



ramatech
systems



RAMATECH CABLE DEREELING SYSTEMS

HIGH PERFORMANCE, ROBUST DESIGN AND EASY TO HANDLE



AUTOMATIC CABLE FEEDING WITH RAMATECH CABLE DEREELER SYSTEMS

Ramatech cable dereelers can be easily integrated into new or existing production lines. The dereeling speed of the cable dereelers adapts to the respective speed of the downstream processing machine. The mounted cable reservoir / accumulator transports any cable gently and with controlled tension. This avoids length deviations caused by uncontrolled elongation of the cable during feeding. Cable spools can be changed easily and quickly without any effort, irrespective of their weight, by rolling in at floor level. Furthermore, additional loops on the cable reservoir allow small and flexible cables to be processed at high speed levels. The robust design supports low maintenance costs. Your production is important to us. Just like you, we expect a maximum of performance and therefore invest a great deal of time in the development of ideal solutions. We encourage you to benefit from our decades of experience in this special field!

CABLE DEREELERS rama 800 / 1000

AUTOMATIC FEEDING OF CABLES

The unique spool clamping system of the rama series was developed by ramatech to allow operators the easiest possible handling of cable spools. Even heavy cable spools can be rolled into the dereeler and easily clamped and lifted using the hand-held control. Special spool centering fixtures ensure safe operation, and make driving pins and spool axles redundant (with exception of rama 1600).

FEATURES

- The cable-end-control detects whenever a cable spool has come to an end by means of a sensor. In such cases the machine automatically stops the production line. As an option also a cable-end-clamp-device is available. This additionally clamps the residual cable when a cable end is detected
- The cable reservoir mounted on the machine allows for the combination of a dynamic cable performance paired with controlled tension (pulling force)
- The unique cable-recoil-detection observes the feeding direction and immediately stops the machine in case of fixed cable ends (to the drums) or jammed cable on a drum.



rama 800

Cable spool diameter up to 800 mm, width up to 650 mm, weight up to 300 kg. Available with right or left door version. Available with active loop control for very sensitive cable types (tension).



rama 1000

Cable spool diameter up to 1050 mm, width up to 750 mm, weight up to 600 kg. Available with right or left door version. On request available with right or left production reservoir.

CABLE DEREELERS rama 1250 / 1600

AUTOMATIC FEEDING OF CABLES

The unique spool clamping system of the rama series was developed by ramatech to allow operators the easiest possible handling of cable spools. Even heavy cable spools can be rolled into the dereeler and easily clamped and lifted using the hand-held control. Special spool centering fixtures ensure safe operation, and make driving pins and spool axles redundant (with exception of rama 1600).

FEATURES

- Both dereelers are suitable for large drums and also stiff cables. As an option the cable reservoir / accumulator is available with one or two additional loops
- The unique cable-recoil-detection observes the feeding direction and immediately stops the machine in case of fixed cable ends (to the drums) or jammed cable on a drum.



rama 1250

Cable spool diameter up to 1260 mm, width up to 850 mm, weight up to 1000 kg. Pneum. swinging arm reservoir. Available with a special spool moving plate.

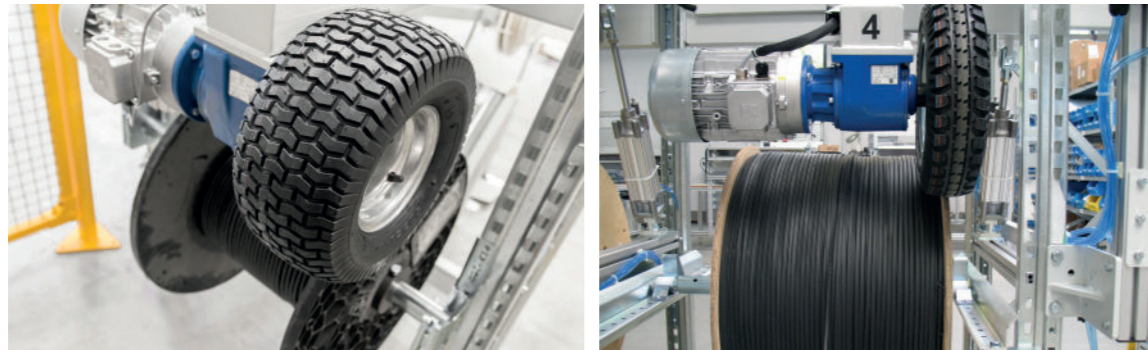
rama 1600

Cable spool diameter up to 1600 mm, width up to 1150 mm, weight up to 2000 kg. Specially designed for „heavyweights“. Cable drums are loaded unto an axle and fixed with centering cones.

CABLE DEREELERS rama TWIN AND rama FLEX

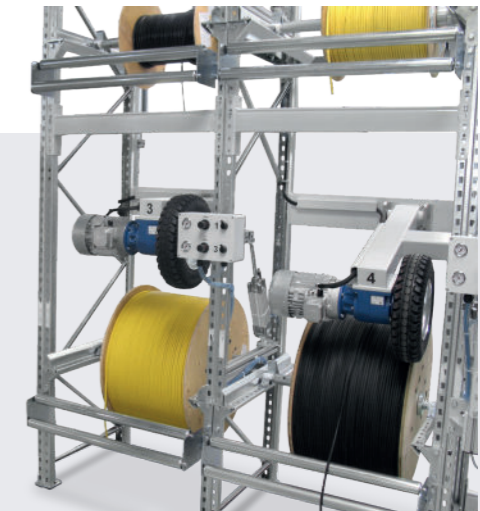
AUTOMATIC FEEDING OF CABLES

The cable dereelers rama TWIN and rama FLEX are designed to enable very fast changeovers. Switching from one cable type to another is mostly a matter 30 - 60 sec. Both machines drive a cable reel with a rubber wheel and balance the cable tension via a cable reservoir / accumulator.



rama TWIN

For cable reel diameter up to approx. 1000 mm, width up to 950 mm, weight up to approx. 750 kg. The system is loaded from the backside



rama FLEX

For cable reel diameters 400 - 1200 mm, width approx. 1000 mm, weight max. 1000 kg. The rama FLEX is a perfect solution for a production with 4-8 cable reels in use.

TECHNICAL DATA

Performance	rama 800	rama 1000	rama 1250	rama 1600	rama TWIN	rama FLEX
Cable spool diameter	up to 800 mm	up to 1050 mm	up to 1260 mm	up to 1600 mm	up to 1050 mm	up to 1200 mm
Cable spool width	up to 650 mm	up to 750 mm	up to 850 mm	up to 1150 mm	up to 750 mm	up to 850 mm
Cable spool weight	up to 300 kg	up to 600 kg	up to 1000 kg	up to 2000 kg	up to 750 kg	up to 1000 kg
Max. cable outside diameter Version 18 Version 35	18 mm 35 mm	18 mm 35 mm	18 mm 35 mm	18 mm 35 mm	18 mm 35 mm	18 mm 35 mm
Max. Cable spool speed	190 min ⁻¹	190 min ⁻¹	145 min ⁻¹	190 min ⁻¹	190 min ⁻¹	190 min ⁻¹
Cable reservoir volume 1 additional loop (2 pulleys) 2 additional loops (4 pulleys)	1.5 - 3 m standard up to 4.5 m up to 6 m	1,5 - 3 m standard up to 4.5 m up to 6 m	With swinging arm reservoir	With swinging arm reservoir	Swinging arm reservoir or linear reservoir	Swinging arm reservoir or linear reservoir
Spool clamping system	ramatech spool clamping system	ramatech spool clamping system	ramatech spool clamping system	With spool shaft /axle	With spool shaft /axle	With spool shaft /axle
Operation	Hand-held remote control	Hand-held remote control	Hand-held remote control	Hand-held remote control	Control panel	Control panel
Interfaces	Communication interface to cable processing machines		Communication interface to cable processing machines		Communication interface to cable processing machines	
Drive	Variable-frequency 3-phase AC motor with electro-mechanical brake		Variable-frequency 3-phase AC motor with electro-mechanical brake		Variable-frequency 3-phase AC motor with electro-mechanical brake	
Electrical connection	3 x 400 VAC, N 25 A	3 x 400 VAC, N 25 A	3 x 400 VAC, N 32 A	3 x 400 VAC, N 32 A	3 x 400 VAC, N 32 A	3 x 400 VAC, N 32 A
Compressed air supply	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
Weight	460 kg	625 kg	845 kg	1250 kg	500 kg	Depends on length
Dimension (L x W x H)	1500 x 1000 x 1000 mm	1770 x 1320 x 1200 mm	1920 x 1580 x 1380 mm	3200 x 2000 x 2320 mm	3500 x 2000 x 3400 mm	Depends on length



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LOCATION SWITZERLAND

ramatech systems AG

Hohenrainstrasse 36

CH - 6280 Hochdorf

Phone: +41 (0)41 914 26 26

E-Mail: info@ramatech.ch

LOCATION GERMANY

ramatech systems GmbH

Messerschmittstraße 30

D - 89231 Neu-Ulm

Phone: +49 731 40 199 200

E-Mail: info@ramatech.de

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