



ROBOTIS DYNAMIXEL DRIVE (DYD)

DYNAMIXEL DRIVE (DYD) is a cycloid-based compact reduction gear with superior impact resistance while realizing high torque, high efficiency and light weight.

Properties	Unit	DYD-11-033	DYD-11-051	DYD-14-051	DYD-14-099	DYD-17-051	DYD-17-099
Gear ratio	-	33	51	51	99	51	99
Rated output torque (@2,000rpm)	Nm	2.2	3.5	3.7	5.4	11	16
Permissible peak torque at accel / decel	Nm	8.8	14	14.8	21.6	44	64
Permissible peak torque at E-stop	Nm	28	28	43.2	43.2	96	96
Nominal input speed	rpm	2,000	2,000	2,000	2,000	2,000	2000
Maximum input speed	rpm	8,500	8,500	8,500	8,500	8,500	8500
Backlash	arcmin	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Efficiency (@ 2,000rpm, 20°C)	%	65	65	60	60	70	70
Starting torque	cNm	5	3	5	3	4	3
Back-drive torque	Nm	1	1	3	3	5	5
Dimensions	mm	□43 × 23.5	□43 × 23.5	Ø68 × 30	Ø68 × 30	Ø78 × 34.2	Ø78 × 34.2
Weight	g	196	196	400	400	600	600