

ZD-Planetary Gear box Model number: 78zr5-750t1





Technical Specifications

Model / Series

 Model: 78ZR5-750T1 (ZD planetary / helical planetary gearbox).

Gear / Mechanical

- Reduction ratio: 5:1 (single-stage).
- Stage: 1-stage.
- Gear type: planetary gearbox with helical gear teeth

ower / Torque

- Intended input motor power: 750 W (matches 750 W servo motor).
- Rated output torque (T2N): ≈ 330 N·m (listed for the 5:1, 750 W variant).
- Instant / stall torque (max): ≈ 990 N·m (~3× rated torque as listed).



Performance & Efficiency

- Efficiency (single stage): ≈ 96-97%.
- Backlash: ≤ 3 arc-minutes (high precision).
- Noise: ≤ 60 dB (measured at 1 m / L=100 cm) for the listed model.

Mechanical / Mounting / Size

- Frame / flange size: ~90 mm frame (flange mount listed; compatible with NEMA 42 in many listings).
- Weight: ≈ 8.0 kg (5:1 variant).
- Mounting: Flange mounting (motor coupling to servo / stepper).

Materials & Protection

- Housing / material in listings: Stainless steel (some listings) — other ZD series variants use steel/cast materials depending on SKU.
- Typical protection / lubrication: Lifetime lubrication and option for IP ratings depending on configuration



Applications

 Typical use: matched to 750 W servo / stepper motors for automation, robotics, CNC, printing, packaging, conveyors, anilox drives, etc.

Technical specifications

• Ratio: 5:1

• Stage: 1

• Blacklash: <= 3' (arc-min.)

Rated Output Torque: 330N.m

Instant stop torque: 990N.m

• For Motor: NEMA 42

• Efficiency: 97%

• Noise: <= 60 dB (L=100cm)

Life: 30000 Hour

• Weight: 8,1 Kg

Operating Temperature: -25°C bis +90°C

Protection Grade: IP65