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# Uhing Motion Drive®



The Uhing Motion Drive® is the latest innovation from Uhing based on a modified Rolling Ring Drive, which is controlled by sensors and an electronic control unit programmed with custom software.

As both the software and hardware have been engineered together they work in perfect harmony.

One advantage of the UMD is the fact that since the drive's stroke width is stored it is simple to adapt a given winder to another material, another spool or even both at the push of a button. This reduces set up time hugely, cutting down on process costs as well as errors.

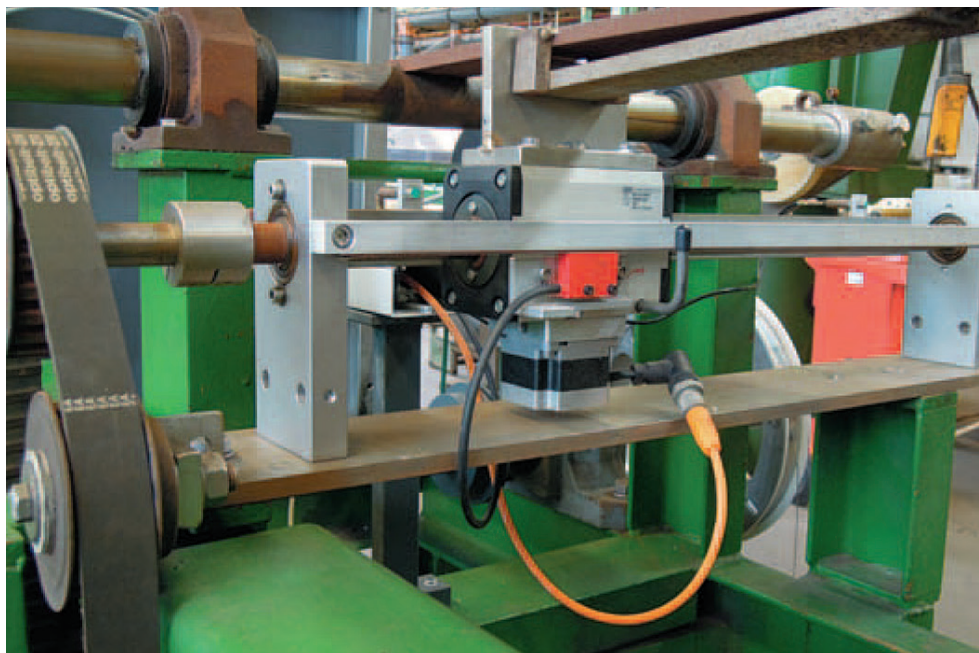
It is also possible to input and control parameters of speed, action/reversal points, and traversing widths for maximum flexibility and customised winding patterns.

**As this is a customised product  
please contact us for a quotation.  
Tel: +44 (0) 1923 22227  
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## Areas of Application

The Uhing Motion Drive® was designed in particular for winding and traversing processes in the wire and cable industry, as well as for handling and XY gantry systems.

Other possible applications are general drive technology processes where a linear motion is required within limits specified by the respective systems.



Uhing Motion Drive® integrated into an existing customer's machine.

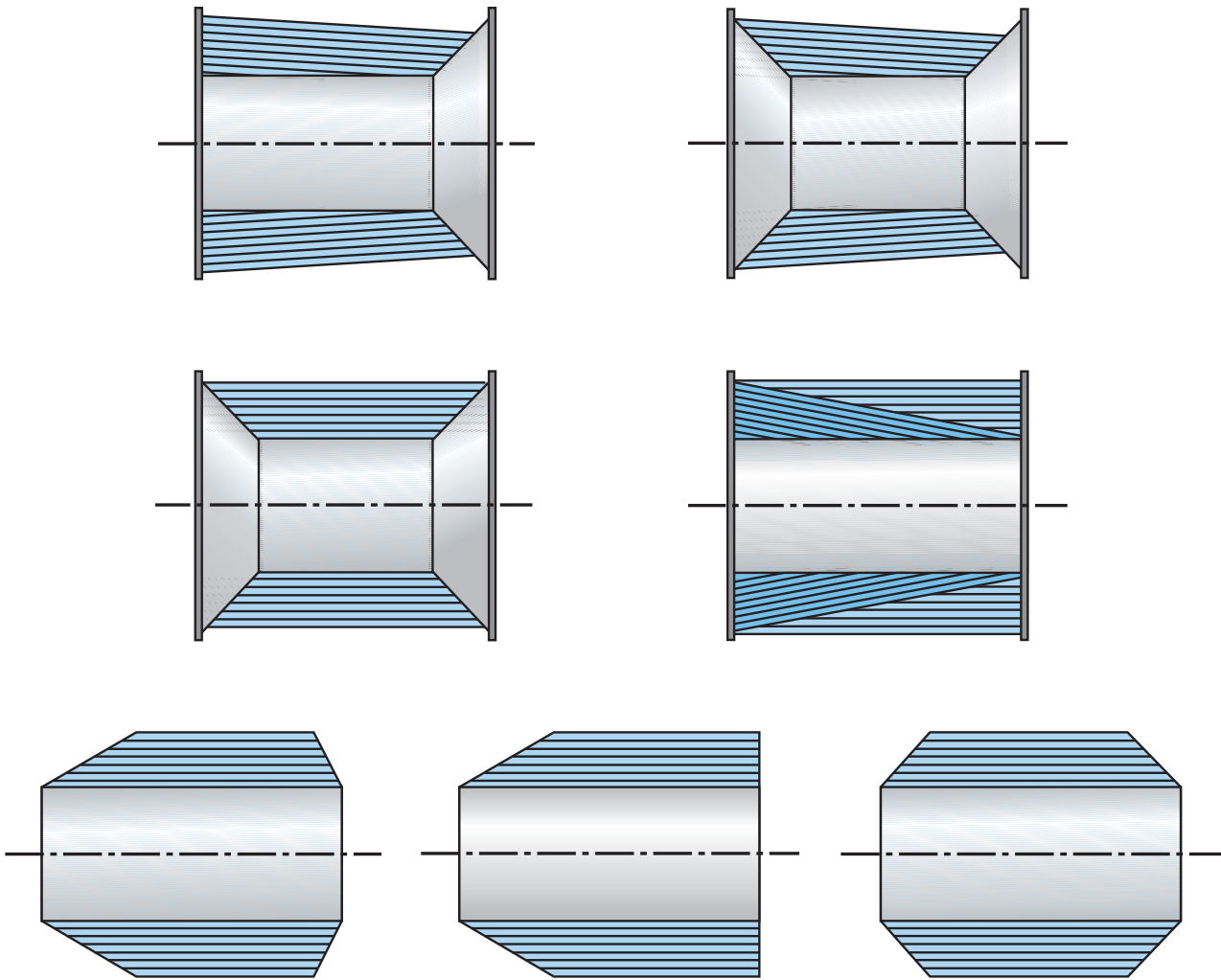
## Advantages

- One system to operate the widest range of spool types: rectangular, bi-conical, single conical, etc.
- Freely definable winding patterns
- Spool types can be stored
- Robust and reliable Rolling Ring Drive technology
- The Uhing Motion Drive® also offers all the benefits of the tried and tested Rolling Ring Drive technology
- No more calibration and test cycles for winding applications
- Internal detection / elimination of errors
- Multi-station systems are possible
- Mechanically compatible with conventional Rolling Ring Drives – they can be converted
- Constant speed with different shaft speeds, or different speeds with constant shaft speed
- Mechanical synchronisation between winding shaft and "Uhing shaft"
- Freely definable motion programmes
- Definable action/reversal points
- All components compliant with industry standards
- Integration into customer's machine controller possible
- Flexibly adjustable - nearly all special Rolling Ring Drive variants can be implemented



Customer's desired winding pattern.

## Winding Pattern Examples



## Description of Operation

Control of parameters for speed, action/reversal points and traversing widths are inputted with the convenient touch screen. The function keys are used to access the respective submenus such as motion programmes, task memory, maintenance management, or troubleshooting.

The default motion programme is for winding on spools, which means you only have to specify the dimensions of the material, the spool width, and the speed. Reference and test cycles for a new spool are unnecessary, and winding restarts quickly with the next spool. Just specify the required parameters and start.

**CAUTION:** Make sure the dimensions match the technical configuration of the traversing system when specifying parameters.

The integrated magnetic position measuring system detects and moves to the action points.

The Uhing Motion Drive® monitors the motion programmes and can compensate for any deviations. The control unit detects errors that occur while a motion programme is in progress and triggers a system stop for troubleshooting.

Parameters describing, for example, different spools or materials can be stored in the internal database.

All of which helps reduce set-up times and the potential for error.

