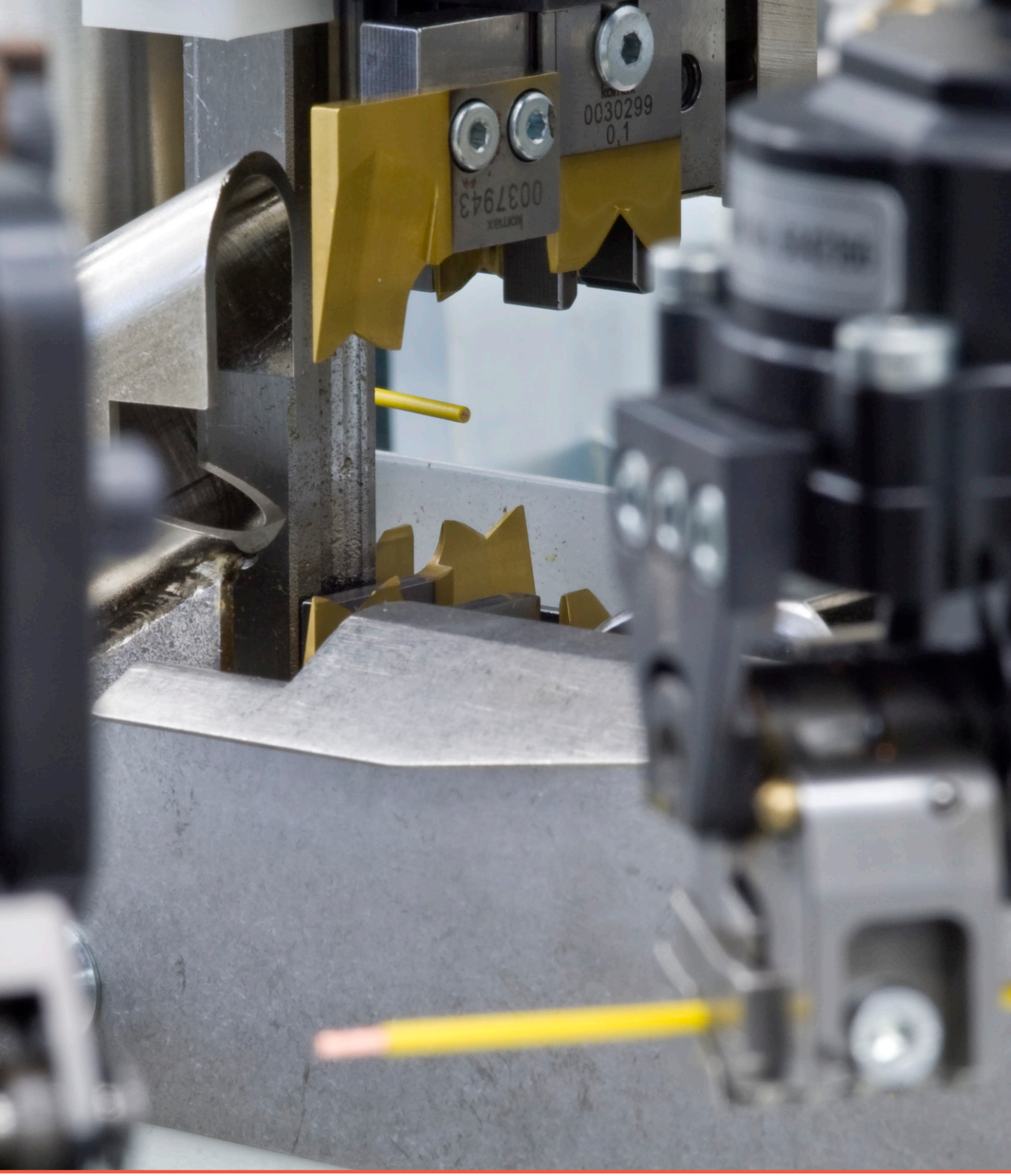



# Gamma 333 PC/PC-B

**Large processing range**

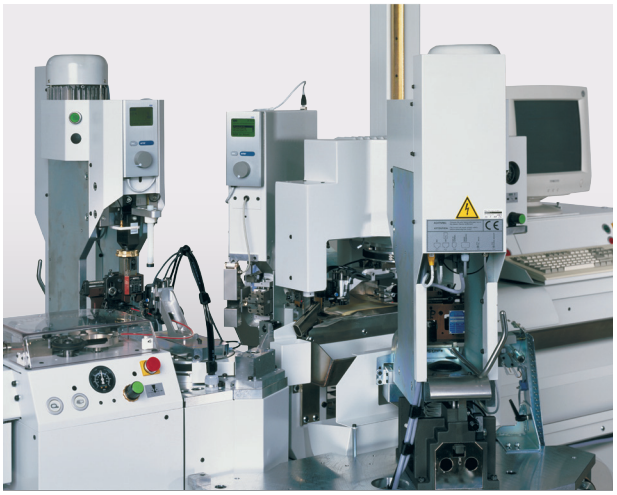
komax WIRE

# THE WAY TO MAKE IT | FLEXIBLE

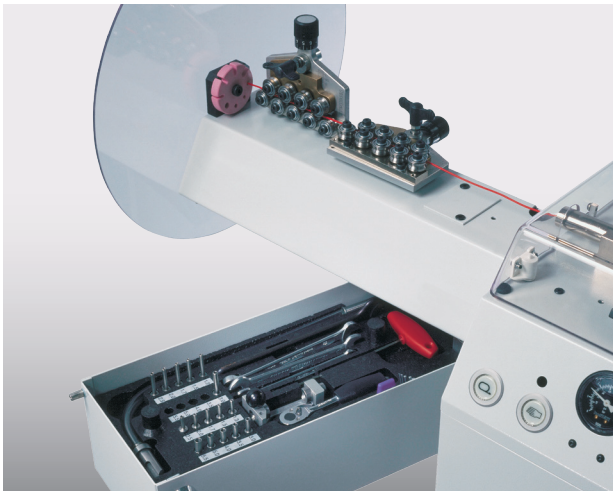
This fully automatic crimping machine stands out from the rest for the high daily productivity it achieves through short changeover times and high availability. This thoroughly tried-and-tested machine is also available with a belt drive. That means optimum force transmission and increased output for long and difficult to process conductors.
A supplementary unit that is ideal for a broad processing range.

**Area of application**

The Komax Gamma 333 PC and PC-B are flexible fully automatic crimping machines offering a variety of efficient processing capabilities.
Depending on requirements, these machines can apply two-ended crimp contacts and end sleeves for strands, as well as double crimp connections with three different contacts or seals and sleeves to one end of the cable. Tinning and ink-jet marking are two further options.
These models can integrate customer-specific applications like MIL crimping, welding or compaction for a further diversification of production.



▲ **Three mci 711 crimp modules** For double crimp connections with three different contacts



▲ **Tool drawer** Integrated

## Technology

The entire cross-section range is processed with dynamic programmable drives and V stripping blades. Highest quality requirements and process reliability are ensured as follows:
Both Komax crimp presses (mci 711 and mci 721) are equipped with the crimp force analysis CFA. The seal module (mci 761) can be fitted with the seals presence analyzer SPA as an option. In addition, the measuring devices for crimp height (K341) and pull-off force (K331/K332) as well as the barcode scanner (PM8300) guarantee optimal accuracy.

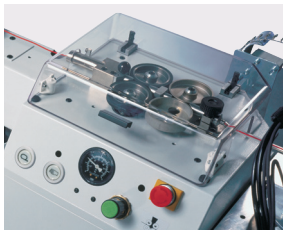
## User friendly

The layout is well-conceived to allow ultra-short changeover from crimping to twisting, fluxing and tinning. Fitted with safety covers that open vertically, the Komax Gamma 333 PC und PC-B are readily accessible from all sides. Machine operation is so easy and convenient, as are all aspects of material handling. The reliable TopWin user interface adds to this high level of operator convenience, in over 20 languages.
The machine has an optional WPCS interface that makes it easy for a customer to interface with one of its networks.

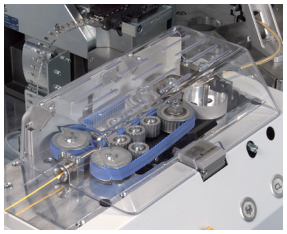
## Gamma 333 PC

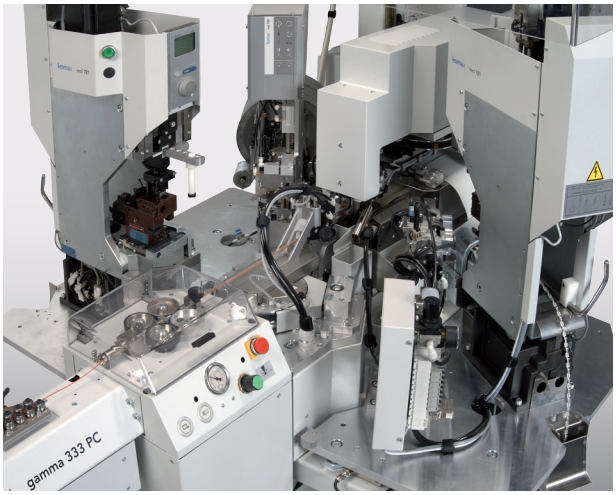
With the three different types of transport rollers, gentle wire feeding can be granted. A highly dynamic AC servomotor acts as the drive. The encoder measuring system with integrated anti-slip control system (ACS) ensures a high degree of repetition accuracy regardless of the container used.

**Plastic-coated transport rollers** ▶
Gamma 333 PC

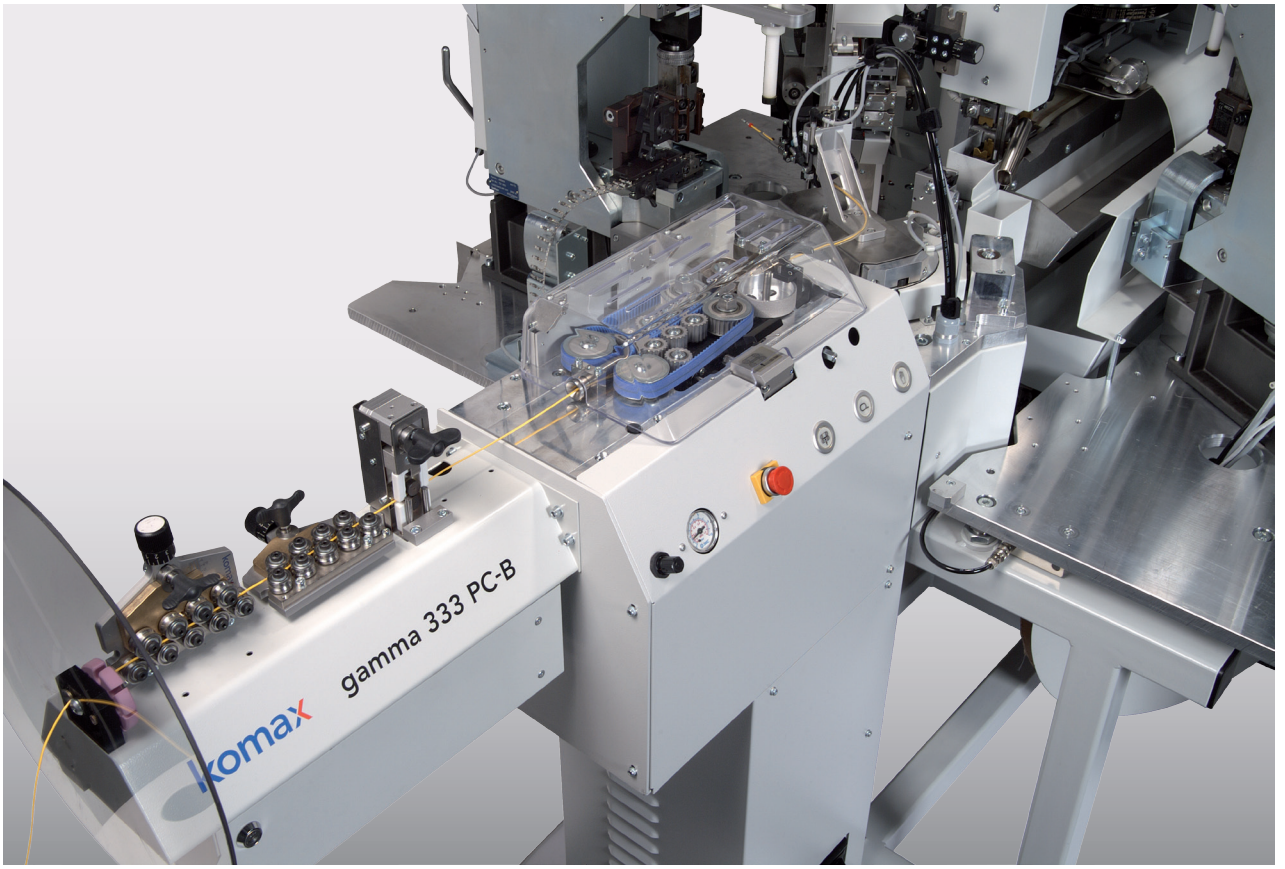


**Belt drive** ▶
Gamma 333 PC-B



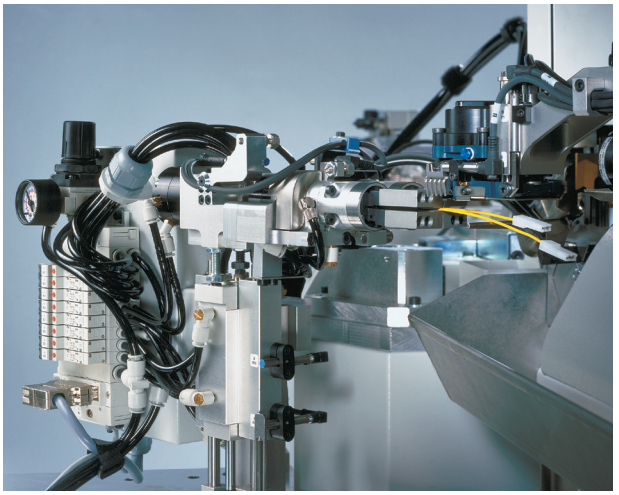



▲ **mci 721 crimp module** and mci 792 sleeve module




**Gamma 333 PC-B**
The wire drive is compelling in its gentle transmission of major forces onto the wires being processed. This feature is also advantageous in the processing of halogen-free conductors. The piece output for long conductors is noticeably increased.
Of course, the PC-B also features an AC servomotor as a wire drive plus an integrated anti-slip control system.

**Double gripper module**
With the use of the double gripper module, the processing of double crimp connections can include up to three different contacts. The operator has his choice of processing the double crimp connection as horizontal or vertical termiantions.



▲ **Double gripper module**

**Your benefit**
- High daily productivity thanks to fast changeovers
- Great flexibility and diverse applications
- Maximum availability with minimal maintenance
- Gentle transport
- Integrated quality measuring devices
- User friendly, intuitive machine operation

## Application sample

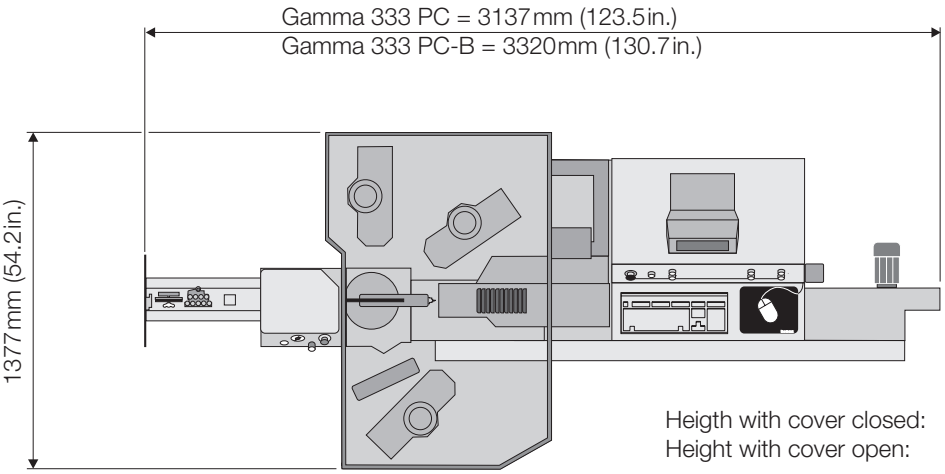
| | |
|---|---|
| Cutting | |
| Half strip |  |
| Full strip |  |
| Intermediate strip / Intermediate slitting |  |
| Twisting / Tinning | |
| Crimping |  |
| Seal insertion | |
| Split cycle for closed barrel | |
| Double crimping | |
| Sleeve insertion | |

| | |
|---|---|
| Inner conductor processing |  |
| Flat cable / Notching |  |
| Double sheath / Coaxial and triaxial cables | |
| Ferrule crimping | |
| MIL-Crimping |  |
| Cut pulled strands / Precision cut | |
| Wire end solidifying / Splicing / Welding | |
| Hot stamp marking |  |
| Ink-Jet marking |  |

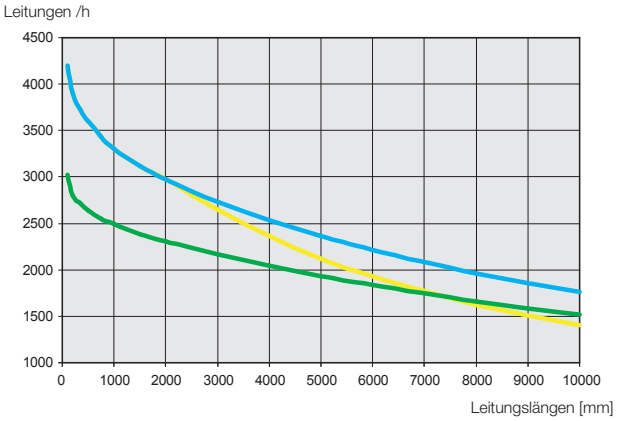
## Options and Accessories

| | |
|---|---|
| Feeding systems | Komax 106 \| ads 119 |
| Marking systems | Komax 26 hot stamp marking \| Komax Inkjet marking system IMS \| Laser marking on request |
| Wire infeed | Gamma 333 PC (Roller drive) \| Gamma 333 PC-B (Belt drive) |
| Processing modules | Crimping module mci 711 \| Crimping module mci 721 (with programmed crimp heights) \| Seal loading module mci 761 (with optional seals precence analyzer SPA) \| Twisting module mci 782 \| Tinning module ioc 785 \| Sleeve module mci 792 \| Double gripper module \| Wire end ferrule module AEH \| MIL-crimping module \| Welding module \| Ultrasonic compaction |
| Quality control | Crimp height measurement Komax 341 \| Pull-off force measurement Komax 331 or Komax 332 \| Crimp force analyzer CFA \| Material change detection \| Material verification \| Wire length correction \| Splice check \| Spark tester<br><br>On request: Seals precence analyzer SPA \| Strip- and terminal control |
| Deposit systems | Basic module 1.5m (59in.) \| Extension module 2m (78.7in.) or 4m (157.5in.) |
| Accessories | Barcodescanner PM8300 \| Software: Networking WPCS \| Data conversion TopConvert \| Production control center KomaxCAO \| Towerlight \| Magnifying glass \| UPS |

## Machine layout




Heigth with cover closed: 1790mm (70.5in.)
Height with cover open: 2670mm (105.1in)

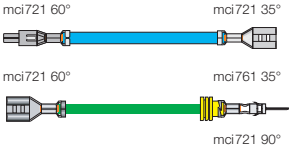



**Konfiguration 333 PC**

| | |
|---|---|
| Conductor | FLRY 0.75mm² |
| Pneumatic pressure | 6bar (87psi) |
| Speed | 6m/s (19.7ft/s) |
| Acceleration | 40m/s² (131ft/s²) |
| Quality monitoring | aktive |
| Crimping modules | mci 721 |

**Konfiguration 333 PC-B**

| | |
|---|---|
| Conductor | FLRY 0.75mm² |
| Pneumatic pressure | 6bar (87psi) |
| Speed | 10m/s (32.8ft/s) |
| Acceleration | 50m/s² (164ft/s²) |
| Quality monitoring | aktive |
| Crimping modules | mci 721 |




## Technical data

| | |
|---|---|
| Length range | 60mm–65000mm (2.36in–213.3ft), optionally from 30mm (1.18in.) |
| Length accuracy | Repeat accuracy: ±(0.2% +1.0mm (0.04in.)) |
| Stripping lengths | Side 1: 0.1–15mm (0.004–0.59in.), optionally 28mm (1.10in.) |
| | Side 2: 0.1–15mm (0.004–0.59in.) |
| Wire cross-sections* | 0.13mm²–5mm² (AWG26–AWG10) |
| Wire infeed speed | Gamma 333 PC 6m/s 40m/s² (19.7ft/s 131ft/s²)<br>Gamma 333 PC-B 10m/s 50m/s² (32.8ft/s 164ft/s²) |
| Noise level | <75dB (no crimping module) |
| Electrical connection | 3×208–480V 50/60Hz |
| Pneumatic system | 5–6bar (73–87psi) \| 6.5m³/h (230ft³/h) |
| Weight | Gamma 333 PC 1200kg (2649lb) gross<br>Gamma 333 PC-B 1250kg (2759lb) gross |

* Extremely hard and tough wires may not be able to be processed even if they are within the above cross section range. If you are in doubt about your wires, we are happy to process samples of them.

More information about our products:

**www.komaxwire.com**

Komax Wire is a division of Komax Holding AG, Switzerland.



komax WIRE

Made in Switzerland
Subject to change /gu
0053744 Version 4
CC. Gamma 333 PC/-B