Result summary, page 1

Results from ServoTest Rev 1.32
Ola Fremming 2025

General

Servo type:	MKS HV6125E
Test date:	11-05-2025

Test conditions

Signal freq:	50 [Hz]
Supply voltage:	8.0 [V]

General results

Sensitivity:	99 [°/ms]
Update freq:	600 [Hz]
Non-linearity:	1.31 [%FS]
Dead-band:	7.3 [µs]
Repetition dev.:	0.006 [°]

Static deviation

#	[kgcm]	[°]	[mA]
1	0.0	0.00	8
2	0.5	0.17	147
3	1.0	0.41	262
4	1.5	0.92	391
5	2.0	1.42	508
6	2.5	2.02	659
7	3.0	2.50	678

Result summary, page 2

Results from ServoTest Rev 1.32
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Accuracy

#	[kgcm]	[°]
1	0.0	0.43
2	0.5	0.75
3	1.0	1.63
4	1.5	2.83
5	2.0	4.08
6	2.5	5.64
7	3.0	22.92

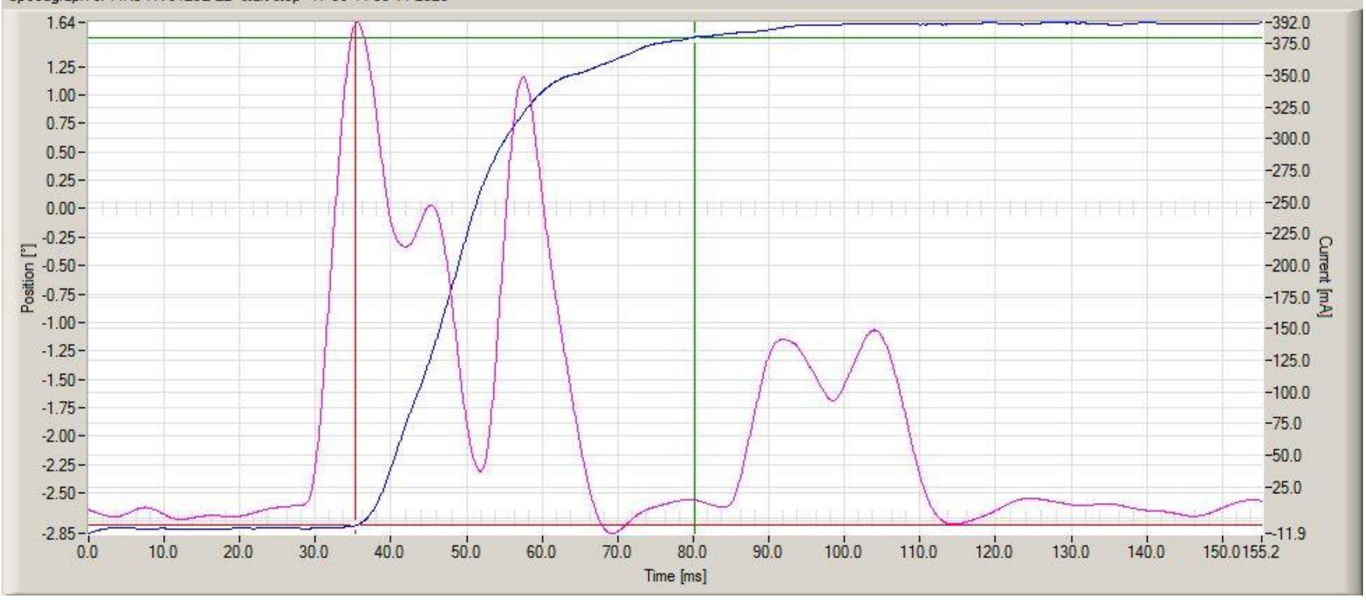
Sweep speed

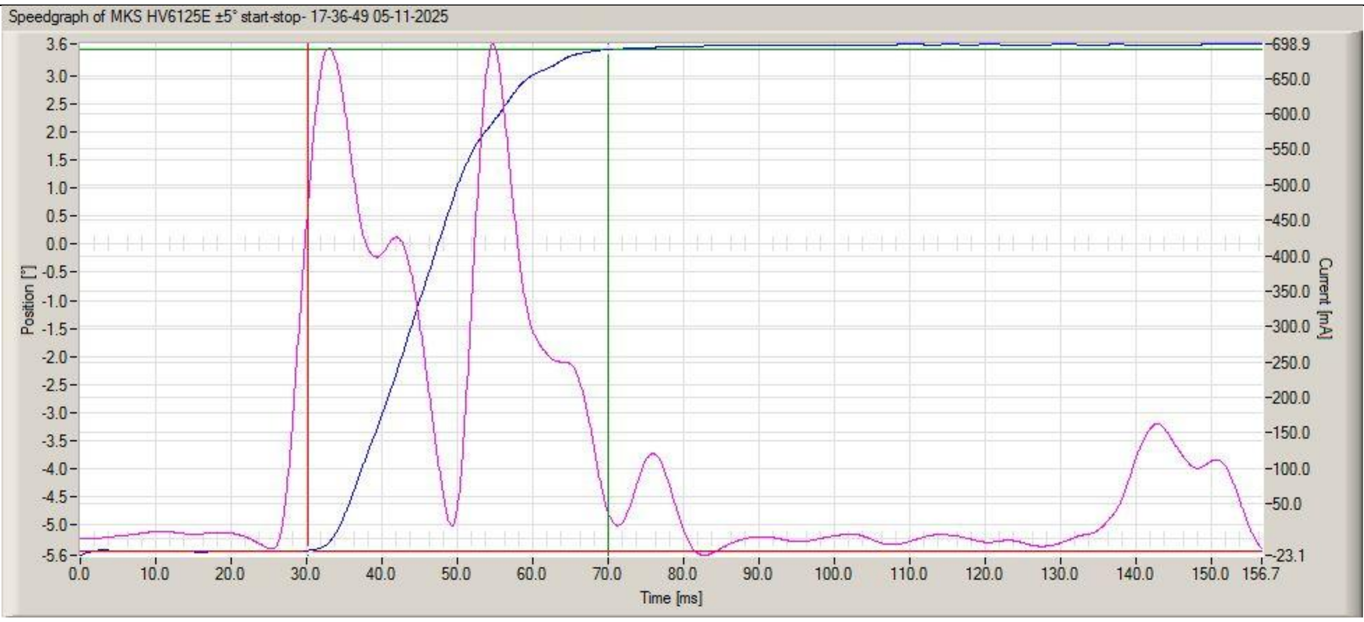
#	[kgcm]	[s/60°]
1	0.0	0.057
2	0.5	0.068
3	1.0	0.083
4	1.5	0.111
5	2.0	0.188

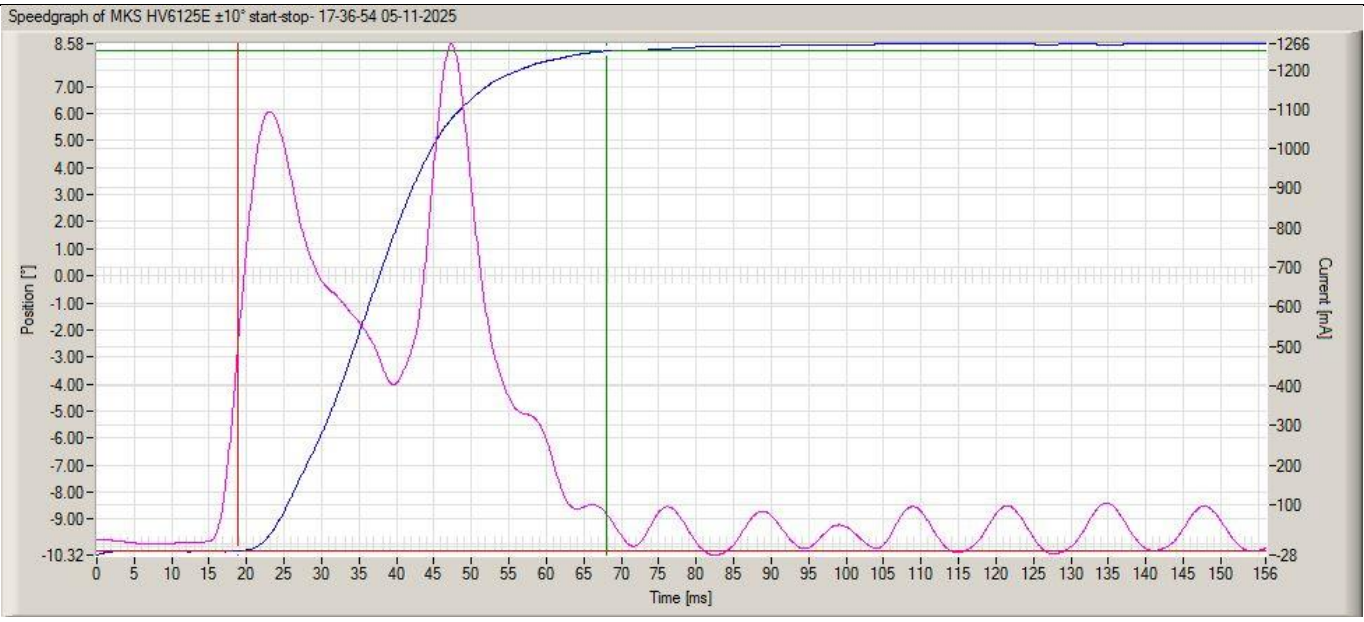
Start-stop speed

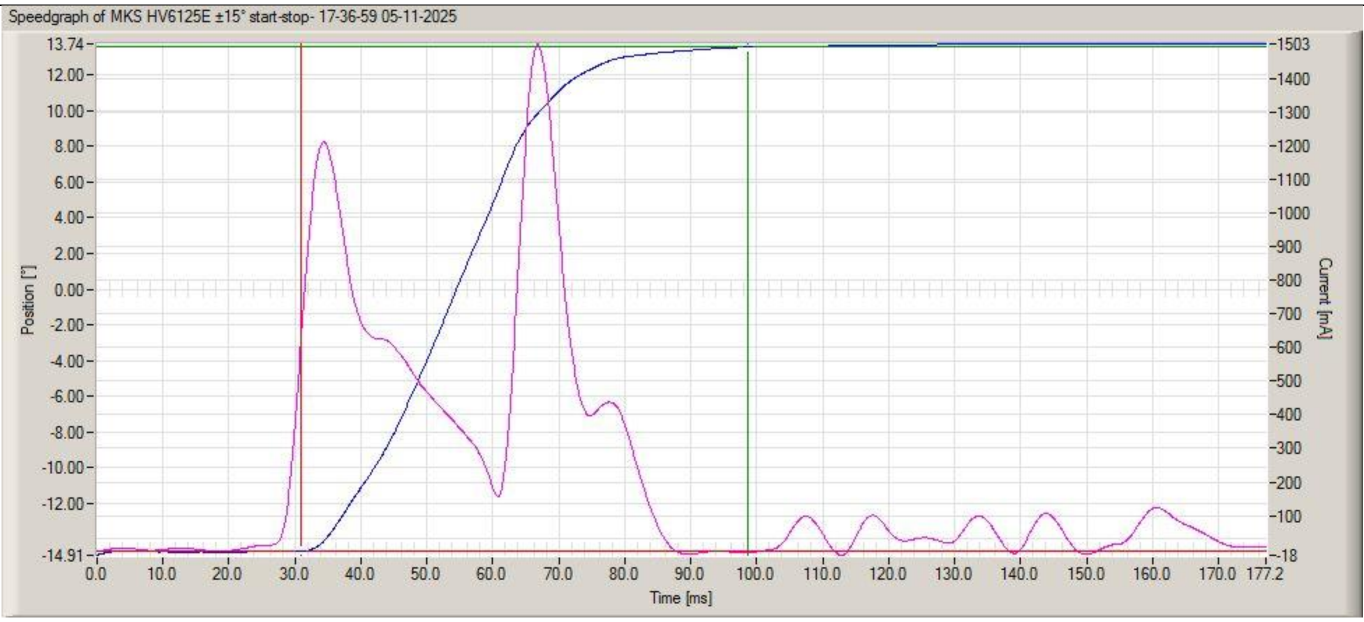
#	±[°]	[s]
1	2.5	0.052
2	5.0	0.045
3	10.0	0.053
4	15.0	0.072
5	20.0	0.080
6	25.0	0.098
7	30.0	0.098

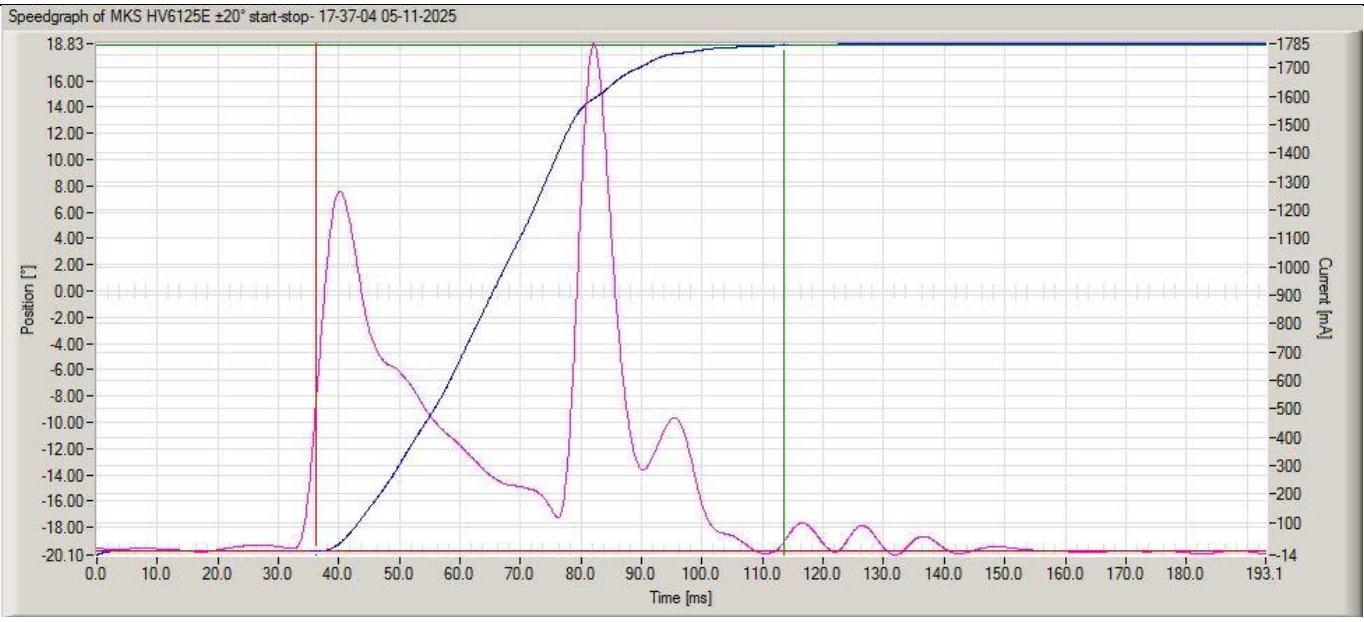
Speedgraph of MKS HV6125E ±2° start-stop- 17-36-44 05-11-2025

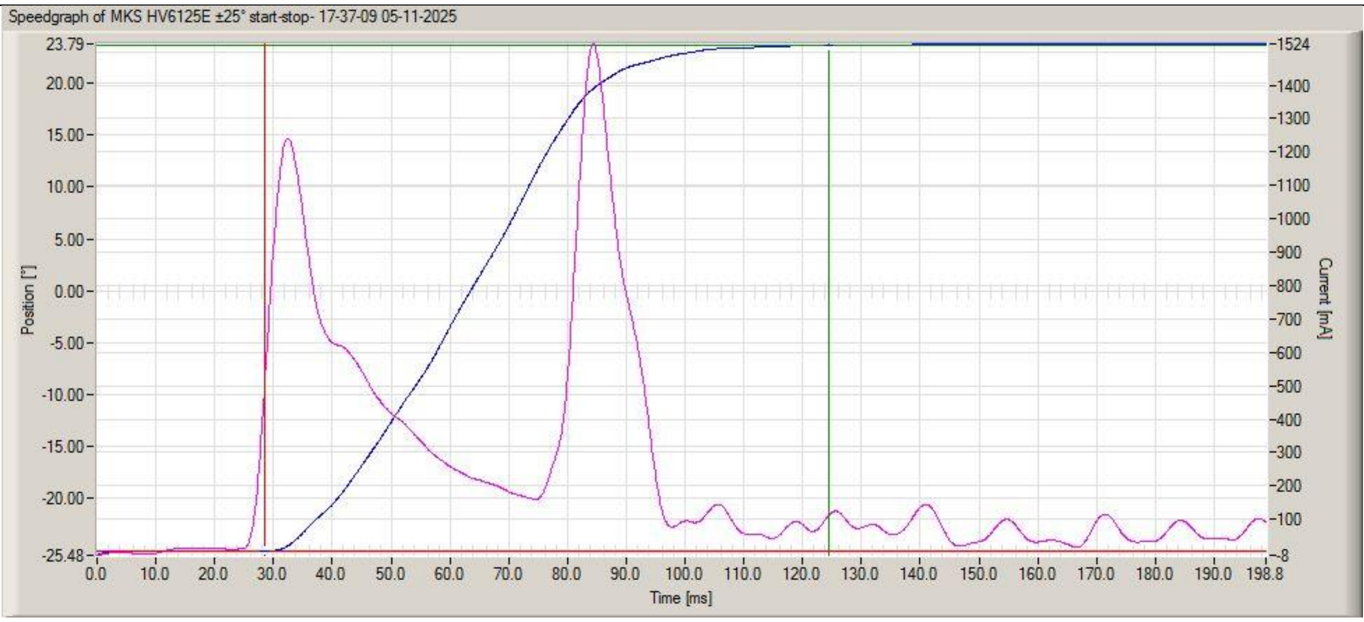


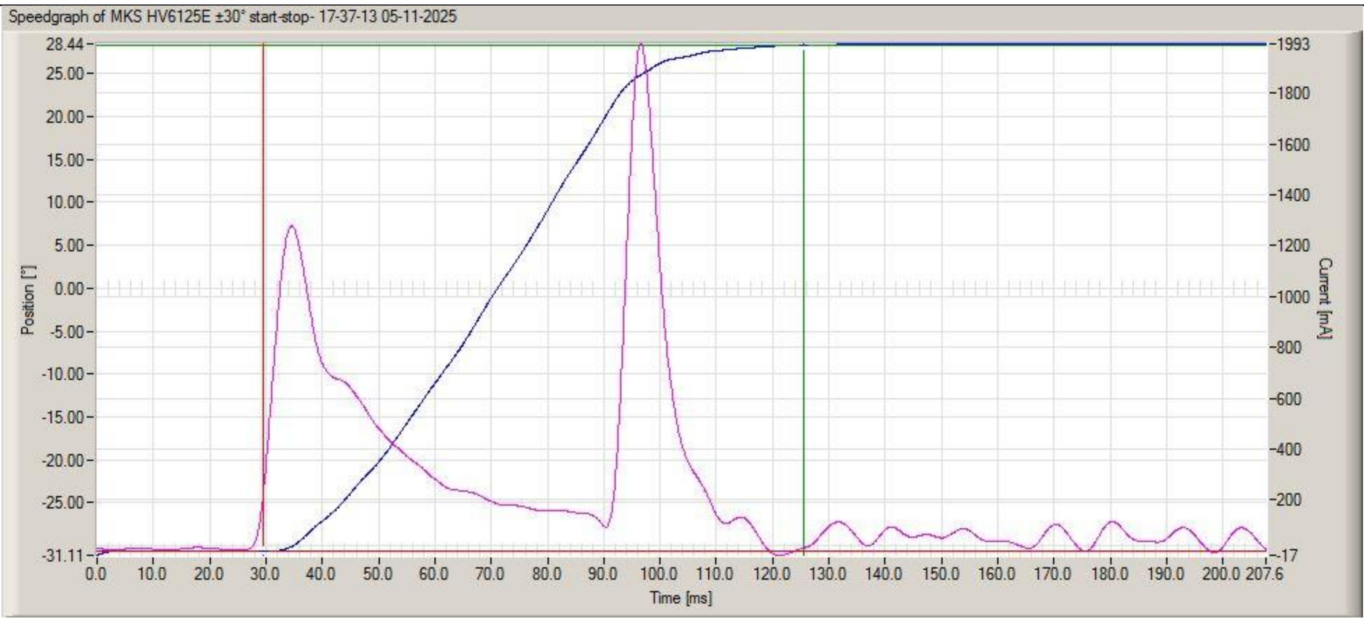

Speedgraph of MKS HV6125E ±5° start-stop- 17-36-49 05-11-2025
Position [°]
Current [mA]
Time [ms]
3.6
3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0
-1.5
-2.0
-2.5
-3.0
-3.5
-4.0
-4.5
-5.0
-5.6
698.9
650.0
600.0
550.0
500.0
450.0
400.0
350.0
300.0
250.0
200.0
150.0
100.0
50.0
23.1
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
130.0
140.0
150.0
156.7

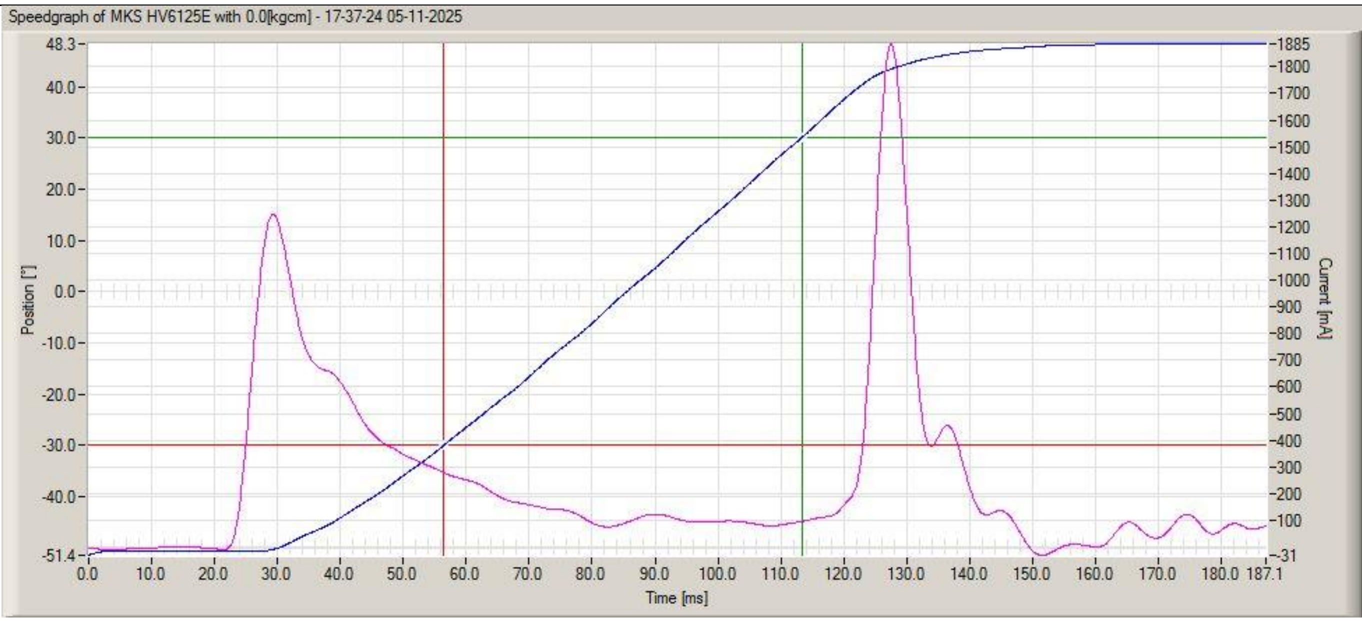

Speedgraph of MKS HV6125E ±10° start-stop- 17-36-54 05-11-2025
Position [°]
Current [mA]
Time [ms]
8.58
7.00
6.00
5.00
4.00
3.00
2.00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
-8.00
-9.00
-10.32
1266
1200
1100
1000
900
800
700
600
500
400
300
200
100
28
0
5
10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100
105
110
115
120
125
130
135
140
145
150
156

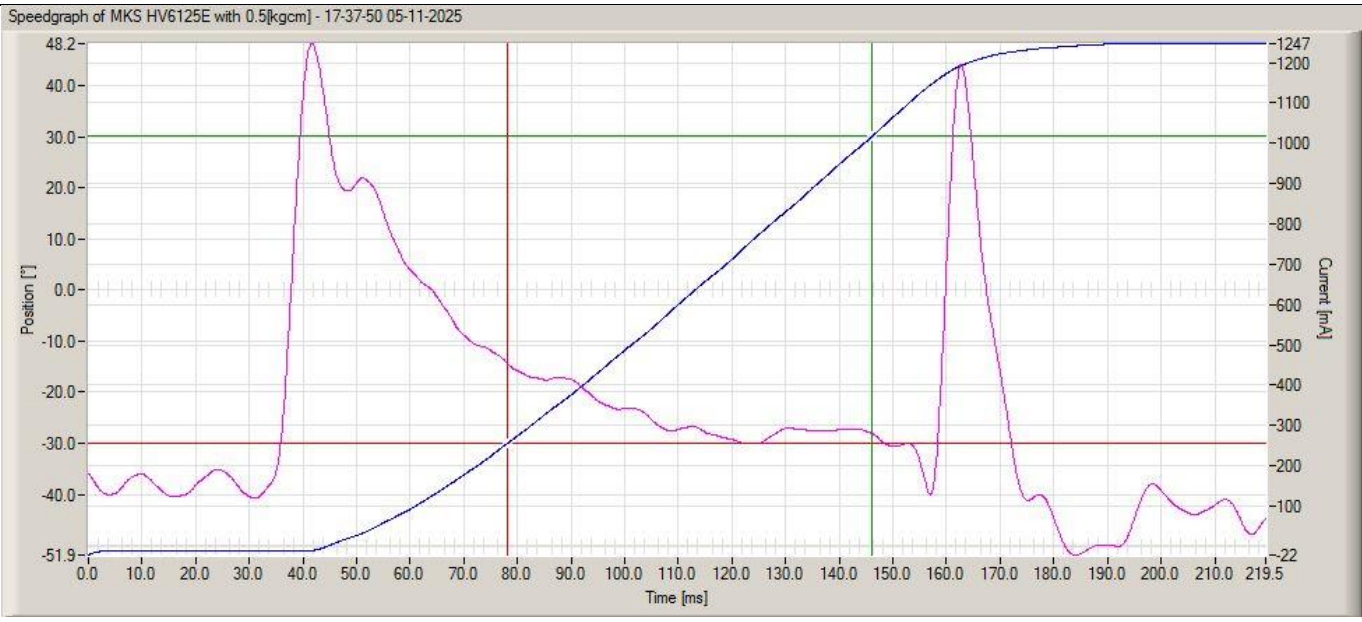

Speedgraph of MKS HV6125E ±15° start-stop- 17-36-59 05-11-2025
Position [°]
Current [mA]
Time [ms]
13.74
12.00
10.00
8.00
6.00
4.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
-14.91
1503
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
18
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
80.0
90.0
100.0
110.0
120.0
130.0
140.0
150.0
160.0
170.0
177.2

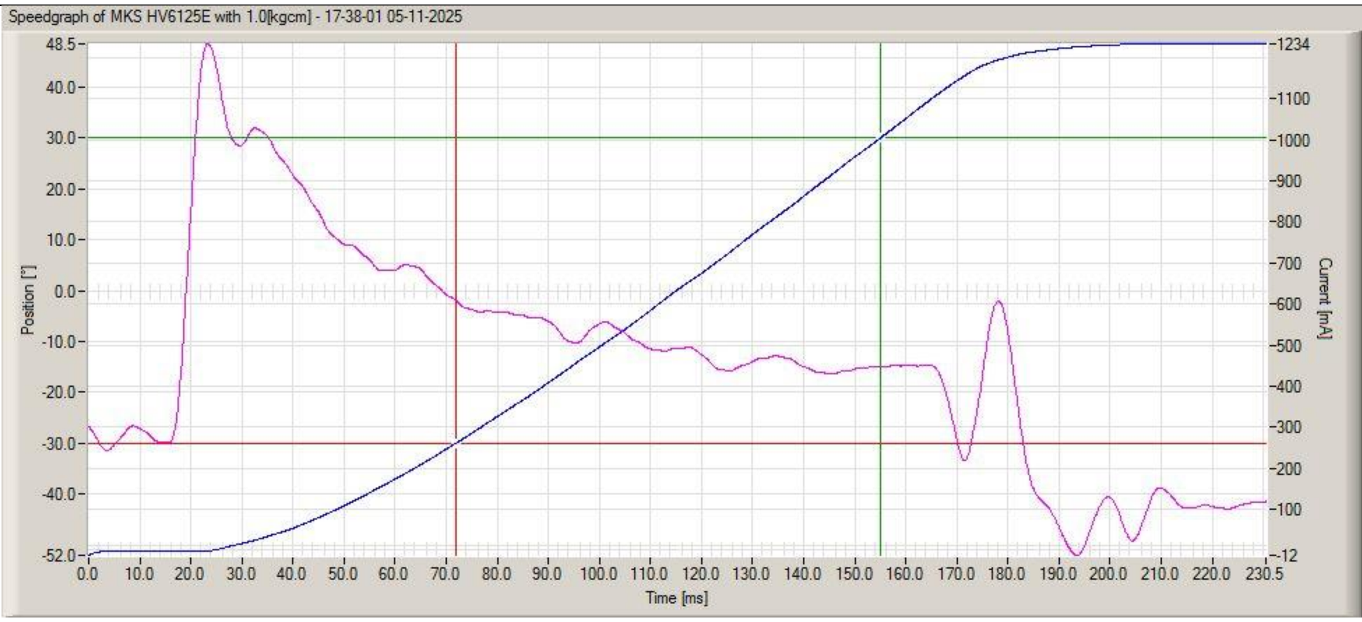

Speedgraph of MKS HV6125E ±20° start-stop- 17-37-04 05-11-2025
Position [°]
Current [mA]
Time [ms]


Speedgraph of MKS HV6125E ±25° start-stop- 17-37-09 05-11-2025
Position [°]
Current [mA]
Time [ms]

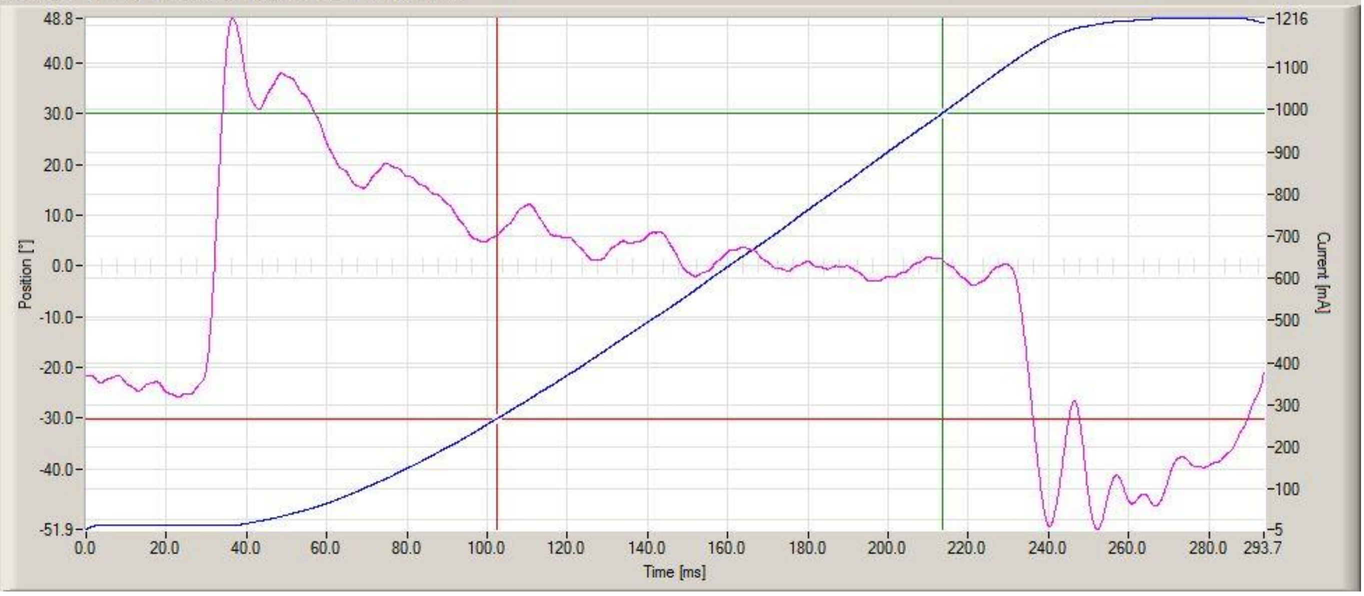

Speedgraph of MKS HV6125E ±30° start-stop- 17-37-13 05-11-2025
Position [°]
Current [mA]
Time [ms]


Speedgraph of MKS HV6125E with 0.0[kgcm] - 17-37-24 05-11-2025
Position [°]
Current [mA]
Time [ms]

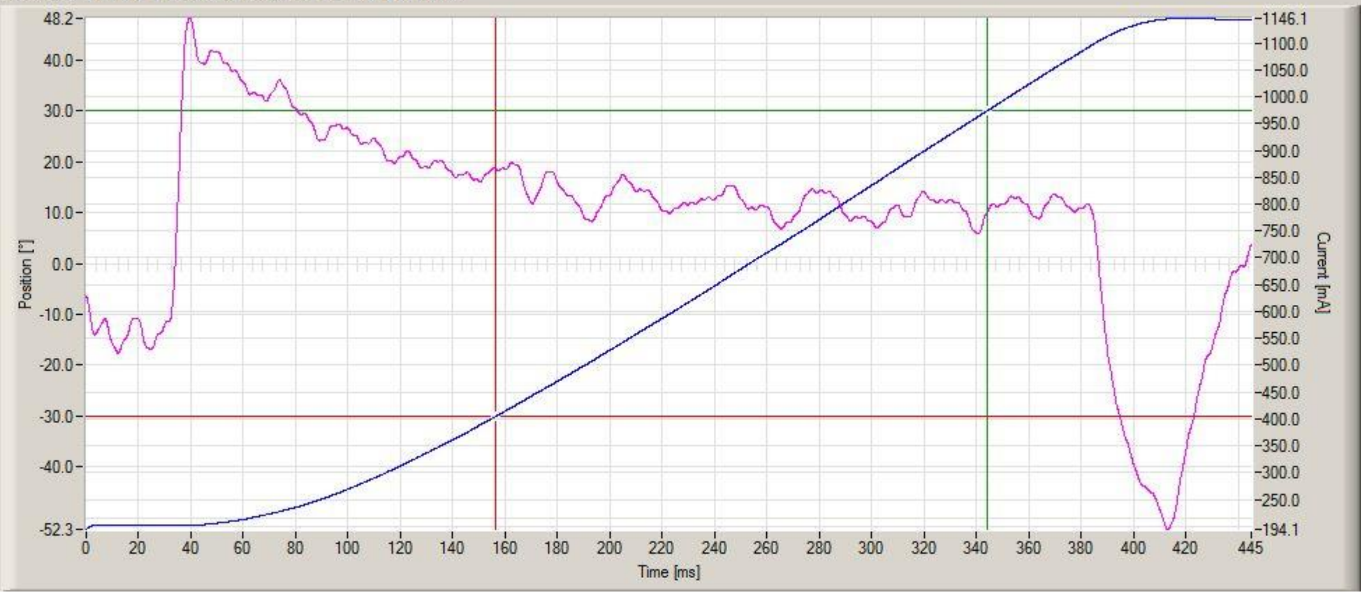

Speedgraph of MKS HV6125E with 0.5[kgcm] - 17-37-50 05-11-2025
Position [°]
Current [mA]
Time [ms]


Speedgraph of MKS HV6125E with 1.0[kgcm] - 17-38-01 05-11-2025
Position [°]
Current [mA]
Time [ms]

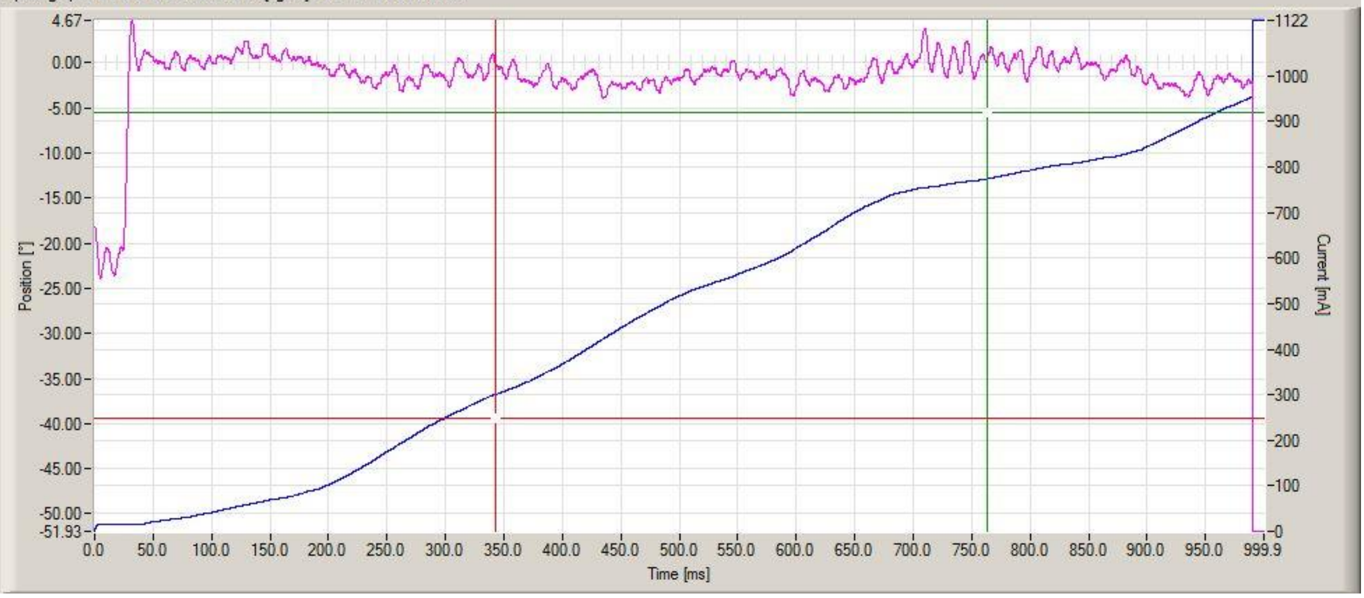
Speedgraph of MKS HV6125E with 1.5[kgcm] - 17-38-16 05-11-2025

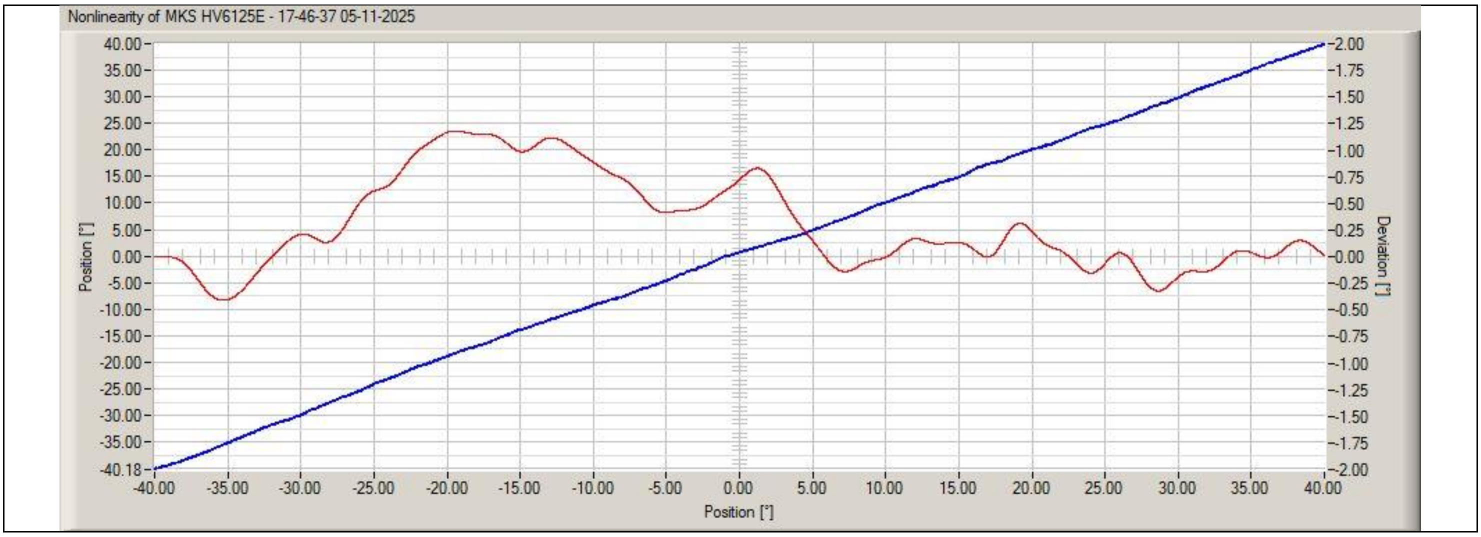


Speedgraph of MKS HV6125E with 2.0[kgcm] - 17-38-29 05-11-2025



Speedgraph of MKS HV6125E with 2.5[kgcm] - 17-38-46 05-11-2025





Nonlinearity of MKS HV6125E - 17-46-37 05-11-2025
Position [°]
Deviation [°]
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
-5.00
-10.00
-15.00
-20.00
-25.00
-30.00
-35.00
-40.18
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
-0.25
-0.50
-0.75
-1.00
-1.25
-1.50
-1.75
-2.00
-40.00
-35.00
-30.00
-25.00
-20.00
-15.00
-10.00
-5.00
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Position [°]