



Driven unwind creel systems are a motorised spindle with tension control on each position, by use of a dancer arm mechanism. The drive motor is controlled using a signal feed-back from the dancer arm. The design concept is modular, allowing great flexibility over the layout, positioning of spindles and dancer arm. This system ensures the tension control is not affected by the changes in package size, acceleration or process speed.

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- Speed from 10mpm-300mpm
- From 8kg-500kg packages
- Package types - Cheeses or flange bobbins
- Maintains tension - During acceleration and deceleration

DRIVEN UNWIND CREEL

Specification can be varied to suit any requirement

Process	Any process requiring: High accuracy of unwinding tension Accurate tension control Suited for processes that have sudden acceleration/deceleration or speed changes
Materials / Applications	Most common in applications for composites processing (aramids, glass, carbon fibre) Any material or application requiring precise tension control
Typical Speed	1m/min to 300m/min
Unwinding	Type: Unrolling Yarn Path: Horizontal/Vertical
Typical Arrangement	Supplied in modular form or custom made frame Left or right hand take-off
Typical Specification	Adjustable tension settings to suit process Acceleration: To suit process Max package weight: 25kgs (55lbs) for light duty (e.g. composite applications) 500 kgs (110lbs) for very heavy duty applications (e.g. precursor) Tension accuracy: Better than $\pm 5\%$ from set point
Features Available	Accurate tension setting and control via dancer arm Constant tension output as package runs from full to empty Bi-directional drive for precise tension control during acceleration and deceleration. Wide range of package holders and guide systems available. Individual start / stop controls for each drive, central power isolator, circuit protection, safety relay and emergency stop button. Central tension control, manual or automatic via touch screen display, with extended tension ranges over standard dancer. Over tension monitoring and end break detection incorporated into dancer arm control systems. Set point and operating tensions can be managed from control system. Manual operation or auto operation, with line health & status updated to control system closed loop tension control from integrated load cell Available to IP65 (dust protection for use with carbon fibre) Mounted on a frame or on a robot.
Optional Extras	End break detection system Fixed and variable condenser boards and combs Splicers, splice tables, splice ovens