

Werte: dreieck_A_N40

13.Jän.2010

d.hohl, Linz/Österreich

d.hohl@magnetmotor.at



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
	1,779	1,779
4,0	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

Legende

Anziehung

Abstoßung

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
	3,789	3,789

Legende

Anziehung

Abstoßung

VERTRAULICH

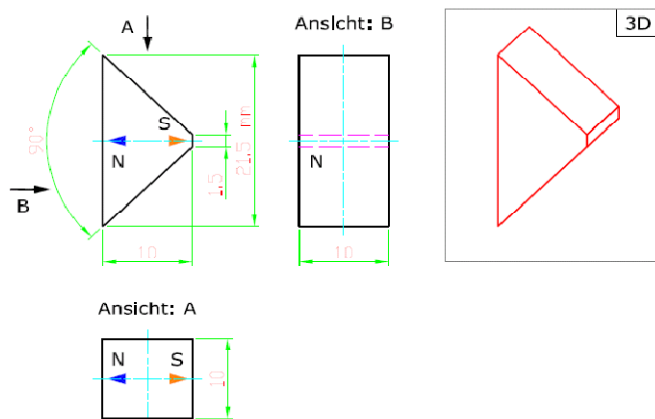


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Design-Magnet **DM01**

Dietmar Hohl, Linz/Austria

13.Jan.2010



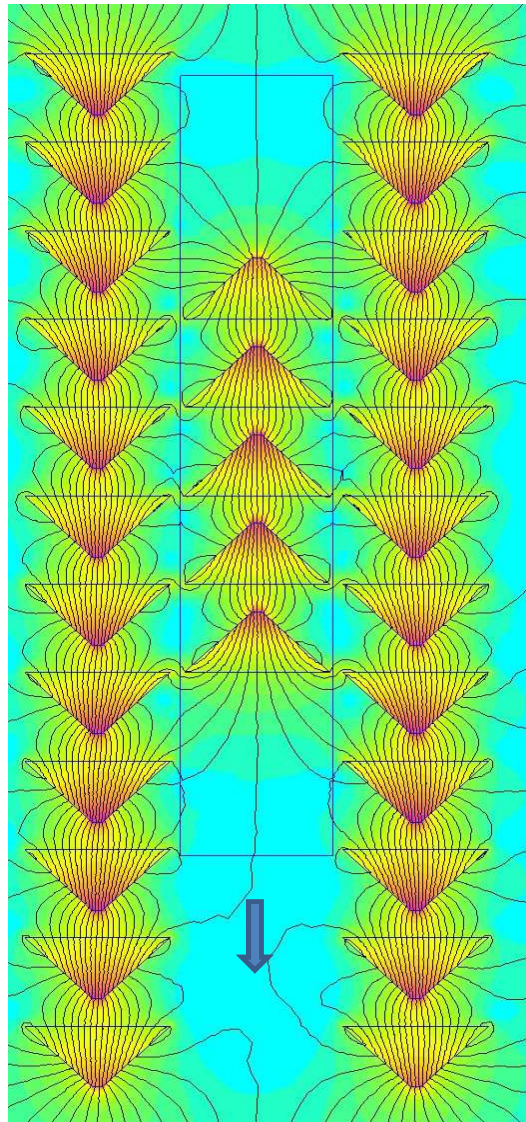
Material / Güte: Neodym (NdFeB) / N40 MGOe
 Flußdichte im Magneten: 1,25 Tesla = 12500 Gauss
 Energieprodukt: 310kJ/m³
 Volumen: 1,15 cm³
 Elgengewicht: 8,585 g
 gespeicherte Energie: 356,5 mJ (mWs)

	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

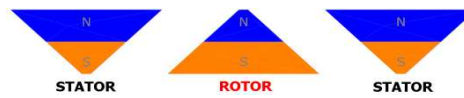
Legende

Anziehung

Abstoßung



= 14,5mm



Material : N40 MGOe

Abstand Rotor zu Stator : 2,0 mm

Abstand Magnete : 4,5 mm

Schrittweite: 0,1 mm

Bilanz

VERLUST : 215,810 N

3,4 mm

GEWINN : 646,382 N

11,1 mm

DELTA : 430,572 N

199,5 %

Faktor: 1:3

Verhältnis Weg = 1 : 3,26

13.Jän.2010

FEMM 4.2 - Simulation

Werte: dreieck_A_N40



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Rev: B

Skizze: http://www.magnetmotor.at/wissen/Aufbau_Dreieck_A_N40.pdf

Chart: http://www.magnetmotor.at/wissen/PMM_EB_Dreieck_A_N40_chart.pdf

Bild des Aufbau in der Startposition vergrößert:

