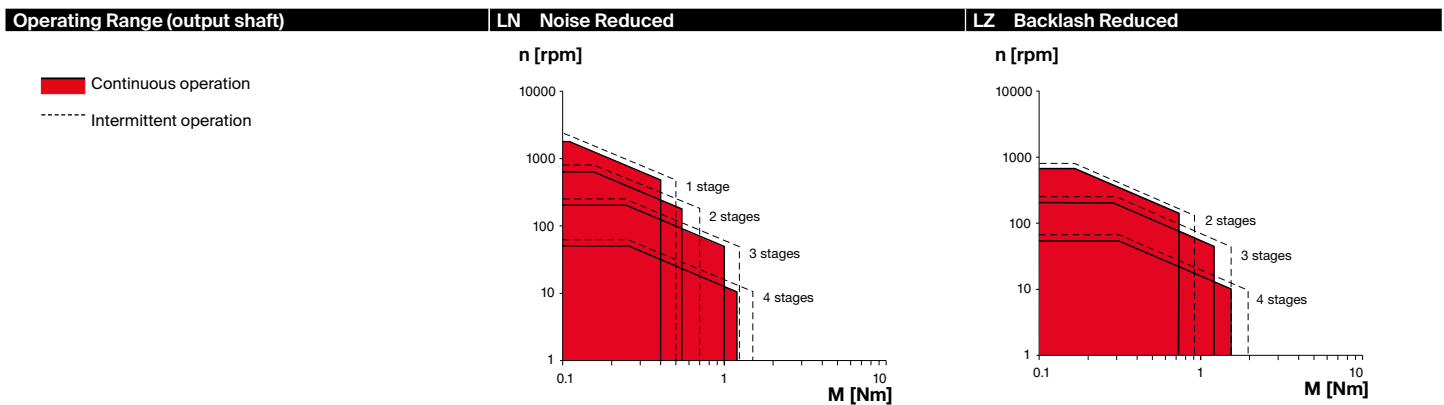


# GPX 22 Ø22 mm, planetary gearhead

GPX



Key Data		LN Noise Reduced	LZ Backlash Reduced
Max. transmittable power	W	20	12
Max. continuous torque	Nm	1.2	1.5
Max. continuous input speed	rpm	12000	12000
Ambient temperature	°C	-40 ... +85	-40 ... +100
Bearing at output		Ball bearing	Ball bearing
Typical noise level	dBA	-5 dBA compared to standard configuration	



Specifications	LN Noise Reduced				LZ Backlash Reduced			
	1	2	3	4	2	3	4	
Number of stages								
Max. transmittable power (continuous)	W	20.0	10.0	5.0	1.3	12.0	6.0	1.6
Max. transmittable power (intermittent)	W	25.0	13.0	6.3	1.6	15.0	7.5	2.0
Max. continuous torque	Nm	0.40	0.55	1.00	1.20	0.70	1.20	1.50
Max. intermittent torque	Nm	0.50	0.70	1.25	1.50	0.90	1.50	1.90
Max. continuous input speed	rpm	8000	10000	12000	12000	10000	12000	12000
Max. intermittent input speed	rpm	10000	12500	15000	15000	12500	15000	15000
Max. efficiency	%	90	81	74	66	81	74	66
Average backlash no load	°	0.85	1.05	1.20	1.35	0.85	1.05	1.2
Max. axial load (dynamic)	N	40	40	40	40	40	40	40
Max. radial load, 10 mm from flange	N	65	100	120	120	100	120	120
Gearhead length L <sup>1</sup>	mm	19.9	26.4	32.2	43.0	26.4	32.2	43.0
Weight	g	45	58	67	89	58	67	89

Configuration	LN Noise Reduced				LZ Backlash Reduced			
	1	2	3	4	2	3	4	
Number of stages								
Reduction	X:1	3.9, 5.3, 6.6	16, 21, 26, 28, 35, 44	62, 83, 103, 111, 138, 150, 172, 186, 231	243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526	16, 21, 26, 28, 35, 44	62, 83, 103, 111, 138, 150, 172, 186, 231	243, 326, 406, 439, 546, 590, 679, 734, 794, 913, 987, 1135, 1227, 1526
Absolute reduction: (see online)								
Version	Standard/ceramic version/noise reduced/backlash reduced/high power/ultra performance							
Flange	Standard flange/configurable flange							
Shaft	Length/flat face/cross hole							

maxon Modular System		Page	Dimensions	M 1:2
<b>maxon DC motor</b>	N° of stages [opt.]			
DCX 19 S	3-4	97-98		
DCX 22 S	1-2 [3-4]	99-100		
DCX 22 L	1-2 [3-4]	101-102		
DC-max 22 S*	1-2 [3-4]	111-112		
<b>maxon EC motor</b>	N° of stages [opt.]			
ECX SPEED 19 M	3-4	203-204		
ECX SPEED 19 L	3-4	207-208		
ECX SPEED 22 M	1-2 [3-4]	211-212		
ECX SPEED 22 L	1-2 [3-4]	215-216		
ECX TORQUE 22 M	1-2	225		
ECX TORQUE 22 L	1-2	226		
ECX TORQUE 22 XL	1-2	227		

1-2 stages

3-4 stages

\*Limited selection of reduction ratios (see online).

<sup>1</sup>This length may vary depending on the configuration and choice of motor. The effective length is calculated at the end of the configuration process.

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