

U5 3

Vorbereitung:

$$\Theta_1 = 15^\circ$$

$$\rightarrow \alpha_1 = 80,6^\circ$$

$$\Theta_2 = 30^\circ$$

$$\rightarrow \alpha_2 = 70,5^\circ$$

$$\Theta_3 = 60^\circ$$

$$\rightarrow \alpha_3 = 54,7^\circ$$

70% RPM
45% RPM

6020
3870

8600 rpm

15° rpm	f_{min} [Hz]	f_{max} [Hz]
2020	61	97
3060	73	146
4380	146	290
5180	190	470
8400	220	586

30° rpm	f_{min} [Hz]	f_{max} [Hz]
2020	61	-96
3060	-110	-200
4380	-208	-389
5180	-305	-600
8400	-305	-765

45° rpm	f_{min} [Hz]	f_{max} [Hz]
2020	73	124
3060	159	288
4380	330	603
5180	513	927
8400	500 1000	1160

Ruhen

3870 rpm

depth [m] v [cm/s] I [1000 V²/s]

12	22.3	200
12.5	22.3	604
13	22.3	1167
13.5	23.9	1604
14	25.5	1738
14.5	28.7	1678
15	31.8	1409
15.5	31.8	1012
16	31.8	756
16.5	31.8	656
17	31.8	458
17.5	28.7	392
18	28.7	324
18.5	28.7	375
19	28.7	399
19.5	27.1	383

6000 rpm

depth [m] v [cm/s] I [1000 V²/s]

12	31.8	2212
12.5	35	4395
13	38.2	5892
13.5	41.4	6543
14	50.9	5903
14.5	57.3	3976
15	63.7	2823
15.5	66.9	2077
16	66.9	1337
16.5	63.7	987
17	60.5	766
17.5	54.1	613
18	55.7	522
18.5	54.1	429
19	54.1	439
19.5	54.1	361

Rivan