

# Ridgway Kapton<sup>®</sup> Taping Line FOR ROUND AND FLAT CONDUCTORS

*Designed to insulate round or flat conductors by applying Kapton<sup>®</sup> tape and bonding by heat applied by induction and radiant ovens.*



## Kapton<sup>®</sup> taping Line...

### Pay off drum stand

- ▼ Complete range—torque and dancer control available.

### Straighten and clean unit

- ▼ Sets of hardened steel rollers and powered brushes ensure that the conductor is perfectly straight and clean prior to applying the Kapton<sup>®</sup>.

### Kapton<sup>®</sup> taping machine

- ▼ Horizontal taping bay fitted with a twin servo concentric taping head.

### Caterpillar

- ▼ Up to 5000N pull.  
Servo drive, synchronised to tape head speed.  
Pneumatically controlled belt pressure.

### Induction heater

- ▼ Rapid heating of conductor to approx. 320°C to aid adhesion of Kapton<sup>®</sup>.

### Radiant oven

- ▼ Fully automated—retracts when line stops to prevent burning of Kapton<sup>®</sup>.

### Conductor cooling unit

- ▼ Re-circulated chilled water conductor system. Air wipe attached for conductor drying.

### Spark tester

- ▼ High frequency spark tester with bead chain for finished product quality control.

### Control system

- ▼ Full communication and control between all line elements including ancillary equipment.

### Take up drum stand

- ▼ Servo driven drum carriage for control of conductor layering. Dancer controlled variable torque geared motor, combined with ultrasonic sensors ensures precise conductor tension throughout the winding process.

## ▼ SPECIFICATION

**Kapton<sup>®</sup> concentric taping head**

**Twin servo drives for constant tension**

**Taping head speed**  
Up to 2000rpm

**Tape tension**  
5 to 50N

**Taping spindle through bore**  
Ø25mm

**Conductor capacity**  
Ø1.5mm to Ø6.5mm  
3.0mm x 1.0mm  
up to  
13.3mm x 3.0mm

**Tape pad**  
Max. Ø320mm  
Core Ø75/76mm  
Width 6mm to 30mm  
Weight up to 9.0kg

**Line speed**  
Up to 20m/min

**Electrical supply**  
415v 3 phase 50hz—152 amps  
Other voltages available

*Top quality solutions to  
all your taping machinery  
requirements are only a  
contact call away...*



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