



## AG2250 | Planetary gear units for servo and stepper motors

The AG2250 planetary gears are especially matched to the AM8100 motor series and have been expanded by a two-stage version. For better design, planetary and angled planetary gears are available with the following transmission ratios: 12, 16, 20, 25, 32, 40 and 64.

The AG2250 series completes the range of small, affordable drive technology products. The gears are especially suited to applications where no particularly low torsional backlash is required. The inertia ratios, the required torques and the suitable motors can be conveniently calculated directly in TwinCAT with the TC Motion Designer. In addition, the tool checks in a single step whether the selected motor can be adapted to the gear unit. The planetary gear units are fitted to the respective motor in the factory and delivered as a complete motor/gear unit. The AG2250 series also contains angled planetary gears for space-saving installation of motors at a right-angle.

### Features

- low torsional backlash
- high output torques
- high efficiency
- single-stage planetary gear, transmission ratios 3, 4, 5, 7, 8, 10
- two-stage planetary gear/angled planetary gear, transmission ratios 12, 16, 20, 25, 32, 40, 64
- single-stage angled planetary gear, transmission ratios 3, 4, 5, 7, 8, 10
- two-stage angled planetary gear, transmission ratios 12, 16, 20, 25, 32, 40, 64
- flexible installation position
- lifetime lubrication
- suitable for motors of the AM8100 (48 V DC) and AS2000 (48 V DC) series

Technical data	AG2250
Type of gear	planetary gear/angled planetary gear
Life span	> 30,000 h / > 20,000 h
Lubrication	lubricated for life
Installation position	variable
Protection class	IP 54
Mechanically compatible with	flange code F, N (typical combination according to specifications)

Options	AG2250
Feather key groove	according to DIN 6885 P1
Sizes	2 sizes (PLE40/WPLE40, PLE60/WPLE60)
Gear ratios	13 gear ratios; 1-stage with $i = 4, 5, 7, 8, 10$ ; 2-stage with $i = 12, 16, 20, 25, 32, 40, 64$

Compact Drive Technology series	
<b>AM31xx</b>	Synchronous Servomotors
<b>AM81xx</b>	Synchronous Servomotors for EtherCAT Terminals EL7201 and EL7201-0010 (OCT)
<b>EL7201</b>	servomotor terminal for resolver 50 V DC, $I_{rms} = 2.8$ A
<b>EL7211</b>	servomotor EtherCAT Terminal for resolver, 50 V DC, $I_{rms} = 4.5$ A
<b>EL7201-0010</b>	servomotor EtherCAT Terminal for OCT, 50 V DC, $I_{rms} = 2.8$ A
<b>EL7211-0010</b>	servomotor EtherCAT Terminal for OCT, 50 V DC, $I_{rms} = 4.5$ A