

LT-4 GEARHEAD

LIFETIME SERIES HARMONIC SERVO GEARHEADS

FEATURES

- Lifetime zero backlash
- Ultra-high repeatability (less than 10 arc-sec)
- High positional accuracy (± 1.5 arc-min standard)
- Precision double row angular contact bearing
- Single stage, high reduction ratios from 50 to 200:1
- Quick connect motor coupling
- Customizable motor connections
- Low noise and heat generation



STANDARD SPECIFICATIONS

RATIO		50	80	100	120	160	200	NOTES
NOMINAL OUTPUT TORQUE	Nm	100	100	120	120	120	120	Rated torque at 3,000 rpm input for an average life of 25,000 hours
MAXIMUM OUTPUT TORQUE	Nm	200	200	240	240	240	240	Exceeding the maximum output torque limit may immediately damage the drive
NOMINAL INPUT SPEED	rpm	3000						Input speed at rated output torque for an average life of 25,000 hours
MAXIMUM INPUT SPEED	rpm	4800						The maximum intermittent input speed
MAX. RADIAL LOAD	N	6012						At key center line, calculated at 100 rpm output speed & nominal output torque
MAX. AXIAL LOAD	N	3985						At end of output shaft, calculated at 100 rpm output speed and nominal output
NO-LOAD STARTING TORQUE	Ncm	38	18	16	14	12	11	Minimum input torque required to turn the output shaft with no load
NO-LOAD BACK DRIVING TORQUE	Nm	11	14	15	20	21	22	Minimum torque, if applied to the output shaft, that will cause the unit to back drive
SERVICE LIFE	hrs	25000						Average life at nominal load and input speed
TORSIONAL RIGIDITY	Nm / arc-min	32						Torsional rigidity at nominal torque
REPEATABILITY	arc-sec	± 10						—
POSITIONAL ACCURACY	arc-sec	± 90						—
BACKLASH	arc-sec	0						—
MOMENT OF INERTIA	kgcm ²	2.12						—
NOISE LEVEL	dB(A)	< 67						—
PROTECTION CLASS	—	IP64						—
PERMITTED HOUSING TEMP	°C	90						—
PERMITTED AMBIENT TEMP	°C	0 - 40						—
LUBRICATION	—	Permanent						Mobil Beacon 325 grease, synthetic oil available on request
WEIGHT	kg	6.3						Weight may vary slightly dependent upon adapter options

