

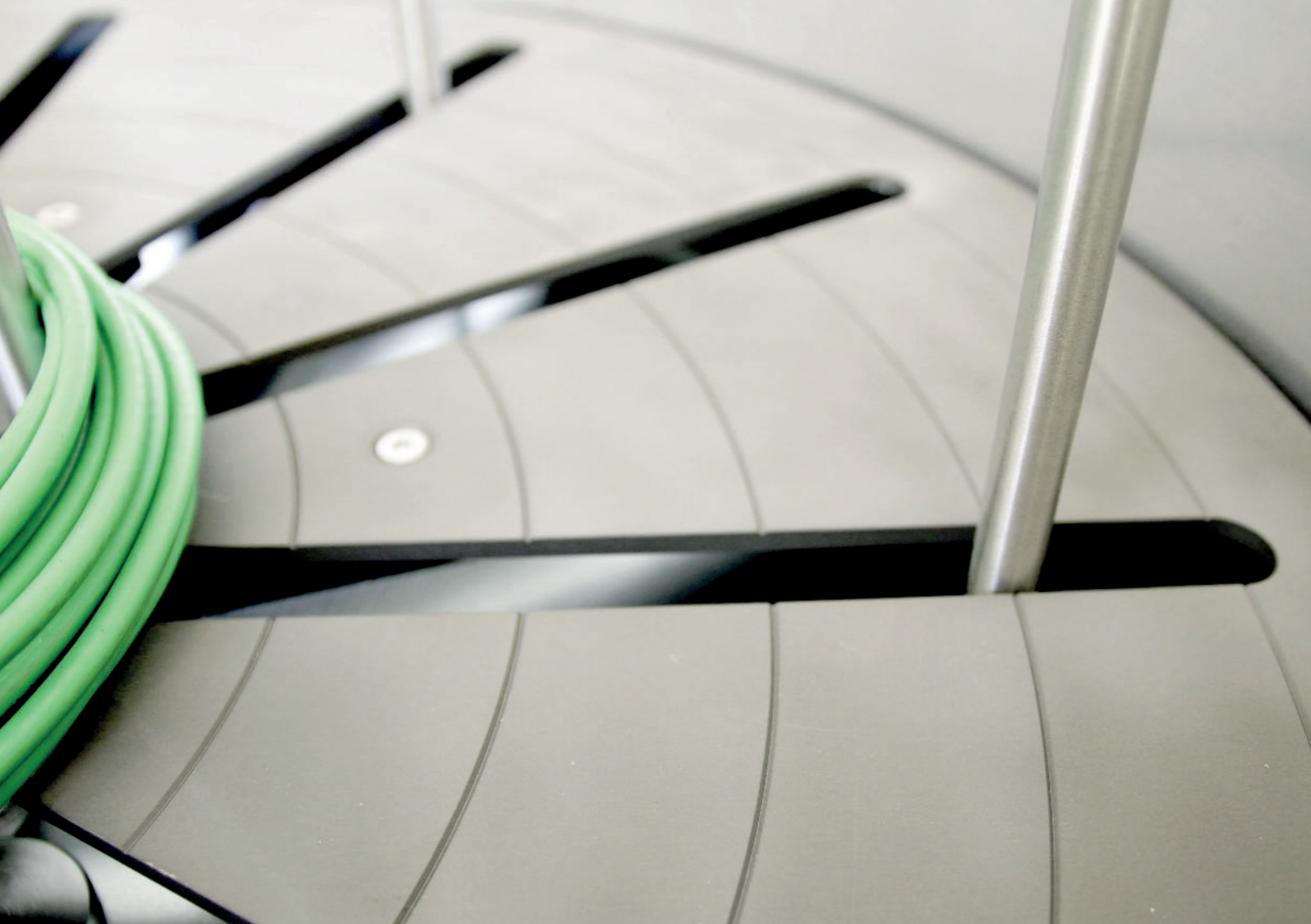


ramatech
systems



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. Cables and flexible wires 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 TIDILY LAYING CABLES

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.

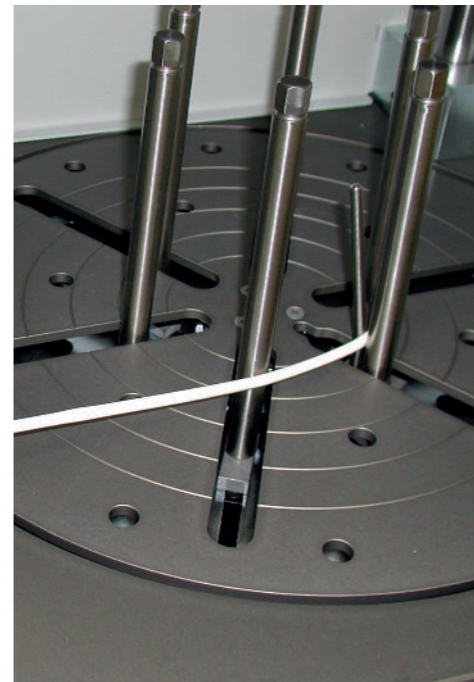
FEATURES

- 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 servo drives for precise coiling
- Suitable for cable coils and spools



RAMATECH KRI 400 SV

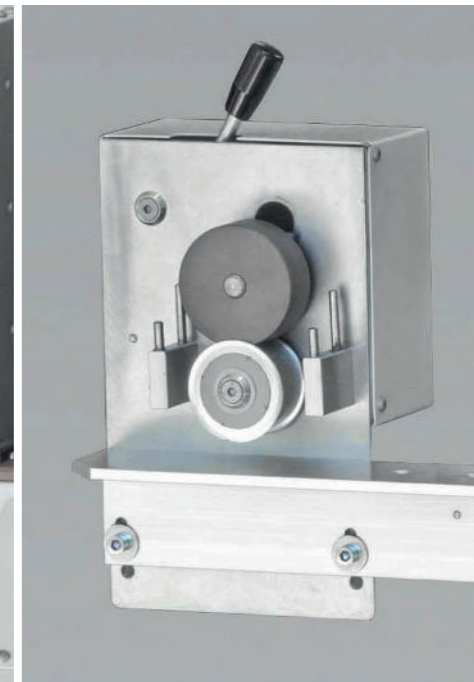
COMPACT, PRECISE AND EFFICIENT



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

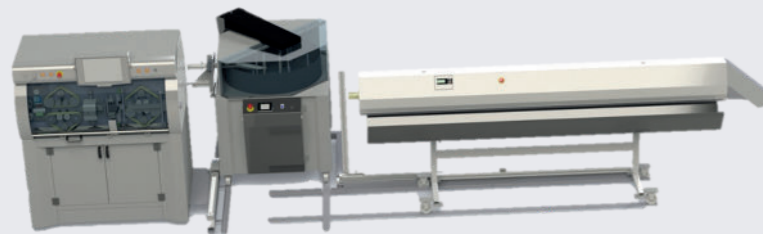
For cable coil outer diameter max. 380 mm. Cable coil inner diameter approx. 150 mm. For cable lengths from 1.5 to 100 m. Minimum 1.5 m length. Above 50 m only up to cable diameter max. 10 mm. Cable diameter from min. 4 up to max. 12 mm. Other cable diameters on request.



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 max. 10 mm. Cable diameter from min. 4 up to max. 12 mm. Other cable diameters on request.

PERIPHERICAL 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)

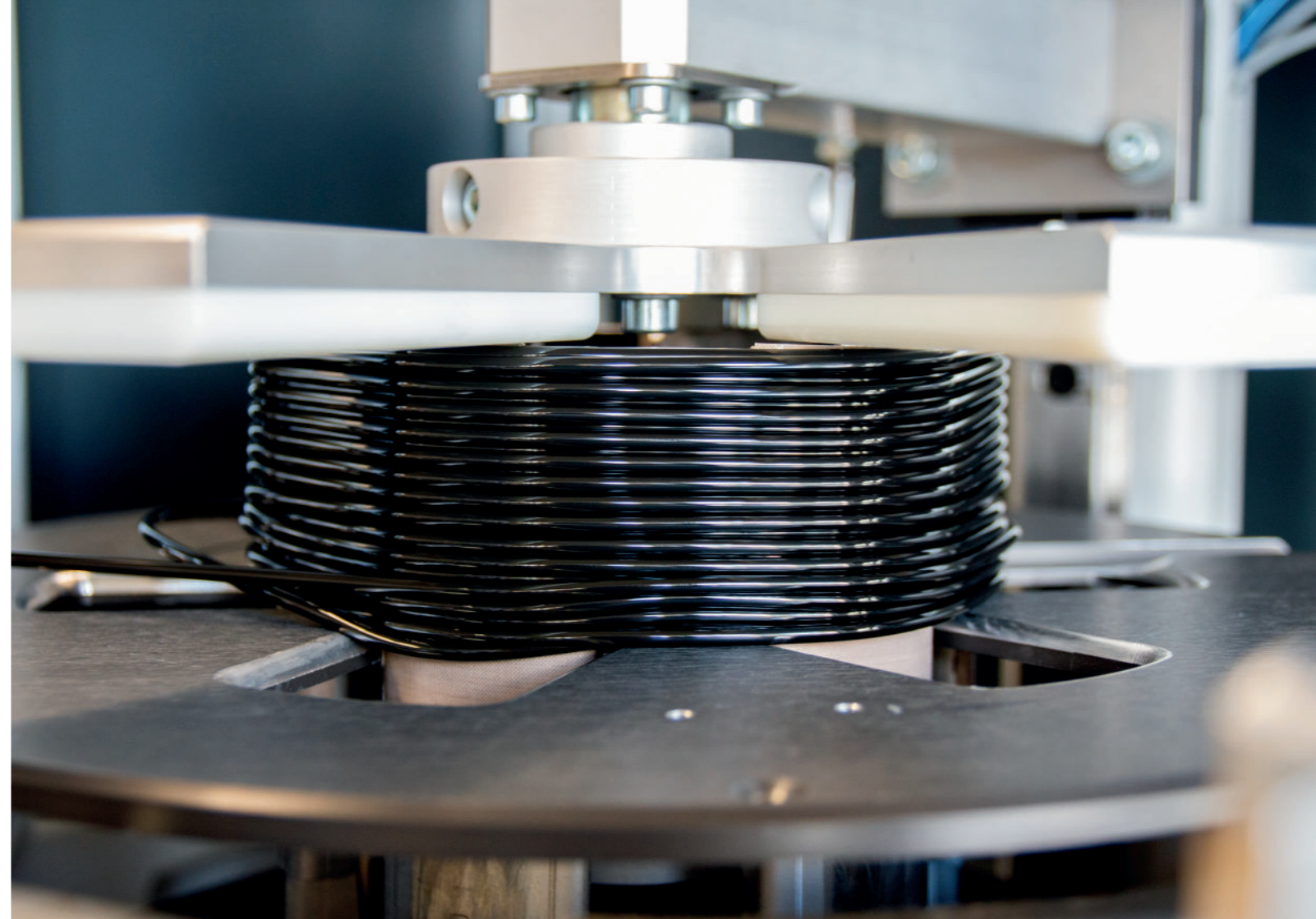
Im Einsatz mit vollautomatischen Wickelbindeautomaten eignen sich FTS zum Abtransport von gefertigten Kabelringen. Ramatech integriert selbstfahrende Transportsysteme in vollautomatischer Anbindung.

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 pin) 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 Operators Terminal			PLC and LCD Operators Terminal with touchscreen. 5.6" programmable	PLC and LCD Operators 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 the 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

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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