

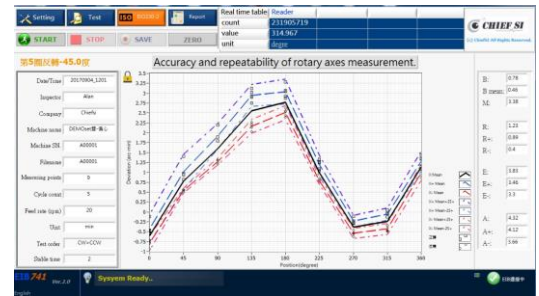
Accuracy and repeatability test for rotating axis

EIB-230

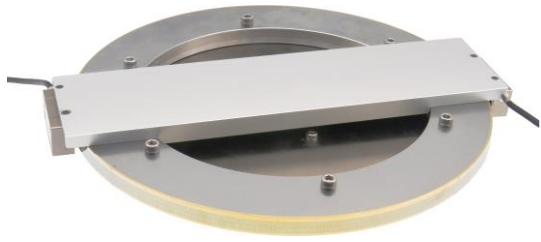


Features :

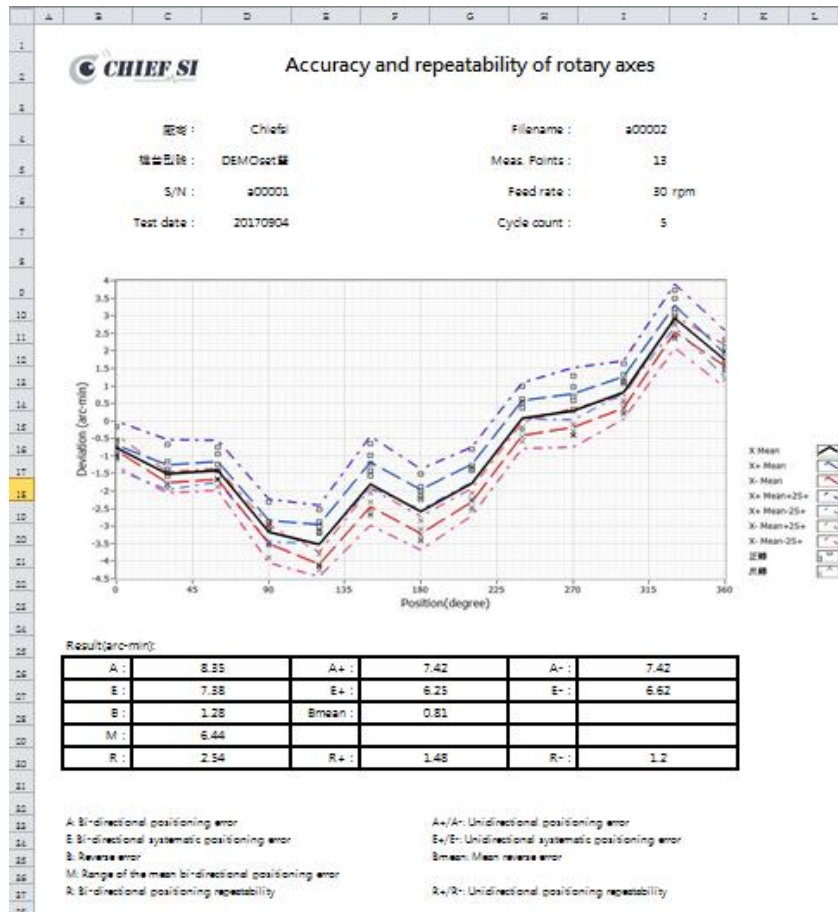
- Eccentric compensation by Multiple-read head.
- Specific fixture for rapid and accurate installation in 5 min.
- High efficiency measuring for auto triggering.
- Automatic analyzing and exporting Excel report.
- According to ISO 230-2 / VDI 3441 measuring methods.
- Exporting compensation chart in ASCII format.



Specifications :

Measure Device	Encoder + 2 read head + DAQ + 2 Magnetic stands + 2m Cable	
Model	OD=100mm · Accuracy ± 2.15 arc-sec	
Analysis Function (ISO 230-2)	A : Bi-directional positioning	Fixture  Specific fixture
	E : Bi-directional systematic	
	B : Reverse error	
	M : Range of the mean bi-	
	R : Bi-directional positioning	
	A+/A- : Unidirectional	
	E+/E- : Unidirectional	
	Bmean : Mean reverse error	
Analysis Function (VDI/DGQ 3441)	U : reversal error	
	Ps : Positional scatter	
	P : Positional uncertainty	
	Pa : positional deviation	
Report & Raw data	EXCEL format	
Compensate table	ASCII format	
Measure interval(°)	5, 10, 15, 30, 45, 90	
Unit	Degree, arc-min, arc-sec	
Interface	USB	

EXCEL report:



Raw data:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1 正轉目標角度	0	30	60	90	120	150	180	210	240	270	300	330	360	
2 cycle 1	-0.00272	29.98896	59.98761	89.96137	119.9578	149.9891	179.975	209.9866	240.0165	270.0214	300.0272	330.0621	360.0388	
3 cycle 2	-0.00944	29.98057	59.98427	89.952	119.9521	149.9836	179.9687	209.9787	240.0102	270.0163	300.0221	330.0582	360.035	
4 cycle 3	-0.01279	29.97727	59.97927	89.95075	119.9497	149.9797	179.9629	209.9773	240.0086	270.0096	300.019	330.0534	360.0323	
5 cycle 4	-0.01721	29.97534	59.9765	89.94959	119.9467	149.9764	179.9639	209.9766	240.0061	270.0116	300.0178	330.0513	360.0285	
6 cycle 5	-0.01595	29.97396	59.97639	89.94918	119.947	149.9737	179.9668	209.9773	240.0062	270.0055	300.0187	330.0495	360.0246	
7														
8 反轉目標角度	0	30	60	90	120	150	180	210	240	270	300	330	360	
9 cycle 1	-0.00896	29.97469	59.97611	89.94784	119.9369	149.9657	179.9527	209.9657	239.9969	270.0044	300.0097	330.047	360.0332	
10 cycle 2	-0.01149	29.96794	59.97262	89.94232	119.9311	149.9616	179.9484	209.9629	239.9954	269.9983	300.0084	330.0456	360.0274	
11 cycle 3	-0.01539	29.97066	59.97213	89.94145	119.9317	149.958	179.9456	209.9619	239.9901	269.995	300.0059	330.0406	360.0259	
12 cycle 4	-0.01659	29.97057	59.97175	89.94065	119.9308	149.9558	179.9435	209.9575	239.9903	269.9934	300.0042	330.0396	360.0236	
13 cycle 5	-0.01821	29.96958	59.96875	89.9351	119.9292	149.9551	179.943	209.9587	239.9926	269.9931	300.0031	330.0388	360.0196	

Compensate data:

Position(degree)	Compensate(arc-sec)
0.00	-0.79
45.00	-0.35
90.00	0.41
135.00	1.31
180.00	3.37
225.00	4.08
270.00	3.95
315.00	1.57
360.00	0.94



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