



mm		
0,0	-9,846	-9,846 0
	-10,063	-10,063
	-10,066	-10,066
	-10,387	-10,387
	-10,103	-10,103
	-10,040	-10,040
	-9,422	-9,422
	-9,485	-9,485
	-9,686	-9,686
	-9,212	-9,212
1,0	-8,576	-8,576
	-8,608	-8,608
	-8,267	-8,267
	-7,786	-7,786
	-7,623	-7,623
	-7,445	-7,445
	-6,892	-6,892
	-6,874	-6,874
	-6,453	-6,453
	-6,201	-6,201
2,0	-5,530	-5,530
	-5,222	-5,222
	-4,841	-4,841
	-4,350	-4,350
	-3,824	-3,824
	-3,567	-3,567
	-3,424	-3,424
	-2,674	-2,674
	-2,433	-2,433
	-2,271	-2,271
3,0	-1,697	-1,697
	-1,258	-1,258
	-0,743	-0,743
	-0,728	-0,728
3,4	-0,216	-0,216
	0,311	0,311 xa
	0,694	0,694
	0,904	0,904
	1,230	1,230
4,0	1,779	1,779
	2,125	2,125
	2,354	2,354
	2,685	2,685
	2,973	2,973
	3,359	3,359
	3,743	3,743
	4,471	4,471
	4,554	4,554
	4,853	4,853
5,062	5,062	

Legend

attraction

repulsion

5,0	5,151	5,151
	5,540	5,540
	5,676	5,676
	6,118	6,118
	6,103	6,103
	6,553	6,553
	6,607	6,607
	7,063	7,063
	6,897	6,897
	7,121	7,121
6,0	7,452	7,452
	7,743	7,743
	7,732	7,732
	7,635	7,635
	8,007	8,007
	7,914	7,914
	8,200	8,200
	8,074	8,074
	8,160	8,160
	8,617	8,617
7,0	8,466	8,466
	8,537	8,537
	8,552	8,552
	8,238	8,238
	8,430	8,430
	8,589	8,589
	8,627	8,627
	8,572	8,572
	8,310	8,310
	8,443	8,443
8,0	8,355	8,355
	8,106	8,106
	7,729	7,729
	7,777	7,777
	7,606	7,606
	7,577	7,577
	7,767	7,767
	7,681	7,681
	7,455	7,455
	7,188	7,188
9,0	7,188	7,188
	6,639	6,639
	6,530	6,530
	6,325	6,325
	6,343	6,343
	5,682	5,682
	5,452	5,452
	5,170	5,170
	4,872	4,872
	4,766	4,766
10,0	4,538	4,538
	3,982	3,982
	3,789	3,789

Legend

attraction

repulsion

CONFIDENTIAL

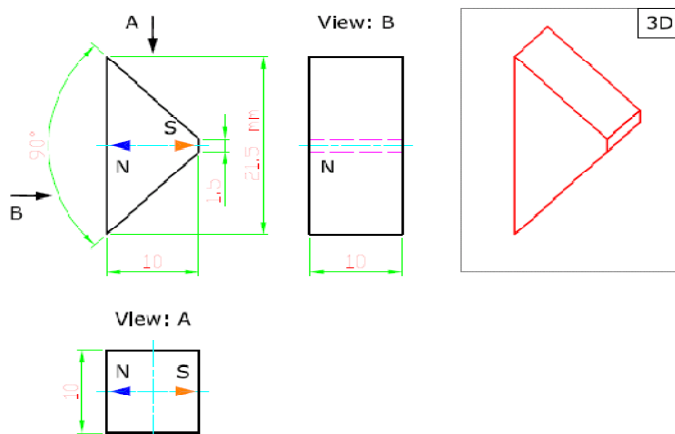


www.magnetmotor.at

Design-Magnet **DM01**

Dietmar Hohl, Linz/Austria

13.Jan.2010



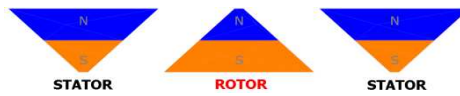
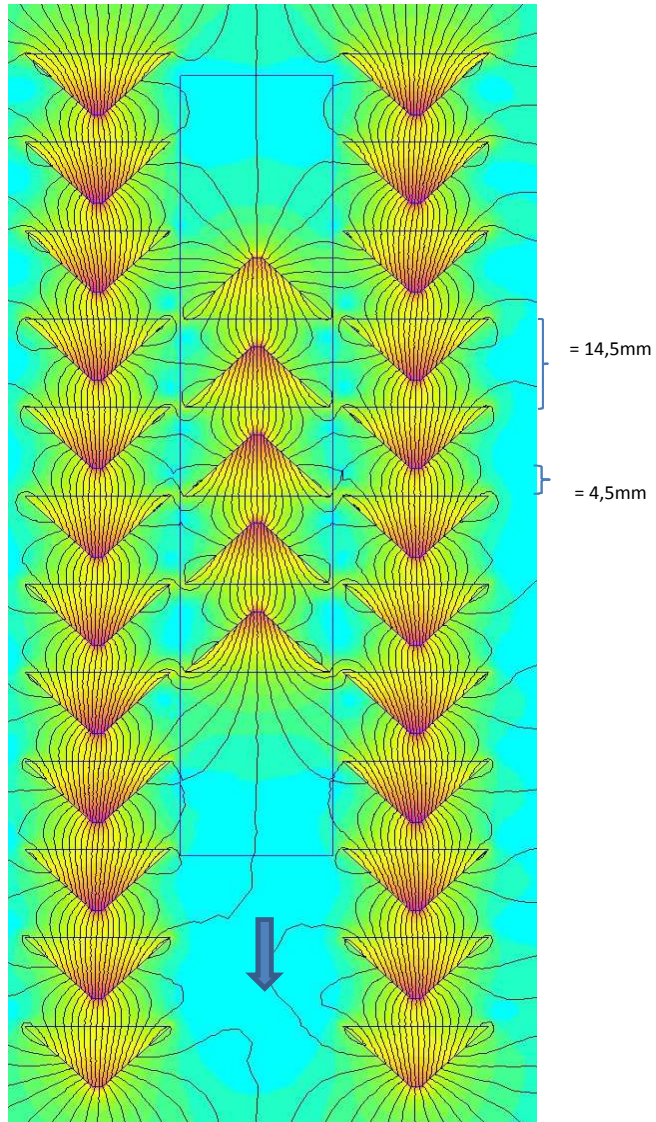
material / quality: Neodym (NdFeB) / N40 MGOe
flux density: 1,25 Tesla = 12500 Gauss
product of energy: 310kJ/m³
volume: 1,15 cm³
weight: 8,585 g / 0,01892 lb
stored energy: 356,5 mJ (mWs)

	3,485	3,485
	2,903	2,903
	2,738	2,738
	2,368	2,368
	1,975	1,975
	1,588	1,588
	1,045	1,045
11,0	1,038	1,038
	0,461	0,461
	0,108	0,108
11,2	-0,398	0,398
	-0,795	0,795
	-1,002	1,002
	-1,527	1,527
	-1,972	1,972
	-2,326	2,326
	-2,713	2,713
12,0	-3,225	3,225
	-3,709	3,709
	-4,292	4,292
	-4,866	4,866
	-5,300	5,300
	-5,205	5,205
	-5,788	5,788
	-6,067	6,067
	-6,505	6,505
	-6,882	6,882
13,0	-7,176	7,176
	-7,892	7,892
	-8,042	8,042
	-8,230	8,230
	-8,670	8,670
	-8,812	8,812
	-9,285	9,285
	-9,430	9,430
	-9,573	9,573
	-9,904	9,904
14,0	-10,328	10,328
	-10,262	10,262
	-10,395	10,395
	-10,424	10,424
	-10,462	10,462
14,5	-10,475	10,475

Legend

attraction

repulsion



Material : N40 MGOe

Distance Rotor / Stator : 2,0 mm

Distance Magnets : 4,5 mm

step : 0,1 mm in the simulator

Bilanz

LOSS :	215,810 N	3,4 mm
WIN :	646,382 N	11,1 mm
DIFFERENCE :	430,572 N	199,5 % Factor: 1:3



An extended view:

