

7.Parameter definition

Values for 'Vmin', 'Vmax' and 'Acceleration' can be taken from the following tables. For each of these parameters values from 1 to 255 can be selected. Four frequency ranges 0 to 3 are available. Values for setting task parameters should always be taken from a single range.

Values for "Vmin" and "Vmax" (Vmin and Vmax in Hz)

Value	Range 0	Range 1	Range 2	Range 3
1	9.5	19	38	76
2	19	38	75	152
3	28	57	114	229
4	38	76	153	305
5	48	95	191	381
6	57	114	229	458
8	76	153	305	610
10	95	191	381	763
15	143	286	572	1144
20	190	381	763	1526
25	238	477	954	1907
30	286	572	1144	2289
40	381	763	1526	3052
50	477	964	1907	3814
60	572	1144	2289	4577
70	667	1335	2670	5340
80	763	1526	3052	6103
90	858	1717	3433	6866
100	954	1907	3815	7629
110	1049	2098	4196	8392
120	1144	2289	4577	9155
130	1240	2480	4959	9918
140	1335	2670	5340	10680
150	1430	2861	5722	11443
160	1526	3052	6103	12206
170	1621	3243	6485	12969
180	1716	3433	6866	13732
190	1812	3624	7248	14495
200	1907	3815	7629	15258
210	2002	4006	8010	16021
220	2098	4196	8392	16784
230	2193	4387	8773	17546
240	2288	4578	9155	18309
250	2384	4769	9536	19072
255	2431	4864	9727	19454

Example for values not shown in the above table :

$$\text{for ex. 1000Hz : value} = \frac{1000}{9.5} = 105 \rightarrow \text{range 0}$$

Values for acceleration (in Hz/sec)

Value	Range 0	Range 1	Range 2	Range 3
1	152939	305911	611821	1223642
2	76470	152955	305911	611821
3	50980	101970	203940	407881
4	38235	76478	152955	305911
5	30588	61182	122364	244728
6	25489	50985	101970	203940
8	19117	38239	76478	152955
10	15294	30991	61162	122364
15	10196	20394	40788	81776
20	7647	15296	30591	61162
25	6118	12236	24473	48946
30	5098	10197	20394	40788
40	3823	7648	15296	30591
50	3059	6118	12236	24473
60	2549	5099	10197	20394
70	2185	4370	8740	17481
80	1912	3824	7648	15296
90	1699	3399	6798	13596
100	1529	3059	6118	12236
110	1390	2781	5562	1124
120	1274	2549	5099	10197
130	1176	2353	4706	9413
140	1092	2185	4370	8740
150	1020	2039	4079	8158
160	956	1920	3824	7648
170	900	1800	3599	7198
180	850	1700	3399	6798
190	805	1610	3220	6440
200	765	1530	3059	6118
210	728	1457	2913	5826
220	695	1391	2781	5562
230	665	1330	2660	5320
240	637	1275	2549	5099
250	612	1224	2447	4895
255	600	1200	2400	4800

Example : Values are to be defined for $V_{min} = 100$ Hz,
 $V_{max} = 3000$ Hz and an acceleration of 6000 Hz/sec.

The range chosen is always the one with the lowest attainable frequencies, for our case "Range 1".

for V_{min} → value 5 (95 Hz)
 for V_{max} → value 150 - 160 = approx. 157
 for acceleration → value approx. 51