

System Composition

Linear Motion System with Drive Facility / Support Structure

Pages 2-7 provide an overview of the comprehensive GV3 linear motion programme. Below is shown the range of GV3 products available with enhanced features to provide a complete engineering package.

The GV3 philosophy is to provide a solution to every linear motion problem.

BELT DRIVEN CARRIAGE [46-47](#)

- Use with Flat Slides, Spacer Slides or Slide Beams in all grades of precision.
- Choice of 5 sizes each available in two useful lengths.
- Integral belt tensioners for ease of adjustment.
- Removable mounting platform for ease of customising.
- Tapped holes for convenience of attaching components.
- Available with most Hepco Standard Bearing variants and Lubrication devices.

TIMING PULLEYS [46-47](#)

- Low backlash profile for high positional accuracy.
- Width to suit Belt Driven Carriages.
- Diameter enables belt return through Slide Beam.

TIMING BELT [46-47](#)

- High strength, steel reinforced AT profile open length belt.
- Cut to length, up to 50 m.
- Widths to suit Hepco Belt Driven Carriages & Pulleys.

SLIDE BEAMS [30-31](#)

- Can be used as machine construction member.
- Strong section, spans wide gaps.
- Available up to 8 metres in one piece.
- Choice of 2 beam sections and 5 Slide widths.
- Slides available in 3 grades of precision.
- Lightweight version available.
- Counterbored Slide version for belt support.
- Hollow centre for belt, cable or chain return.
- T slots for attaching components.
- Plastic T slot covers, T nuts and fixing clamps available.

SEPARATE RACK [44](#)

- As used in Rack-Slide assembly.
- 4 sizes available.
- Lengths up to 1.83 m, longer lengths achievable by butting.

PINIONS [45](#)

- Please see previous page for features.

RACK DRIVEN CARRIAGE UNIT [48-49](#)

- Carriage includes drive pinion & AC geared motor or gearbox.
- Carriages available to suit 7 rack-slide sizes.
- Size, shape, and drive position bespoke to your requirements.
- Carriages available with all Standard Bearing types and Lubrication devices.
- Fine adjustment facility for pinion assures low backlash.
- Gearbox, Flange, Pinions & Motor are available separately for use in your own design, or with rack cut single edge slides or separate racks.

RACK-SLIDE ASSEMBLY [24-25](#)

- Dowelled Rack-Slide assembly is ready to fix to your mounting surface.
- Available in 10 useful sizes and 3 grades of precision for Slide.
- Slides with compound racks available up to 4 metres, unground slide grade to 6 metres.
- Unlimited Rack-Slide length achieved by butting.
- Attractive, corrosion inhibiting black finish on unground Slide faces and on Rack.

