

# SG35 Inline Spur Gearhead

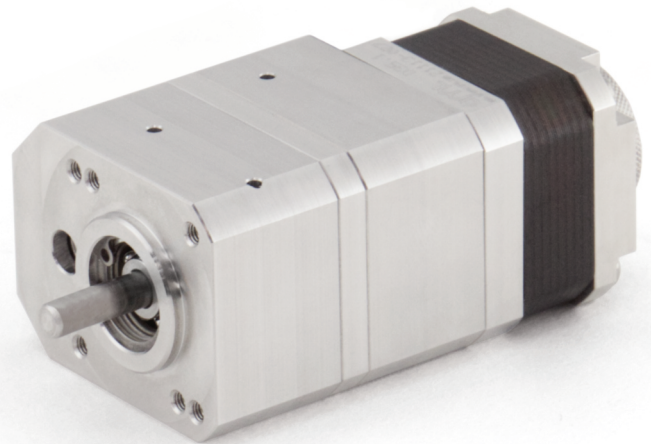
## UHV Inline Spur Gearhead for D35.1 Stepper Motors

The SG35 series of gearheads are designed specifically for AML's D35.1 UHV stepper motors. Primarily used for increasing resolution, torque multiplication and inertia matching. They are designed for maximum torque capacity, high efficiency and zero backlash.

D35.1 UHV stepper motor included.

### FEATURES

- Suitable for use below  $1 \times 10^{-10}$  mbar
- 5:1 ratio
- Efficiency: >75%
- Low inertia
- High precision, zero backlash
- Bakeable to 200 °C
- Operational temperature range -65 °C to +190 °C
- In-line shafts
- Anti-backlash spur gears
- RoHS compliant

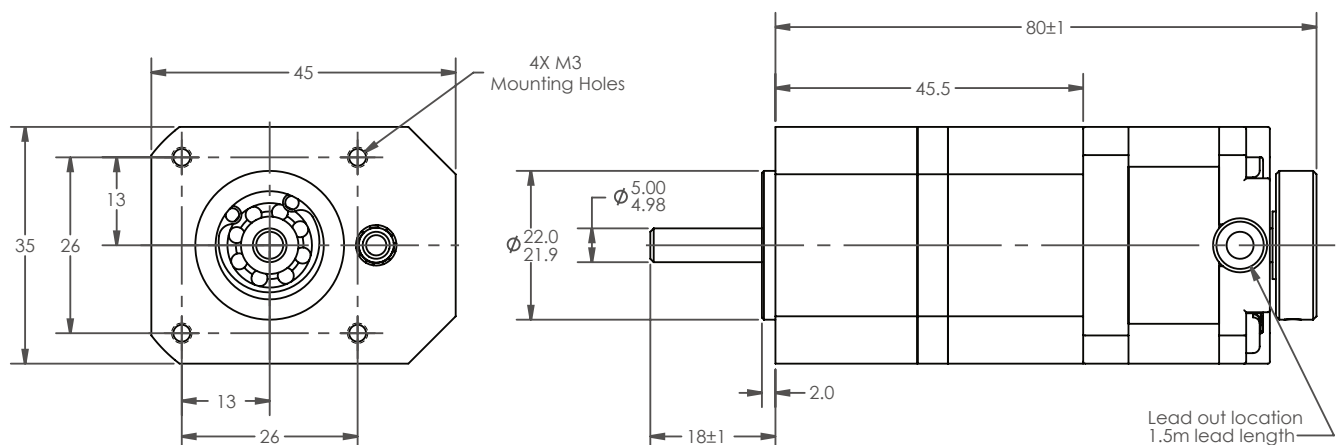


### SPECIFICATION

| Reduction Ratio | Nominal Output Torque <sup>(1)</sup> | Maximum Acceleration Torque | Gear Inertia | Efficiency at nominal torque | Radial Load <sup>(2)</sup> | Axial Load <sup>(2)</sup> | Mass | Lubrication   |
|-----------------|--------------------------------------|-----------------------------|--------------|------------------------------|----------------------------|---------------------------|------|---------------|
| ( :1)           | mNm                                  | mNm                         | kg-cm2       | %                            | N                          | N                         | kg   |               |
| 5               | 350                                  | 450                         | 0.25         | 75                           | 160                        | 100                       | 0.58 | Nyetorr® 6300 |

Direction of rotation: Same as input  
Vacuum environment:  $<1 \times 10^{-10}$   
Max. temperature: +200 °C  
(1) Measured at 500 Hz  
(2) @75 rpm, radial load applied at centre of shaft

### DIMENSIONS



ORDERING INFORMATION

| Order Code |                                                              |
|------------|--------------------------------------------------------------|
| SG35-005   | UHV Spur Inline Gearhead for D35.1 Stepper Motor (Ratio 5:1) |

| Related Products |                          |
|------------------|--------------------------|
| D35.1            | 75 mNm UHV stepper motor |



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AML pursues a policy of continuous improvement and reserves the right to make detail changes to specifications without consultation. E and OE.