

DC42/DC52 Combinations

DC Geared Motors

Design

DC42/ DC52 Series motors are DC motors (Outsourced) that are used in combination with some Mechtex gearheads. Depending on the application, output speed, load applied etc the type of gearhead can be selected. Case hardened steel gears are used due to the high torque generated by these motors. First pair of gears can be helical to damp the noise. All bearings are permanently lubricated and therefore require no maintenance.

Ordering Data (e.g.)

B52 N D1 S WA25A S R

- Direction Reversible Shaft
- Standard Ratio - 25:1
- Gearbox - GBW
- Mounting - with screw clip
- Voltage - 12V DC
- Approval standard Motor-DC52b series

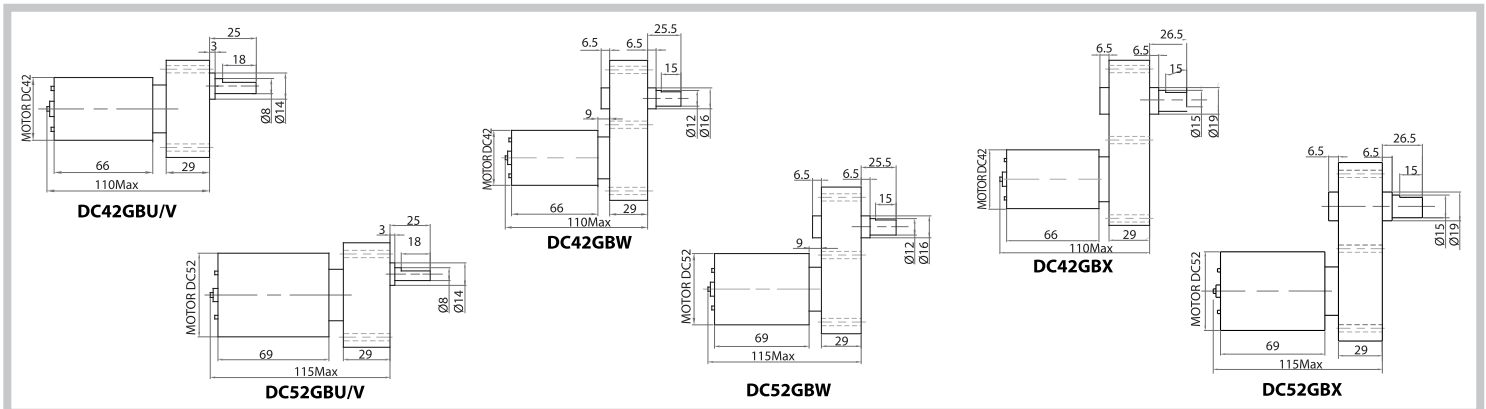
Standard Data

Motor Type		PM Brushed dc motor
Combination with Mechtex Gear Series		GB V/U, GB W/X Only
Standard motor voltages	V	24, 12, 6 & 3 (others on request)
Weight (DC42/DC52)	g	360/480
Enclosure	IP	20
Mounting		By screws
Life expectancy		Approx 500 hours @ max efficiency
Direction		Reversible

Technical Data

Mechtex MODEL No.	Physical data Dia X height	No Load data			Data at max efficiency						Stall	
		Voltage V DC	Speed RPM	No load Current A	Speed RPM	Current Amps	Torque Ncm	Effic. (%)	Power W(out)	Power W(in)	Torque Ncm	Current Amps
A42	42.2 x 66	24	5050	0.400	4120	1.362	5.69	74	24.075	32.645	40.200	8.940
A42	42.2 x 66	12	2500	0.300	2021	0.951	3.48	63	7.223	11.486	21.690	4.917
A42	42.2 x 66	6	1200	0.280	932	0.667	2.21	53	2.095	3.984	10.830	2.538
B42	42.2 x 66	12	5000	0.700	4421	3.576	6.640	70	30.147	42.986	43.270	19.897
B42	42.2 x 66	6	2500	0.620	2123	2.041	3.46	62	7.544	12.215	22.790	10.666
B42	42.2 x 66	3	1250	0.580	922	1.648	2.58	51	2.443	4.819	11.120	5.442
M42	42.4 x 66	24	2700	0.210	2312	0.508	3.01	60	7.147	11.994	16.810	2.279
M42	42.4 x 66	12	1350	0.160	1096	0.318	1.84	56	2.071	3.725	8.640	1.159
M42	42.4 x 66	6	650	0.130	472	0.218	1.10	43	0.533	1.242	3.950	0.574
A52	52.5 x 69	24	5000	0.500	4195	2.563	9.240	65	39.807	61.323	59.840	14.318
A52	52.5 x 69	12	2500	0.400	1970	1.569	5.48	59	11.087	18.809	30.070	7.090
A52	52.5 x 69	6	1250	0.350	902	0.993	3.02	48	2.797	5.875	13.55	3.320
B52	52.5 x 69	12	5050	0.900	4325	3.916	7.110	67	31.580	47.086	54.000	24.900
B52	52.5 x 69	6	2500	0.900	1881	2.864	4.850	54	9.369	17.229	24.700	11.472
B52	52.5 x 69	3	1200	0.850	810	2.170	3.350	43	2.787	6.485	12.150	5.961
M52	52.0 x 69	24	2700	0.280	2193	0.788	5.1	63	11.553	18.422	29.5	3.619
M52	52.0 x 69	12	1300	0.250	1037	0.505	2.8	51	2.961	5.804	14.2	1.889
M52	52.0 x 69	6	600	0.250	434	0.364	1.7	39	0.753	1.935	6.6	0.941

Assembly Drawings



Photographs

