## Tyre Cord Creel Specification

The Cygnet Texkimp Tyre Cord creels are fixed position or mobile creels for unwinding tire cord from random, or precision cross wound packages. The tyre cord creels feature a wide variety of available features to customise the creel for unwinding applications, such as into tyre cord weaving processes or treatment lines.

### Process
Weaving tyre cord and high speed unrolling of tire cord, typically into single cord treatment lines.

### Materials/ Applications
Polyester, Polyamide, Rayon, Aramid or hybrid yarns

### Typical Speed
Typical speeds of 1000 picks per minute (10m/min.)
Up to 200m/min, subject to yarn and package quality

### Unwinding
- **Type**: Unrolling
- **Yarn Path**: Horizontal between rows

### Typical Arrangement
Customisable, trolley or fixed design

### Packages
Type: Cheeses, wound on parallel sided tubes,
Or flanged bobbin packages
Precision cross wound or random wound

**Typ. Traverse**: 250mm (10”)
**Typ. Dia**: 310mm (12”), 350mm
**Typ. Weight**: 14kgs (30lbs)

### Available Features
- Minimum spindle to spindle tension variation.
- Available as a hybrid creel with quick change adaptors for running either cheeses or flanged bobbins
- Adjustable tension control at each position.
- Mechanical tension compensator compensation during unwinding
- Low tension unwinding.
- Quick stopping without over-tensioning the cords.
- All cords kept separate down length of creel to avoid roping and crossing.
- Ideal optimised unwinding triangle to first guide.
- Package holder design enables easy loading and doffing.
- Ceramic Guides. Gravity or centrally controlled tension system.
- Standard or needle bearings for friction / tension requirements of application.
Quick thread guide system.
Braking System for very large packages.

Mobile module with single handling of packages between cabler and creel.
2 operators can change out 1800 positions in approximately 2 hours.
No re-threading at changeover
Each module can be placed anywhere within the creel.
Centrally adjustable tension system from one position on each creel section.
All thread paths see similar yarn angles
Package holder design enables easy loading and doffing.
High visibility threading system for easy inspection – eliminates all crossed ends.

Trolley with single handling of packages between cabler and creel. Each trolley can be placed anywhere within the creel
Large diameter wheels for easy movement when fully loaded.
Package holder design enables easy loading and doffing.
Narrower gangways between sections, for threading only.

Specification can be varied to suit any requirement

Optional extras:
End Break Detection System - Beam Type
End Break Detection System – Dropper Type
Fixed and Variable Condenser Boards and Combs
Splicers, Splice Tables, Splice Ovens