

NXT/AIM Placing accuracy of the machine

Customer: M3
 Module type: M3
 Module XNo: M3XNo9686
 Head type: H08
 Head XNo: 002325

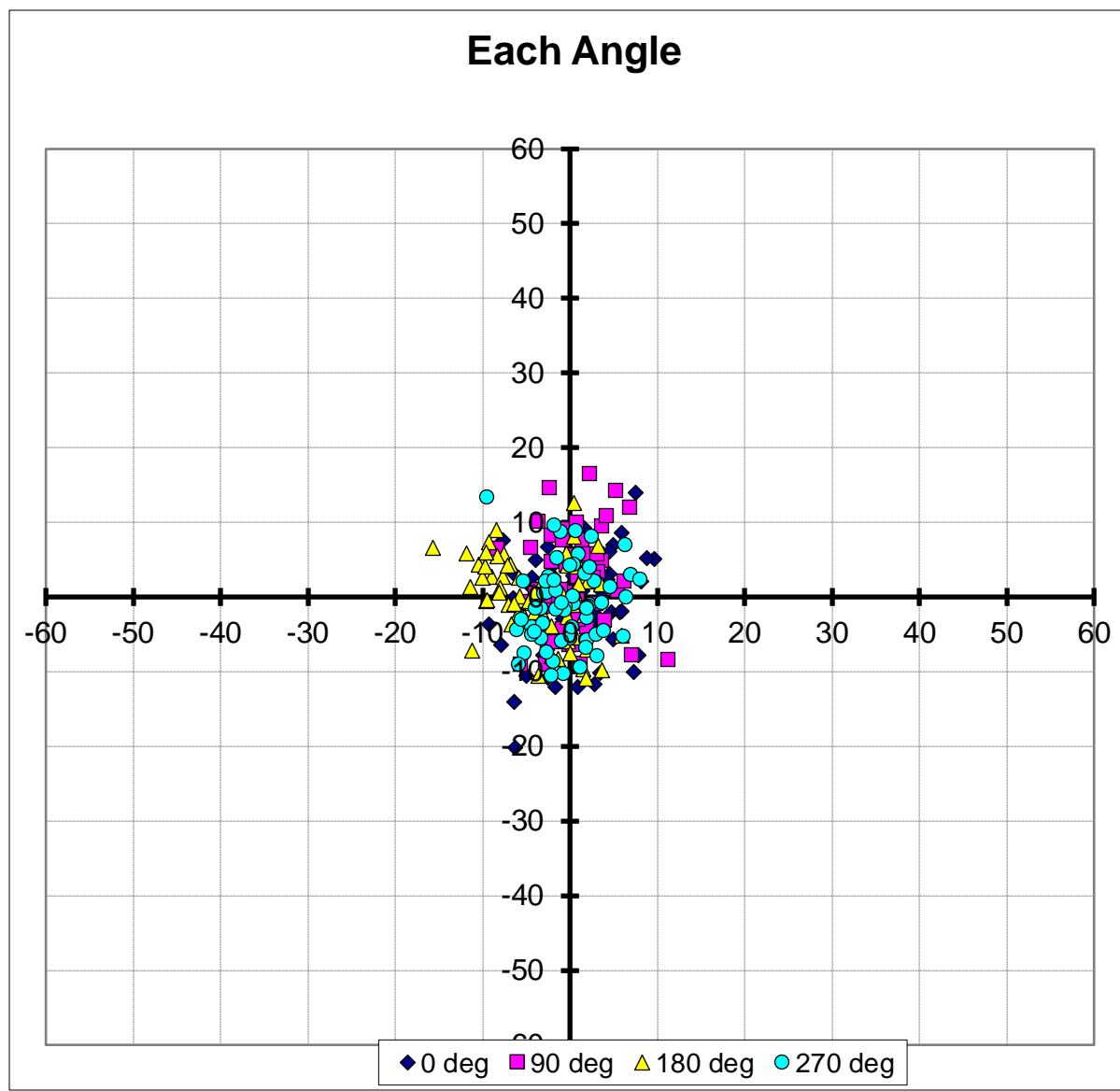
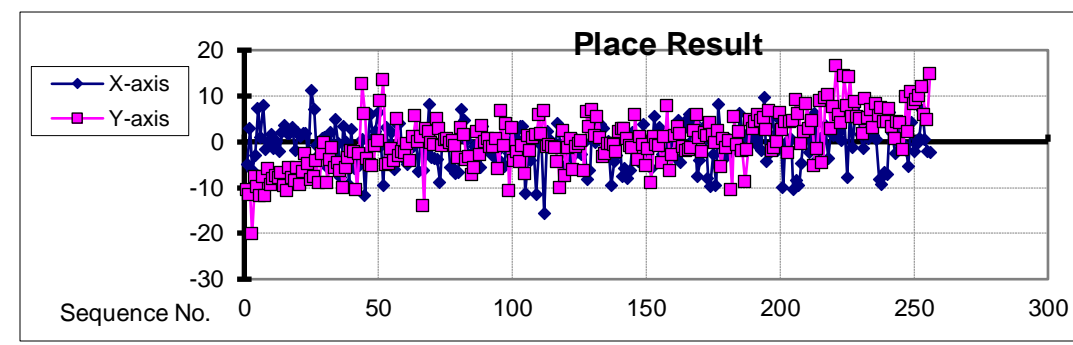
Product No: 256
 Total SeqNum: 256
 Measure SeqNum: 256
 Parts Type: 1005 PAM
 Measurement mode: Pam mode

Approval	Charge

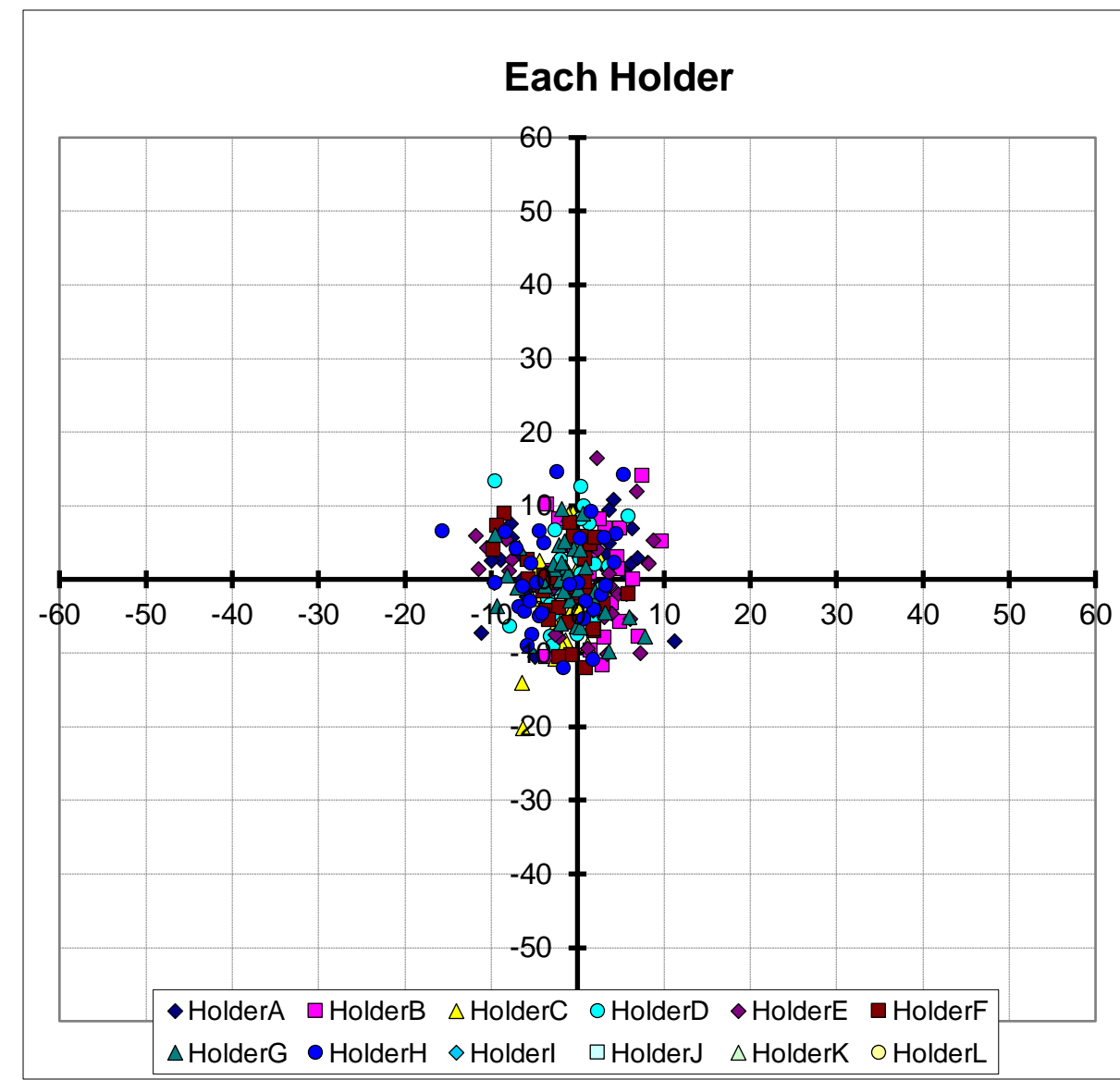
3σ許容値をM6SP用にする

	X	Y
Ave + 3Sigma	14	18
Cpk	3.685	2.862
CPK coeff = 50		
Cp value	3.751	2.870

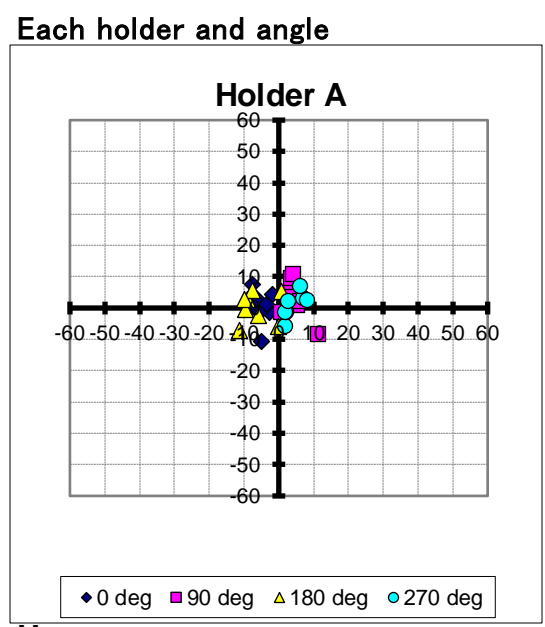
Total	(X,Y[um] Q[deg])		
Average	-1	0	0.021
3Sigma	13	17	0.689
Maximum	11	16	0.743
Minimum	-16	-20	-0.791



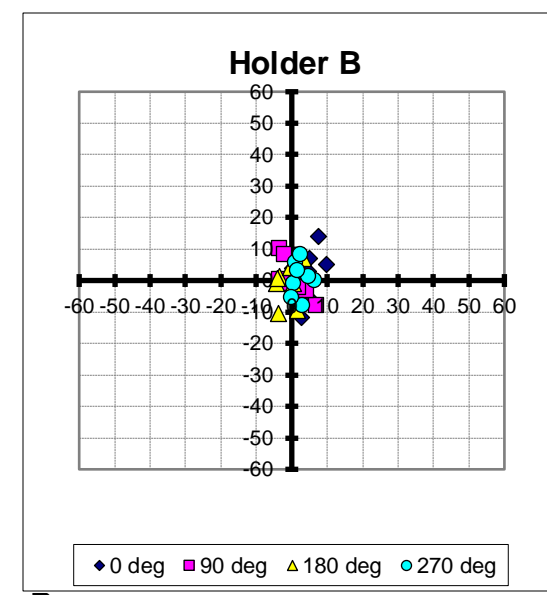
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	0	-1	0.055	14	19	0.566
90	0	1	-0.017	10	18	0.571
180	-4	0	0.029	14	15	0.959
270	0	-1	0.016	11	16	0.577



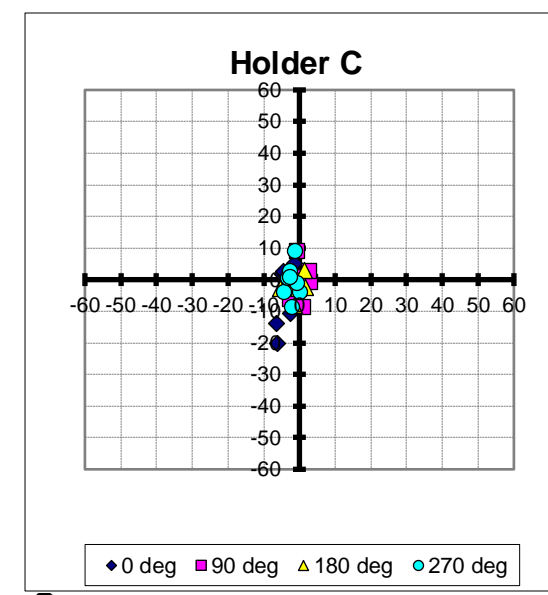
Holder	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
A	-1	1	-0.084	18	15	0.600
B	1	0	0.000	11	19	0.636
C	-2	-2	0.006	7	18	0.570
D	-1	1	0.106	9	18	0.835
E	0	0	0.076	18	18	0.859
F	-2	-1	0.098	11	17	0.564
G	-1	0	-0.008	12	15	0.558
H	-2	0	-0.026	14	20	0.682



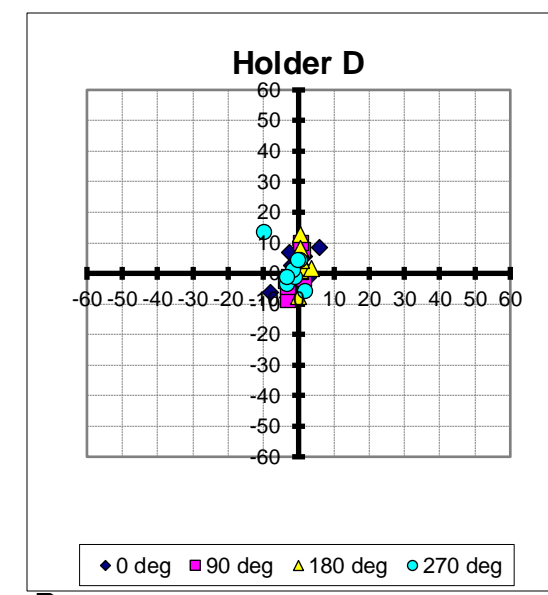
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	-5	0	-0.033	6	16	0.335
90	5	3	-0.076	9	18	0.295
180	-7	0	-0.283	13	15	0.749
270	4	1	0.058	8	11	0.438



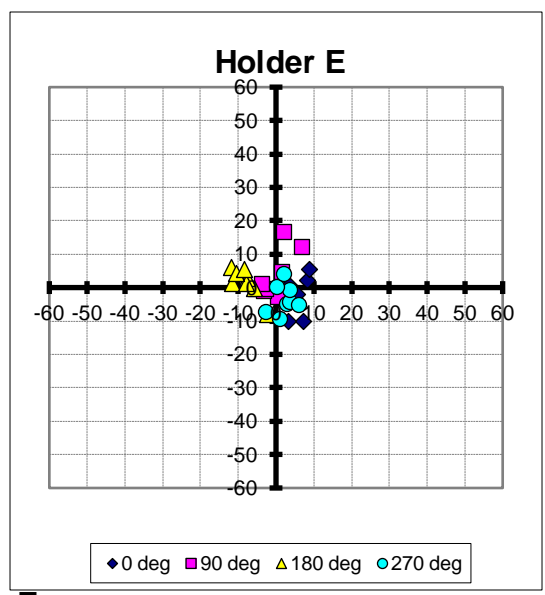
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	5	2	0.100	9	24	0.682
90	0	1	-0.045	11	18	0.374
180	-1	-1	-0.032	9	18	0.751
270	-3	0	-0.023	7	16	0.697



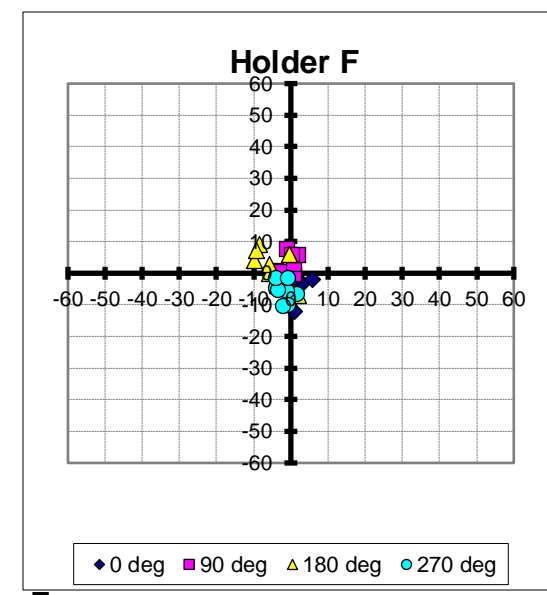
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	-3	-5	0.034	7	28	0.286
90	0	-1	0.065	7	17	0.450
180	-1	-2	-0.081	7	10	0.925
270	-2	-1	0.006	4	16	0.420



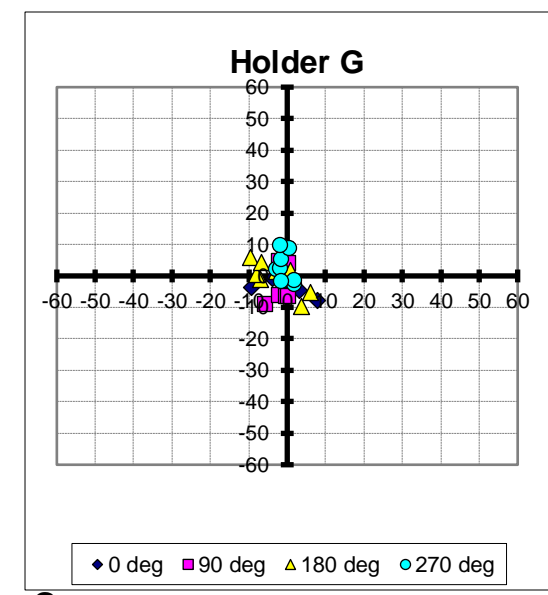
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	-1	1	0.137	13	18	0.686
90	-1	0	-0.002	6	19	0.651
180	1	3	0.285	4	18	0.893
270	-2	1	0.004	11	18	0.911



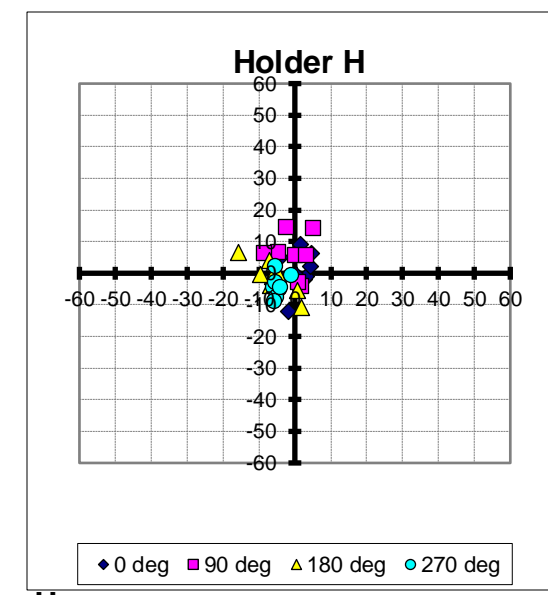
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	5	-3	-0.025	7	17	0.717
90	0	4	0.042	12	21	0.677
180	-8	2	0.409	10	13	0.657
270	2	-4	-0.120	8	13	0.459



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	1	-3	-0.024	8	14	0.501
90	-1	2	0.070	7	12	0.659
180	-5	2	0.183	13	17	0.628
270	-2	-6	0.165	6	10	0.214



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	-1	-2	0.095	15	9	0.372
90	-1	-2	-0.111	6	17	0.568
180	-3	0	-0.045	18	15	0.585
270	-1	3	0.027	6	14	0.574



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	1	1	0.155	9	20	0.654
90	0	6	-0.076	13	20	0.714
180	-6	-1	-0.202	17	16	0.396
270	-5	-4	0.011	5	11	0.518

NXT/AIM Placing accuracy of the machine

Customer:
 Module type: M3
 Module XNo: M3XNo9685
 Head type: H08
 Head XNo: 002325

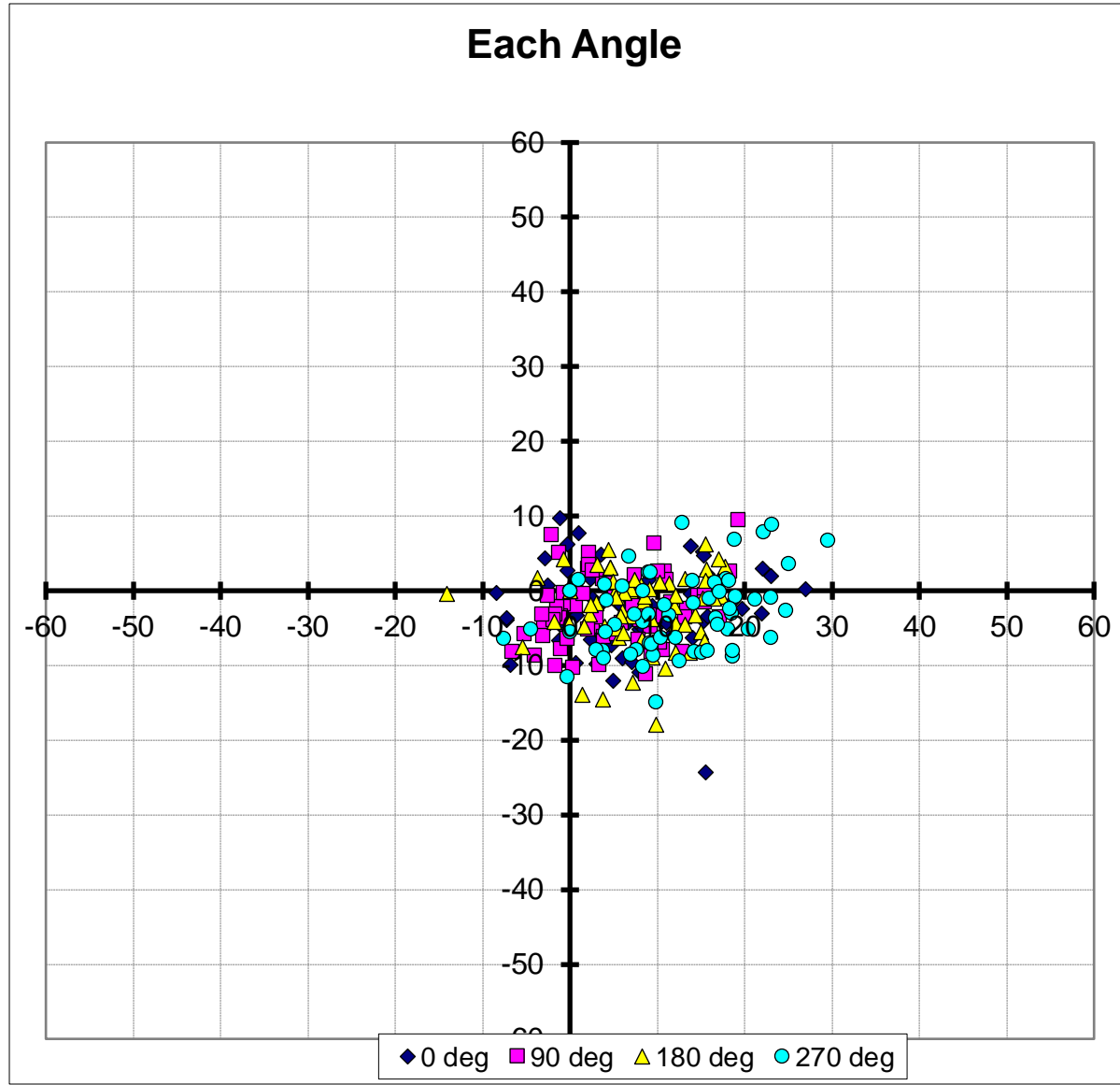
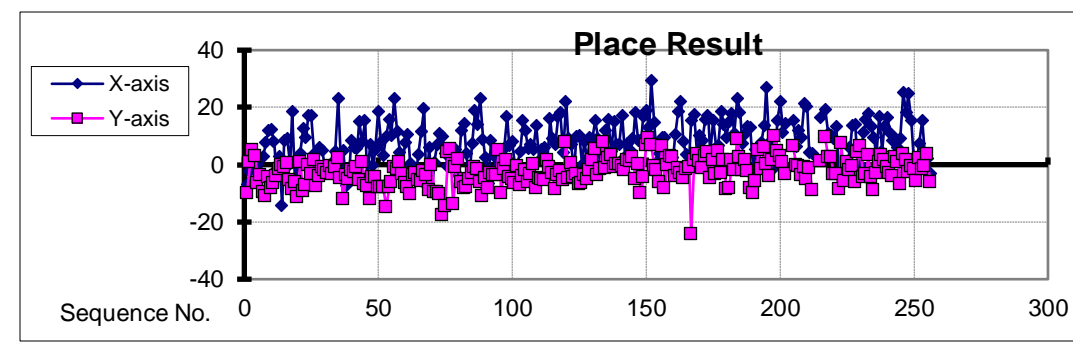
Product No:
 Total SeqNum: 256
 Measure SeqNum: 251
 Parts Type: 1005 PAM
 Measurement mode: Pam mode

Approval	Charge

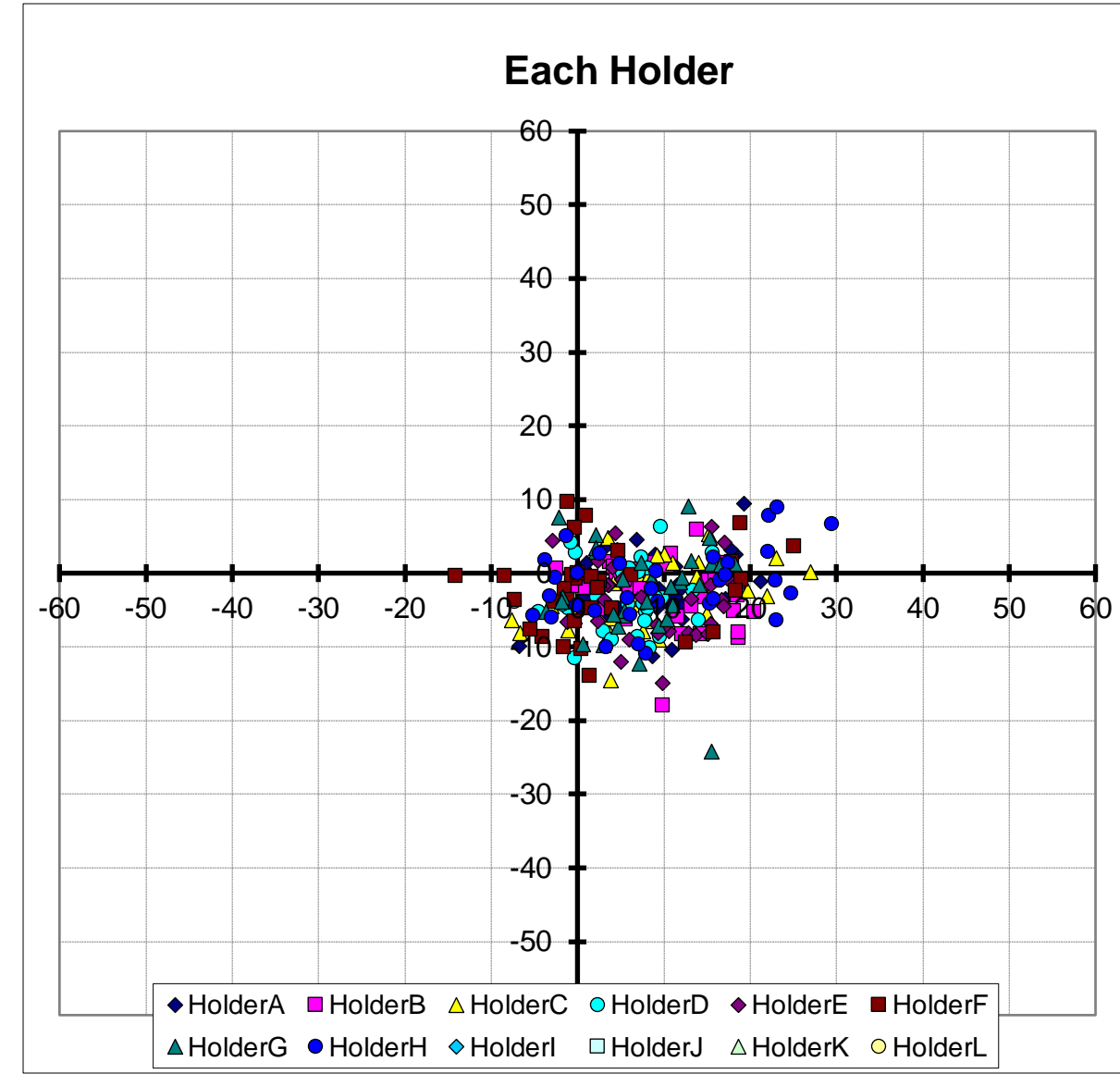
□ 3σ許容値をM6SP用にする

	X	Y
Ave + 3Sigma	31	18
Cpk	1.847	3.145
CPK coeff = 50		
Cp value	2.196	3.320

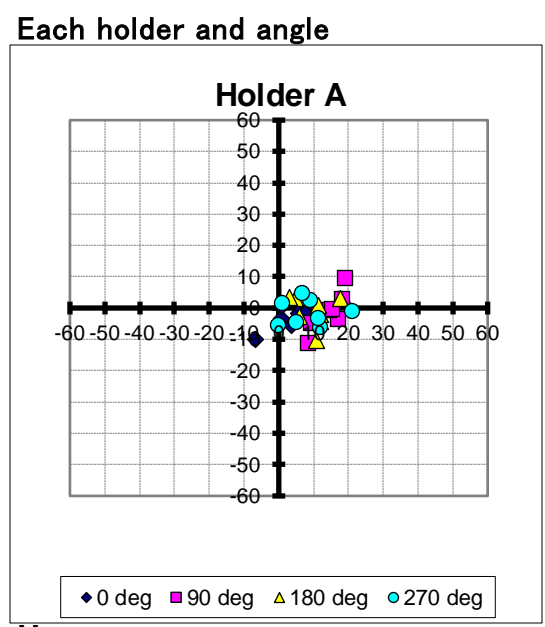
Total	(X, Y [um] Q [deg])		
Average	8	-3	-0.025
3Sigma	23	15	0.717
Maximum	30	10	0.748
Minimum	-14	-24	-0.643



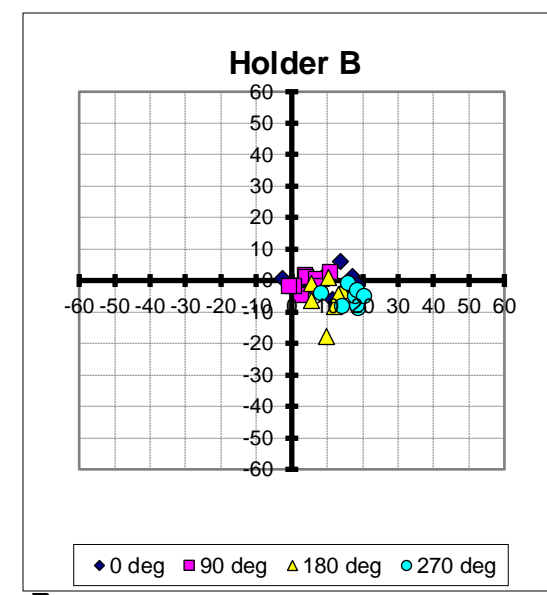
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	7	-2	-0.001	24	16	0.636
90	5	-3	-0.044	19	14	0.648
180	8	-2	0.026	19	15	0.850
270	12	-3	-0.082	23	16	0.691



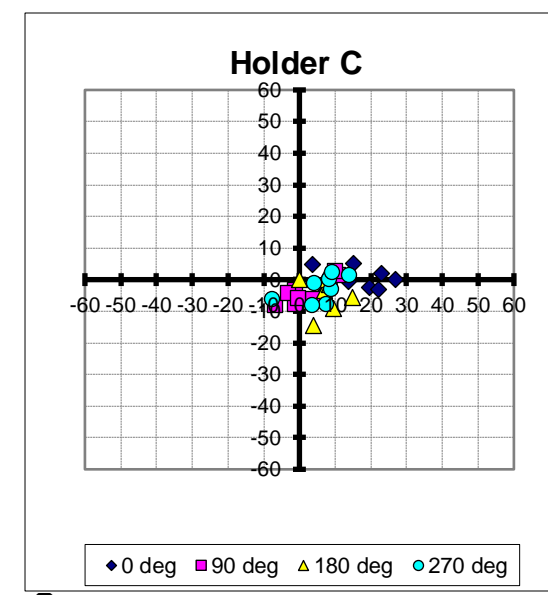
Holder	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
A	9	-2	-0.096	19	13	0.547
B	10	-3	0.023	19	13	0.801
C	8	-3	-0.002	25	14	0.580
D	6	-3	-0.075	16	13	0.699
E	9	-4	-0.094	18	15	0.838
F	3	-2	0.002	28	17	0.623
G	8	-3	0.004	18	19	0.742
H	10	-2	0.041	30	15	0.791



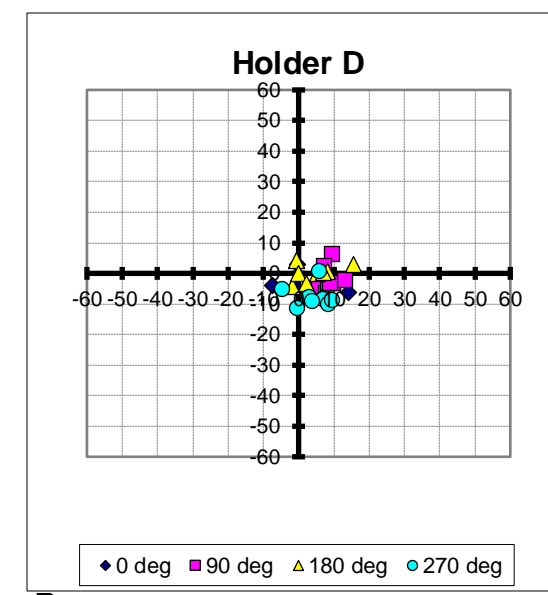
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	4	-4	-0.193	17	10	0.407
90	14	-1	-0.049	12	18	0.565
180	10	-1	-0.002	14	14	0.496
270	8	-2	-0.135	20	12	0.599



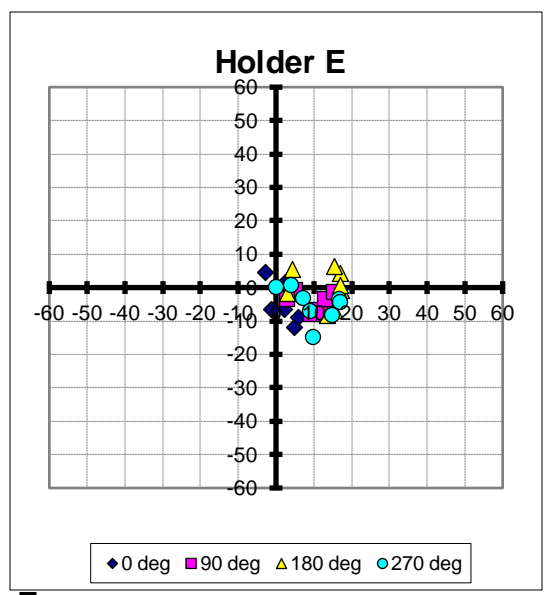
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	10	0	0.173	21	10	0.620
90	4	-1	-0.219	11	7	0.706
180	11	-5	0.165	11	18	0.820
270	17	-5	-0.031	12	8	0.455



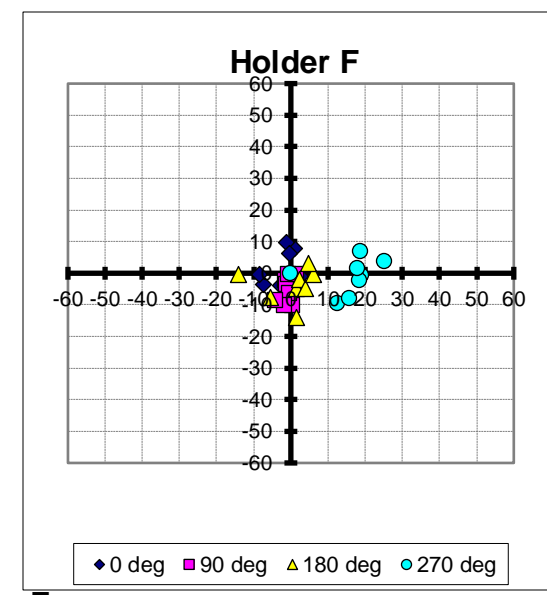
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	16	0	0.051	24	11	0.503
90	2	-4	0.025	19	12	0.427
180	8	-6	0.036	10	15	0.435
270	6	-3	-0.117	19	12	0.813



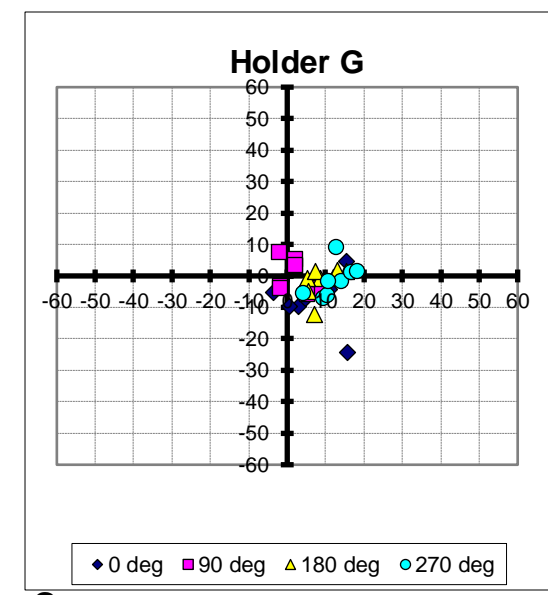
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	5	-4	-0.106	21	8	0.694
90	2	-2	0.032	7	12	0.843
180	5	0	-0.077	18	9	0.681
270	4	-8	-0.148	14	11	0.568



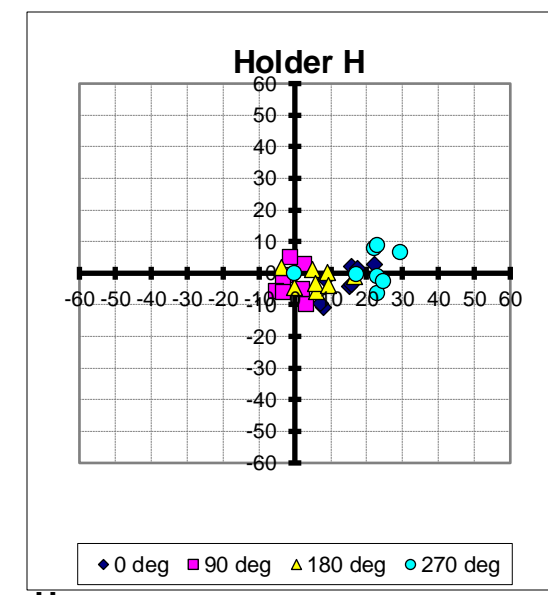
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	2	-4	0.027	9	17	0.569
90	10	-5	-0.088	12	9	0.608
180	13	0	-0.402	17	16	0.625
270	11	-6	0.115	15	15	0.689



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	-2	2	0.005	12	16	0.742
90	-1	-5	-0.149	5	13	0.459
180	0	-4	0.037	20	16	0.580
270	18	-1	0.128	11	18	0.454



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	7	-7	-0.027	21	25	0.321
90	2	0	0.076	11	15	0.565
180	9	-2	0.166	11	14	0.778
270	12	-1	-0.201	13	16	0.805



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	14	-3	0.063	16	16	0.674
90	-1	-3	0.023	9	15	0.649
180	6	-2	0.276	18	8	0.674
270	23	2	-0.232	11	18	0.356

NXT/AIM Placing accuracy of the machine

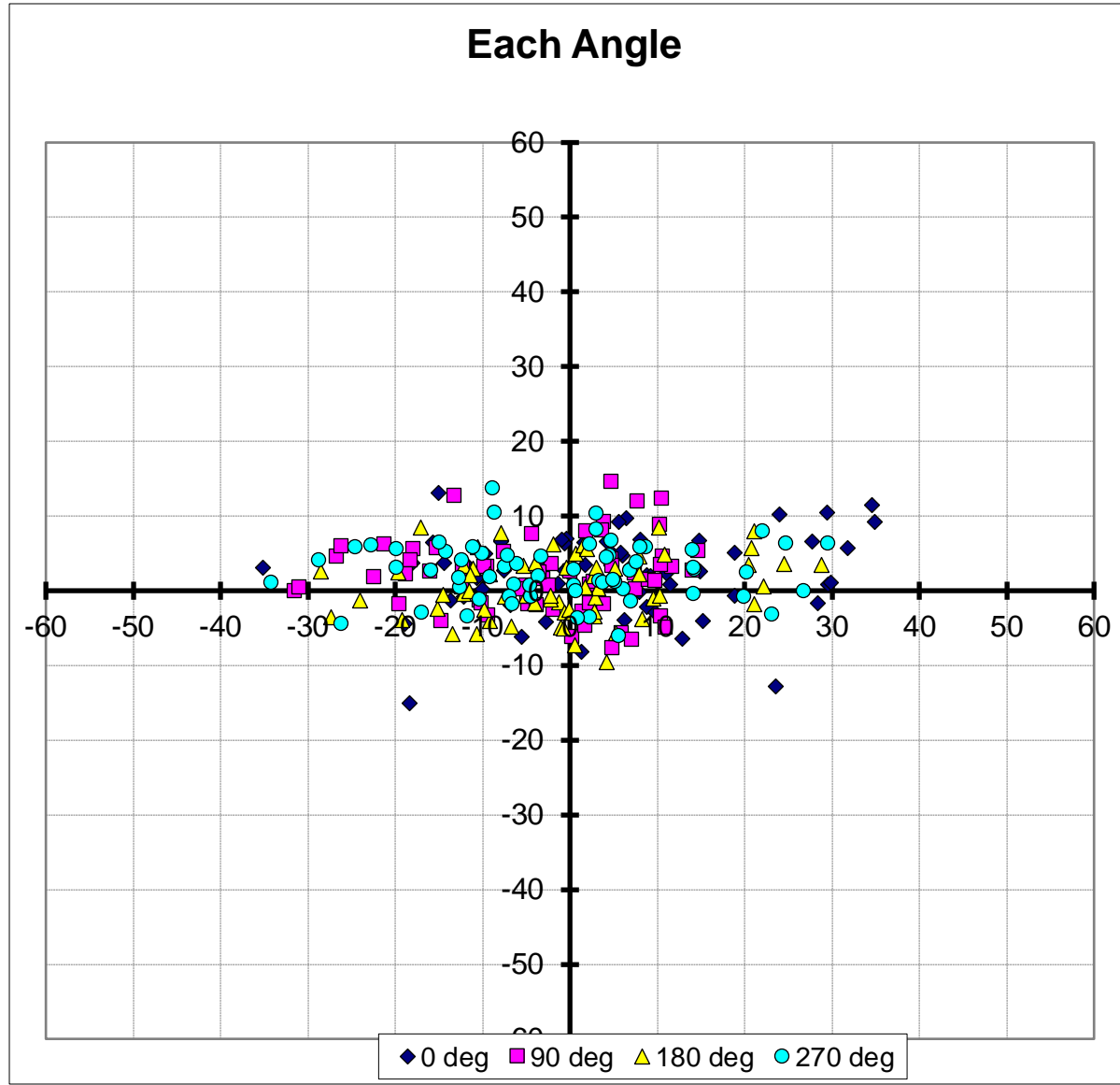
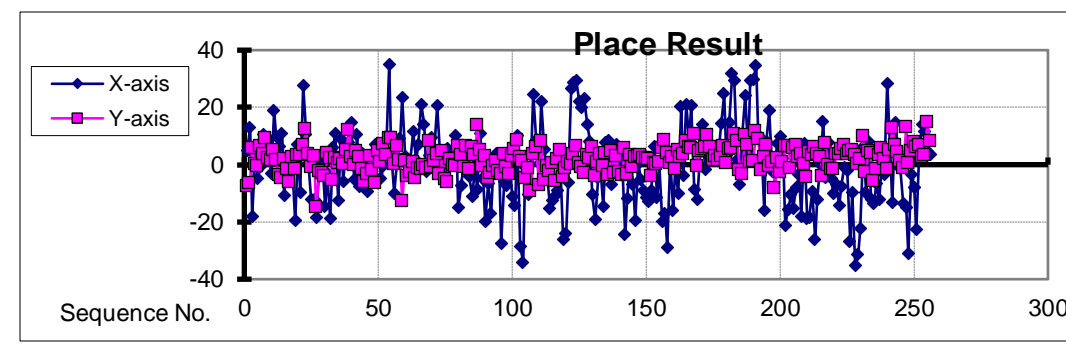
Customer: Product No:
 Module type: M6 Total SeqNum: 256
 Module XNo: M6XNo2706 Measure SeqNum: 256
 Head type: H08 Parts Type: 1005 PAM
 Head XNo: 002325 Measurement mode: Pam mode

Approval	Charge

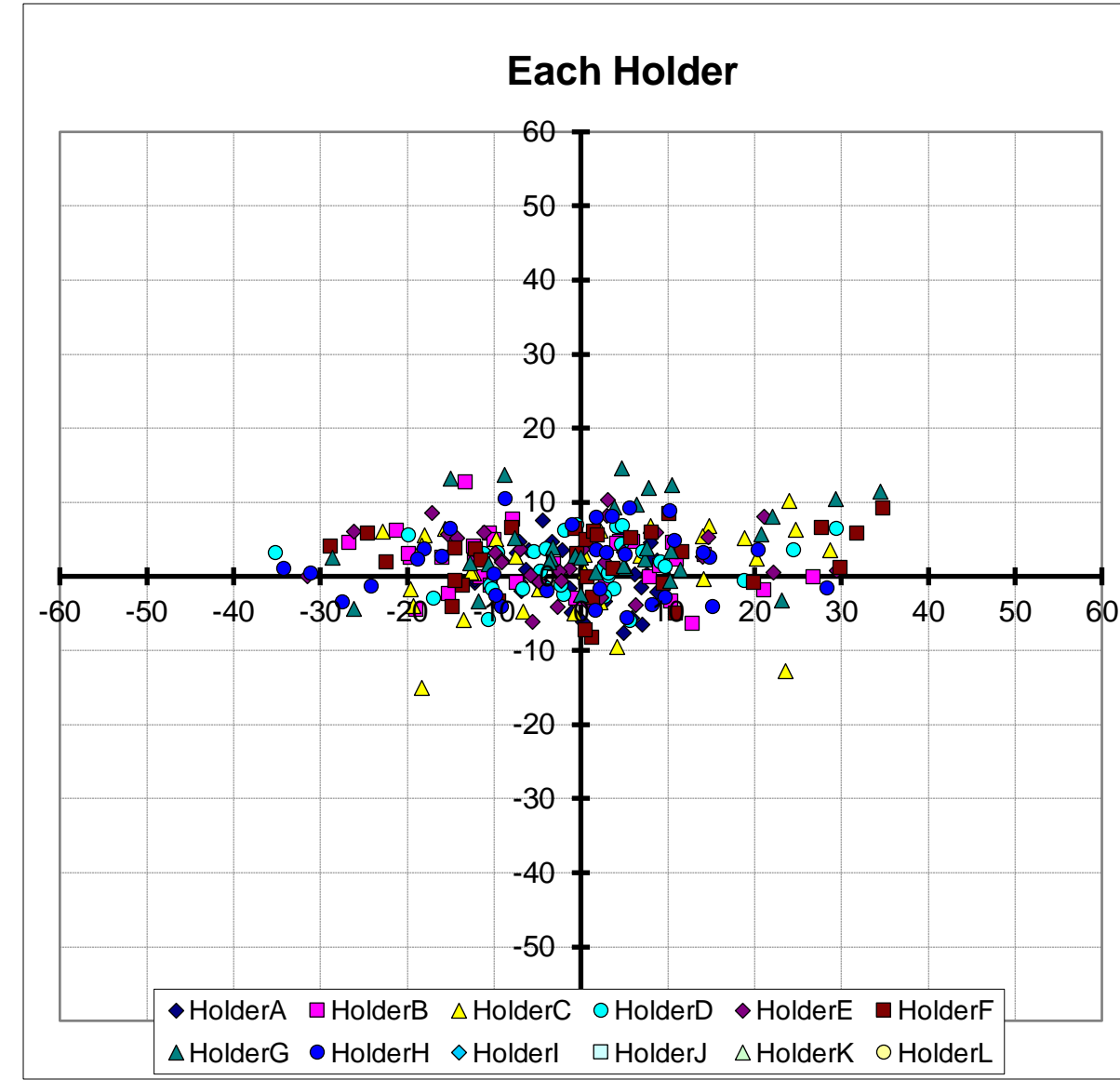
3σ許容値をM6SP用にする

	X	Y
Ave + 3Sigma	41	16
Cpk	1.220	3.463
CPK coeff = 50		
Cp value	1.230	3.596

Total	(X,Y[um] Q[deg])		
Average	0	2	0.058
3Sigma	41	14	0.694
Maximum	35	15	0.781
Minimum	-35	-15	-0.602

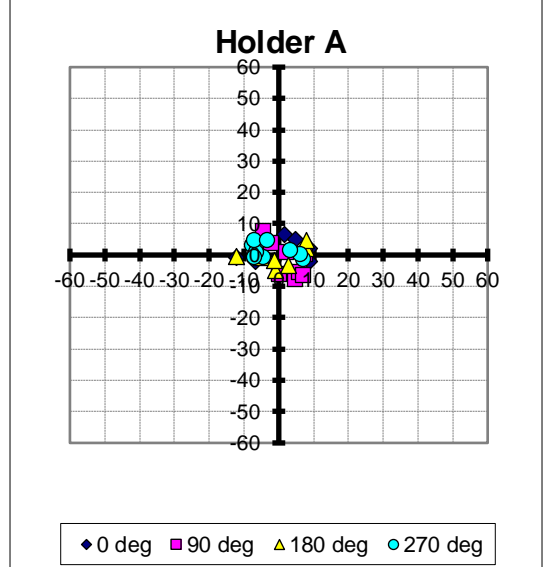


Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	4	2	0.081	45	16	0.745
90	-3	2	0.061	35	14	0.674
180	-1	1	0.067	37	12	0.720
270	-1	3	0.025	42	12	0.636

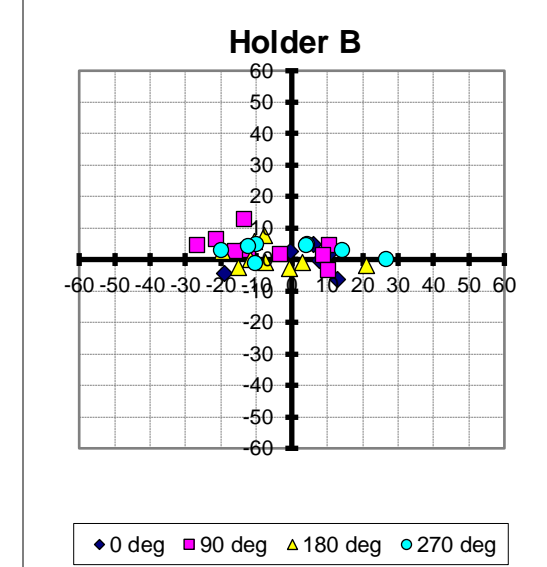


Holder	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
A	0	0	0.060	19	12	0.352
B	-3	2	0.116	41	12	0.674
C	0	1	0.080	46	18	0.449
D	-1	1	0.020	37	11	0.712
E	-2	2	0.059	40	12	0.896
F	1	2	0.141	48	13	0.698
G	3	5	0.018	43	16	0.604
H	-2	2	-0.026	46	14	0.907

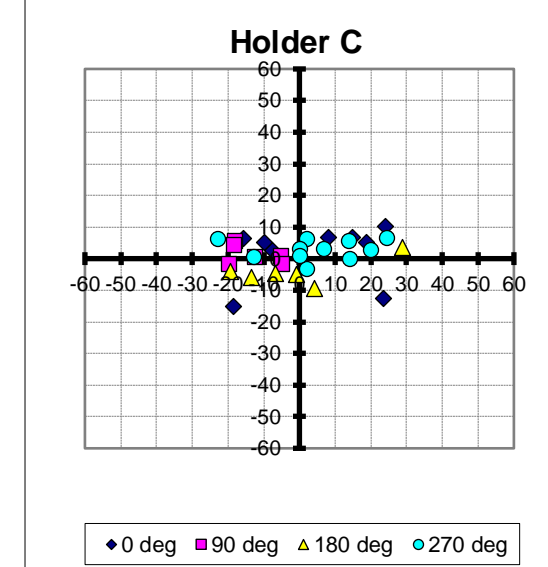
Each holder and angle



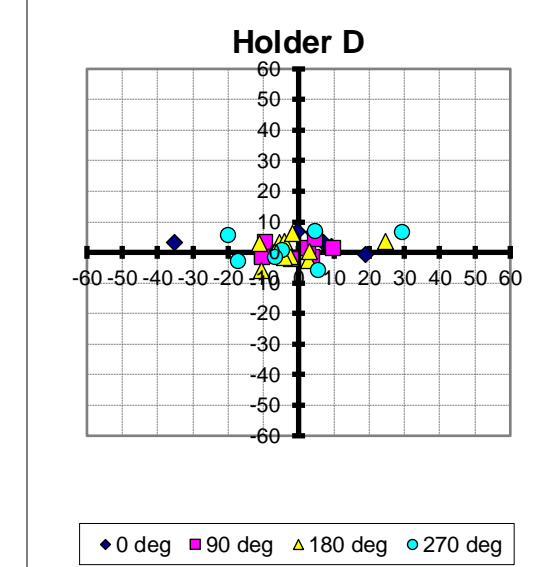
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	0	1	0.108	25	10	0.406
90	3	-2	0.109	13	17	0.191
180	0	-1	-0.015	22	10	0.511
270	-3	2	0.039	17	7	0.192



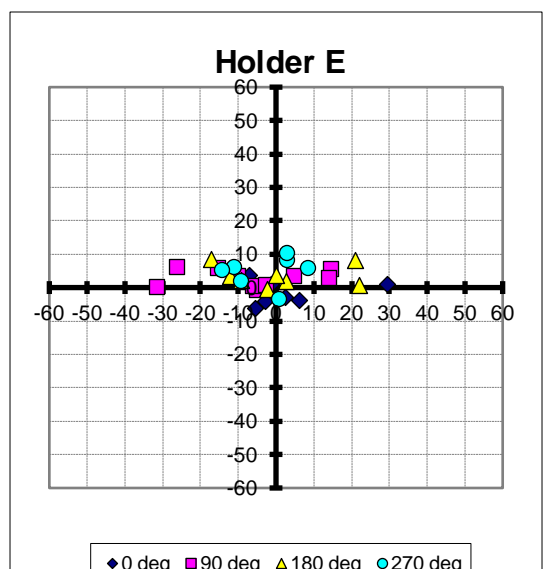
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	-3	0	0.272	35	13	0.791
90	-7	4	0.216	43	13	0.637
180	-5	1	-0.048	36	11	0.311
270	0	3	0.073	47	7	0.598



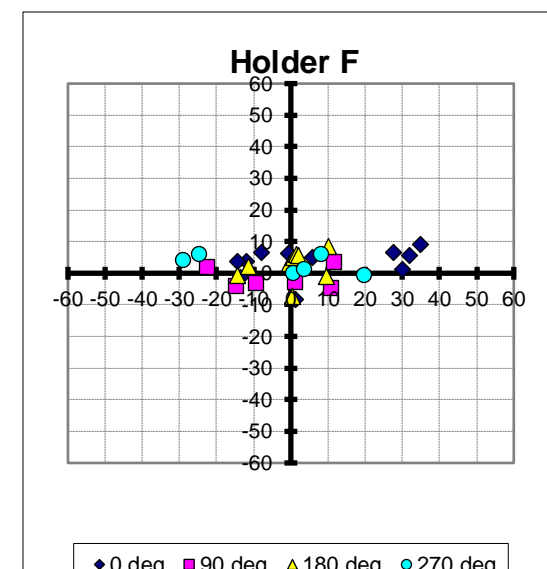
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	4	2	0.128	51	27	0.649
90	-13	1	0.107	20	9	0.272
180	-1	-4	-0.029	51	13	0.272
270	5	-3	0.087	42	10	0.355



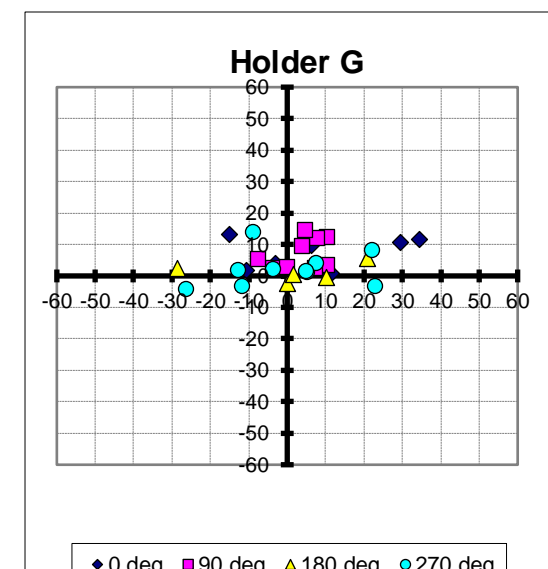
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	1	3	-0.071	51	9	0.845
90	-1	0	-0.057	23	7	0.712
180	-1	1	0.093	30	11	0.631
270	-1	1	0.094	50	15	0.651



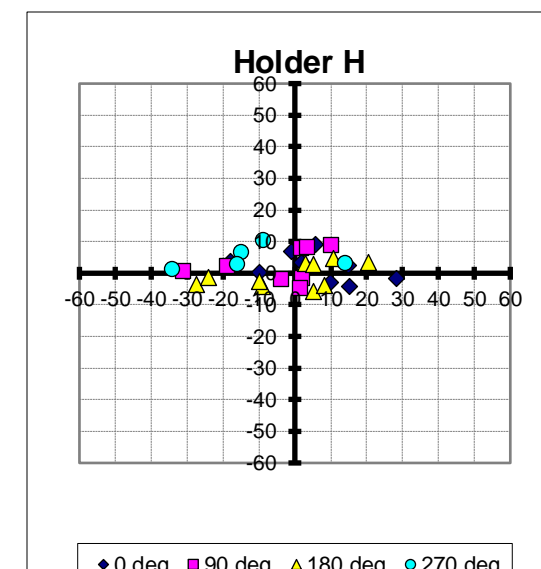
Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	3	-2	-0.004	38	11	0.823
90	-6	3	-0.059	46	8	0.693
180	1	3	0.324	43	10	0.594
270	-3	5	-0.014	26	14	1.089



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	8	4	0.118	59	14	0.624
90	-4	-2	0.203	42	10	0.841
180	0	2	0.094	25	14	0.894
270	-3	3	0.190	57	9	0.378



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	7	7	0.070	54	15	0.507
90	4	7	0.040	19	15	0.460
180	1	1	0.174	55	9	0.525
270	0	2	-0.122	47	17	0.636



Degree	Average			3Sigma		
	X [um]	Y [um]	Q [deg]	X [um]	Y [um]	Q [deg]
0	5	2	0.036	42	13	1.060
90	-4	2	-0.012	41	16	0.894
180	-2	-1	-0.023	46	12	0.959
270	-12	5	-0.164	52	11	0.601