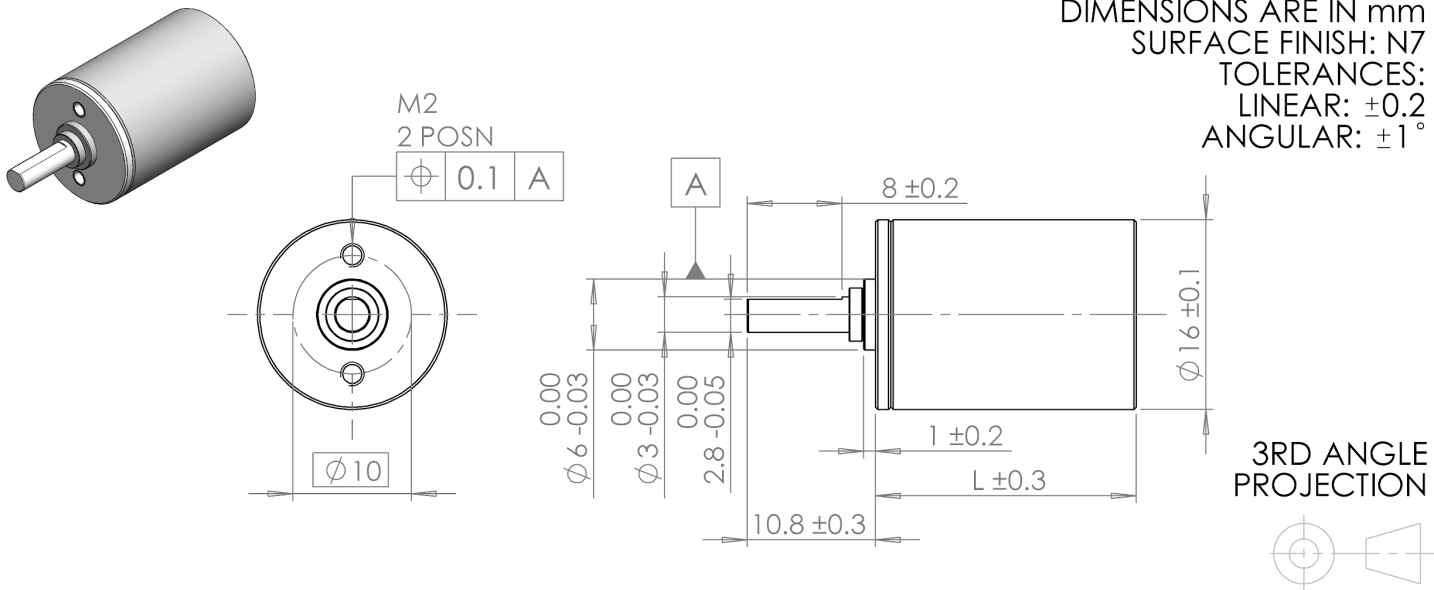


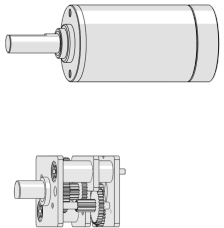
416-MP Gearbox (metal planetary)
Ø16mm / with custom reduction ratios / shafts / mounting interfaces



				Standard version				Custom design			
Key data		Units									
A	Bearing type			Ball bearing							
B	Axial play	mm	max	0.2				Customizations (including torque capability) available on request. Please contact support@pmdri.com			
C	Max. force for press fits	N		10							
D	Max. axial load (dynamic)	N		8							
E	Max. radial load	N		10							
F	Ambient temperature	°C	min	-30							
		°C	max	+100							
G	Reduction ratio			See table below				Others on request			
Specifications		Units									
1	Number of stages		1	2		3		4		5	
2	Max. continuous torque	Nm	0.2	0.2		0.3		0.3		0.35	
3	Max. intermittent torque	Nm	0.3	0.3		0.45		0.45		0.5	
4	Max. efficiency	%	90	81		73		65		59	
5	Length	mm	14.8	18.4		22		25.6		29.2	
6	Weight	g	15	20		25		30		35	
		Reduction Ratios									
7	Reduction ratios (approximate)	3.79	4.31	14.36	19.24	54.42	80.20	206.2	357.8	781.4	1,543.0
			5.08	16.34	21.89	61.93	82.97	234.7	370.1	889.3	1,596.2
				18.58	25.78	70.48	94.42	267.1	407.2	1,012.0	1,756.0
						72.91	111.16	276.7	421.2	1,046.9	1,816.5
							130.86	303.9	479.4	1,152.7	1,879.1
								314.4	495.9	1,191.4	2,067.2
								345.9	564.3	1,311.7	2,168.5
									664.4	1,355.9	2,433.7
										1,402.6	2,517.6

Combinations - contact support@pmdri.com for details

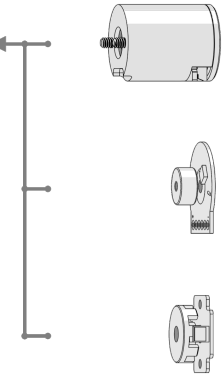
Planetary Gearbox
Ø10 – 28mm
10-500mNm Continuous Torque



Spur Gearbox
Ø12 – 20mm
5-200mNm Continuous Torque



Magnetic or Optical encoders
outputs: A,B,N or Hv, Hw
(up to 2048 CPT)



Available motors
• DC and DC coreless,
• bi-polar stepper, or
• BLDC motors



Gearbox only sold as combination with motor / encoder. Final combination length to be confirmed by Precision Microdrives