# Gamma 255

**The fully automatic wire processing machine for wires with small cross sections**

komax


Top quality processing over a uniquely broad range of cross sections. This fully automatic wire processing machine excels in its simplicity of operation and flexibility. Whether the task is double-ended crimping or twisting, fluxing or tinning, the Gamma 255 will carry it out with compellingly unique process control and minimal changeover times.
In spite of its compactness, this unit has fully integrated quality-monitoring and feed systems as part of its standard equipment.

**Area of application**

The Komax Gamma 255 is a flexible fully automatic wire processing machine for efficient wire processing. It processes cross sections in a range from 0.0123mm²/AWG36 to 2.5mm²/AWG14 in excellent quality.

It is compatible with all commercially available tools. You can crimp both ends of wires as short as 20mm.

## Technology

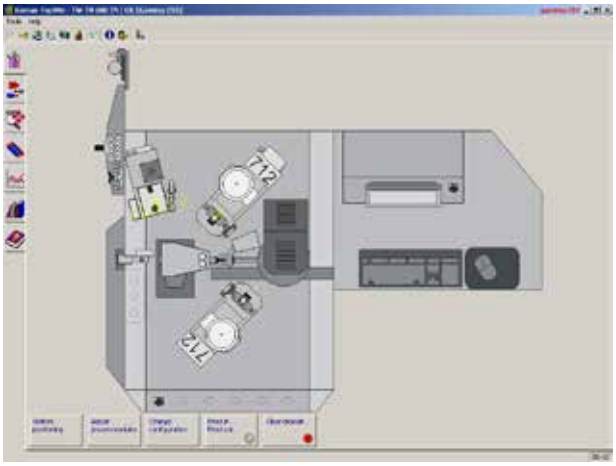
The entire cross section is processed using programmable, highly dynamic servo-drives and V stripping blades. As part of its standard equipment, the machine has a prefeeder, splice detection, wire-end monitoring and knot detection, as well as two wire straightening stations.
The integrated prefeeder assures gentle wire feed from drums, coils or reels even at high draw-in speeds. A bad-wire handling system with automatic post-production is also integrated.
The machine has a WPCS interface and can thus be easily integrated into a production planning system (Komax MES or customized).
To verify quality, you can also integrate devices for measuring crimp height (Komax 341) and pull-out force (Q1210, Komax 332) into the production process.

▲ **Cutting head** Gamma 255

▲ **Prefeeder** Integrated

## User friendly

The compact layout is carefully thought-out and allows you to change over from crimping to twisting, fluxing and tinning in no time at all. With its vertically opening safety cover, the Komax Gamma 255 is readily accessible from all sides. Operations and material handling are simple and convenient. The reliable TopWin user interface adds to this high level of user convenience in over 20 different languages.



▲ **TopWin** User interface

**Flexible**

Contemporary wire processing requires total solutions with optimized functions and costs. To meet these demands, processing modules such as the mci 712 and mci 722 crimp module, the mci 782 twisting module, and the ioc 785 fluxing/tinning module with all process monitoring units are integrated right into the TopWin user software. With a choice of two different crimp modules, you can adapt the Gamma 255 to meet your individual needs.
No matter what products you manufacture on the Gamma 255, this machine's intuitive operations allow you to make full use of its flexibility. All product data is saved in a database and can be retrieved at any time.

▲ **Cross section range**
0.0123mm² bis 2.5mm² (AWG36–AWG14)

▲ **Configuration** For twisting, fluxing and tinning

**Your benefit**

- Reliable processing of a larger range of cross sections
- Double crimping or twisting, fluxing and tinning
- Can handle double crimped wires as short as 20mm
- Minimal footprint thanks to a compact design
- Minimal conversion times
- High equipment standards
- TopWin with graphical user interface
- Readily accessible
- Highly dynamic servo-axes in use
- Over 20 different languages available to users

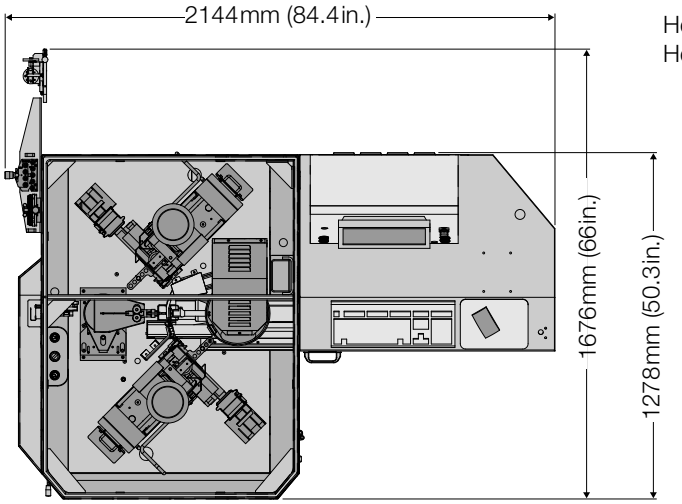
## Application sample Gamma 255

| | | | |
|---|---|---|---|
| Cutting to length |  | Coaxial and triaxial cable processing |  |
| Full stripping |  | Split cycle for closed barrels |  |
| Half stripping |  | Ferrule crimping |  |
| Crimping |  | Inkjet marking |  |
| Twisting / Tinning |  | | |

## Options and Accessories

| | |
|---|---|
| Feeding systems | Dereeling unit Komax 104 |
| Marking systems | Komax inkjet marking system offline |
| Wire infeed | Roller drive |
| Processing modules | Crimping module mci 712 \| Crimping module mci 722 (with programmed crimp heights) \| Twisting module mci 782 \| Tinning module ioc 785 |
| Quality control | Crimp height measurement Komax 341 \| Pull-off force measurement Q1210 or Komax 332 \| Crimp force analyzer CFA/CFA+ |
| Deposit systems | Basic module 1 m (39.4 in.) or 3 m (118.1 in.) \| Deposit grippers for fine conductors |
| Accessories | Barcodescanner \| Towerlight \| Magnifying glass \| Uninterruptible power supply UPS \| Coil holder \| Set for large cable drums<br><br>Software: Networking WPCS \| Data conversion TopConvert \| Manufacturing execution system Komax MES |

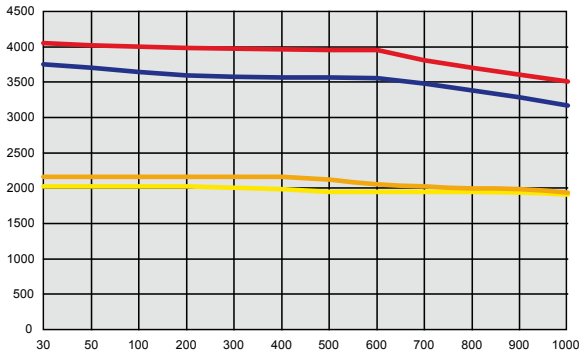
## Machine layout Gamma 255



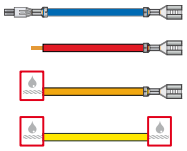

| | |
|---|---|
| Heigth with cover closed: | 1750mm (68.9in.) |
| Heigth with cover open: | 2650mm (104.3in.) |

## Reference values for piece output of Gamma 255*

Pieces/h




Wire length [mm]



| | |
|---|---|
| Conductor | FLRY 0.50mm² (AWG20) |
| Pneumatic pressure | 6bar (87psi) |
| Speed | 100% |
| Acceleration | 100% |
| Crimping module | mci 712 |
| Crimp force analysis | active |

* Information is subject to change and depends on the materials being processed

## Technical data

| | |
|---|---|
| Length range | 15mm–10000mm (0.6in.–32.8ft.) |
| Length accuracy | Repeat accuracy: ±(0.2% +1.0mm (0.04in.)) |
| Strip length | 0.1mm–15mm (0.0039in.–0.59in.) |
| Wire cross-sections* | 0.0123mm²–2.5mm² (AWG36–AWG14) |
| Wire infeed speed | max. 3m/s (9.8ft/s) |
| Noise level | <75dB (no crimping module) |
| Electrical connection | 3×208–400V 50/60Hz<br>1×230V 50/60Hz |
| Compressed air connection | 4–6bar (58–87psi) |
| Air consumption | 3m³/h (106ft³/h) |
| Weight | 870kg (1918lb) gross – with packaging |

* By the same token, it may not be able to process certain extremely hard, tough wires even though they are within the indicated cross section range. If you are in doubt about your wires, we are happy to process samples of them.

komax
komaxgroup.com

Made in Switzerland
Subject to change /gu
0076066 Version 7
CC. Gamma 255