

Spur Gearheads

20 mNm

M11
For combination with:
 DC Micromotor series 0030.

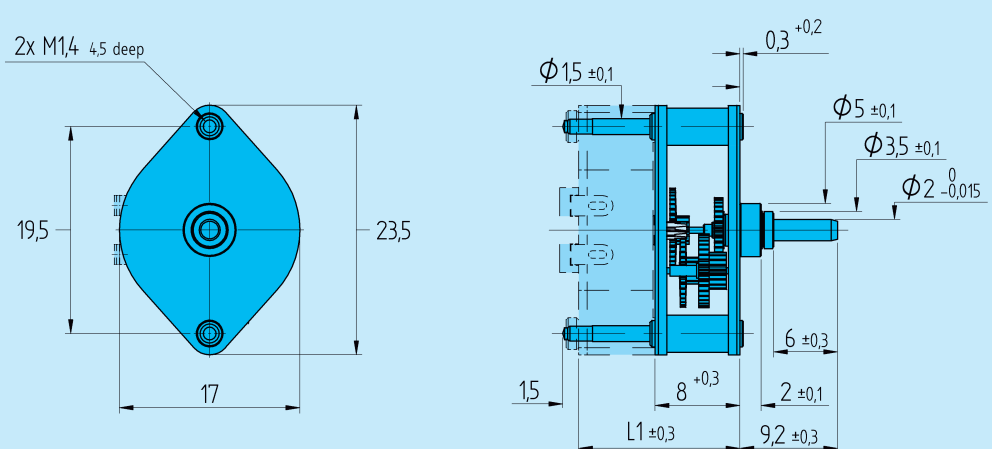
M13
For combination with:
 DC Micromotor series 0130.

Series M11, M13

Gearhead type	M11 A and M13 A	M11 B and M13 B	M11 E and M13 E	
Geartrain material	plastic / metal	plastic / metal	metal / metal	
Recommended max. input speed for continuous operation	7.000	7.000	7.000	rpm
Backlash, average value, at no-load	3	3	3	°
Bearings on output shaft	brass	brass	brass	
Shaft load, max.				
- radial (3 mm from mounting face)	0,5	0,5	1	N
- axial	1	0,5	0,5	N
Shaft press fit force, max.	5	4	6	N
Shaft play (on bearing output)				
- radial	< 0,04	< 0,04	< 0,04	mm
- axial	< 0,2	< 0,2	< 0,2	mm
Operating temperature range	-20... +65	-20... +65	-20... +65	°C

reduction ratio	Type			weight without motor	length with motor		output torque		direction of motor and gearhead rotation	efficiency
	M11A	M11B	M11E		series 0030	series 0130	continuous operation	intermittent operation		
	M13A	M13B	M13E		L1	L1	M max.	M max.		
				g	mm	mm	mNm	mNm		%
19 : 1	•	•		6,1	15,2	13,2	20	50	=	81
96 : 1	•	•	•	6,6	15,2	13,2	20	50	=	66
176 : 1	•	•	•	6,6	15,2	13,2	20	50	=	66
249 : 1	•	•	•	6,6	15,2	13,2	20	50	≠	59
487 : 1	•	•	•	6,6	15,2	13,2	20	50	≠	59
916 : 1	•	•		6,8	15,2	13,2	20	50	=	53
4629 : 1	•			6,8	15,2	13,2	20	50	≠	48

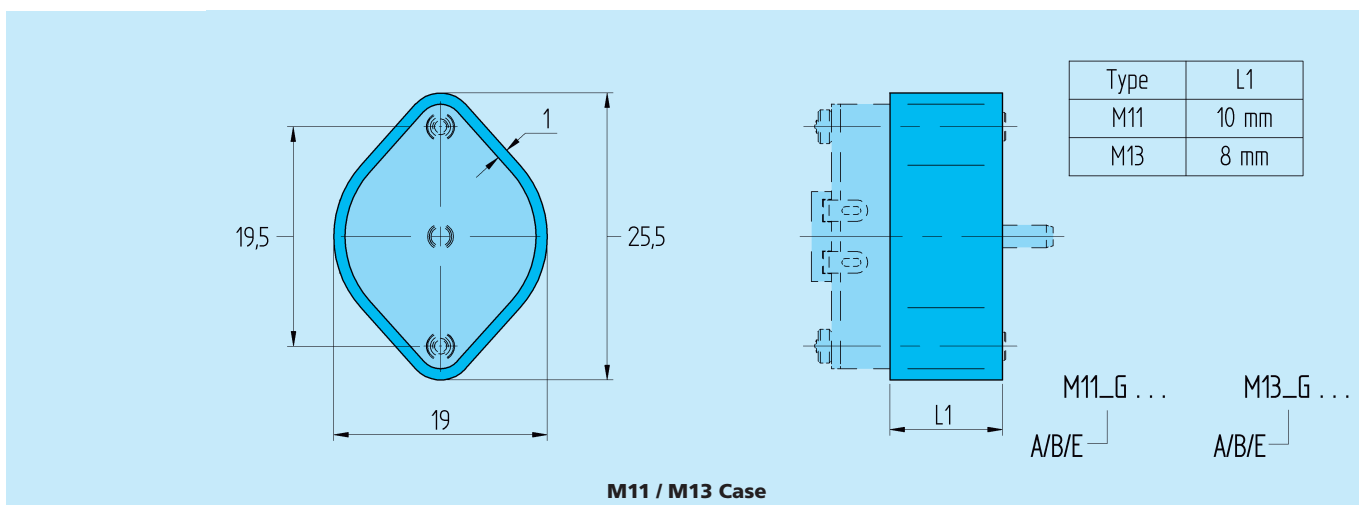
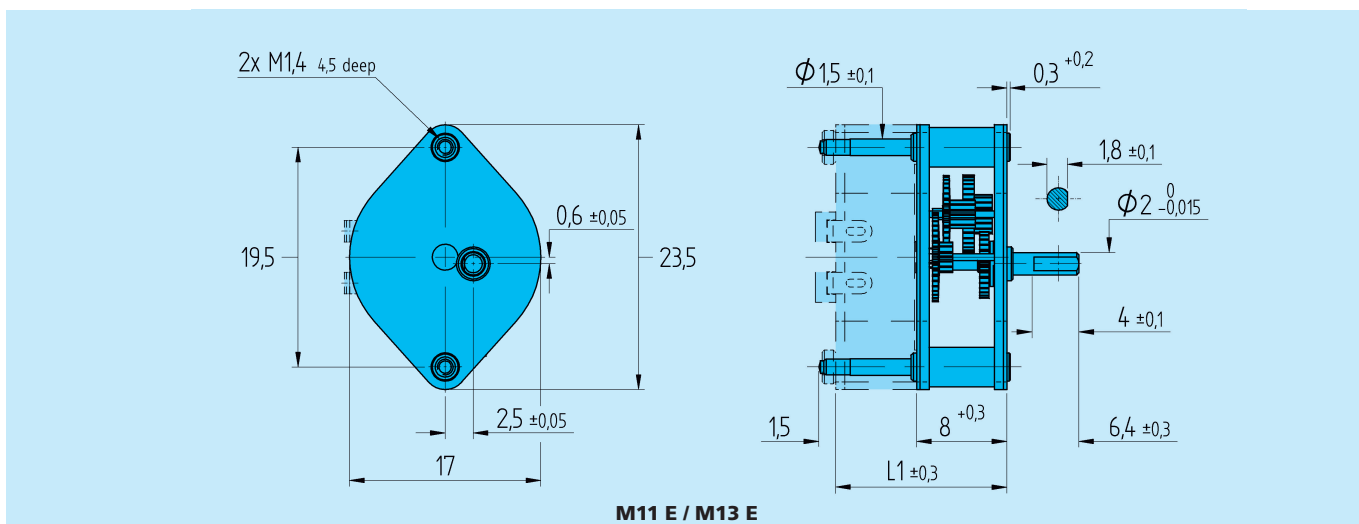
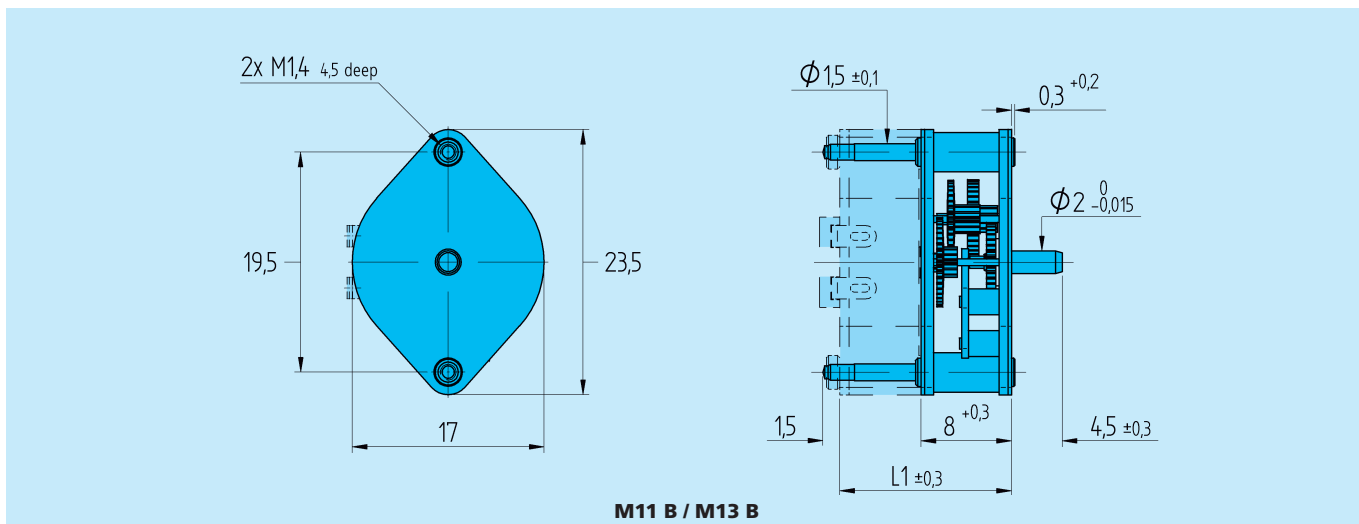
Note: Plastic cap to be ordered separately.
 Gearheads are only available in conjunction with a motor.



M11 A / M13 A

Specifications subject to change without notice.

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