

A CATALOG FULL OF SOLUTIONS

Flexibility in cable handling – winding, cutting, and logistics



LOGISTICS



WIND ENERGY



FIBER OPTIC CABLES



INDUSTRY



AUTOMOTIVE



CABLE MANUFACTURERS



ELECTRICAL INDUSTRY



RAILWAY

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WE DELIVER SOLUTIONS

Our mission: We meet your requirements

When it comes to cable processing or rewinding, Ramatech Systems makes the difference. We don't just deliver a machine – we deliver a solution.

Our machines are designed to be easily combined into complete production lines. Best of all: our equipment is compatible with machines from the Metzner Group – meaning you can choose from the product portfolios of several companies.

If you require something different or have special requests: we adapt our machines to your individual needs and build customized solutions for various applications. You and your requirements are our focus.

You can rely on us to deliver the perfect solution in premium quality – all our machines are [Made in Germany](#) or [Swiss Made](#).

Everything from a single source

- Cutting and stripping machines
- Dereeling and feeding systems
- Ring winding, drum winding and cable stacking systems
- Cable reel storage systems
- Cable rewinding systems with and without automation
- Complete production lines and customized solutions



CABLE REEL STORAGE SYSTEMS

Maximum storage density for your production

In modern production environments, storage and production space is often limited. Our modular cable reel storage systems solve this problem sustainably.

Whether as a semi-automatic compact solution or a fully automated high-performance system: we minimize required floor space while maximizing throughput.

The perfect combination of storage and feeding

Our storage systems are not just passive storage units, but active components of your cable processing line. Flexible loading options – from the front or rear – allow ideal integration into any hall layout.



The result: drastically reduced setup times and optimized material flow.

Your measurable advantages at a glance

- **Logistics optimization:** Reduce internal reel transport and forklift traffic by up to 80%
- **Cable Cat Performance:** Up to 50% additional storage capacity and 50% increased cost efficiency
- **Reduced downtime:** Through fast access and intelligent buffering

Modularity that grows with you

From compact rack systems to fully automated logistics centers – we provide solutions precisely tailored to your needs.

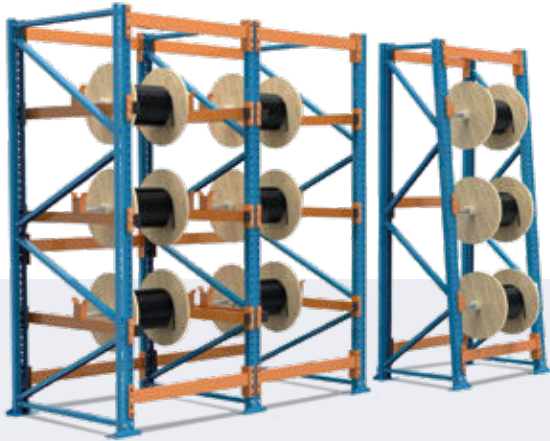
Increase flexibility and secure a competitive advantage through order, safety and speed. Create space for growth.

We are happy to analyze how much storage space you can save with our systems. Contact us for individual planning.



MANUAL AND SEMI-AUTOMATIC STORAGE

RAMA LA01 AND LA02



RAMA LA01

Manual reel rack without a drive unit for any number of cable reels. Reels up to a maximum diameter of 1000 mm and 1000 kg weight.



RAMA LA02

Active reel rack with unwinding drive for reels up to 1250 mm diameter. Maximum cable spool weight up to 800 kg or 1200 kg with special bearing.

The simplest way of storing cable reels (or drums) is our passive storage system LA01 or our active reel rack LA02. The LA01 is a passive reel rack from which cable reels can be unwound without a drive unit.

It is available in different variants. Depending on the type, it can be loaded from both sides and stores drums at the front, rear, or center of the rack.

The LA02 features an unwinding drive and accelerates the cable reel to be unwound using a rubber wheel. This allows for significantly higher unwinding speeds.

Individually adapted to your needs thanks to a modular system

All racks are tailored specifically to your needs as a customer within the framework of a modular construction kit. Various hall dimensions can be covered through different grid widths and frame heights.

In addition, we offer extensive accessories such as reel axles, flanges, backstop mechanisms, etc. – You decide what you need.

PROCESSING DIRECTLY AT THE WORKSTATION

RAMA LA03/1, RAMA LA03/2, RAMA LA04



RAMA LA03 AND LA04

Cable reel storage system with 1- or 2-sided movable platform including production line. (Image right: 2-sided platform). LA03 with space for 300 reels, LA04 for up to 600 reels. Cables up to 35 mm diameter can be processed.

The Ramatech LA03 and LA04 are semi-automatic cable reel storage systems with a movable, motorized platform. The LA03 possesses a movable platform with one-sided cable reel storage and one drive unit, while the LA04 has a platform with cable reel storage on both sides and two drive units.

The storage system is suitable for cable reels up to 1250 mm diameter and weights up to 1000 kg. We offer customer-specific solutions for heavier reels.

Complete movable production line

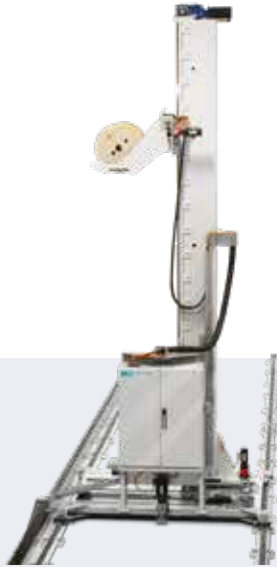
On the platform, there is space for an entire individual cable processing line consisting of a cable accumulator, cut-to-length machine, and coiler/winder.

This unit is then transported to the required cable reel in the storage system with the help of a motor, and the cable is unwound and processed on site. This means the cable reels do not have to be removed individually from the storage system and brought to the production line.

This saves you production transit paths and floor space while achieving a higher processing speed. Optionally, the cable reels can be approached fully automatically via the operating software of the cutting machine.

FULLY AUTOMATIC REEL STORAGE

RAMA LA05 CABLE CAT AND LA06 AGV



RAMA LA05 CABLE CAT

Fully automatic cable reel storage system with double unwinders and integrated inventory management software starting from 150 cable drums.



RAMA LA06 AGV

Direct connection of cable processing lines and cable reel storage systems via a Driverless Transport System (AGV – Automated Guided Vehicle).

Our fully automatic storage systems, specially designed for cable drums, greatly increase economic efficiency and storage capacity. Furthermore, heavy manual labor caused by moving heavy cable drums back and forth is eliminated.

Significant production gain

Double unwinders are integrated into our „Cable Cat“ system, which means there are no waiting times during cable changes in production. A double unwinder has two drum positions; one drum is producing, the other is prepped and waiting for deployment.

Individually tailored to your production

All systems are individually adapted to your production and requirements. Space and room conditions, desired number of spools, as well as weight and size are taken into account. All models are optionally available as a 2-channel system for lot size sorting.

RAMA LA05 Cable Cat Storage System

The Cable Cat features integrated warehouse management software that allows access to every drum at any time – providing a maximum level of transparency. The fully automatic reel storage system is suitable for cables up to 35 mm diameter and spools from 400 to 1000 mm diameter with a maximum weight of 600 kg.

Included in the scope of the Cable Cat:

- Loading stations for storage input and output
- Reel storage system with fully automatic handling robot
- Double unwinders and cable accumulators
- Interface for connecting cable processing lines and for higher-level merchandise management systems (ERP)



YOUR ADVANTAGES AT A GLANCE

- **Best possible use** of storage and production areas
- **Significant production gain** due to short changeover times
- **Reduction of forklift transport & internal spool transport by up to 80%**
- **50% more economical** compared to manual or semi-automatic systems
- **Simultaneous production** with multiple cable processing lines possible
- **Best price-performance ratio** for large quantities of spools

RAMA LA06 AGV - The advanced and fully automated solution

The LA06 connects driverless transport systems (AGV) with cable processing lines and cable reel storage systems directly. The AGV links the storage and production areas in an intelligent way. Ramatech unwinding machines are loaded and unloaded fully automatically.

The Driverless Transport System features laser navigation, sensors for scanning the environment with distance-dependent speed reduction and device stop, and a fork attachment for the direct pickup of cable drums. Cable drums up to 1500 kg can be transported up to a lifting height of 8 m.

CABLE WINDING SYSTEMS

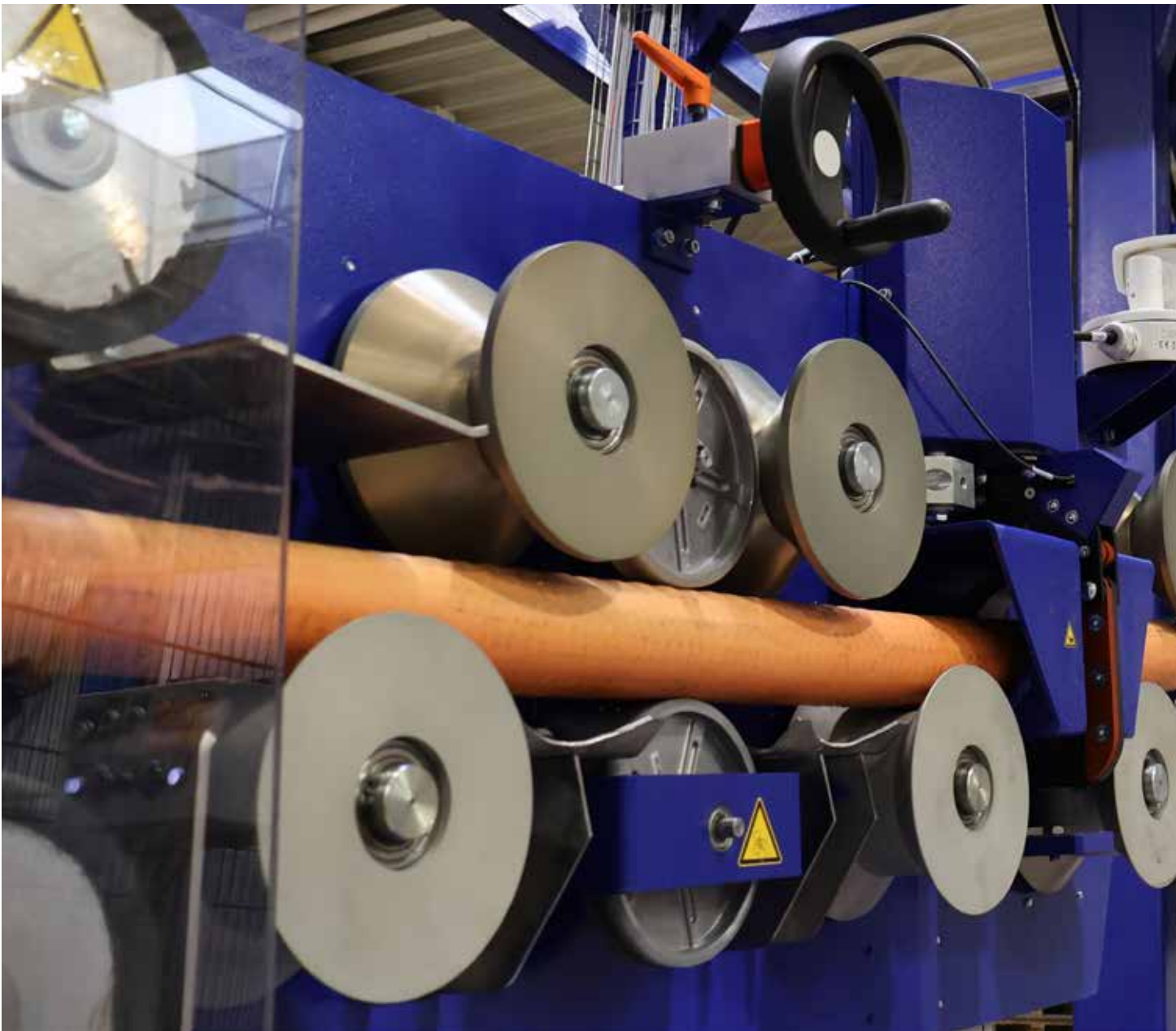
Precision in unwinding, rewinding, and coiling

Our cable rewinding systems offer tailor-made solutions for the most diverse industrial requirements. The spectrum ranges from high-speed spooling of small drums and ring/coil winding to the processing of heavy overhead lines on large drums.

Thanks to modular series, our systems can be individually configured and flexibly integrated into your processes.

Through continuous development and the use of the latest technologies, we guarantee you the highest level of quality, safety, and efficiency.

Your specific requirements are our benchmark for individual customizations.



Flexibility through modular design

No two applications are alike. That is why our rewinding machines are designed in such a way that customer-specific modifications can be realized with little effort. We do not supply rigid standard solutions, but technology that is tailored exactly to your workflow – for maximum investment security and smooth operation.

Practical operating concepts for maximum efficiency

Over 30 years of experience in the construction of winding and cable processing systems form the foundation of our de-

velopment. Since our engineers and technicians also operate the systems in practical use, they know every move and every path in detail.

This practical knowledge flows directly into our intuitive operating concepts: We combine the highest level of operator safety with maximum process speed, so that your employees can work safely and highly productively at the same time.



DRUM FEEDING SYSTEM

How the drum enters the portal

Efficient Drum Logistics

Loading and unloading large drums takes up a significant portion of the total winding time. We know this. That is why Ramatech offers various systems for optimizing your material flow.

Floor-supported feed system with three buffer positions

In this system, the drums are automatically cycled using a roller drive. The drums remain on the floor during this process and roll on their own flanges. The transfer into the portal takes place fully automatically.



Drum feed system with carriage

Here, the cable drum is loaded individually onto a carriage (chassis). The frame traverses on a rail track and is driven into the portal. There, the drum is measured and automatically transferred to the winding machine.

Feed system with conveyor technology

This system is based on the modular arrangement of roller conveyor and conveyor technology modules. In this way, multiple winding lines can be accessed, and drums can be buffered. Depending on the system size, loops and shuttle systems are possible.

The conveyor system can be loaded by forklift or fully automatically via storage retrieval machines (stacker cranes).

Feed system with turntable

Consists of a carriage with a rotation function. Drums can thus be rotated by 90°, which is advantageous in confined spaces and simplifies loading via forklift.



FLOOR-BASED FEEDING SYSTEM

INTELLIGENT MATERIAL FLOW AT EYE LEVEL:
EFFICIENCY DIRECTLY AT FLOOR LEVEL



Floor-based feeding system with three buffer positions

The floor-based feeding system from Ramatech is the specialized solution for highly automated portal loading. It combines space-saving storage with highly efficient onward transport by making optimal use of the physical properties of the cable drums.

In this system, the drums are automatically indexed via a roller drive. The drums remain on the floor and roll on their own flanges. The transfer into the portal takes place fully automatically.

Buffer capacity for uninterrupted production

With three integrated buffer positions, the system decouples material preparation from the actual unwinding process. While the portal processes one drum, two additional drums

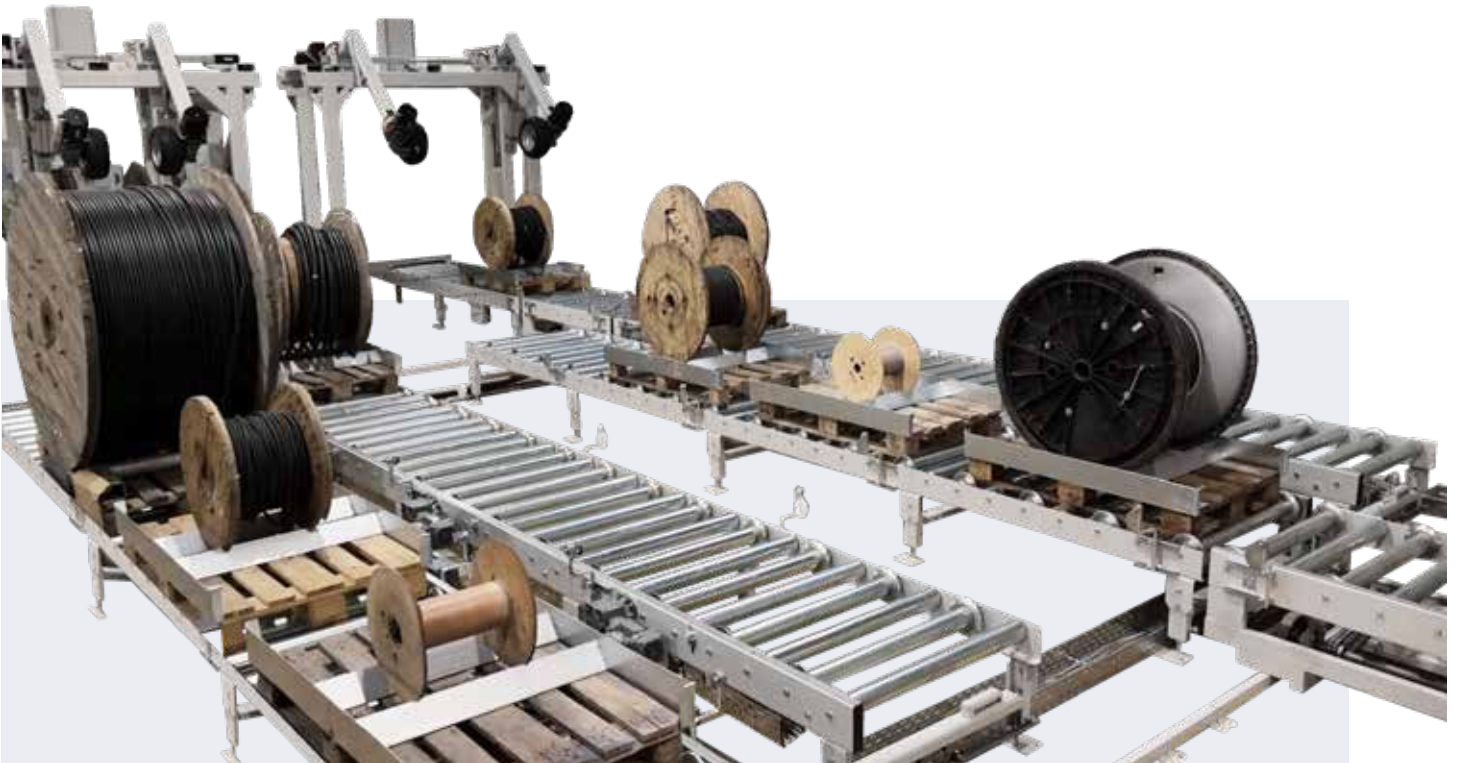
can already be added to the queue. This eliminates downtime during drum changes and ensures a continuous material flow in your production.

Your benefits at a glance

- **Fully automated process:** From loading (feeding) to the transfer to the portal, transport is cycle-controlled and without manual intervention.
- **Precise positioning:** The material-friendly roller drive guarantees exact timing and pinpoint transfer to the portal intake.
- **Robust simplicity:** Since the drums roll on their own flanges, the system is low-maintenance and insensitive to different drum characteristics.

FEEDING SYSTEM WITH CONVEYOR TECHNOLOGY

MAXIMUM EFFICIENCY THROUGH INTELLIGENT DRUM LOGISTICS



Feeding system with conveyor technology

Our modular feed system with integrated conveyor technology is the ideal solution for companies wanting to lift their cable assembly to a new level of productivity and process reliability.

By intelligently linking storage, buffering, and feeding, you optimize your material flow and minimize unproductive downtime.

Flexibility as standard

The system is based on a modular arrangement of heavy-duty roller conveyor and conveyor technology modules. This design allows for serving multiple winding lines in parallel and efficiently buffering drums of different sizes.

Whether as a simple feed line or as a complex system with loops and shuttle units – we adapt the configuration exactly to your spatial conditions and production goals.

The conveyor system can be loaded via forklift or fully automatically using storage and retrieval machines (AS/RS).

Your benefits at a glance

- **Productivity increase of up to 50%:** Thanks to the provision of buffer drums, waiting times during drum changes are almost completely eliminated.
- **Reduction of internal logistics costs:** Thanks to automated processes, forklift trips and manual handling can be reduced by up to 80%.
- **Optimal space utilization:** Through the compact, modular design, you make optimal use of the available space in your production.

WINDING STANDS PASSIVE & ACTIVE WINDING

SIMPLE WINDING – THE SMART SOLUTION



RAMATECH WINDING STAND

Cost-effective method for the passive winding of cable drums. Active winding via drive is optionally available.

The Ramatech winding stands complete the various winding and unwinding methods at the lower end of the spectrum. The drum holding fixture is always based on the use of axles/shafts. The robust construction of the winding stands allows for two operating modes: Passive paying-off or active winding with a drive wheel.

The optionally available drive wheel supports the operator during the setup process (controlled via remote control) and regulates unwinding speed and cable tension.

The series is available in three sizes for small, medium, and large cable drums up to 3200 mm in diameter and 12 t in weight.

From passive paying-off to active winding

The basic construction of the winding stands consists of columns anchored to the floor. Additionally, a drum axle matched to the respective size is always required. In passive paying-off mode, the cable is pulled frontally through a winding machine.

If you prefer the optional active winding, we offer a drive attachment with wheels and a motor. The drive allows for more influence on the winding behavior (acceleration, braking, cable tension, etc.), and the operator can roll the cable back after cutting.

Depending on the drum size, the winding stands can be loaded manually, by pallet jack, forklift, or indoor crane.



YOUR BENEFITS AT A GLANCE

- Two operating modes:** Passive unwinding and active cable winding with a drive wheel to influence winding behavior.
- Active drive:** Regulates unwinding speed, acceleration, and cable tension; the cable can be rolled back.
- Three different sizes:** For drums up to **3200 mm diameter and 12 t weight.**

	Model	AWB1700	AWB2000	AWB3200
TECHNICAL DATA	Max. drum diameter	up to 1700 mm	up to 2000 mm	up to 3200 mm
	Min. drum diameter	from 400 mm	from 600 mm	from 800 mm
	Max. drum width	1100 mm	1200 mm	1600 mm
	Min. drum width	350 mm	500 mm	500 mm
	Max. drum weight	3,5 t	5 t	12 t
	Reel Bore (Arbor hole)	customer-specific or max. 90 mm diameter	customer-specific or max. 90 mm diameter	customer-specific or max. 90 mm diameter
	Winding speed	up to 2 m/s	up to 2 m/s	up to 2 m/s
	Dimensions (L x W x H) (with drum axle and motor)	approx. 1700 x 1800 x 1400 mm (ca. 1700 x 2500 x 2400 mm)	approx. 1880 x 1900 x 2700 mm (ca. 1880 x 2600 x 1200 mm)	approx. 2600 x 2600 x 2400 mm (ca. 2600 x 3000 x 3700 mm)
	Net Weight without drive	approx. 300 kg	approx. 300 kg	approx. 850 kg
	Net Weight with motor attachment	approx. 850 kg	approx. 950 kg	approx. 1.000 kg

ELECTRIC PORTAL SERIES

AUTOMATED UNWINDING OF CABLE DRUMS



RAMATECH W1700 P

Electric portal for the automated unwinding of cable drums up to 1700 mm in diameter and 3 t in weight.

Electric Portal Series

Our electric portal series is characterized by a high degree of automation when unwinding cable drums. The drum size is detected via laser; thanks to the automated centering of the pintles (quills), the drums are clamped and lifted independently. With this fast process, the force applied can be precisely regulated at all times.

As a result, a wide variety of drum types and materials can be picked up without risk of damage. Our portal stations are available in five sizes. The possible drum diameter ranges from 400 mm to 2800 mm, whereby weights up to a maximum of 8 t can be handled.

Safety & Ease of Operation

Various operating options such as control columns, touchscreens, and remote controls contribute to simple and comfortable operation. This allows all portal functions to be executed via mobile control and with one hand.

The second hand is always free for handling the cable. This means even large drum systems can be operated without problems by a single person. The safety of the operator is always the focus.



YOUR BENEFITS AT A GLANCE

- **Automatic rewinding** of cable drums into coils or onto small spools
- Retractable rubber wheels enable **high winding accelerations and rapid braking**, ensuring **dynamic winding behavior**
- **High level of automation** facilitates and accelerates the operating process
- Simplified cable handling through **standardized layering, measuring, and cutting unit**
- **Automatic centering of the pintles** & automatic clamping and lifting process

	Model	W1400 P	W1700 P	W2000 P	W2500 P	W2800 P
TECHNICAL DATA	Drum diameter	400-1400 mm	400-1700 mm	600-2000 mm	1000-2500 mm	1400-2800 mm
	Drum width	350 - 900 mm	350 - 1100 mm	400 - 1450 mm	650 - 1500 mm	900 - 1650 mm
	Drum weight	max. 2 t	max. 3 t	max. 4,5 t	max. 7 t	max. 8 t
	Core hole sizes	30 - 90 mm	30 - 90 mm	40 - 120 mm	40 - 120 mm	40 - 120 mm
	Winding speed	up to 4 m/s	up to 4 m/s	up to 3 m/s	up to 3 m/s	up to 3 m/s
	Connection	3 x 400 VAC / 32 A	3 x 400 VAC / 32 A	3 x 400 VAC / 50 A	3 x 400 VAC / 50 A	3 x 400 VAC / 50 A
	Compressed air supply	6 bar	6 bar	6 bar	6 bar	6 bar
	Weight	1200 kg	2100 kg	3200 kg	4000 kg	5200 kg
	Dimensions (L x W x H)	2800 x 2000 x 2000 mm	3300 x 2500 x 2400 mm	3800 x 2900 x 3000 mm	4600 x 3400 x 3600 mm	5000 x 3900 x 4000 mm

HYDRAULIC PORTAL SERIES

**POWERFUL CABLE REWINDING –
PRECISION AND POWER COMBINED**



RAMATECH W3200 PH

Six sizes for drums up to 3200 mm in diameter and 12 t in weight. Simplified cable handling through standardized layering, measuring, and cutting unit.

Hydraulic Portal Series

For requirements demanding maximum power, our hydraulic portal series is the ideal solution. Compared to the electric variant, it offers particularly cost-effective drive technology for unwinding small and large cable drums. Through versatile additional options, a high degree of automation can also be achieved.

The lifting and clamping drives operate hydraulically. The force applied by the pintles (arms) during clamping can be precisely controlled and adjusted. This allows different drum types and materials to be safely picked up without risk of damage.

Safety & Ease of Operation

Operator safety is our top priority: Safety fences and light barriers ensure comprehensive protection, while flexible operating concepts guarantee a smooth process.

Whether via control columns, touchscreens, or radio remote controls – all portal functions can be controlled intuitively. This enables effortless and safe one-person operation, even with large drum systems.



YOUR BENEFITS AT A GLANCE

- Hydraulic lifting and clamping drive **with adjustable force application of the pintles during clamping ensures protection of the drum material**
- Effective and slip-free transmission of drive power **through adjustable contact pressure on the flange**

TECHNICAL DATA	Model	W1400 PH	W1700 PH	W2000 PH	W2500 PH	W2800 PH	W3200 PH
	Drum diameter	400-1400 mm	400-1700 mm	600-2000 mm	1000-2500 mm	1400-2800 mm	800 - 3200 mm
	Drum width	350 - 900 mm	350 - 1100 mm	400 - 1450 mm	650 - 1500 mm	900 - 1650 mm	500 - 1600 mm
	Drum weight	max. 2 t	max. 3 t	max. 4,5 t	max. 7 t	max. 8 t	max. 12 t
	Core hole sizes	30 - 90 mm	30 - 90 mm	40 - 120 mm	40 - 120 mm	40 - 120 mm	40 - 120 mm
	Winding speed	3 m/s	3 m/s	2 m/s	2 m/s	2 m/s	2 m/s
	Connection	3 x 400 VAC / 32 A	3 x 400 VAC / 32 A	3 x 400 VAC / 50 A	3 x 400 VAC / 50 A	3 x 400 VAC / 50 A	3 x 400 VAC / 50 A
	Compressed air supply	6 bar	6 bar	6 bar	6 bar	6 bar	6 bar
	Weight	1200 kg	2100 kg	3200 kg	4000 kg	5200 kg	7000 kg
Dimensions (L x W x H)	2800 x 2000 x 2000 mm	3300 x 2500 x 2400 mm	3800 x 2900 x 3000 mm	4600 x 3400 x 3600 mm	5000 x 3900 x 4000 mm	5600 x 3500 x 4100 mm	

COILING IN RING FORM

RING WINDER SERIES



RAMATECH KRI400 SV

Ring winder with separate length measurement, cable layering, and cutting unit for cable diameters up to 15 mm. Rings with an outer diameter of up to 370 mm can be wound.



RAMATECH KRI800 SV

Ring winder with traversing layering unit for cable diameters up to 45 mm. Winding of rings up to 750 mm outer diameter is possible.

Depending on cable length and thickness, cable coils (rings) have an advantage over a spool or cable drum. The winding process is faster, and the final product is more cost-effective. For this purpose, Ramatech offers a ring winder series.

Automatically traversing layering unit for precise laying

All Ramatech winders feature an automatically traversing layering unit for the precise laying of cables. In this way, a clean and tidy winding pattern is created.

Diameter scanning with optional automatic adjustment of guide rollers

Both the KRI400 SV and the KRI800 SV feature an integrated measuring and cutting unit. By means of a measuring wheel or optical length measurement, the length of the uncoiled cable is measured and then pneumatically cut to size. For easier manual handling, a diameter scanner with optional automatic adjustment of the guide rollers and a cable feed are available.



YOUR BENEFITS AT A GLANCE

- **Automatic rewinding** of cable drums into ring form (coils) or onto small spools
- **Automatically traversing layering unit** for precise laying
- **Integrated length measurement and cutting unit**
- **Quick changeover** between spools and rings
- **Semi-automatic** cable feeding
- Operation via **user-friendly touch display**

	Model	KRI400 SV	KRI800 SV
TECHNICAL DATA	Cable coil inner diameter	120 - 250 mm (spools also possible)	300 - 550 mm (adjustable)
	Cable coil outer diameter	370 mm (spools also possible)	750 mm
	Max. cable diameter	15 mm	45 mm
	Cable coil height (width)	140 mm	50 - 200 mm (automatic adjustment)
	Max. cable coil weight	20 kg	80 kg
	Winding speed	up to 3 m/s	up to 3 m/s
	Connection	3 x 400 VAC / 16 A	3 x 400 VAC / 25 A
	Compressed air supply	6 bar	6 bar
	Weight	180 kg	700 kg
	Dimensions (L x W x H)	800 x 700 x 1500 mm	3200 x 1300 x 2000 mm

WINDING MACHINE WITH CENTER DRIVE

WINDING CABLE ONTO DRUMS



RAMATECH W1250 AND W1400

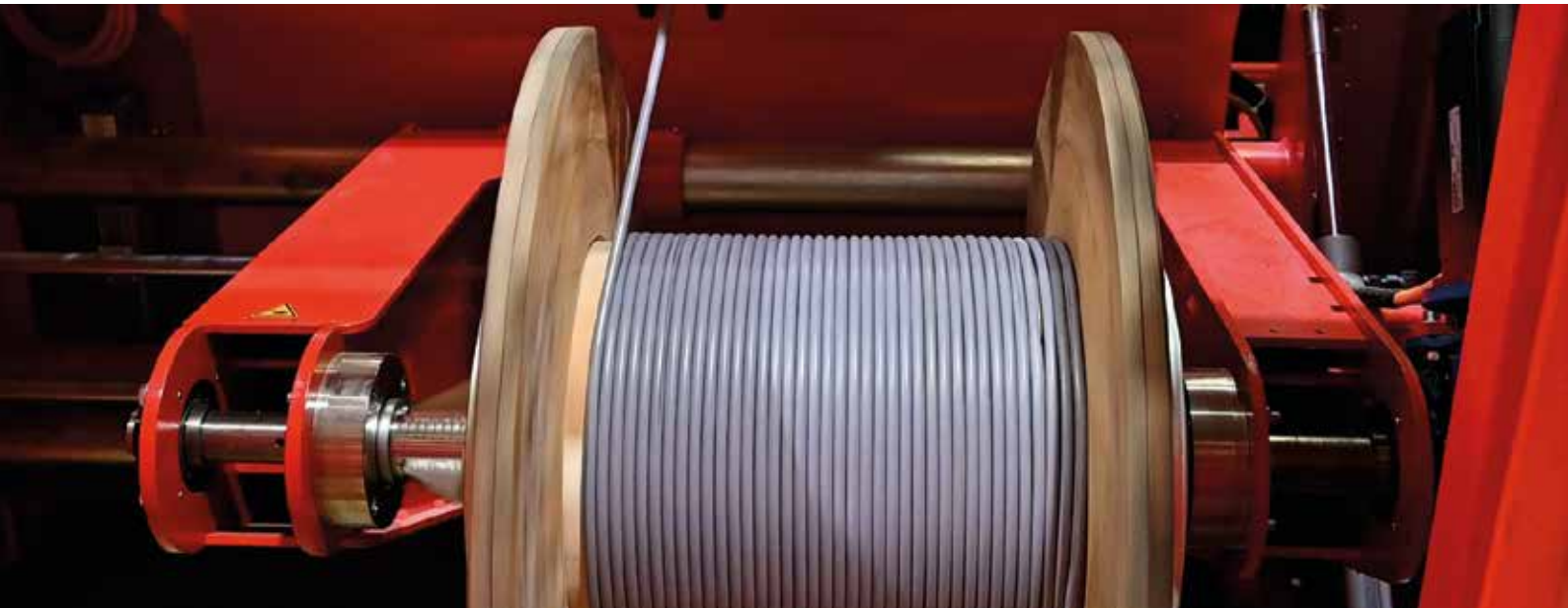
Drum winding machine with automatically traversing layering unit for winding drums up to a maximum diameter of 1250 mm or 1400 mm respectively.

Our drum winding machine series is based on a friction-locked center drive. Driving dogs or other time-consuming setup processes are therefore superfluous. Depending on the type, the drum pickup is carried out semi-automatically or fully automatically according to specified parameters for different drums.

Thanks to the automatically traversing layering unit and manually adjustable reversal points, a clean winding pattern is achieved. The upstream material accumulator also contributes to this, ensuring constant tensile force. Preset acceleration and braking ramps also guarantee a gentle start and stop of the winding process.

Integrative cooperation between human and machine

During the winding process, the operator can easily readjust parameters such as reversal points and speed. The clear touch-screen provides various help functions and displays notes and error messages.



YOUR BENEFITS AT A GLANCE

- **Automatically traversing layering unit** for tidy layering
- **Tensile force control** possible via material accumulator
- **Fast and simple** loading and unloading
- **(Semi-)automatic clamping and lifting** of drums
- Simple operation via **intuitive control terminal**
- **„Push-Out“ function** for quickly releasing drums

	Model	W1250	W1400
TECHNICAL DATA	Drum diameter	400 - 1250 mm (smaller diameters possible with adapters)	400 - 1400 mm (smaller diameters possible with adapters)
	Drum width	300 - 800 mm (smaller drum widths possible with adapters)	250 - 900 mm (smaller drum widths possible with adapters)
	Max. drum weight	1 t	1.5 t
	Core hole sizes	20 - 90 mm	40 - 90 mm
	Winding speed	up to 4 m/s	up to 4 m/s
	Drum intake	Automatic pre-positioning of pintles possible; depending on drum types also automatic lifting & clamping	Semi-automatic clamping and lifting of drums
	Connection	3 x 400 VAC / 35 A	3 x 400 VAC / 16 A
	Weight	800 kg	1100 kg
	Dimensions (L x W x H)	2000 x 1600 x 2200 mm	2300 x 2000 x 1900 mm

VARIOWINDER VW400 / VW700

VARIABILITY COMES FIRST



RAMATECH VW400 / VW700

Winding machine with variable and fast changeover between drums and reels up to 400 mm or 720 mm diameter respectively. For very thin cables up to 20 mm diameter.

Our **Variowinders** are characterized by high variability – hence the name. In a matter of seconds, you can switch between winding onto small cable drums or into ring form (coils). This is made possible by built-in winding mandrels that can be conveniently extended and retracted via a foot pedal. This makes changeover operation significantly faster than with **winding machines** with a center drive.

Fast changeover from cable drums to rings

The Variowinders are suitable for thin cables up to 20 mm in diameter and small rings and drums up to 400 mm or 720 mm in diameter respectively.

The integrated accumulator arm and the traversing layering unit result in a clean layering pattern while maintaining high winding speed. Length measurement is carried out via laser length measurement or a measuring wheel.

Ergonomic working

The drum fixation can be conveniently opened and closed using the foot pedal, and the finished coil can be rotated for easier binding. This, along with the drum or ring intake at table height, serves ergonomic purposes.



YOUR BENEFITS AT A GLANCE

- **Variable winding** onto small drums and in ring form (coils) possible for very thin cables
- **Changeover within seconds** between drums and rings
- **High winding speed** achievable
- **Available for quick insertion of cable coils** (simple binding of rings)
- **Convenient clamping of cable drums** via foot pedal
- **Ergonomic working height** for loading and unloading

	Model	VW400	VW700
TECHNICAL DATA	Function	Winding rings / drums	Winding rings / drums
	Coil inner diameter	150 mm	150 mm
	Max. outer diameter	400 mm	400 / 720 mm
	Cable diameter	1 - 20 mm	1 - 20 mm
	Cable coil height	200 mm	200 mm
	Drum width	350 mm	610 mm
	Weight cable coils / drum	up to 40 kg	up to 80 kg
	Winding speed	up to 3 m/s	up to 3 m/s
	Equipment	Pneumatic cutting unit Length measurement Cable clamping Cable feed	Pneumatic cutting unit Length measurement Cable clamping Cable feed

MOBILE WINDING MACHINES

Flexible on-site: Precise winding for drums and rings – exactly where your material is.



Mobility & The Ramatech MRW Ring Winder Series

Our mobile winding systems are the answer to dynamic requirements in modern cable logistics. Thanks to smooth-running castors, you can effortlessly maneuver the technology directly to the cable rack or storage location. This saves time, shortens walking distances, and optimizes the entire material flow during unwinding and cutting to length. The specialized MRW series forms the core of our portfolio.

From the cost-efficient entry-level model **MRW650 ONE** for manual use to the fully automated high-performance ring winder **MRW650 XL**, we offer the right technology for every volume. A precise layering unit ensures a perfect winding pattern at all times. The intuitive touchscreen control also makes handling particularly easy.

Hybrid Solutions & Ergonomics

Complementing the pure ring winder series, we offer powerful all-rounders with the **MW800** and **MTW1000**. These hybrid models are primarily specialized for winding large cable drums. However, thanks to their flexibility, they can be upgraded at any time with an optional, plug-in ring winding attachment to also produce coil bundles reliably.

For the highest ergonomic demands and heavy loads, the **MTW1000** is also available in the Pro version. Equipped with a hydraulically liftable axle, even the most massive drums can be handled effortlessly. In this way, we combine maximum power with a health-friendly way of working – right there, where your material is. For maximum billing security, all our models can optionally be equipped with calibratable length measurement.



RINGWINDER SERIES MRW

**PROFESSIONAL CABLE HANDLING ON WHEELS:
THE MOBILE SOLUTION FOR EVERY REQUIREMENT**



RAMATECH MRW650 ONE

THE ENTRY LEVEL - The compact and cost-efficient solution for manual use. Ideal for quick, uncomplicated winding of smaller quantities directly at the spool rack or pay-off stand – perfect for mobile use on site.



RAMATECH MRW650 SMART

THE SMART COMPACT SOLUTION - This mobile unit combines simple handling with reliable drive technology and enables efficient rewinding with consistent quality and ergonomic operation.

Our MRW series was specially developed for the efficient winding of cables up to 45 mm in diameter into ring forms. Whether directly from the spool rack or from a drum pay-off – the machines rewind the material precisely to the desired length.

The cable end is simply guided through the measuring and layering unit, and the target parameters are conveniently entered on the touchscreen (from model Basic onwards).

Flexibility through Mobility

A decisive advantage of the entire series is full mobility. All MRW models are mounted on smooth-running castors and are therefore not bound to a specific location. They can be pushed quickly and effortlessly exactly to where they are needed in the warehouse or in production.

Scalable Performance for Every Need

The MRW series is characterized by its modular variety. While the MRW650 ONE offers maximum independence as a purely manual solution, the MRW650 and MRW650 XL models bring significantly more speed into your processes thanks to motorized drives and intelligent PLC controls.

The automatic layering unit of the top models ensures an absolutely exact winding pattern – even with difficult cable geometries. This guarantees not only a professional look for your cable coils but protects the material through controlled tension.

With the MRW650 XL, a powerhouse for industrial continuous operation is also available, enabling the highest throughput rates with minimal setup times.



RAMATECH MRW650

THE BASIC VARIANT - The professional all-rounder with intelligent PLC control. Via the intuitive control panel, winding parameters can be defined exactly, guaranteeing highest reproducibility even with demanding cable types.



RAMATECH MRW650 XL

PROVEN TECHNOLOGY IN XL FORMAT - This version corresponds to the Basic Version in performance and equipment, but is structurally designed for larger winding volumes. The perfect choice when more space for material is needed while maintaining high efficiency.

TECHNICAL DATA	Model	MRW650 ONE	MRW650 SMART	MRW650 SMART-V	MRW650	MRW650 XL
	Max. Inner diameter	300 - 500 mm	300 - 500 mm	300 - 500 mm	300 - 500 mm	300 - 500 mm
	Max. Outer diameter	650 mm	650 mm	650 mm	650 mm	650 mm
	Cable diameter	4 - 35 mm	2 - 45 mm	2 - 45 mm	2 - 45 mm	2 - 45 mm
	Cable coil height	up to approx. 200 mm	up to approx. 200 mm	up to approx. 200 mm	up to approx. 200 mm	up to approx. 200 mm
	Drum width	240 mm	240 mm	240 mm	240 mm	450 mm
	Weight cable coils	50 kg	50 kg	50 kg	50 kg	50 kg
	Rotation speed	N / A	max. 131 min ⁻¹	max. 131 min ⁻¹	max. 131 min ⁻¹	max. 131 min ⁻¹
	Winding speed	N / A	up to 2 m/s	up to 2 m/s	up to 2 m/s	up to 2 m/s
	Optional	Aluminium Ring winding set	Aluminium Ring winding set	Includes manual layering unit	Automatic layering incl. Ø scanning	Automatic layering incl. Ø scanning
Dimensions (L x W x H)	1300 x 830 x 1300 mm	1300 x 830 x 1300 mm	1300 x 830 x 1300 mm	1600 x 830 x 1300 mm	1600 x 1300 x 1300 mm	

MOBILE DRUM WINDERS MW800 AND MTW1000

DRUM AND RING WINDER COMBINED



RAMATECH MW800

Hybrid winder capable of winding drums and rings. Winding of rings only possible with plug-in attachment. Cables up to 45 mm diameter.



RAMATECH MTW1000

Mobile winder for winding drums. Optionally available with the capability to wind rings using a plug-in ring winding attachment.

Mobile Drum Winder MW800

The MW800 rewinds cables up to 45 mm Ø from racks or roller stands onto drums (up to 800 mm Ø) or rings (with optional plug-in ring winding attachment). Drum loading takes place at ground level via pintles with a subsequent lift mechanism.

Mobile Winding Machine MTW1000

The MTW1000 winds cables up to 45 mm Ø from storage systems onto drums up to 1000 mm Ø. Unlike the MW800, loading is performed via a shaft with a clamping cone.

MTW1000 „Pro“

The „Pro“ version also features a hydraulically liftable and lowerable lifting axle. A plug-in ring winding attachment is optionally available here as well.

Functionality and Workflow

After loading the empty drum, the cable end is guided from a drum storage or roller stand through the measuring and layering unit and secured. After entering the desired target length, the winding process starts. The speed can be adjusted at any time during this process.

Upon reaching the target length, the device stops, cuts the cable at the mark, and deposits the wound drum or ring on the floor at the push of a button.



YOUR ADVANTAGES AT A GLANCE

- **Fast rewinding** from spool racks or roller stands
- High degree of **flexibility and winding power**
- Comfortable rewinding process thanks to **ground-level loading of drums or spools**
- **Mobile usage** thanks to wheels under the machine
- Optionally with **plug-in ring winding attachment for quick conversion to rings**
- **Automatic layering for longer cable lengths** optionally available

	Model	MW800	MTW1000	MTW1000 Pro
TECHNICAL DATA	Function	Wind rings / drums	Wind rings / drums	Wind rings / drums
	Inner diameter	450 mm / 100 mm	300 mm / 80 mm	300 mm / 80 mm
	Max. Outer diameter	750 / 800 mm	650 mm / 1000 mm	650 mm / 1000 mm
	Cable diameter	2 - 45 mm	2 - 45 mm	2 - 45 mm
	Cable coil height	approx. 50 - 150 mm	up to approx. 200 mm	up to approx. 200 mm
	Drum width	100 - 660 mm	200 - 720 mm	200 - 720 mm
	Weight cable coils / drum	40 kg / 300 kg	50 kg / 350 kg	50 kg / 350 kg
	Rotation speed	max. 200 min ⁻¹	max. 193 min ⁻¹	max. 193 min ⁻¹
	Winding speed	up to 3 m/s	up to 3 m/s	up to 3 m/s
	Optional	Automatic layering	Automatic layering	Automatic layering

PERIPHERAL EQUIPMENT

THE IDEAL COMPLEMENT



ELASTIC BINDER EB35

Simple and fast binding of cable bundles and very small rings up to 35 mm diameter.



KNOT BINDER KB35

Latest development in bundling technology, equipped with clamping and knotting technology proven thousands of times over.



AUTOMATIC STRAPPING MACHINE UA-M

Simple and fast binding of cable bundles and very small rings starting from 80 mm diameter.

Elastic Binder EB35 and Knot Binder KB35

Cable coils and cable bundles are difficult to handle if they are not bound. With the two binding devices EB35 and KB35, this is done quickly and simply. The item to be bound is wrapped with an elastic cord and automatically knotted.

To ensure that even delicate items can be bound without risk, the tension of the binding thread can be adjusted individually. The KB35 represents the latest development in the field of modern bundling technology with sophisticated clamping and knotting technology.

Automatic Strapping Machine UA-M

The UA-M binding or strapping machine with automatic tape threading system and ring-shaped closing frame is ideal for binding long cables. A choice can be made between PP and PET tapes. The tape tension can be adjusted via the web HMI.



AUTOMATIC CHANGEOVER DEVICE KRI-KA

Automatic changeover between cable ring winder and cable coiler connected to the Ramatech cutting machine Speedy.



PAY-OFF TROLLEY 1000 AND 1250

1000: with spindle adjustment
1250: with tilting lever

Automatic Changeover Device KRI-KA

Alternating between cable ring winder and cable coiler – possible without problems with the automatic changeover device KRI-KA. The changeover is programmable in the software of our „Speedy“ cutting machine or can be selected manually via a touchscreen panel.

Pay-off Trolley 1000 and 1250

Our drum trolleys 1000 or 1250 are passive pay-off devices for subsequent processing machines. The pay-off axle and brake ensure smooth unwinding behavior. Loading the cable drum is done without great effort.

We offer the drum trolley 1000 with spindle adjustment for drum diameters up to 1000 mm and 500 kg weight, and the version 1250 for drums up to 1250 mm with tilting lever and drums up to 500 kg.

OUR EXPERTISE IN MECHANICAL ENGINEERING

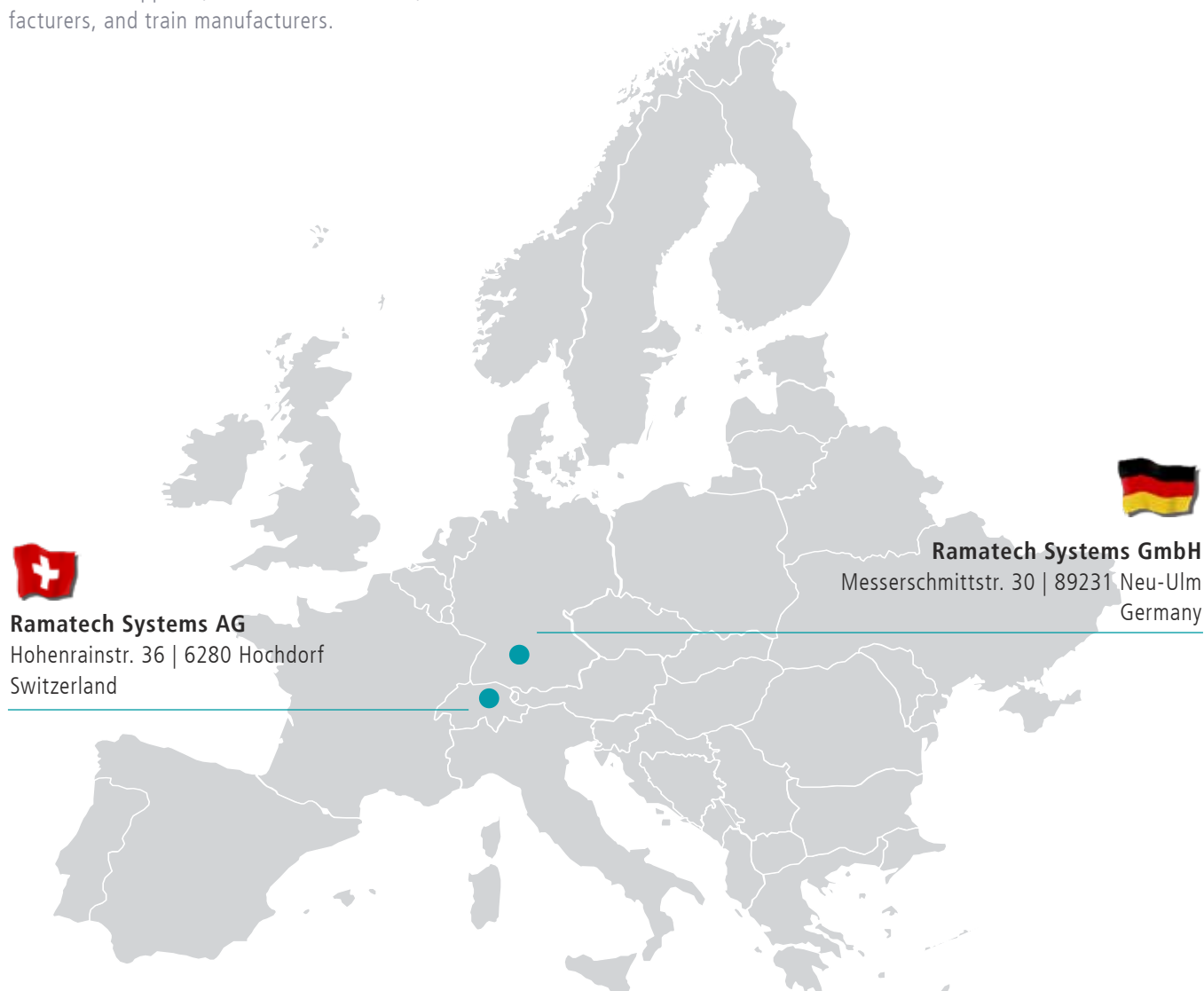
2 Countries, 2 Locations, and over 30 Years of Experience


After its foundation in Central Switzerland in 1988, Ramatech quickly made a name for itself in unwinding machines and ring winders. However, the spirit of invention did not stop there. Over the years, the product portfolio has steadily expanded.

Today, Ramatech Systems offers machines and systems along the entire cable value chain. National and international customers include renowned cable works, cable assemblers, automotive suppliers, electrical wholesalers, aircraft manufacturers, and train manufacturers.

Our Plus Point: Over 30 Years of Experience and Synergy Effects

In 2015, the Metzner Group took over the operating business of Ramatech Systems as part of a generational change. The entire corporate group benefits from the merger. Synergy effects are utilized, and new products are created. Six years later, a second location was established in Southern Germany.




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RAMATECH SERVICE & SUPPORT

We ensure a smooth production process

Even the most reliable machine requires regular care and maintenance. Wear parts must be replaced, and in the event of faults or problems, you need fast and expert support.

You may also have retrospective special requests, wish to expand the functional scope of the machines, or train your team specifically to increase efficiency.

Ramatech does not leave you in the lurch here but offers comprehensive service and support.

The software of many of our systems allows fault diagnosis or troubleshooting via remote access. We can also read current software statuses or error displays online and react accordingly.



Support contract:

With a support contract, you have access to our technical support hotline **from 07.00 am to 10.00 pm**, ensuring that problems are solved quickly via video call and chat. And if all else fails, we will come on-site.



Maintenance contract:

With a maintenance contract, you can ensure cost-effective and regular maintenance intervals. You will also receive a discount on spare parts.

Ramatech support and maintenance contract

To ensure a stable and optimized performance of your machine, we recommend signing a maintenance contract. Based on this agreement, we ensure that a Ramatech service technician will check your machine at regular intervals, lubricate and replace wear parts - essentially keeping your machine in top condition.

You will receive a detailed report after each service. Our service and support hotline is available for urgent problems. In many cases, we can access your machine via remote access as a first step to efficiently resolve the issue.

We come directly to your site. Wherever you need us for maintenance, service work, troubleshooting or to assess the scope of maintenance, our service technicians will be happy to visit and carry out the necessary measures. Simply contact us to learn more about our maintenance and service options.

BUNDLED EXPERIENCE

4 SUCCESSFUL COMPANIES
1 CORPORATE GROUP



Metzner
Maschinenbau

Rubber & Plastics



Corrugated Tube Processing



Cable Processing



ulmer GmbH
MASCHINENBAU



High-Voltage Cable Processing

Metzner
E-Mobility



Winding Technology



Cable Processing



ramatech
systems



RAMATECH SALES PARTNERS WORLDWIDE

Internationally, Ramatech Systems is represented in over 20 countries by qualified partners for sales and service. Ramatech is actively working on further expanding its global presence. Specialized partners provide sound sales advice and service expertise.

Find out more at: <https://www.ramatech.ch/en/company/sales-partners-worldwide/>
or scan the QR code directly.



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