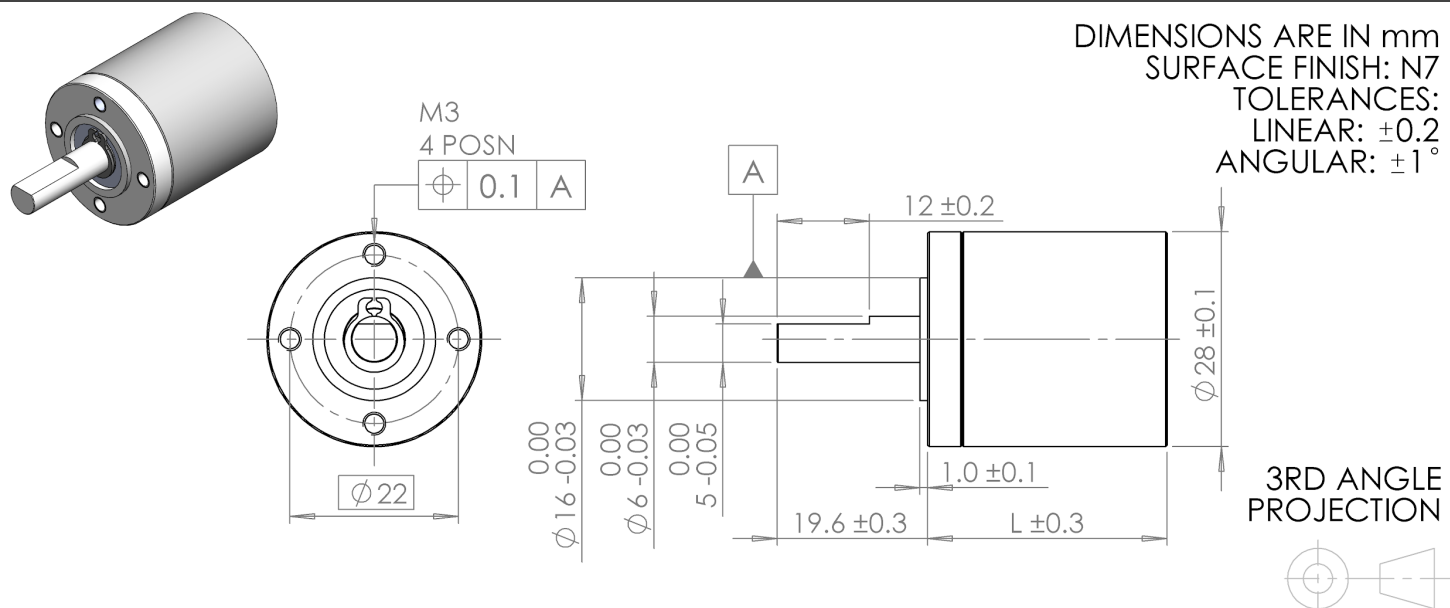


428-MP Gearbox (metal planetary)

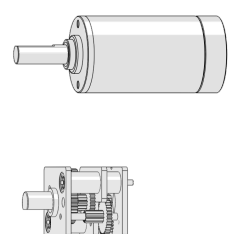
Ø28mm / with custom reduction ratios / shafts / mounting interfaces



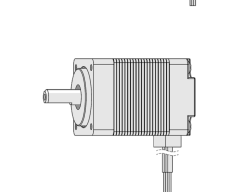
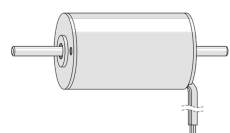
Key data				Units		Standard version			Custom design			
A	Bearing type				Ball bearing							
B	Axial play	mm	max		0.2		Customizations					
C	Max. force for press fits	N			100		(including torque					
D	Max. axial load (dynamic)	N			50		capability) available					
E	Max. radial load	N			50		on request. Please					
F	Ambient temperature	°C	min		-30		contact					
			max		+100		support@pmdri.com					
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	0.5		1		3		4		4	
3	Max. intermittent torque	Nm	0.8		2		4		5		5	
4	Max. efficiency	%	90		81		73		65		59	
5	Length	mm	26.7		31.2		35.7		40.2		44.7	
6	Weight	g	50		65		85		95		110	
		Reduction Ratios										
7	Reduction ratios (approximate)		3.57	4.00	12.76	18.40	45.55	73.60	182.2	338.6	728.9	1,557
				5.50	16.00	22.00	51.02	84.64	204.1	404.8	816.3	1,936
							58.67	101.2	262.9	465.5	1,024	2,286
							64.00	121.0	302.3	556.6	1,209	2,662

Combinations - contact support@pmdri.com for details

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



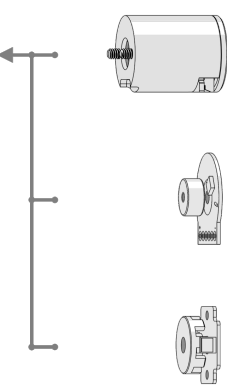
Spur Gearbox
Ø12 – 20mm
5-200mNm Continuous Torque



Available motors

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

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



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

Detailed datasheets, and stocked samples, are available upon request. Please contact support@precisionmicrodrives.com

V1 - Jun 2025