



## Servo reducers 2SC-212/2 - 2SC-222/2

AKIM gear technology – Swiss Made.

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A high dynamic and very precise cycloid gear that can be combined with almost all AC and DC servomotors. The motor- gear shaft connection is done with a torsionally rigid and flexible clamp coupling. The ratios of 14 : 1 to 87 : 1 achievable in single stage, are all integer and mathematic precise. In the servo mode, drive speeds of up to 4'500 min<sup>-1</sup> are permissible.

### What really sets AKIM Servo reducers apart from others is.

- Minimum backlash < 1 min can be adjusted to “backlash-free”
- Minimum mass moment of inertia through ingenious construction
- Maximum position accuracy
- Maximum efficiency through special toothed system
- Maximum overload safety
- High torsional rigidity through compact design
- High concentricity
- High ratio range through optimal utilization of space
- High level of quietness during operation
- High input speeds

### General informations.

- Makes use of all the advantages of the toothed system for driving
- Low backlash: The backlash can be adjusted to “backlash free” from outside with the machine is running
- With its special toothed system and highly precise, solid bearings and components operates with low noise and very quietly even at speeds over 4'500 min<sup>-1</sup>
- Achieve efficiencies over 90%
- Very good starting up performance with low motor torques via initial breakaway torque up to 72%
- With its high precision standard has excellent concentricity and constant true-running
- Excellent weight / performance ratio
- The compact design and the optimally dimensioned bearings result in high overload safety and torsional rigidity
- Used for servo applications where maximum accelerations and decelerations are required and maximum position accuracy is one of the specifications of the drive unit
- Lifetime lubricated
- No oil fittings
- Maintenance free

### Standard program.

Type	2SC-212/2	2SC-216/2	2SC-220/2	2SC-222/2
Reduction ratio	14 19 24 29 36 48 60	16 19 24 30 38 48 65	17 21 26 29 36 43 55 66 87	14 17 21 26 29 36 43 59 87
Max. starting torque T <sub>2A</sub> [Nm]	50	115	315	750
Mass moment of inertia J [kgcm <sup>2</sup> ]	0.12	0.4	1.3	3.7
Weight [Kg]	3	8	17	30

Detailed technical documentation is available on our website [www.akim.ch](http://www.akim.ch).