

Kappa 210

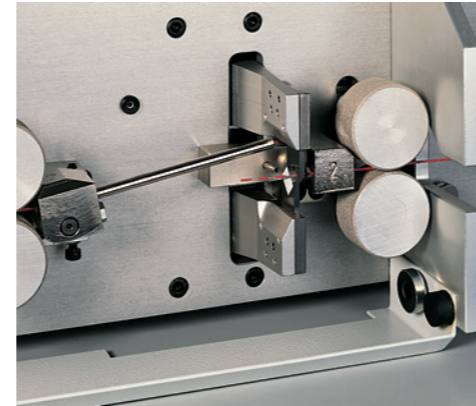
Kappa 220

Kappa 225 with optional length measurement system



Kappa 235 featuring optional inner conductor processing

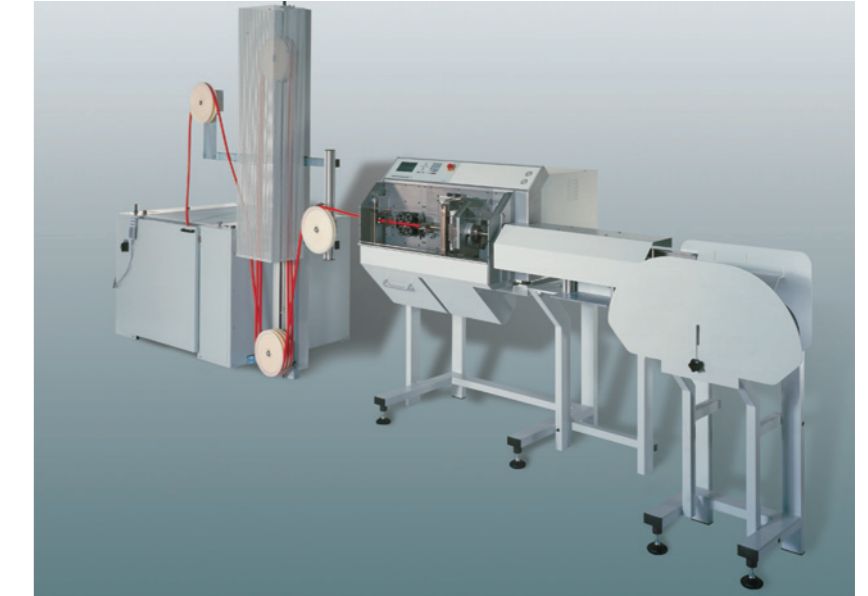
Kappa 240



Solid cutting/stripping head in all models



Kappa line with K109 dereeler, KappaWIN, ims 291 ink jet marker, dps 272 take-up unit, and dps 261 binder.



Kappa 240 on production table with RA 800/300 dereeler and Komax 280 deposit system

## A joy to operate Kappa 210/220/225/235/240

*Performance, precision, user friendliness are three of the key features of the Kappa automatic wire cut & strip machines. Equipped with the latest in technology, these devices offer the ultimate in flexibility. Careful attention was paid to simple, quick conversion of these automatic machines.*

### Scope of use

The Kappa family has perfected the art of cutting to length and stripping individual and special wires. Stripping is done in steps, which means even extreme lengths can be stripped in perfect quality. These automatic machines cover a large range of cross sections and can each be put to all-purpose use in standalone operation.

The Kappa family supports a variety of further processes such as wire marking and flat cable processing.

### Technology

Ultra modern microprocessor technology optimizes the movement sequences. Cutting heads and pressure rollers are CNC controlled. This allows the unique set-up and saving of all wire-related processing parameters.

Manual set-up procedures are reduced to a minimum.

### Efficiency

The standard memory has capacity for 150 different wires. Recurring jobs can be set-up in seconds. Sequences of up to 100 individual wires can be programmed. These memory functions, coupled with quick-change guide parts, assure efficient utilization for series large and small.

When the optional KappaWin software is used, all machine functions can be controlled from a PC or laptop. In other words, the entire systems and all upstream and downstream devices can be operated from a PC.

### Special features

The user interface is identical for all Kappa models. This means a minimum of training is needed when different models are used. The graphical LCD display provides optimum assistance during set-up and production. The user can switch to a different language at any time. All process data can be entered with ease from the clearly laid-out keyboard. A RS232 interface is integrated as standard equipment in the

Kappa 220, 225, 235 and 240 automatic machines, allowing communication with a higher level computer (network or KappaWin). Clearly structured inputs/outputs enable a variety of peripheral devices to be triggered, e.g. an ink jet marker.

### Kappa 210

Compact and solid. The machine for small cross sections and essential applications. Low-cost machine for simple applications.

### Kappa 220

High equipment range. Comes equipped with convenient interfaces. A lot of accessories are included in the delivery. KappaWin capable from this model on.

### Kappa 225

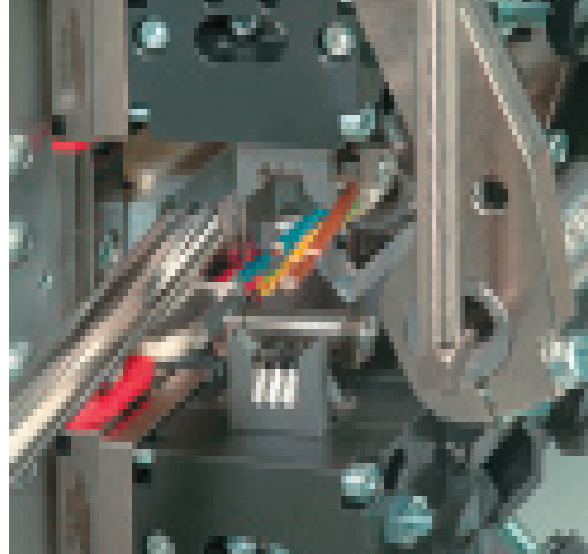
Enhanced performance. Extremely high cutting and pull-off forces. Can be expanded by adding a length measurement system and a lot of other options.

### Kappa 235

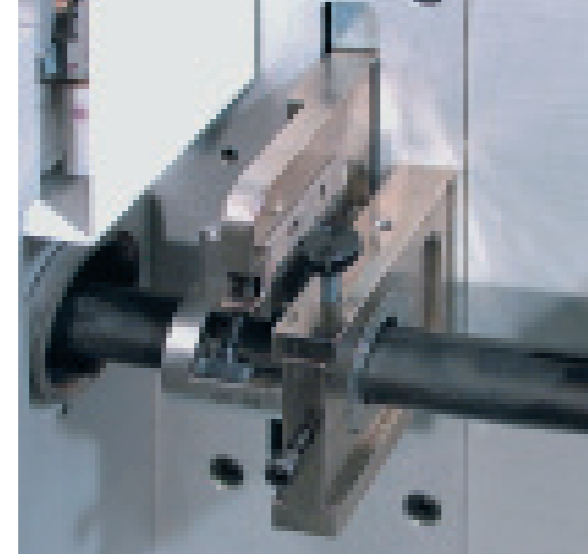
The top model. Powerful double-roller drive for gentle application of force to the wires. Excellent drive performance and transport speed. Simplified quick programming. Optional processing of inner wire. The outer sheath and the insulation on the inner conductor are stripped in two steps. The sheath can be slit with appropriate blades/guide parts.

### Kappa 240

The power pack. Swiveling and programmable stripping head. Identical V-blades for the entire cross section area. Pneumatic cutting head for larger cross sections of up to 95mm<sup>2</sup>. Stripping lengths of up to 10m thanks to combined use of slitting head (option) and stripping blade. The encoder measurement system ensures maximum accuracy in length measurement even when difficult processing is involved.



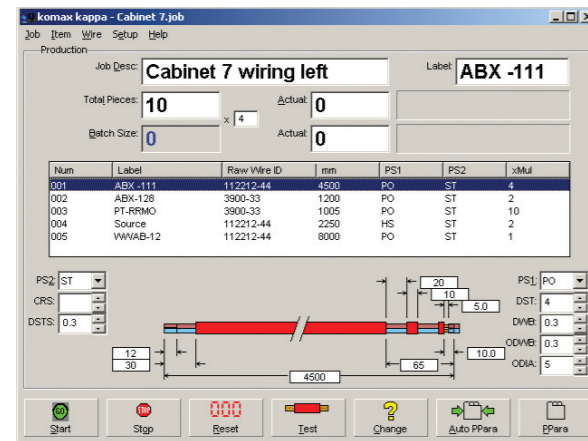
Kappa 235 inner conductor processing (option)



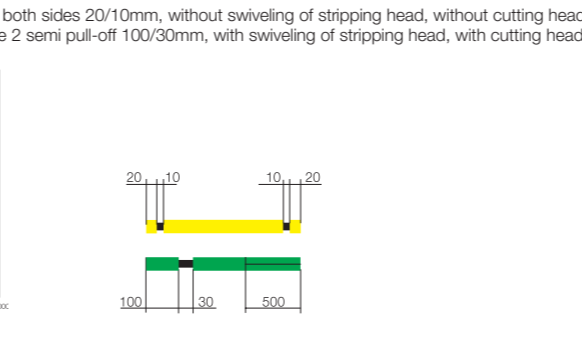
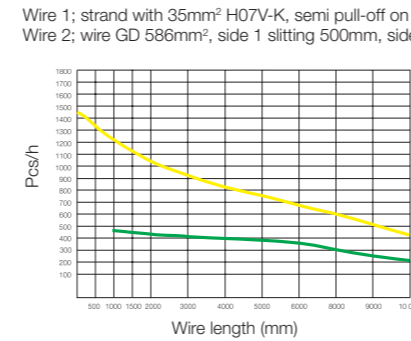
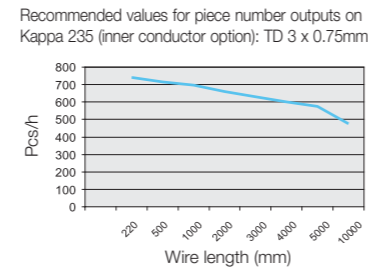
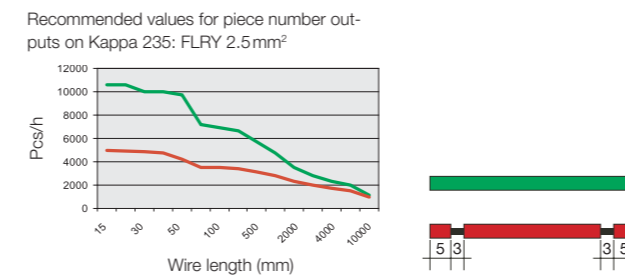
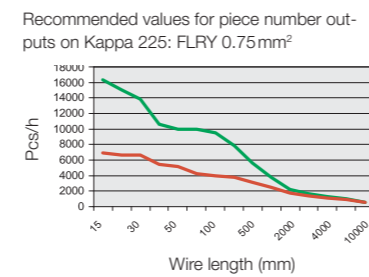
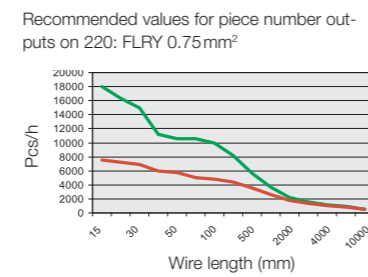
Kappa 240 slitting head (option)



Graphic liquid crystal display with clearly laid-out keyboard



KappaWin software (option)



### Accessories

The Komax Kappa family can be adapted and supplemented as desired to meet specific customer needs.

- Wire preparation
- Delivery systems
- Marker
- Flat cable notching machine
- Intermediate stripping machine

### Options

- Production tables
- PC software
- Length measurement systems
- Slitting unit
- Flat cable processing
- Inner conductor processing
- Spare parts kit
- Downstream units
- Flat cable notching machine
- Deposit systems
- Coiler

### Services

- Komax also offers you optimum after-sales support.
- Local sales support
- Production assistance
- Training for different user levels
- Worldwide customer service with complete supply of spare parts

### Technical Data

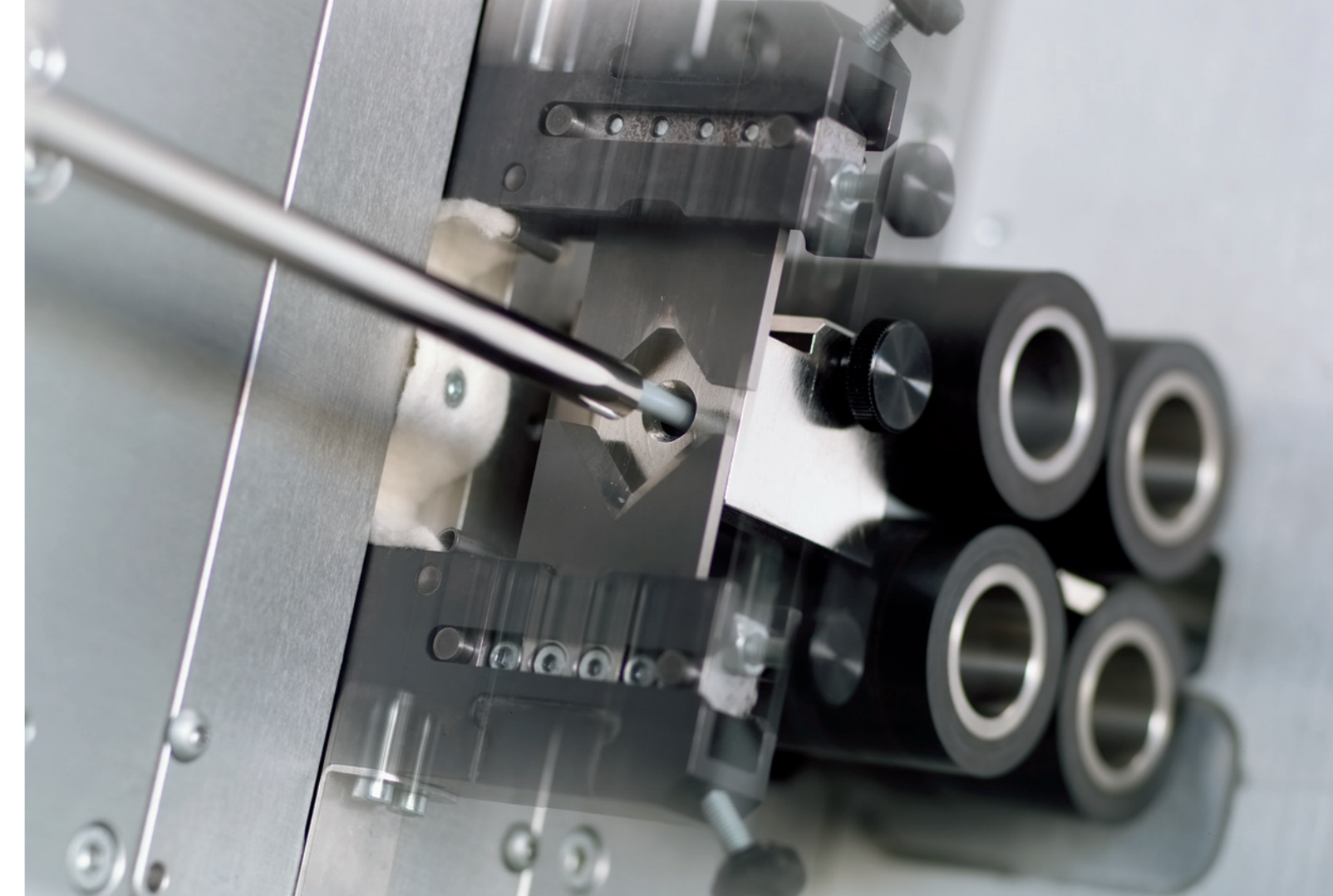
|  | Kappa 210                                     | Kappa 220                                     | Kappa 225                                     | Kappa 235                                     | Kappa 240                                      |
|--|---|---|---|---|--|
| Length range                           | 1mm – 200'000mm                               |   |   |   |  |
| Length accuracy                        | +/-1mm or <0.2% depending on wire length      |   |   |   |  |
| Stripping lengths S1 <sup>1</sup>      | Full pull-off<br>40mm                         |   | 9999.9mm                                      |   | 50mm   |
|  | Semi pull-off<br>40mm                         |   | 9999.9mm                                      |   | 9999.9mm                                       |
|  | Multiple cuts<br>999.9mm                      |   | 9999.9mm                                      |   | 9999.9mm                                       |
| Stripping lengths S2 <sup>1</sup>      | Full pull-off<br>36mm                         |   | 35mm  |   | 208mm  |
|  | Semi pull-off<br>999.9mm                      |   | 9999.9mm                                      |   | 9999.9mm                                       |
|  | Multiple cuts<br>999.9mm                      |   | 9999.9mm                                      |   | 9999.9mm                                       |
| Intermediate stripping Number x length | -   |   | 4 x 9999 mm                                   |   |  |
| Pull-off lengths <sup>1</sup>          | Side 1<br>99.9mm                              | 99.9mm  | Side 1<br>99.9mm                              | 99.9mm  | 280mm  |
|  | Side 2<br>40mm                                | 40mm  | Side 2<br>50mm                                | 50mm  | 223mm  |
| Shortmode                              | <45mm, can be switched on                     |   |   | <65mm, can be switched on                     |  |
| Wire cross sections <sup>2</sup>       | 0.05–3mm <sup>2</sup> (strand)<br>AWG30–AWG12 | 0.05–6mm <sup>2</sup> (strand)<br>AWG30–AWG10 | 0.05–10mm <sup>2</sup> (strand)<br>AWG30–AWG7 | 0.22–35mm <sup>2</sup> (strand)<br>AWG24–AWG2 | 2.5–95mm <sup>2</sup> (strand)<br>AWG14–AWG3/0 |
| Max. outer diameter                    | 10.5mm  |   | 15mm  |   | 30mm   |
| Flat cable                             | Maximum width                                 | -   | up to 12mm                                    | up to 40mm                                    | -  |
|  | Minimum length                                | -   | 50mm+stripping length                         | 60mm+stripping length                         | -  |
| Inner conductor <sup>2</sup>           | -   |   | 3x1.5mm <sup>2</sup>                          |   |  |
| Piece output                           | see diagram                                   |   |   |   |  |
| Selectable piece numbers               | 1–60'000 pieces                               |   |   |   |  |
| Noise level                            | <70 dBA                                       |   |   |   |  |
| Electrical connection                  | 115/230V – 50/60Hz – automatic switch-over    |   |   |   |  |
| Dimensions (W x H x D)                 | 480 x 340 x 390mm                             |   | 560 x 340 x 390mm                             |   | 630 x 365 x 480mm                              |
| Weight                                 | ~28kg   |   | ~36kg   |   | ~55kg  |
|  |   |   |   |   | ~198kg   |

<sup>1</sup> Depending on the process involved, larger processing lengths may be able to be processed with the wire monitoring units off.

<sup>2</sup> Many wires outside the indicated cross section range can be processed on the Kappas while certain extremely hard, tough wires may not be able to be processed even if within the cross section range. If you are uncertain, please contact us. We are happy to produce samples of your wires.

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Professionals in Advanced Automation



Subject to modification

0044048 Version 4

3. Kappa

### Your benefits

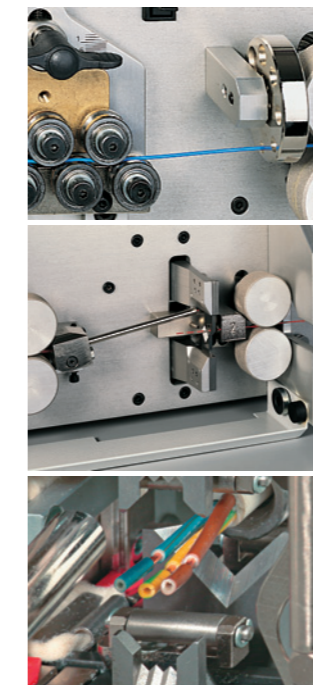
- The perfect machine for every application at an optimum price
- Large range of processes
- Well-suited even for small batches thanks to the extremely short set-up times
- Extensive range of accessories, e.g. delivery systems, PC software, ink jet/hot stamp marking and wire deposit systems (all from a single source)
- Identical, easy and clear LCD operation for entire Kappa family
- Minimal training required

### Applications

|  |  | K210    | K220    | K225    | K235    | K240      |
|--|--|---------|---------|---------|---------|-----------|
| Cross section (mm <sup>2</sup> ) AWG       |  | 3/AWG12 | 6/AWG10 | 10/AWG7 | 35/AWG2 | 95/AWG3/0 |
| Cutting to length                          |  | ●       | ●       | ●       | ●       | ●         |
| Stripping with semi-pull-off               |  | ●       | ●       | ●       | ●       | ●         |
| Stripping with full pull-off               |  | ●       | ●       | ●       | ●       | ●         |
| Multi-step stripping                       |  | ●       | ●       | ●       | ●       | ●         |
| Parallel processing                        |  | ○       | ○       | ○       | ○       | ○         |
| Multi-conductor round cable                |  | ●       | ●       | ●       | ●       | ●         |
| Flat cable                                 |  | ○       | ○       | ○       | ○       | ○         |
| Interface for hot stamp marker             |  | ●       | ●       | ●       | ●       | ●         |
| Ink jet marking                            |  | ○       | ○       | ○       | ○       | ○         |
| Double shield stripping                    |  | ●*      | ●*      | ●*      | ●*      | ●*        |
| Stripping of inner conductor               |  | ○       | ○       | ○       | ○       | ○         |
| Longitudinal slitting of cable             |  | ○       | ○       | ○       | ○       | ○         |
| Equipment                                  |  |         |         |         |         |           |
| Blade cleaning kit                         |  | ○       | ●       | ●       | ○       | ○         |
| Length measurement system                  |  | ○       | ○       | ○       | ○       | ●         |
| Integrated straightening unit              |  | ○       | ●       | ○       | ○       | ○         |
| Horizontal and vertical straightening unit |  | ○       | ○       | ○       | ○       | ○         |
| Passive wire deposition                    |  | ○       | ●       | ●       | ○       | ○         |
| Wire deposition/take-up system             |  | ○       | ○       | ○       | ○       | ○         |
| PC software for Windows 9x/NT/2000         |  | ○       | ○       | ○       | ○       | ○         |

● Standard ○ Optional

\* Not available in the USA and Japan



Maximum flexibility – minimal conversion times  
Kappa 210/220/225/235/240

