

# Selecting the optimum gearhead

No matter which type of servo gearhead is used, a combination of high dynamic performance and long life can be expected. All Mclennan planetary gearheads have the following features:

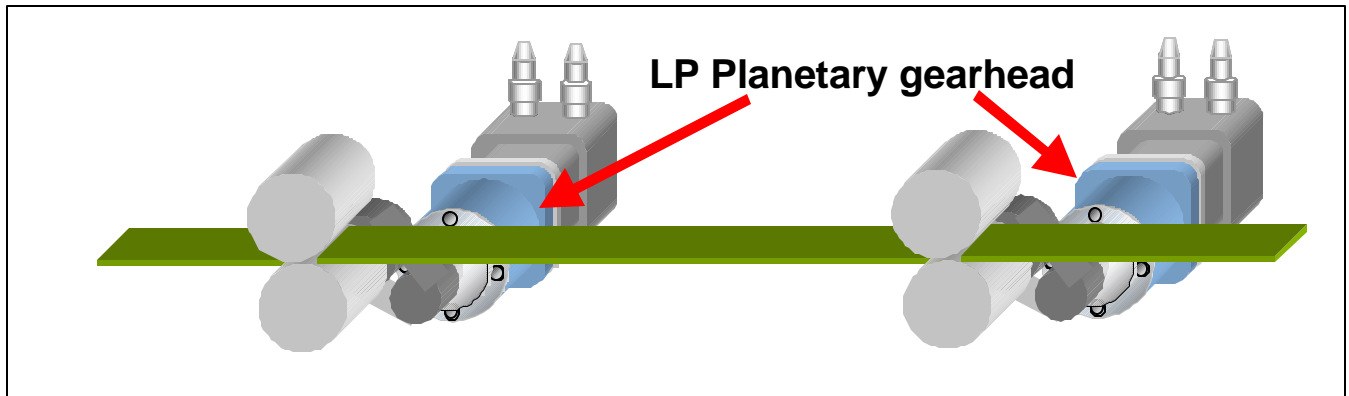
- High continuous and peak torque ratings for use in applications requiring high repetition rates.
- Up to 250% emergency overload capability to protect the gearbox against unusual shock loading
- Exact gear ratios simplify the calibration of positioning systems
- Long maintenance free life of 20,000 hours at full rating
- *Easyfit* motor mounting system for improved serviceability with built-in compensation for differential thermal expansion of the motor body/ shaft
- High torsional rigidity for accurate positioning and stable servo control
- Rapid delivery and world-wide service back-up.

The three models which incorporate these features enable an optimum design solution to be achieved.

## LP series Low price servo gearheads

The LP series gearheads featured extensively in this catalogue offer an economic solution to a wide range of industrial applications such as packaging, transfer line advancement and a variety of industrial process automation applications requiring peak torque ratings up to 210 Nm.

Since typical backlash of LP series gearboxes is  $\leq 12$  arc minutes they may be used in a variety of applications requiring medium accuracy such as component advancement conveyor drives as shown.



## LP series High performance low backlash gearheads

The LP series gearhead is recommended where high precision is required. With standard backlash down to 4 arc minutes ( 2 arc minutes to special order) coupled with high torque ratings up to 1200 Nm, these units are ideal in applications which require high dynamic performance combined with high positioning accuracy and repeatability.

Typical industrial applications include machine tool, punch press positioning, printing machine registration systems, and laser cutting etc. Scientific mechanisation systems achieve extremely high accuracy using LP geared motor systems while military applications such as Naval gun control benefit from the LP gearbox's ability to provide high acceleration rates for target tracking and virtually backlash free positioning accuracy.

