

For combination with:
Stepper motors: AM 0820, AM 1020

Series 10/1

	10/1	10/1 K
Housing material	metal	metal
Geartrain material	all steel	all steel
Recommended max. input speed for:		
– continuous operation	5000 rpm	5000 rpm
Backlash, at no-load	$\leq 3^\circ$	$\leq 3^\circ$
Bearings on output shaft	sintered sleeve bearings	preloaded ball bearings
Shaft load, max.:		
– radial (5 mm from mounting face)	$\leq 1\text{ N}$	$\leq 7\text{ N}$
– axial	$\leq 2\text{ N}$	$\leq 5\text{ N}^1)$
Shaft press fit force, max.	$\leq 10\text{ N}$	$\leq 5\text{ N}^1)$
Shaft play (on bearing output):		
– radial	$\leq 0,03\text{ mm}$	$\leq 0,02\text{ mm}$
– axial	$\leq 0,10\text{ mm}$	$= 0\text{ mm}^1)$
Operating temperature range	$-30 \dots +100\text{ }^\circ\text{C}$	$-30 \dots +100\text{ }^\circ\text{C}$

Specifications

reduction ratio	weight without motor	length without motor L2	length with motor		output torque		direction of rotation (reversible)	efficiency
			AM 0820 L1	AM 1020 L1	continuous operation M max. mNm	intermittent operation M max. mNm		
4:1	g	mm	mm	mm	M max. mNm	M max. mNm	=	%
16:1	6	9,7	23,5	25,5	5	200	=	90
64:1	7	12,8	26,6	28,6	15	200	=	80
256:1	8	15,9	29,7	31,7	54	200	=	70
1 024:1	10	19,0	32,8	34,8	100	200	=	60
4 096:1	11	22,1	35,9	37,9	100	200	=	55
	13	25,2	39,0	41,0	100	200	=	48

¹⁾ Limited by the preloaded ball bearings.
A higher axial load negates the preload.

