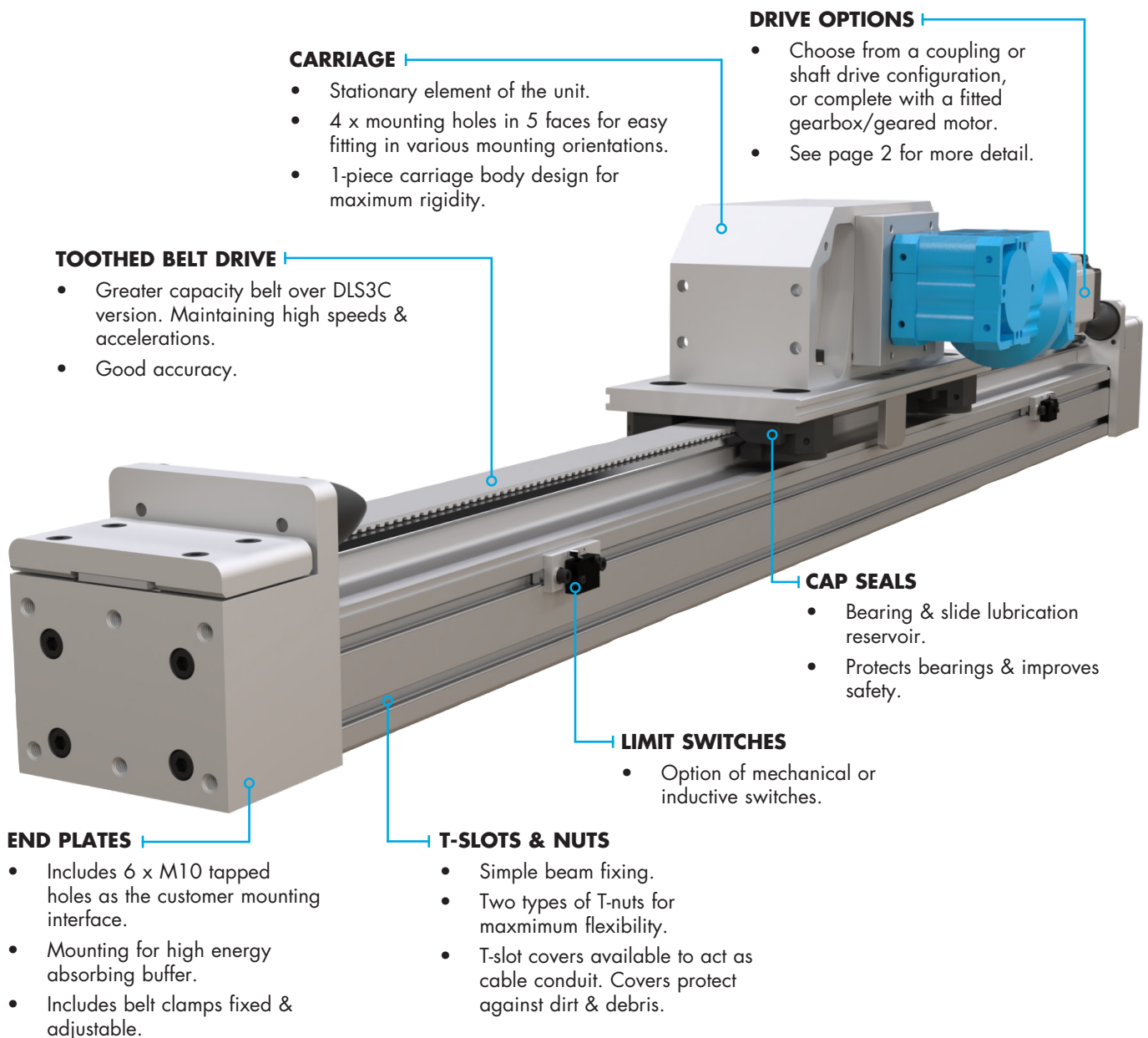




## DLS5C - High Capacity Cantilever Axis

HepcoMotion has expanded the popular DLS range to include a high capacity cantilevered axis; the DLS5C. This latest addition is designed to provide solutions for applications such as those which exceed the limits of the DLS3C, or for those which require a more cost-effective Z-axis solution for HGS systems.

DLS5C is suitable for applications requiring driving forces up to 2625N, which is significantly greater than the alternative DLS3C, and strokes up to 3.2m. The DLS5C can be supplied with a fitted AC geared motor or gearbox with connection flange. Customer specific motors or gearboxes can also be accommodated for; please discuss this with our technical sales team.



### CARRIAGE

- Stationary element of the unit.
- 4 x mounting holes in 5 faces for easy fitting in various mounting orientations.
- 1-piece carriage body design for maximum rigidity.

### DRIVE OPTIONS

- Choose from a coupling or shaft drive configuration, or complete with a fitted gearbox/geared motor.
- See page 2 for more detail.

### TOOTHED BELT DRIVE

- Greater capacity belt over DLS3C version. Maintaining high speeds & accelerations.
- Good accuracy.

### CAP SEALS

- Bearing & slide lubrication reservoir.
- Protects bearings & improves safety.

### LIMIT SWITCHES

- Option of mechanical or inductive switches.

### END PLATES

- Includes 6 x M10 tapped holes as the customer mounting interface.
- Mounting for high energy absorbing buffer.
- Includes belt clamps fixed & adjustable.

### T-SLOTS & NUTS

- Simple beam fixing.
- Two types of T-nuts for maximum flexibility.
- T-slot covers available to act as cable conduit. Covers protect against dirt & debris.

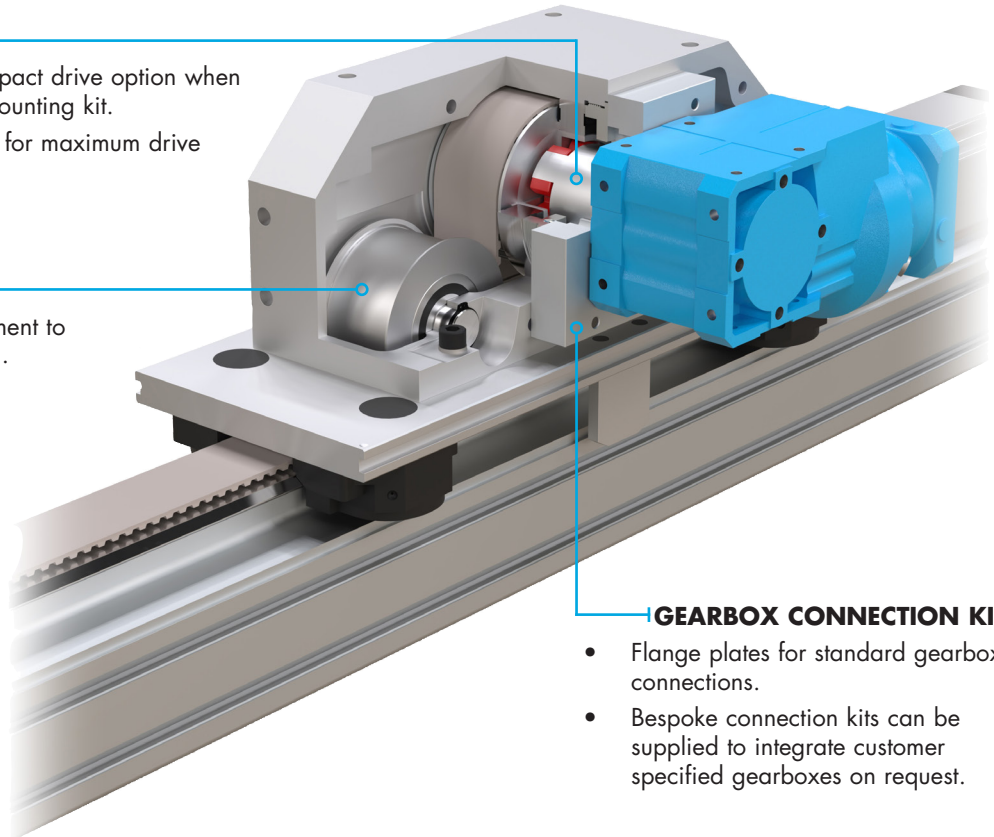
## DLS5C - High Capacity Cantilever Axis

### COUPLING INPUT

- Coupling input for a compact drive option when paired with a gearbox mounting kit.
- All-in-one coupling pulley for maximum drive efficiency.

### COMPACT DESIGN

- Compact pulley arrangement to minimise moment loading.



### GEARBOX CONNECTION KIT

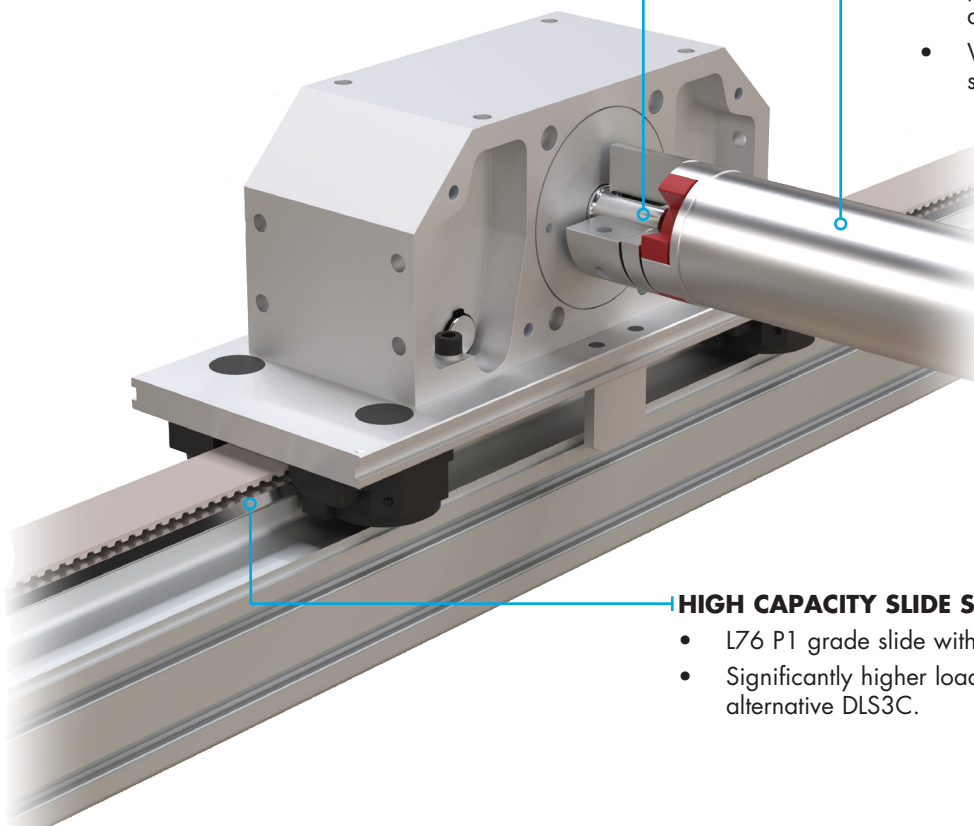
- Flange plates for standard gearbox connections.
- Bespoke connection kits can be supplied to integrate customer specified gearboxes on request.

### SHAFT INPUT

- Keyed or non-keyed shaft input for a range of drive configurations.

### CONNECTION SHAFTS

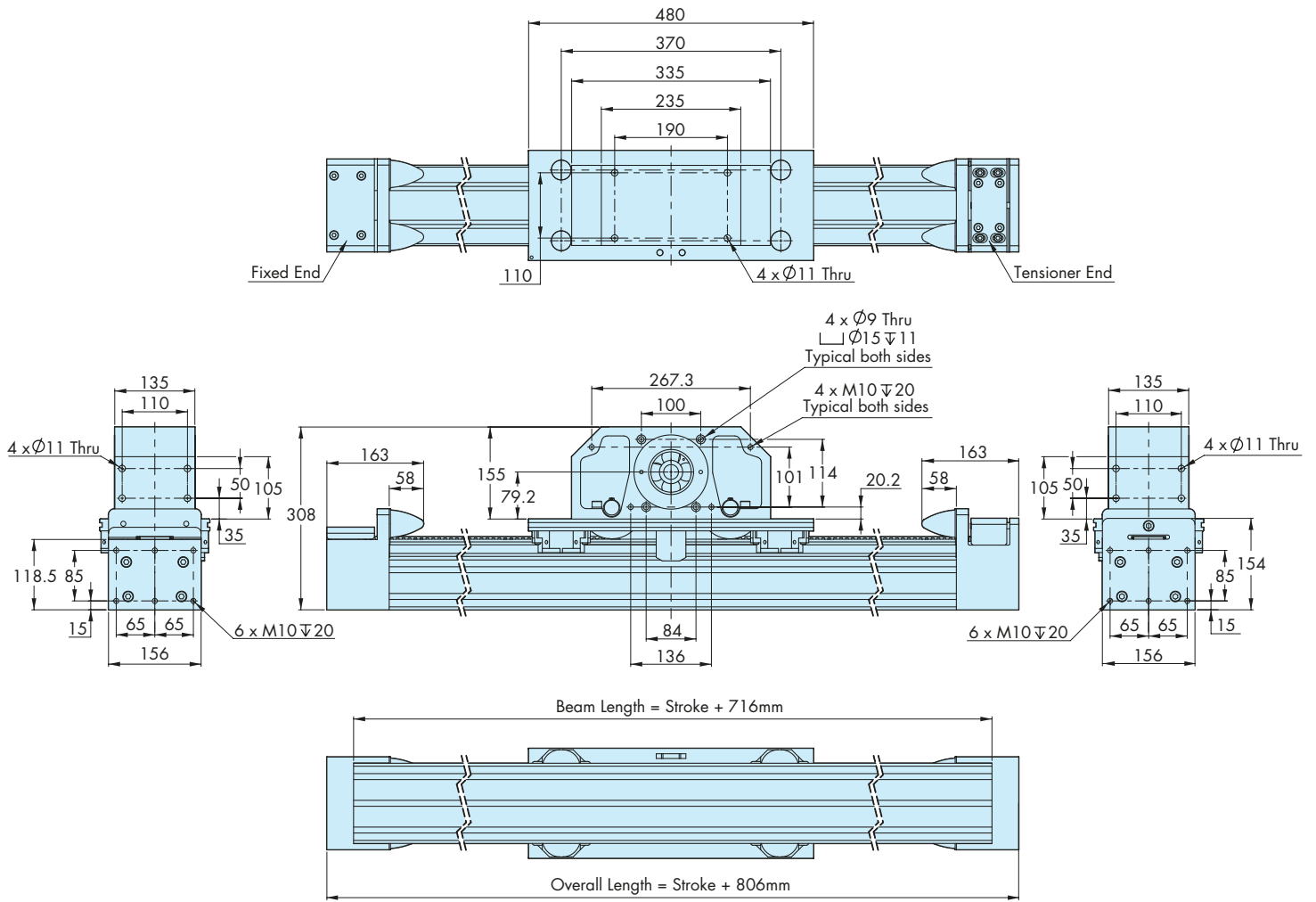
- This configuration lends itself to twin Z-Axis applications, in a large HGS application for example, where a twin output shaft gearbox paired with connection shafts, can drive both axis in tandem.
- We can supply connection shafts specifically for your application.



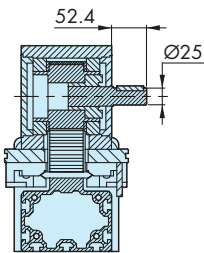
### HIGH CAPACITY SLIDE SYSTEM

- L76 P1 grade slide with size 54 double row bearings.
- Significantly higher loadings compared to the alternative DLS3C.

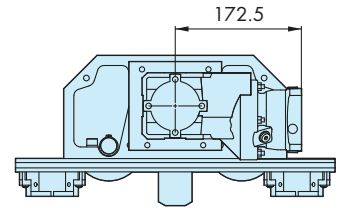
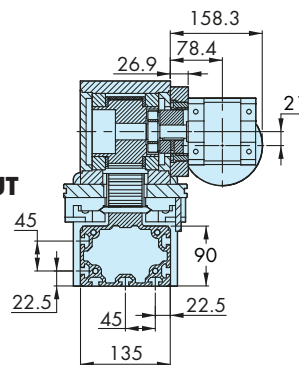
# Data & Dimensions



**SHAFT INPUT**  
(⊘ Section)

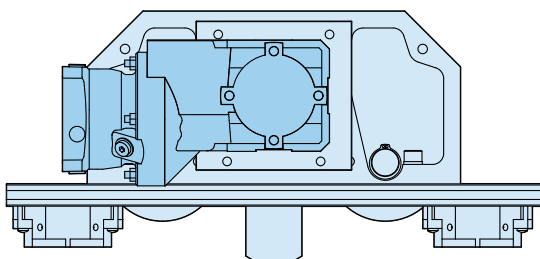


**COUPLING INPUT**  
(⊘ Section)

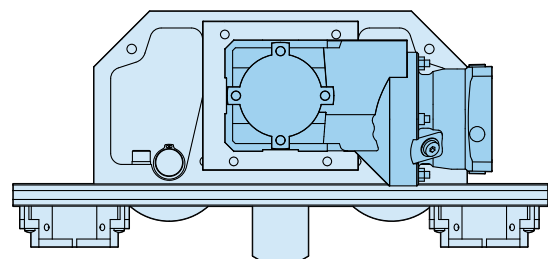


## NOTES

1. The geared motor option may only be fitted onto the DLS5C in one of 2 positions shown below (Viewing from the motor side of the carriage).
2. To determine the hand of the unit, it must be viewed from the gearbox side. A right-handed unit will have the fixed end on the right, and a left-handed unit will have the fixed end on the left. Component mounting does not impact unit handing, as the mounting interface is the same on both end plates. **The illustration above shows a left-handed unit.**



Gearbox Mounting Position 1



Gearbox Mounting Position 2

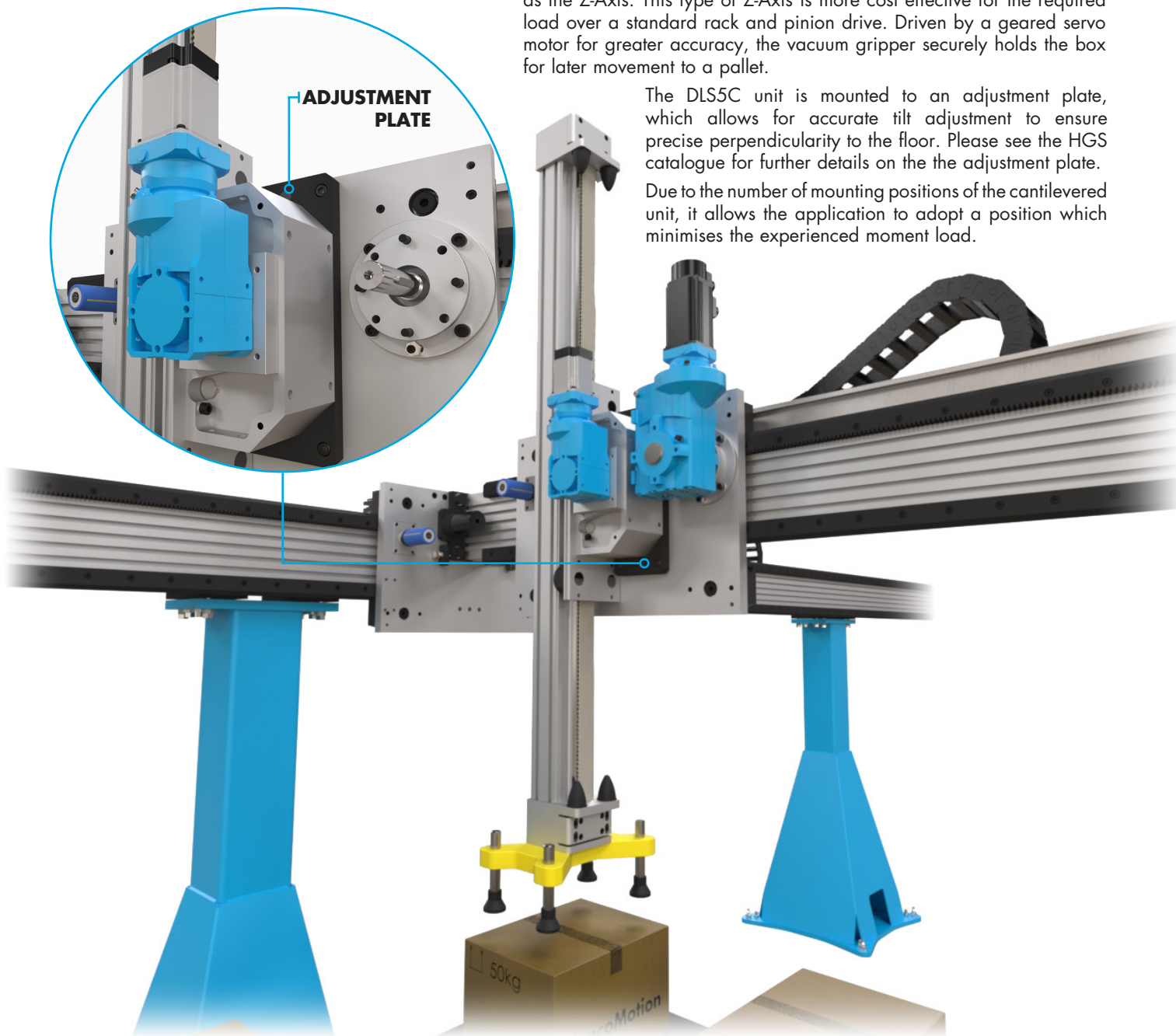
# Application Example and Ordering Details

## HGS SYSTEM Z-AXIS BOX PICKER

The system illustrated shows a large scale HGS system, with a DLS5C unit as the Z-Axis. This type of Z-Axis is more cost effective for the required load over a standard rack and pinion drive. Driven by a geared servo motor for greater accuracy, the vacuum gripper securely holds the box for later movement to a pallet.

The DLS5C unit is mounted to an adjustment plate, which allows for accurate tilt adjustment to ensure precise perpendicularity to the floor. Please see the HGS catalogue for further details on the the adjustment plate.

Due to the number of mounting positions of the cantilevered unit, it allows the application to adopt a position which minimises the experienced moment load.



### ORDERING DETAILS

Beam Length in mm - 4000mm Max. **DLS5C 2023 L C**  
 Input Handling - **R** or **L** drive input (Please refer to page 3 for details) **C S**  
 Input Drive Type - **C** indicates coupling input **S** indicates shaft input

If you would like the unit to be supplied with a Hepco specified gearbox, or geared motor, please contact our technical sales team for further information. We can assist with specifying the correct gearbox and/or motor for your application.

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