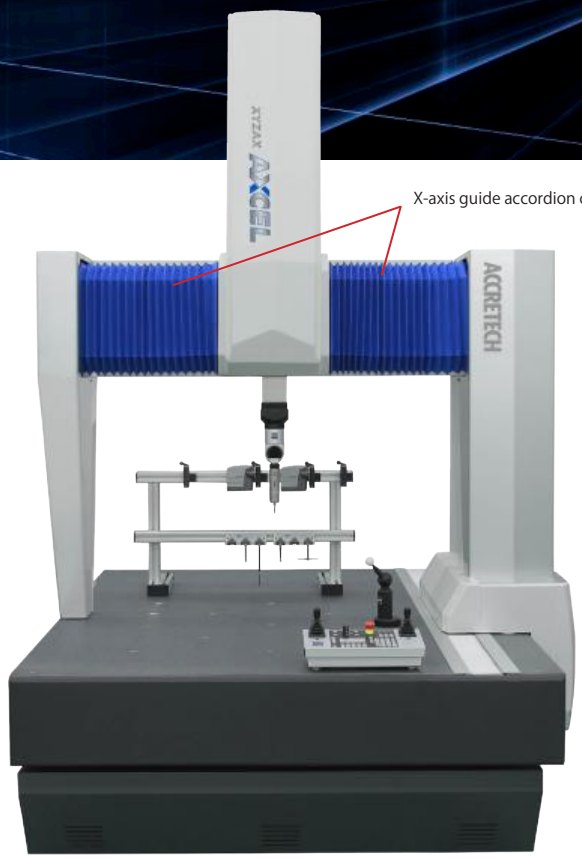
■ Enhanced resistance to environment

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

ACCRETECH

Head Office
2968-2, Ishikawa-machi, Hachioji-shi,
Tokyo 192-0032, Japan
TEL: +81(0)42-642-1701 FAX: +81(0)42-642-1821

International Sales and Marketing
4, Higashi-Nakanuki-machi,Tsuchiura-shi,
Ibaraki 300-0006, Japan
TEL: +81(0)29-831-1240 FAX: +81(0)29-831-1461

ISO 9001
ISO 14001
BUREAU VERITAS
Certification

UKAS MANAGEMENT SYSTEMS
008

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

We reserve the right to change the contents of this catalog, including product specifications, without notice when products are updated. Pictures on this brochure include various optional accessories.

Some of our products shall be controlled by the Foreign Exchange and Foreign Trade Act, and required an export license by the Japanese Government.
Regarding exporting the products and/or providing a non-resident with technologies, please consult ACCRETECH(Tokyo Seimitsu).

http://www.accretech.jp/

B-81-910-E-1706

ACCRETECH TOKYO SEIMITSU