API X-D Laser Measurement Linear Data Table (Company Name: X AXIS)

File Version: 5
Instrument(S/N): 5089
File Name: X AXIS.pos
TstDate: 12/16/2022
TstTime: 17:46:39

MachID: GEE PEE   MachName: NIKON CMM   Operator: U VISTA   CNCProg: CMM   FeedRate: SEMIAUTO
AxesLoc: (Y) 0   (Z) 0   (U) 0   (V) 0   (W) 0
TstAxis: (Z)

Diagonal: X1 800   Y1 300   Z1 -100   X2 0   Y2 -300   Z2 300
Unit: mm   1
IniPos: 0
EndPos: 600
Length: 600   Increm: 100   RunNum: 3   NumofPos: 7
NumofPoints: 42
TstType: Bidirection   TstMode: CNCManual   Dwell: 3   Window: 0.1
Direction: 0   Humidity: 50   ExpCoef: 10   DeadPath: 100

Position	LasRead	LinearError	Status	AirTmp	AirPress	MatTmp	MatTmp2	MatTmp3
0.00000	0.00010	0.00010	0	24.40	710.34	24.82	-1.00	-1.00
100.00000	99.91283	-0.08717	0	24.39	710.35	24.84	-1.00	-1.00
200.00000	199.88745	-0.11255	0	24.40	710.34	24.85	-1.00	-1.00
300.00000	299.90863	-0.09137	0	24.44	710.35	24.87	-1.00	-1.00
400.00000	399.89502	-0.10498	0	24.47	710.36	24.87	-1.00	-1.00
500.00000	499.82165	-0.17835	0	24.53	710.35	24.89	-1.00	-1.00
600.00000	599.87729	-0.12271	0	24.58	710.36	24.92	-1.00	-1.00
600.00000	599.94457	-0.05543	0	24.58	710.35	24.91	-1.00	-1.00
500.00000	499.94455	-0.05545	0	24.57	710.36	24.89	-1.00	-1.00
400.00000	399.96018	-0.03982	0	24.54	710.36	24.87	-1.00	-1.00
300.00000	299.97818	-0.02182	0	24.51	710.36	24.86	-1.00	-1.00
200.00000	199.95605	-0.04395	0	24.47	710.36	24.85	-1.00	-1.00
100.00000	99.97964	-0.02036	0	24.42	710.37	24.84	-1.00	-1.00
0.00000	-0.01711	-0.01711	0	24.38	710.37	24.84	-1.00	-1.00
0.00000	-0.06794	-0.06794	0	24.33	710.36	24.81	-1.00	-1.00
100.00000	99.91860	-0.08140	0	24.28	710.37	24.78	-1.00	-1.00
200.00000	199.89511	-0.10489	0	24.25	710.36	24.79	-1.00	-1.00
300.00000	299.91793	-0.08207	0	24.26	710.36	24.80	-1.00	-1.00
400.00000	399.89581	-0.10419	0	24.31	710.36	24.80	-1.00	-1.00
500.00000	499.84386	-0.15614	0	24.35	710.39	24.82	-1.00	-1.00
600.00000	599.94374	-0.05626	0	24.43	710.39	24.81	-1.00	-1.00
600.00000	599.94341	-0.05659	0	24.46	710.38	24.80	-1.00	-1.00
500.00000	499.94217	-0.05783	0	24.49	710.39	24.80	-1.00	-1.00
400.00000	399.95893	-0.04107	0	24.50	710.39	24.77	-1.00	-1.00
300.00000	299.97884	-0.02116	0	24.49	710.40	24.75	-1.00	-1.00
200.00000	199.95722	-0.04278	0	24.48	710.40	24.73	-1.00	-1.00
100.00000	99.98035	-0.01965	0	24.47	710.40	24.72	-1.00	-1.00
0.00000	-0.01640	-0.01640	0	24.45	710.41	24.71	-1.00	-1.00
0.00000	-0.06855	-0.06855	0	24.41	710.42	24.68	-1.00	-1.00
100.00000	99.91885	-0.08115	0	24.35	710.45	24.63	-1.00	-1.00
200.00000	199.89525	-0.10475	0	24.36	710.45	24.63	-1.00	-1.00
300.00000	299.92229	-0.07771	0	24.38	710.44	24.63	-1.00	-1.00
400.00000	399.89692	-0.10308	0	24.50	710.46	24.70	-1.00	-1.00
500.00000	499.86232	-0.13768	0	24.53	710.47	24.70	-1.00	-1.00
600.00000	599.90072	-0.09928	0	24.28	710.49	24.57	-1.00	-1.00
600.00000	599.95697	-0.04303	0	24.26	710.50	24.55	-1.00	-1.00
500.00000	499.95245	-0.04755	0	24.31	710.50	24.56	-1.00	-1.00
400.00000	399.96800	-0.03200	0	24.34	710.51	24.59	-1.00	-1.00
300.00000	299.98910	-0.01090	0	24.39	710.53	24.61	-1.00	-1.00
200.00000	199.96634	-0.03366	0	24.44	710.54	24.63	-1.00	-1.00
100.00000	99.98763	-0.01237	0	24.48	710.54	24.65	-1.00	-1.00
0.00000	-0.01062	-0.01062	0	24.51	710.54	24.68	-1.00	-1.00

DecimalPoints: 4
HardwareNo: 4   WaveLength: 0.000632990427

Comments: None
Laser status comments:
        Laser status = 0 -------------> Laser Normal
        Laser status = 1 --------------> Warm Up
        Laser status = 2 -------------> Path Error
        Laser status = 3 -------------> Over Speed
        Laser status = 4 -------------> Wireless Error

ErrorUnit: mm
ZeroOffset: Off
API Linear Error Compensation Table

Position	Bidirectional Avg Error
0.000000	-0.030087
100.000000	-0.050350
200.000000	-0.073764
300.000000	-0.050832
400.000000	-0.070862
500.000000	-0.105494
600.000000	-0.072215

Position	Forward Directional Avg Error
0.000000	-0.045463
100.000000	-0.083239
200.000000	-0.107396
300.000000	-0.083710
400.000000	-0.104085
500.000000	-0.157379
600.000000	-0.092753

Position	Backward Directional Avg Error
600.000000	-0.051676
500.000000	-0.053609
400.000000	-0.037638
300.000000	-0.017955
200.000000	-0.040131
100.000000	-0.017461
0.000000	-0.014710

API Linear Standard Deviation Error Table

Position	Mean	Stdev	Mean+2*sigma	Mean-2*sigma
0.000000	-0.030087	0.030193	0.030300	-0.090473
100.000000	-0.050350	0.036201	0.022052	-0.122752
200.000000	-0.073764	0.037122	0.000481	-0.148008
300.000000	-0.050832	0.036491	0.022151	-0.123815
400.000000	-0.070862	0.036532	0.002202	-0.143925
500.000000	-0.105494	0.058378	0.011262	-0.222250
600.000000	-0.072215	0.031347	-0.009522	-0.134908

API Linear Data Analysis Table
<ASME B5.54-1992>
Displacement Accuracy: 0.142669
Max B (Reversal): 0.103770
Max Repeatability: 0.157841

<Environment>
Average Air Temperature: 24.4
Average Material(1) Temperature: 24.8

Average Material(2) Temperature: N/A
Average Material(3) Temperature: N/A
Average Air Pressure: 710.4
Travel Length: 600.0000