

Werte: dreieck\_A\_N40

13.Jän.2010

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mm

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

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

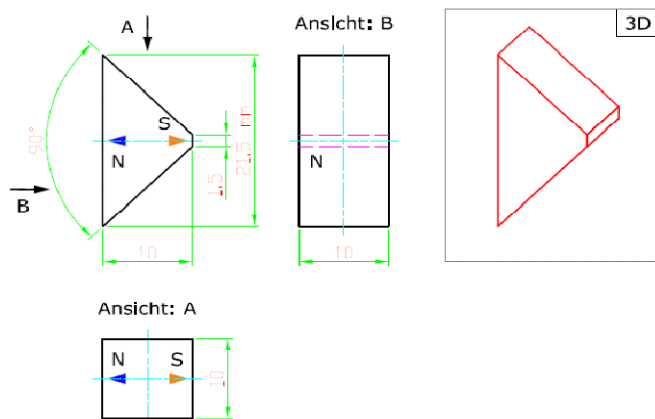


[www.magnetmotor.at](http://www.magnetmotor.at)

Design-Magnet **DM01**

Dietmar Hohl, Linz/Austria

13.Jan.2010



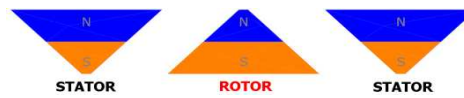
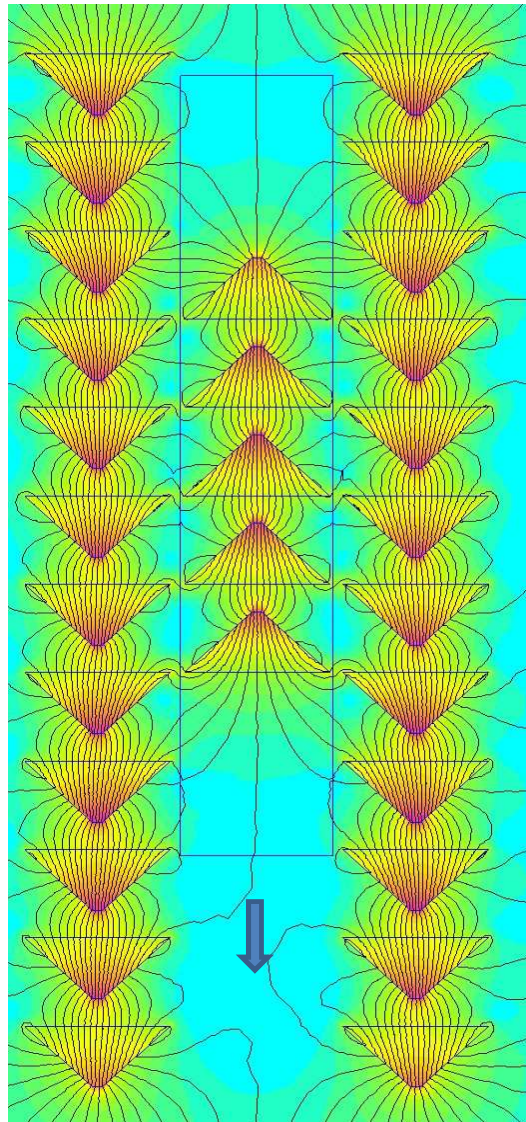
Material / Güte: Neodym (NdFeB) / N40 MGOe  
 Flußdichte im Magneten: 1,25 Tesla = 12500 Gauss  
 Energieprodukt: 310kJ/m<sup>3</sup>  
 Volumen: 1,15 cm<sup>3</sup>  
 Elgengewicht: 8,585 g  
 gespeicherte Energie: 356,5 mJ (mWs)

	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



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

Verhältnis Weg = 1 : 3,26

GEWINN : 646,382 N

11,1 mm

DELTA : 430,572 N

199,5 %

Faktor: 1:3

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](http://www.magnetmotor.at/wissen/Aufbau_Dreieck_A_N40.pdf)

Chart: [http://www.magnetmotor.at/wissen/PMM\\_EB\\_Dreieck\\_A\\_N40\\_chart.pdf](http://www.magnetmotor.at/wissen/PMM_EB_Dreieck_A_N40_chart.pdf)

Bild des Aufbau in der Startposition vergrößert:

