

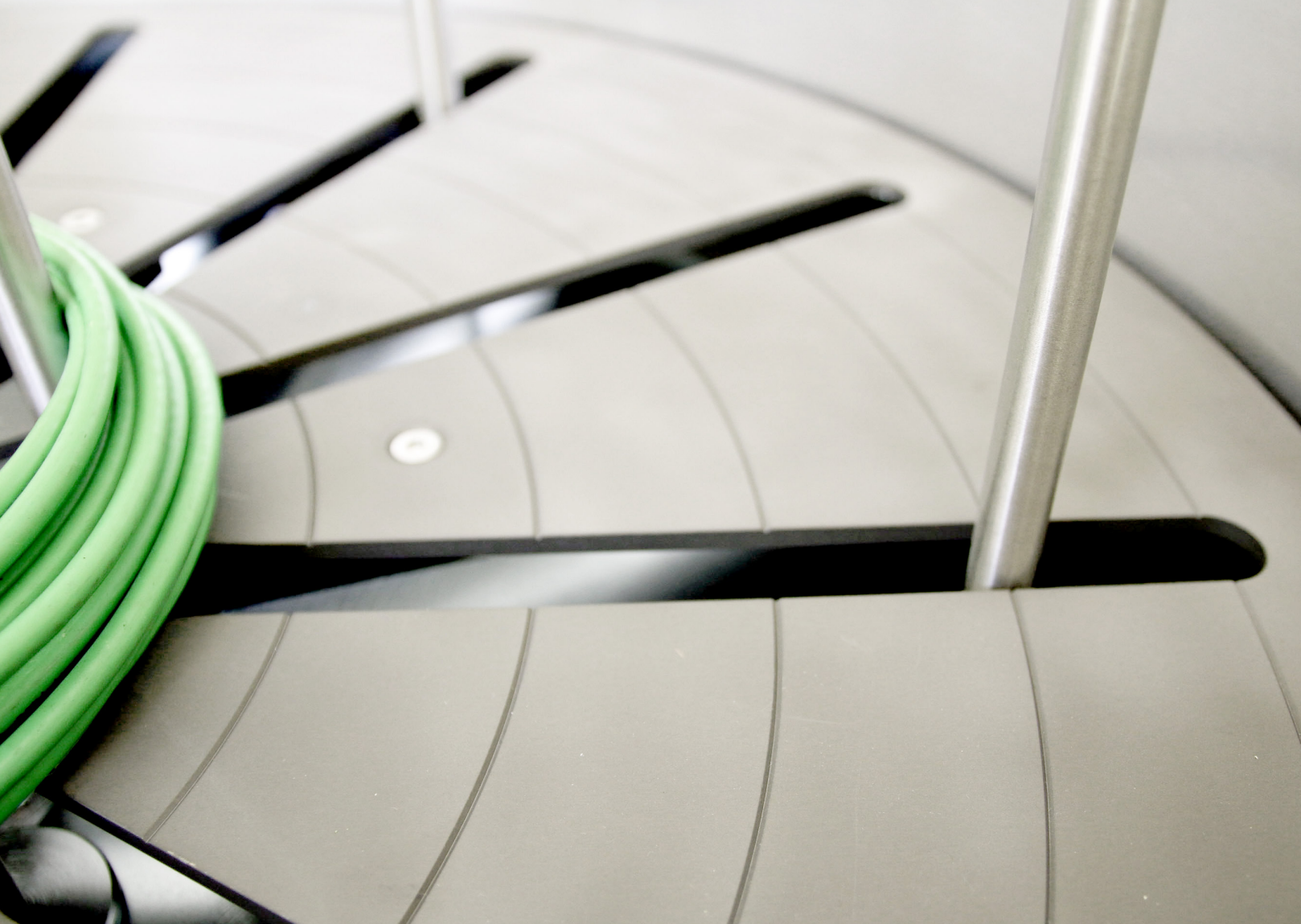


ramatech
systems



RAMATECH CABLE COILERS AND AUTOMATED COIL AND BINDING SYSTEMS

FOR QUICK AND EFFICIENT CABLE COILING



OUR CABLE COILERS ARE OFFERING UNLIMITED OPPORTUNITIES

The cable coilers from ramatech are outstandingly powerful and flexible peripherals. Flexible wires and cables up to a diameter of 35 mm can be processed with the cable coilers. Parameters can be quickly and easily programmed via a LCD operator terminal. The fully automatic cable coilers feature interfaces to different cable processing machines.

RAMATECH KRI SERIES 450

FOR QUICK AND EFFICIENT CABLE COILING

The cable reaches the coiling disc via a guide tube and is coiled using mandrels. The coiling diameters are individually adjustable. After the coiling process, the mandrels are lowered automatically, the protection cover opens, and the cable coil can be removed. Even extremely heavy cable coils can easily be pushed aside. The CB-Version contains a binding unit for manual binding.

The KRI 450 CBP is a flexible and versatile coil & binding machine. At the heart of the coiling process is a coiling disk with adjustable mandrels. The handling arm for lateral transport of a finished coil is based on two fixtures with rod-shaped grippers. The binding is conducted with an elastic rubber cord.

FEATURES

- Suitable even for short cable lengths starting at 1.5 m
- Small and compact cable coils for cable diameters up to 18 mm

For the CBP-Version the operating mode depends on the dimensions and weight of the cable coil and the breaking load of the rubber cord.



KRI 450 C Coil

For cable diameters up to 18 mm. For cable coil weight up to approx. 40 kg. The coiling diameters are individually adjustable. After the coiling process, the pins are lowered automatically.

KRI 450 CB Coil + Bind

For cable diameters up to 18 mm. For cable coil weight up to approx. 40 kg. The coiling diameters are individually adjustable. Integration of a cable binder (manual system) for a binding process with elastic rubber cord.

KRI 450 CBP Coil + Bind + Pull

For cable diameters up to 18 mm. For cable coil weight up to approx. 40 kg. / approx. 20 kg in Auto-Mode. Automatic coil + binding machine with handling unit.

RAMATECH KRI SERIES 850

FOR QUICK AND EFFICIENT CABLE COILING

The cable reaches the coiling disc via a guide tube and is coiled using mandrels. The coiling diameters are individually adjustable. After the coiling process, the mandrels are lowered automatically, the protection cover opens, and the cable coil can be removed. Even extremely heavy cable coils can easily be pushed aside. The CB-Version contains a binding unit for manual binding.

The KRI 850 CBP is a flexible and versatile coil & binding machine. At the heart of the coiling process is a coiling disk with adjustable mandrels. The handling arm for lateral transport of a finished coil is based on two fixtures with rod-shaped grippers. The binding is conducted with an elastic rubber cord.

FEATURES

- Suitable even for short cable lengths starting at 2.5 m
- Small and compact cable coils for cable diameters up to 35 mm

For the CBP-Version the operating mode depends on the dimensions and weight of the cable coil and the breaking load of the rubber cord.



KRI 850 C Coil

For cable diameters up to 35 mm and for cable coil weight up to 80 kg. The coiling diameters are individually adjustable. After the coiling process, the pins are lowered automatically.

KRI 850 CB Coil + Bind

For cable diameters up to 35 mm and for cable coil weight up to 80 kg. The coiling diameters are individually adjustable. Integration of a cable binder (manual system) for a binding process.

KRI 850 CBP Coil + Bind + Pull

For cable diameters up to 35 mm and for cable coil weight up to 80 kg. / approx. 20 kg weight in automatic mode. Automatic coil + binding machine with handling unit.

KRI SERIES 450 / 850

FLEXIBLE APPLICATION

Ramatech offers various pre- and post-stations for feeding and handling of cables. The interfaces required for this are prepared and standardized.

PERFECT MATCH

Fully automatic coiling systems in addition to your production line.



DIRECT INTERFACES

Interfaces to cable processing machines Speedy 40 and RS 40, also to other machines.



RAMATECH KRI 400 SV

DESIGNED FOR PRECISE CABLE LAYING

The KRI 400 SV cable coiler was specifically designed for controlled and precise laying of cables. This device is suitable for coiling cables onto spools, as well as producing cable coils. Special adapters can be used to coil cables directly onto plastic spools.

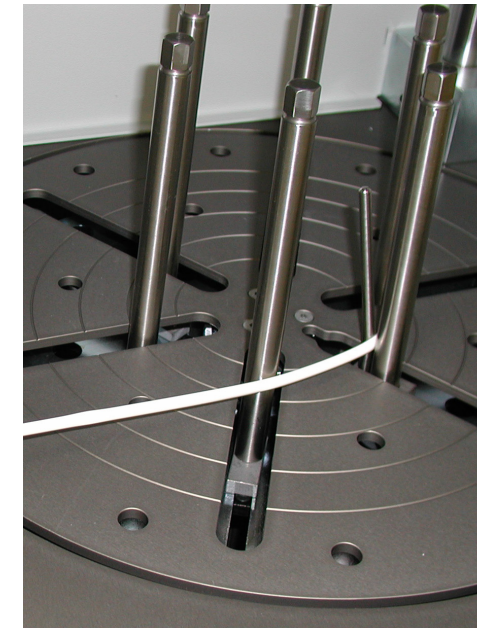
FEATURES

- This cable coiler is equipped with a separate length measuring and cutting unit
- All parameters, including the length and laying pitch, can easily be programmed at the operator terminal
- Suitable for cable diameters up to max. 15 mm (cutting unit)
- Equipped with servo drives for precise coiling
- Suitable for cable coils and spools

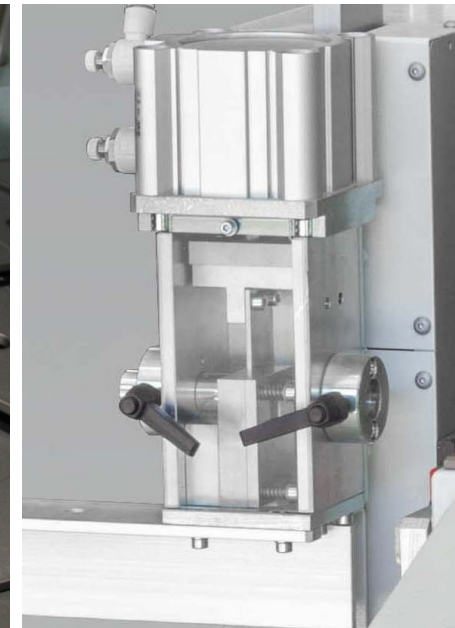


RAMATECH KRI 400 SV

COMPACT, PRECISE AND EFFICIENT



ADJUSTABLE PINS



CUTTING UNIT



LENGTH MEASUREMENT

RAMATECH WBA 400 / WBA 220

HIGH-SPEED COIL + BINDING MACHINE

This cable coiler with an automatic binding unit coils and binds cable rings automatically. The two cable ends are left free and are approx. the same length. The cable coils are bound twice with a rubber cord and then pushed aside (onto a table, conveyor belt or into a box). The coil diameter is adjustable, as well as the length of the free ends (with restrictions). Integration with a production control system or ERP system is possible.

FEATURES

- Automatic binding station for elastic rubber cord, always with two bindings
- Threading of the cable beginning is conducted fully automatically in combination with a cable processing machine
- The coiler is equipped with a servomotor
- Only for cable coils - no spools



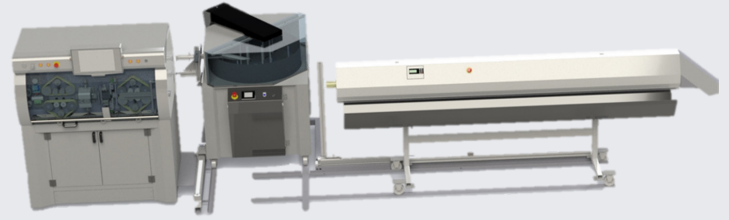
WBA 400

For cable coil outer diameter max. 380 mm. Cable coil inner diameter approx. 150 mm. For cable lengths from 1.5 to 100 m. Minimum 1.5 m length. Above 50 m only up to cable diameter 10 mm. Cable diameter from min. 4 up to max. 12 mm. Other cable diameters on request.

WBA 220

For cable coil outer diameter max. 220 mm. Cable coil inner diameter approx. 120 mm. For cable lengths from 1.5 to 100 m. Minimum 1.5 m length. Above 50 m only up to cable diameter 10 mm. Cable diameter from min. 4 up to max. 12 mm. Other cable diameters on request.

PERIPHERAL EQUIPMENT



Automatic changing device KRI-KA

Cable Coiler in alternation with the Cable Stacker. The automatic mode (exchange of the devices) can be programmed directly via Speedy software (cable type) or can be selected manually via touch screen panel.



Binding device AXRO IN 2

The binding device AXRO IN is ideal for easy and quick binding of cable rings, cable bundles and for various other applications.



Binding device AXRO-FQC2

The Axro-FQC2 is the latest development in the field of modern bundling technology. This new machine is equipped with the sophisticated clamping and knotting technology that has already proven itself thousands of times.



Automated guided vehicles (AGV)

In combination with automated guided vehicles cable processing lines show their full potential. Ramatech offers fully integrated AGVs for in-house transport.

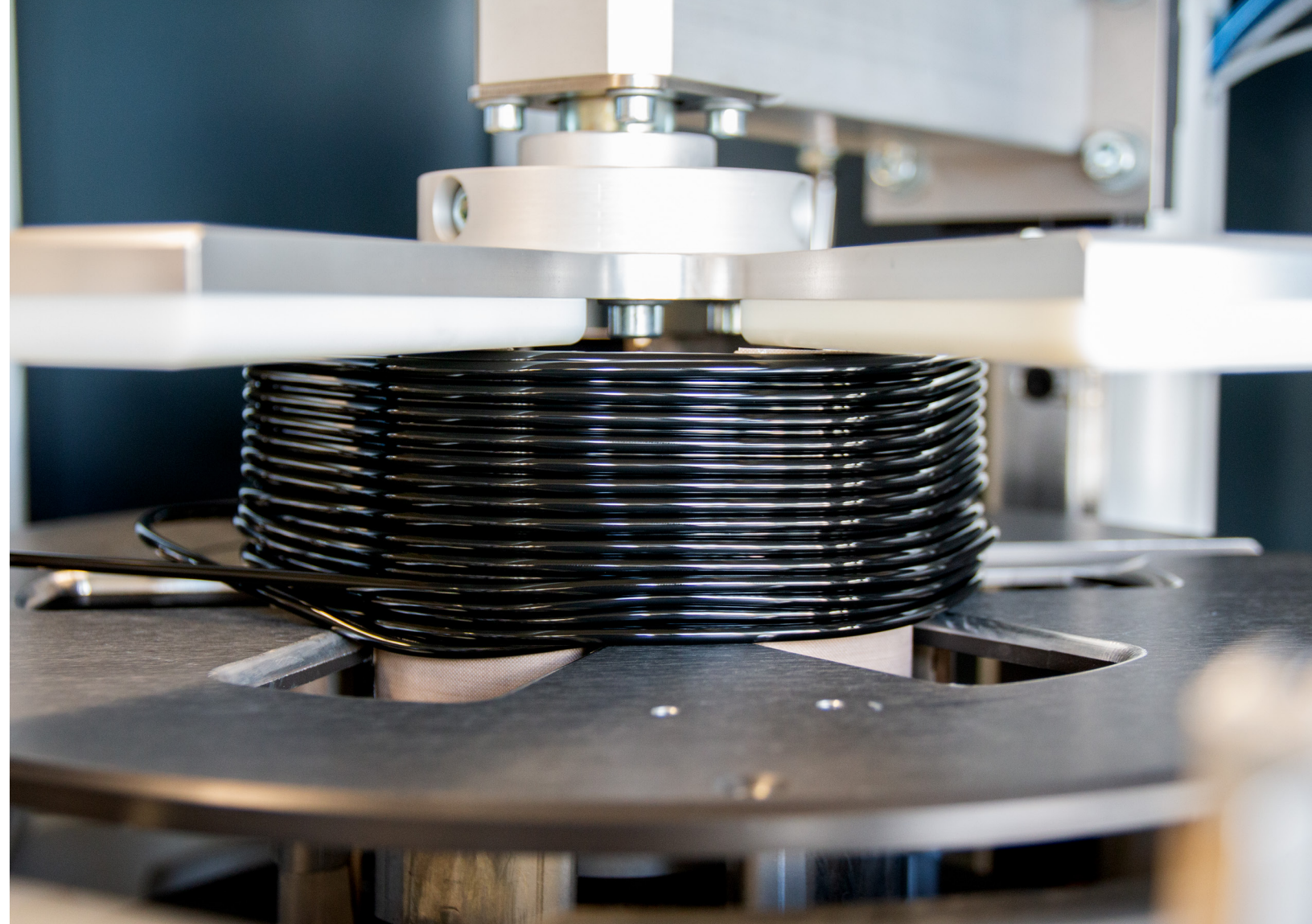
TECHNICAL DATA

| Performance | KRI 450 C | KRI 450 CB | KRI 450 CBP | KRI 400 SV | KRI 850 C | KRI 850 CB | KRI 850 CBP |
|--|--|----------------------|----------------------------|---|--|-----------------------------------|--|
| Coil inner diameter Manual mode Automatic mode | min. 120 mm | min. 120 mm | min. 110 mm min. 110 mm | min. 120 - 250 mm | min. 250 mm / max. 600 mm | min. 250 mm / max. 600 mm | min. 250 mm / max. 600 mm in Auto-Mode max. 400 mm |
| Coil outer diameter Manual mode Automatic mode | max. 390 mm | max. 390 mm | max. 390 mm max. 390 mm | max. 400 mm | max. 850 mm (760 mm with pins) | max. 850 mm (760 mm with pins) | max. 850 mm (760 mm with pins) in Auto-Mode max. 600 mm |
| Coil height | max. 110 mm | max. 110 mm | max. 105 mm | - | max. 160 mm | max. 160 mm | max. 160 mm |
| Cable diameter (flexible cable) | max. 18 mm | max. 18 mm | approx. 4 mm - 18 mm | max. 15 mm | max. 35 mm | max. 35 mm | approx. 6 mm - 35 mm |
| Coil weight | approx. 40 Kg | approx. 40 Kg | approx. 20 Kg | - | approx. 80 kg | approx. 80 kg | approx. 20 kg |
| Control system | PLC and LCD operator Terminal | | | PLC and LCD operator Terminal with touchscreen. 5.6" programmable | PLC and LCD operator Terminal | | |
| Interfaces | Synchronization with several types of prefeeding systems and cable processing machines | | | | Synchronization with several types of prefeeding systems and cable processing machines | | |
| Speed | Coiling speed synchronized with cable processing machine | | | max. 3 m/s | Coiling speed synchronized with cable processing machine | | |
| Power supply | 230 VAC / 10 AT | 230 VAC / 10 AT | 230 VAC / 10 AT | 3 x 380 VAC / 16 AT | 230 VAC / 10 AT | 230 VAC / 10 AT | 230 VAC / 10 AT |
| Pneumatic | 6 bar | 6 bar | 6 bar | 6 bar | 6 bar | 6 bar | 6 bar |
| Revolution | max. 310 min.-1 | max. 310 min.-1 | max. 310 min.-1 | max. 310 min.-1 | max. 133 min.-1 | max. 133 min.-1 | max. 133 min.-1 |
| Weight | approx. 120 kg | approx. 190 kg | approx. 250 kg | approx. 180 kg | approx. 250 kg | approx. 350 kg | approx. 550 kg |
| Dimension (L x W x H) | 600 x 795 x 1184 mm | 1422 x 795 x 1300 mm | 1800 x 795 x 1750 mm | 1200 x 720 x 1500 mm | 990 x 1163 x 1333 mm | 1806 x 1163 x 1333 mm | 2778 x 1163 x 2020 mm |

TECHNICAL DATA

HIGH-SPEED COIL + BINDING MACHINE

| Performance | WBA 400 | WBA 220 |
|--------------------------------|--|--|
| Coil outer diameter | approx. 150 mm | approx. 120 mm |
| Coil inner diameter | max. 380 mm | max. 220 mm |
| Cable coil height | max. 70 mm | max. 70 mm |
| Free cable ends with length of | approx. circumference/2 ± 100 mm (e.g.: coil diameter of 130 mm > circumference = 404 mm > free cable ends each approx. 202 mm ± ca. 100 mm) | approx. circumference/2 ± 100 mm (e.g.: coil diameter of 130 mm > circumference = 404 mm > free cable ends each approx. 202 mm ± ca. 100 mm) |
| Cable length | from 1.5 - 50 m / for coiling min. 1.5 m length (bigger than 50 m length only up to cable diameter about max. 10 mm - (bigger cable diameter on request / cable samples required)) | from 1.5 - 50 m / for coiling min. 1.5 m length (bigger than 50 m length only up to cable diameter about max. 10 mm - (bigger cable diameter on request / cable samples required)) |
| Cable diameter | min. 4 to max. 12 mm (bigger cable diameter on request / cable samples required) | min. 4 to max. 12 mm (bigger cable diameter on request / cable samples required) |
| Voltage | 3 x 400 (± 10 %) VAC / N / PE | 3 x 400 (± 10 %) VAC / N / PE |
| Frequency | 50 Hz (± 4 %) | 50 Hz (± 4 %) |
| Power | min. 20 AT | min. 20 AT |
| Air pressure | min. 6 bar | min. 6 bar |
| Dimensions (L x W x H) | 2.8 m x 1.0 m x 1.8 m | 2.2 m x 1.0 m x 1.8 m |





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