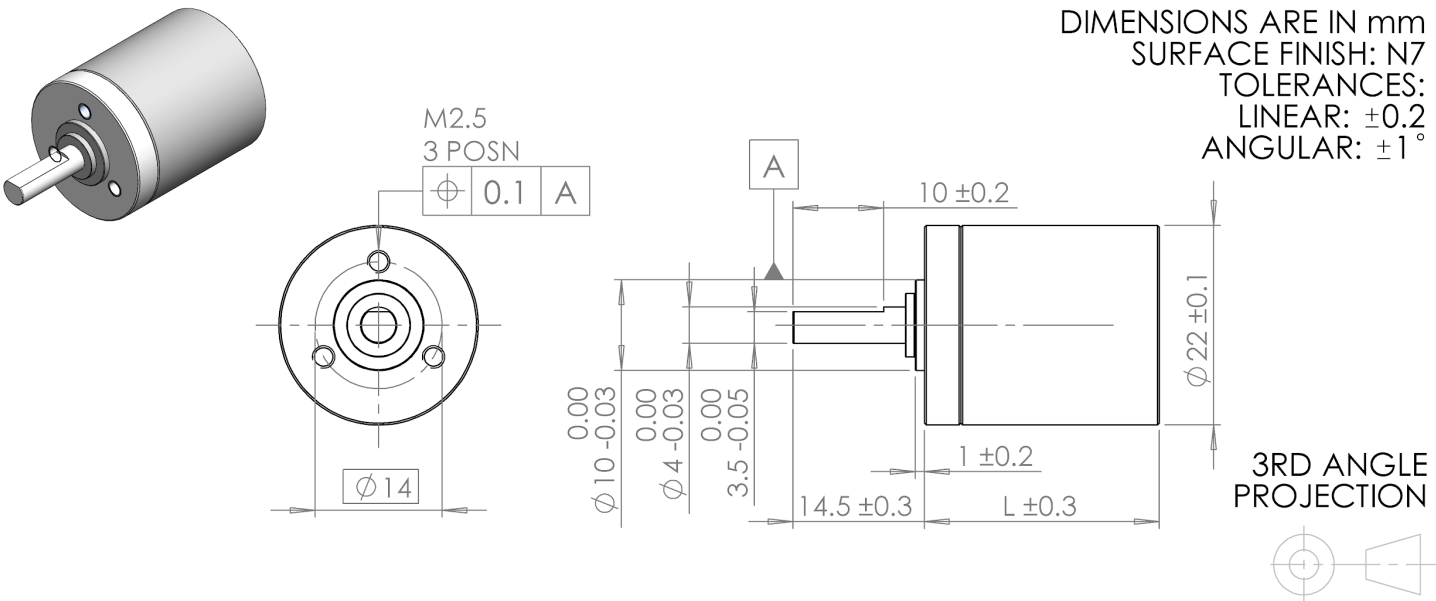


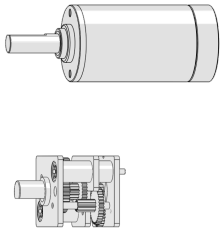
422-MP Gearbox (metal planetary)
Ø22mm / with custom reduction ratios / shafts / mounting interfaces



Key data				Units		Standard version				Custom design	
A	Bearing type					Ball bearing				Customizations (including torque capability) available on request. Please contact support@pmdri.com	
B	Axial play	mm	max	0.2							
C	Max. force for press fits	N		100							
D	Max. axial load (dynamic)	N		50							
E	Max. radial load	N		50							
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		0.3	0.3	0.5	0.5	0.75			
3	Max. intermittent torque	Nm		0.5	0.5	0.8	0.8	1			
4	Max. efficiency	%		90	81	73	65	59			
5	Length	mm		22.1	25.9	29.7	33.5	37.3			
6	Weight	g		30	35	46	55	65			
				Reduction Ratios							
7 Reduction ratios (approximate)		3.57	4.60	12.76	19.64	45.55	84.64	162.7	280.6	581.1	1,079.6
		4.00	5.50	14.29	21.16	51.02	88.00	182.2	294.4	650.8	1,122.5
				16.00	22.00	57.14	90.36	204.1	302.3	728.9	1,177.6
				16.43	25.30	58.67	97.34	209.6	314.3	748.4	1,209.1
				18.40	30.25	64.00	101.20	228.6	322.7	816.3	1,241.5
						65.71	108.04	234.7	338.6	894.8	1,257.1
						70.15	116.38	250.6	347.6	938.8	1,557.4
						73.60	121.00	256.0	352.0	963.9	1,936.0
						75.57	139.16	262.9	361.4	1,002.2	2,286.0

Combinations - contact support@pmdri.com for details

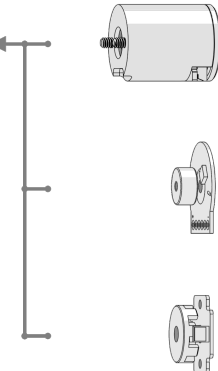
Planetary Gearbox
Ø10 – 28mm
10-500mNm Continuous Torque



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



Magnetic or Optical encoders
outputs: A,B,N or H_v, H_w
(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

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

V1 - Jun 2025