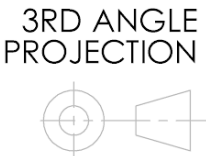
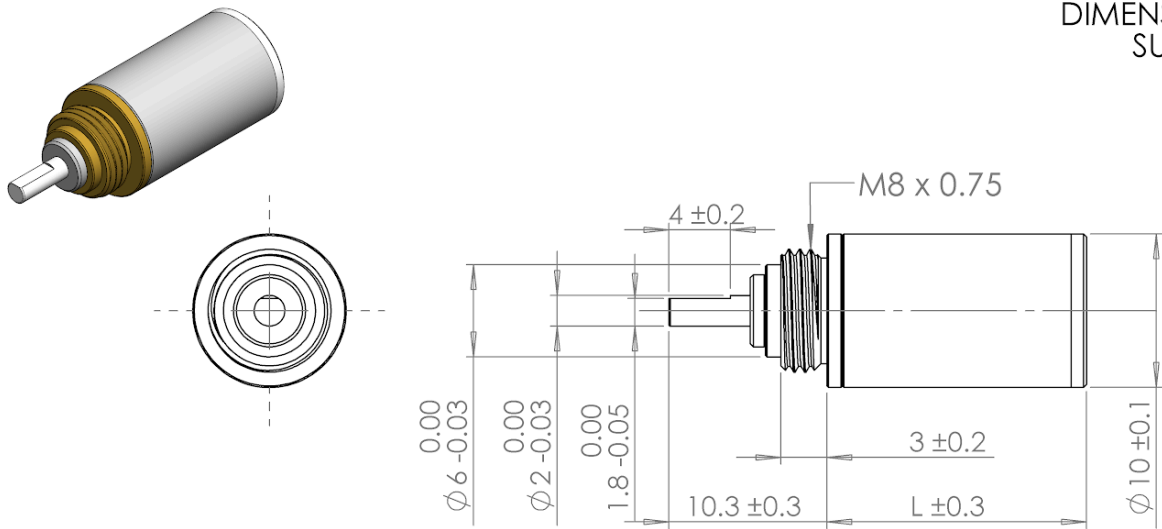


410-MP Gearbox (metal planetary)
Ø10mm / with custom reduction ratios / shafts / mounting interfaces



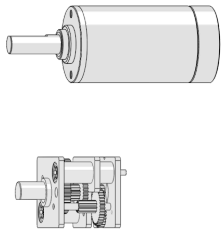
DIMENSIONS ARE IN mm
SURFACE FINISH: N7
TOLERANCES:
LINEAR: ±0.2
ANGULAR: ±1°



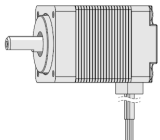
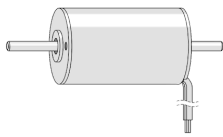
				Standard version				Custom design				
Key data		Units										
A	Bearing type				Ball bearing							
B	Axial play	mm	max		0.2				Customizations (including torque capability) available on request. Please contact support@pmdri.com			
C	Max. force for press fits	N			10							
D	Max. axial load (dynamic)	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	Number of reduction stages									
1	Number of stages		1		2		3		4		5	
2	Max. continuous torque	Nm	0.01		0.03		0.10		0.15		0.15	
3	Max. intermittent torque	Nm	0.02		0.05		0.15		0.20		0.2	
4	Max. efficiency	%	90		81		73		65		59	
5	Length (L)	mm	11.0		13.8		16.6		19.4		22.2	
6	Weight	g	5		6		8		9		10	
			Reduction Ratios									
7	Reduction ratios (approximate)		3.50	4.00	12.25	16.60	42.9	66.5	150.1	266.0	1,024	
			4.75	14.00	19.00	49.0	76.0	171.5	276.4			
				16.00	22.60	56.0	79.0	196.0	304.0			
						58.2	90.3	203.7	315.9			
						64.0	107.2	224.0	361.0			
								232.7	375.1			
								256.0	428.7			
									509.1			

Combinations - contact support@pmdri.com for details

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



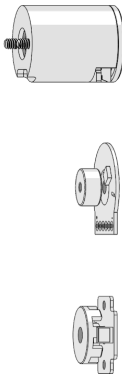
Spur Gearbox
Ø12 – 20mm
5-200mNm Continuous Torque



Available motors

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

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



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