

Measurement report TRAC-CAL (Rotary axis)

Machine info:

Machine:	Demo-Rot-Axis
Serial No.:	0001
Machine volume [X,Y,Z] [mm]:	[1000,1000,1000]
Expansion coefficient of scales:	0 $\mu\text{m}/(\text{m}\cdot\text{K})$
Date of examination:	January 2009
Examiner:	Schwenke
Company:	Etalon AG
Department:	QS
Comments:	B-Axis (vertical) of large horizontal mill

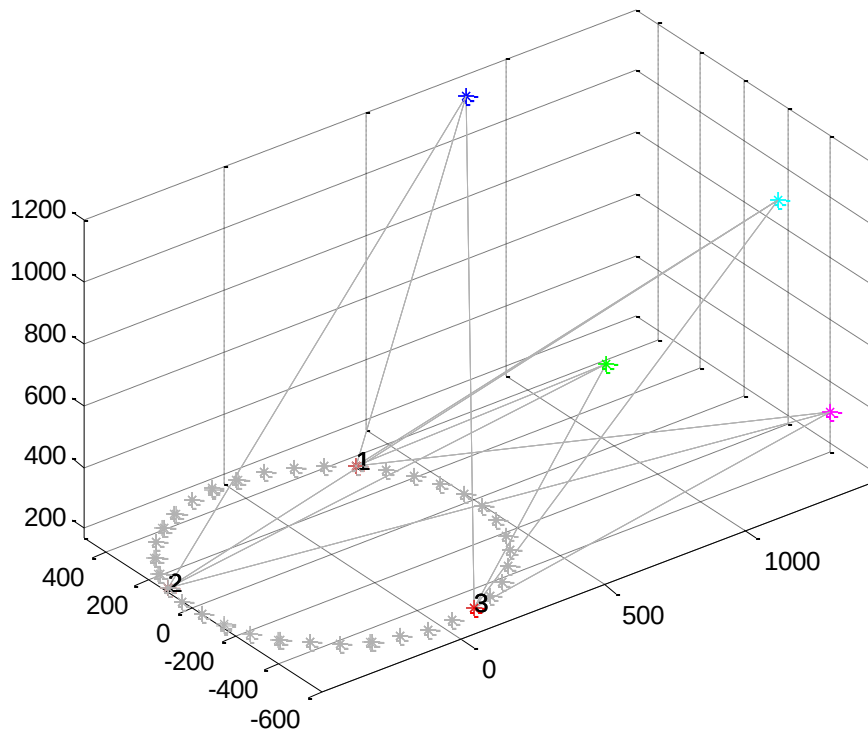
Uncertainty model TRACER/TRACKER:

Static uncertainty:	0.2 μm (k=2)
Length dependent (random):	0.2 $\mu\text{m}/\text{m}$ (k=2)
Length dependent (systematic):	0.2 $\mu\text{m}/\text{m}$ (k=2)
Reflector offset Uncertainty:	0 mm

Software Info:

Software:	Trac-Cal
Version (measurement):	V20.131.2010-01-21
Version (report):	V20.133.2010-02-08

Configuration



Rotary position

Pos. No.	X [mm]	Y [mm]	Z [mm]
1	354	169	354
2	129	169	-483
3	-483	169	129

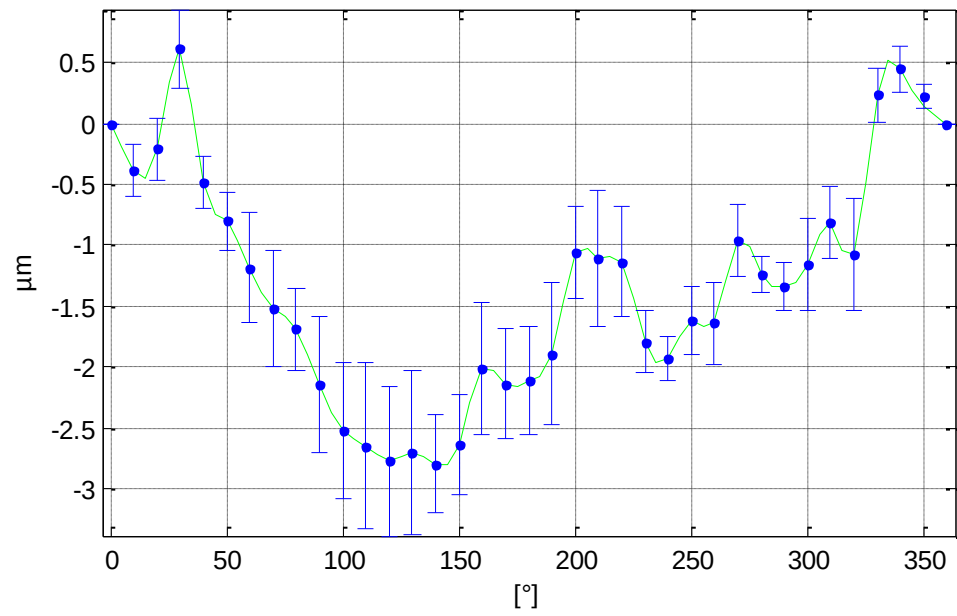
Machine position

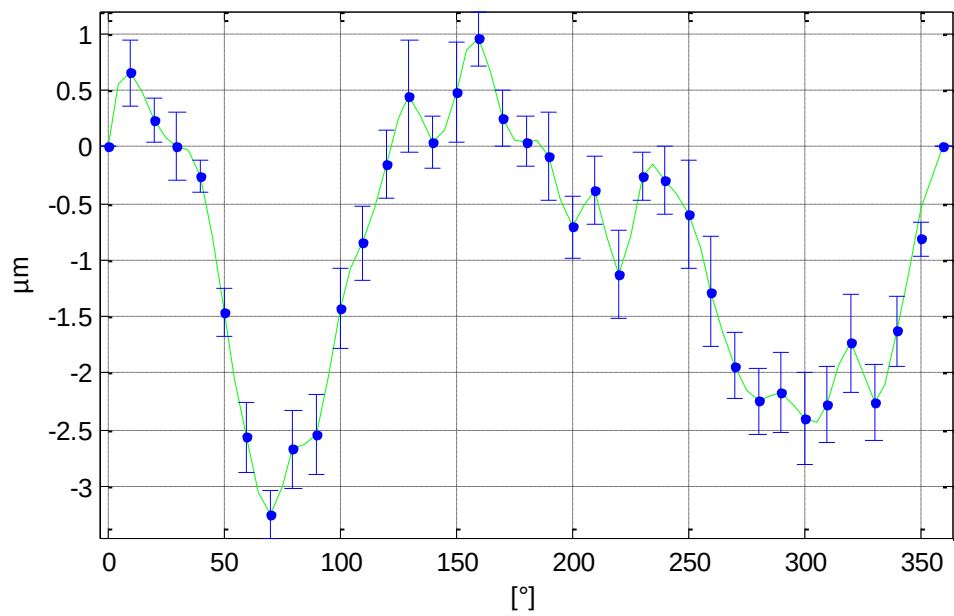
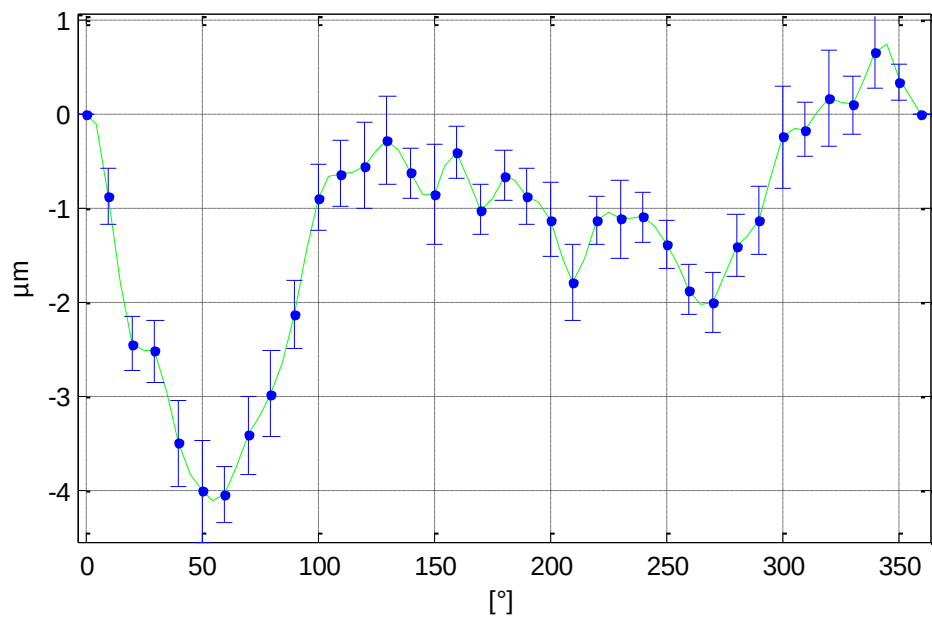
Pos. No.	X [mm]	Y [mm]	Z [mm]
1	-400	300	1460
2	200	300	1120
3	400	1200	780
4	-600	1200	1120

First axis

No.	Angular Range Start [°]	Stop [°]	Step [°]	pos./neg.
1	0	350	10	p
2	0	350	10	p
3	0	350	10	p

No.	Rot. Pos.No.	Machine Pos.No.	CatEyeDir (x y z) [°]	Dead Path
1	1	3 2 1 4	-0.00 -40.68 -40.68	1
2	2	3 2 1 4	-0.00 -40.68 -40.68	2
3	3	3 2 1 4	-0.00 -40.68 -40.68	3

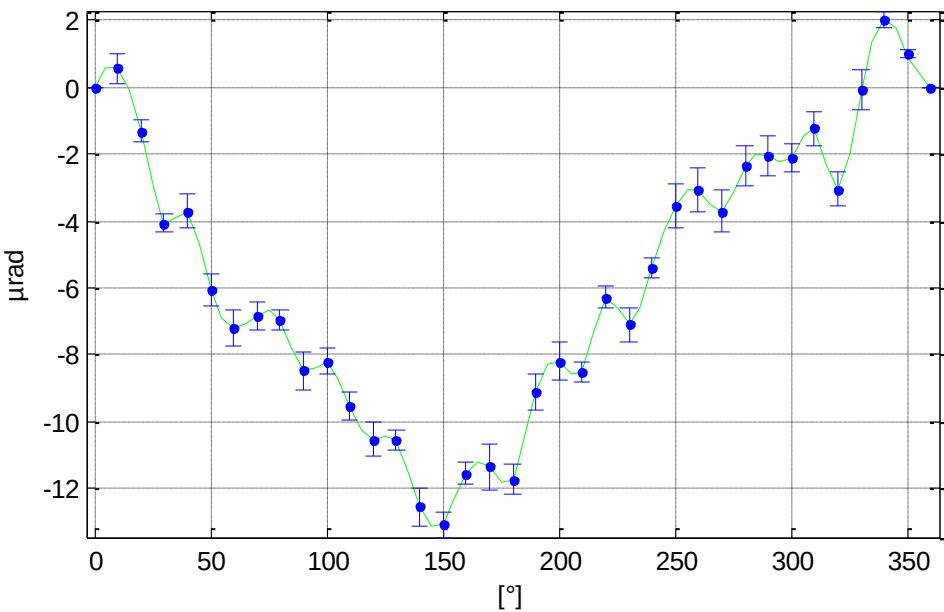
EYB

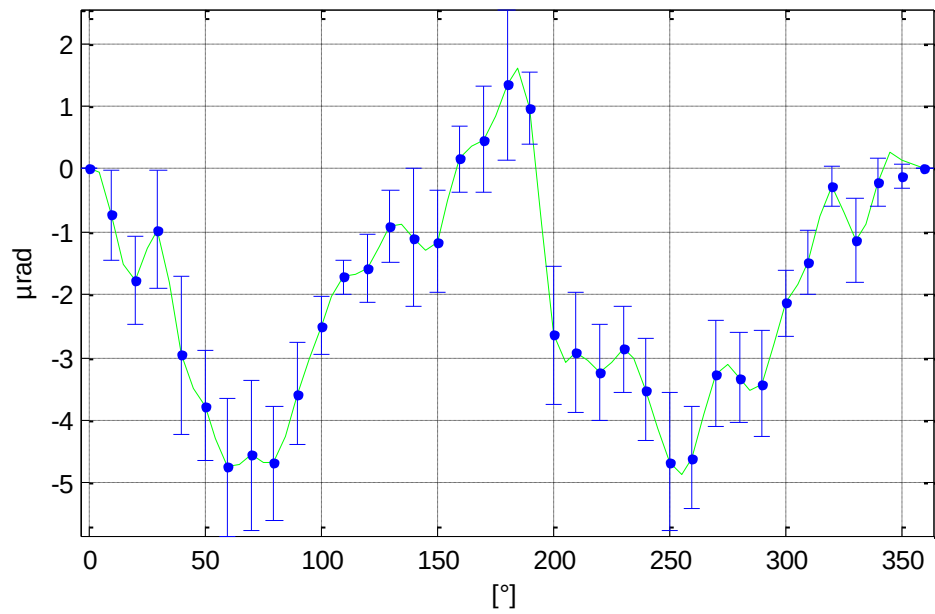
EZB**EXB**

Squareness

	C0B [rad]	A0B [rad]
Sim	-	-
Error	6.7134e-006	2.8688e-005
Uncertainties	1.3968e-006	1.8674e-006

EBB



ECB**EAB**