

movexx
smart electric tugs



Discover our smart electric tugs

Product brochure 2024 - Edition 1



» move your work **easier**



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Our smart electric tugs, your applications

From postal packages to heavy aircraft weighing up to 6,000 kg, we enable you to move your loads faster, safer, and without a sweat. Our smart electric tugs ensure that all loads moved by humans are performed efficiently, safely and in an ergonomically responsible manner.

Every sector, every assignment, and every solution is unique. With over fifteen years of experience, we understand the challenges you face. That is why you deserve excellence, either by state-of-the-art standard solutions or by a customized service. You need a tug you can trust. Our innovative approach gives you this trust, supercharges your employee vitality and streamlines logistics like never before.

Movexx moves your work more easily





What is a smart electric tug?

With our compact, manoeuvrable, and highly reliable tugs, you can move loads without a sweat in an ergonomically responsible manner. As the market leader of smart electric tugs, we have the perfect solution for all your queries regarding the horizontal movement on wheels of materials and equipment weighing up to six tons.



How they work

Electric tugs keep loads safely on the ground. They employ two key methods to gain traction and, consequently, move heavy loads. Our compact, user-friendly, and aesthetic smart electric tugs make it very easy to transport heavy loads with maximum control.

How they are powered

Smart electric tugs are fully powered by batteries, with several options available depending on your requirements. Options range from powerful, sustainable and swappable lithium batteries to built-in batteries and fixed AGM maintenance free batteries.

Available types

Our smart electric tugs are designed to dominate across multiple market segments and weight classes, ensuring that we meet all your unique needs with precision and excellence. No matter the application, our electric tugs deliver unmatched performance and adaptability. Whether you're moving heavy loads in a bustling warehouse or navigating complex environments, our tugs provide the power and flexibility you need.

How they connect to a load

To ensure safety and reliability, our smart electric tugs come with a variety of coupling choices for connecting to the load.





Not just any ordinary electric tug

Innovative, distinctive and trendsetting



Enhance safety

Minimize manual handling and decrease dependence on cranes and forklifts



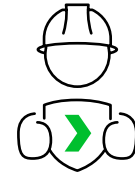
Maximise efficiency

Move your loads faster, safer, and without a sweat



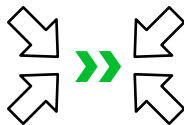
Ergonomically responsible

With our compact, manoeuvrable, and highly reliable tugs, you can move loads very easily, without any physical strain



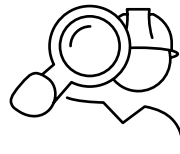
Maximum control

Unrivalled control in the hands of single operators



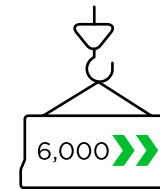
Manoeuvrability

Push, pull and manoeuvre with ease, even in tight spaces



Custom solutions

Opt for our standard solutions or customized service, perfectly crafted to meet your industry's unique needs



Weight capacity

Move loads up to 6,000 kg without any risk



Lithium batteries

Powerful, sustainable and swappable lithium batteries

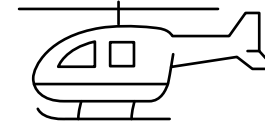




The use of smart electric tugs

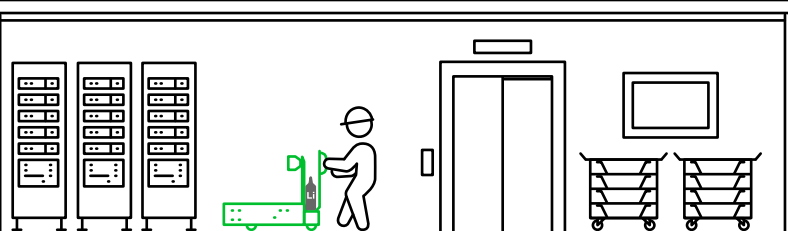
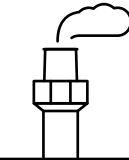
Airport

Move luggage carts ergonomically with our tugs



Datacenter

Move hardware riskless with our tugs



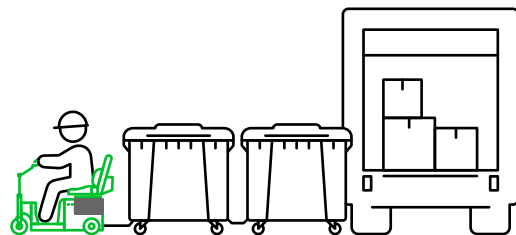
Hospitality & Events

Improve your logistic processes with our tugs



Waste & Facility

Optimize waste management with our tugs



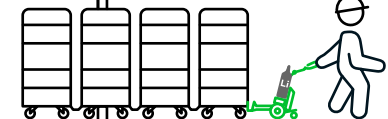
Retail & Distributions

Load and unload containers efficiently with our tugs



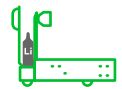
Healthcare & Laundry

Move hospital beds seamlessly with our tugs



Key

Tow-on Tug



Ride-on Runner

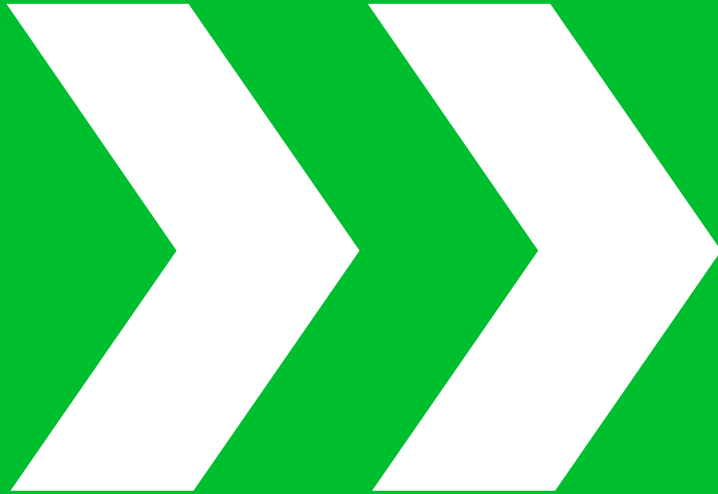


Carry-on comfort



All-on Automatic





Product Range





Tow-on Tug

Move wheeled loads like a child's play with our walking tugs

With our powerful Tow-on Tugs, you will always be on the right track. In fact, our Tow-on Tugs provide the perfect solution for moving wheeled loads up to 6,000 kg. With the most powerful lithium batteries, customized coupling systems and ergonomic design, Tow-on Tugs boost productivity and efficiency, eliminate physical strain for operators and are perfectly crafted to meet your industry's unique needs.



Tow-on Tug Range

Machine model	Battery	Pulling power	Speed
TT1000-T	St. Interch. Lithium LiFePO4	1000 kg	4 km/h
TT1000-L	St. Interch. Lithium LiFePO4	1000 kg	4,7 km/h
TT1000-T-CP	Lithium LiFePO4		4 km/h
TT1000-M-Inox-EB	Lithium LiFePO4	1000 kg	4 km/h
TT1000-F	St. Interch. Lithium LiFePO4	1000 kg	4,7 km/h
TT1000-M	St. Interch. Lithium LiFePO4	1000 kg	4,5 km/h
TT1500-T	St. Interch. Lithium LiFePO4	1500 kg	4,7 km/h
TT1500-S	St. Interch. Lithium LiFePO4	1500 kg	4 km/h
TT2500-S	Built-in, 24 Volt, 75 aH	2500 kg	4 km/h
TT2500-S-Push	Built-in, 24 Volt, 75 aH	2500 kg	4 km/h
TT2500-L	St. Interch. Lithium LiFePO4	2500 kg	4 km/h
TT2500-S-AT	AGM Battery	2500 kg	4,7 km/h
TT3500-S-AT	Lithium LiFePO4	3500 kg	4,5 km/h
TT3500-S	Fixed AGM maintenance free	3500 kg	4 km/h
TT3500-S-Push	Fixed AGM maintenance free	3500 kg	4 km/h
TT6000-S	Fixed AGM maintenance free	6000 kg	4 km/h
TT1000-T-Inox	Fixed AGM maintenance free	1000 kg	4 km/h
TT1500-M-SR	LiFePO4 battery 24 Volt, 36 aH	1500 kg	4-4,5 km/h
TT1500-T-Inox	St. Interch. Lithium LiFePO4	1500 kg	4 km/h
TT1000-T-Cleanroom	Fixed AGM maintenance free	1000 kg	4 km/h
TT1500-T-Cleanroom	Fixed AGM maintenance free	1500 kg	4 km/h
TT2500-S-Cleanroom	Fixed AGM maintenance free	2500 kg	4 km/h
TT6000-S-Cleanroom	Fixed AGM maintenance free	6000 kg	4 km/h
TT1000-T-Basic	Fixed AGM maintenance free	1000 kg	4 km/h
TT500-S-HH	Built-in, 24 Volt, 22 aH	500 kg	4 km/h





Ride-on Runner

Boost productivity with our stand-on tugs

Are you looking for the most efficient solution for operators to stand on while maneuvering loads? Then our Ride-on Runner tug is the answer. With a capacity of up to 3,500 kg, Ride-on Runner tugs effortlessly pull and push materials, making them versatile and adaptable while meeting your industry's needs. They have the most powerful lithium batteries to ensure unparalleled performance and they come with a swappable battery option. It doesn't matter if you're transporting goods in warehouses, factories or healthcare facilities, Ride-on Runner tugs boost productivity while eliminating physical strain for operators.



Ride-on Runner Range

Machine model	Battery	Pulling power	Speed
RR1000-S	St. Interch. Lithium LiFePO4	1000 kg	6,5 km/h
RR3500-S	St. Lithium LiFePO4	3500 kg	10 km/h
RR1000-S-Inox	St. Interch. Lithium LiFePO4	1000 kg	6,5 km/h



All-on Automatic AGV/AMR

Enhance workflow efficiency with our automatic tugs

AGV stands for 'Automated Guided Vehicle' which is used to effectively and efficiently transfer, and transport material loads from one place to another. AGVs are automatic devices that do not require continuous human supervision or intervention. Our All-on Automatic (AGV/AMR) tugs streamline horizontal movement up to 2,500 kg and operate autonomously, following pre-defined routes using advanced sensors and guidance systems and its software enables it to automatically change course when an obstacle is identified. This means nothing can get in the way of it doing its job! With the most powerful and sustainable lithium batteries and customized coupling systems, there's no doubt that they fit any industry's unique needs.



All-on Automatic Range

Machine model	Battery	Pulling power	Speed
AA1000-S-Basic	St. Interch. Lithium LiFePO4	1000 kg	3,6 km/h
AA1000-S	St. Interch. Lithium LiFePO4	1000 kg	4,7 km/h
AA1000-S-Underrider	St. Interch. Lithium LiFePO4	1000 kg	3,4 km/h
AA2500-S	St. Interch. Lithium LiFePO4	2500 kg	4,7 km/h



Carry-on Comfort

The perfect solution for every load with our powerful seat-on tugs

Discover our powerful Carry-on Comfort tugs, which are perfect for horizontal movement on wheels of materials and equipment up to 3,500 kg. They are not only compact and maneuverable, but they also make sure physical strain on operators is eliminated. Due to their sustainable and swappable lithium batteries, and customized coupling systems, Carry-On Comfort tugs ensure efficient operation while being adaptable to various load types and sizes. Are you looking for a smart choice for efficient material handling, especially where space is limited or physical strain needs to be minimized? Then our Carry-on Comfort tug is the perfect solution for you.



Carry-on Comfort Range

Machine model	Battery	Pulling power	Speed
CC2500-S	Fixed AGM maintenance free	2500 kg	8 km/h



Sectors





Move your work easier at the **airport**

Lighter, faster and easier

Airport staff is constantly dealing with high work pressure and physical loads. Tight schedules, along with pushing, pulling, lifting, carrying, and repetitive actions, can put such a strain on employees that they need time off work due to physical and psychological problems. Our innovative electric tugs provide the best solution to empower your employees to effortlessly move loads, while making your operations smoother than ever.

Work healthily and efficiently

With our smart electric tugs you:

- Reduce physical strain on employees
- Make moving luggage carts and meal trolleys much easier, lighter and faster
- Need one employee instead of three by using our radiographic remote control of our TT1000-T and TT3500-S platform machines
- Comply with legal requirements
- Enhance work processes for greater efficiency

Our tugs are used to

- Move luggage carts
- Tow meal trolleys
- Move aircraft stairs
- Tow helicopters or small planes

Calculate
your price now

Request a
demo now

Customer's
experience





Move your work easier in the **datacenter industry**

Prevent incidents and ensure efficiency

You know incidents in a datacenter are very costly. Injuries to personnel and damage to hardware and software due to moving server racks are unacceptable. We recognize that joints, thresholds, and other small obstacles pose risks during various circumstances. The Movexx server rack tugs are perfectly designed to allow your operators to move this valuable hardware smoother, safer and more responsible than ever.

Eliminate the risks

With our smart electric tugs you:

- Reduce physical strain on employees
- Make sure that the racks can be moved safely and stable, whether over short or long distances
- Handle server racks during crating or uncrating
- Reduce injuries from overloading and acute incidents

Our tugs are used to

- Move server racks over long distances
- Move server racks over short distances
- Uncrate server racks
- Crate server racks

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your price now

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demo now





Move your work easier in the **food & pharma industry**

Prioritize safety and health

Every day, the food & pharma industry faces the challenge of meeting high production targets and delivery deadlines. On top of that, work should be executed safely, ergonomically and 100% hygienically. There are strict legal standards in place to prevent contamination of your product. By using our stainless steel Clean-Room machines, you do not only make sure that employees can work safely, but you also ensure that your industry is clean throughout the whole process.

Give dirt and bacteria no chance

With our smart electric tugs you:

- Ensure employees work ergonomically
- Comply with legal requirements
- Create more efficient work processes, helping you to save time
- Give dirt and bacteria no chance to accumulate, due to our laser-welding technology and machines from stainless steel

Our tugs are used to

- Move stock in cleanrooms
- Move liquid tanks in a cleanroom environment
- Move sensitive equipment in a cleanroom environment

Calculate
your price now

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demo now





Move your work easier in the healthcare & laundry industry

Ensure safety and efficiency

In healthcare, over 40% of employees face high pressure due to tasks and physical demands. Moreover, moving mobile loads safely and efficiently within bustling healthcare facilities poses a formidable task.

Our innovative tugs are the perfect solution to ensure employees work safely and securely, while reducing the number of manual tasks and boosting efficiency.

Time pressure belongs to the past

With our smart electric tugs you:

- Reduce physical strain on employees
- Can move many different types of beds
- Alleviate workload and reduce the number of employees needed
- Can work more efficiently

Our tugs are used to

- Move hospital beds
- Pull linen carts
- Remove rubbish bins and clinical waste
- Bring meals around

Calculate
your price now

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demo now

Customer's
experience





Move your work easier in the hospitality & events industry

Agile and multifunctional

You need to rely on a fast and efficient logistical flow of goods at all times. Drink trolleys, laundry carts, and other equipment on wheels needs to be in the right place as agreed and as you would expect. By using our smart electric tugs, you not only rely on a fast and efficient logistical flow, but you also ensure ease and comfort for your staff. All along the process.

Boost your logistic processes

With our smart electric tugs you:

- Reduce physical strain on employees
- Transport several carts at the same time
- Transport staff, luggage and equipment in a convenient way
- Move easily in hotels, during events and at amusement and holiday parks

Our tugs are used to

- Transport luggage
- Pull linen carts
- Carry drink supplies
- Remove waste

Calculate
your price now

Request a
demo now

Customer's
experience





Move your work easier in the **industry**

Safer and faster

The top three areas that product managers focus on are: reducing machinery downtime, keeping production lines running, and keeping employees safe. We support your production process and increase your efficiency, saving you time. Our innovative tugs are designed to handle materials faster and more securely, making your operations smoother than ever. On top of that, they are crafted with your team in mind. They empower your employees to effortlessly move large and small loads without any physical strain, ensuring ease and comfort. In every step of the way.

Customization for automotive

With our smart electric tugs you:

- Reduce physical strain on employees
- Reduce downtime as any trained employee can move a load
- No longer need to wait for a forklift or crane to become available
- Create more efficient work processes

Our tugs are used to

- Transport semi-finished products
- Replenish production stocks
- Move heavy equipment
- Remove production waste

Calculate
your price now

Request a
demo now

Customer's
experience





Move your work easier in the retail & distribution industry

Fast and efficient

Things always need to be done faster, cheaper, and more efficiently in your sector. This is achieved by reducing manual actions in a safe manner, improving order picking speeds, and increasing productivity. By using Movexx smart electric tugs, your logistics process will be safe, fast, and more efficient. On top of that, they are the perfect solution to ensure employees work safely, while making sure that large and small loads can be moved like a child's play.

Increase your picking speed

With our smart electric tugs you:

- Reduce physical strain on employees
- Make sure narrow aisles, large cumbersome items that do not fit on the racks, and heavily loaded pallets are no longer a problem
- Move large and small loads with the greatest ease
- Considerably decrease sickness absenteeism due to strains and injuries

Our tugs are used to

- Collect orders
- Move whole lines of shopping trolleys
- Remove residual waste
- Load and unload containers

Calculate
your price now

Request a
demo now

Customer's
experience





Move your work easier in the waste & facility industry

Optimize waste management

The growing global population drives up demand for food, which results in an increased waste production across all market segments. As a consequence, every market segment has to deal with waste processing. Our smart electric tugs help you optimize your waste management so that the waste is processed as safely and efficiently as possible. And with as little physical exertion as possible on the part of your staff.

Realize profit in time and money

With our smart electric tugs you:

- Reduce physical strain on employees
- Optimize waste management: the waste is processed as safely and efficiently as possible
- Save time and money

Our tugs are used to

- Move waste containers from garages or cellars to the ground floor
- Move whole lines of waste containers
- Load and unload containers safely

Calculate
your price now

Request a
demo now





Lithium LiFePO4 batteries: the perfect match of safety and performance

At Movexx, we have dedicated over a decade of time on research & development, learning, design and product optimization. Our commitment ensures that we consistently deliver safe and innovative technology solutions to our customers. In line with this, we have chosen to use Lithium LiFePO4 batteries to power our smart electric tugs.

Safety

Lithium LiFePO4 batteries are chemically stable, incombustible, and can withstand high temperatures without decomposing. It will never explode or catch fire.

Sustainability

Lithium LiFePO4 batteries have a long life cycle, are rechargeable, and made of nontoxic material. They're safe for both you and the environment.

Long lasting

Lithium LiFePO4 batteries can be connected in parallel without damage, even if they're not fully charged.

Efficiency

Lithium LiFePO4 batteries charge quickly, require no maintenance, and are ready to use with our tugs.

Performance

Lithium LiFePO4 batteries have optimal energy density, good specific energy, and excellent cycling performance.

Battery Management System

The battery of your tug will be protected from deep discharge due to our Battery Management System.





Custom solutions for every challenge

Every sector, every assignment, and every solution is unique. With over fifteen years of experience, we understand the challenges you face. That is why you deserve excellence, either by state-of-the-art standard solutions, which have a fixed price and are shown on our option lists, or by offering a customized service which fits your industry's unique needs. Because you need a tug you can trust. Our innovative approach gives you this trust, supercharges your employee vitality and streamlines logistics like never before.

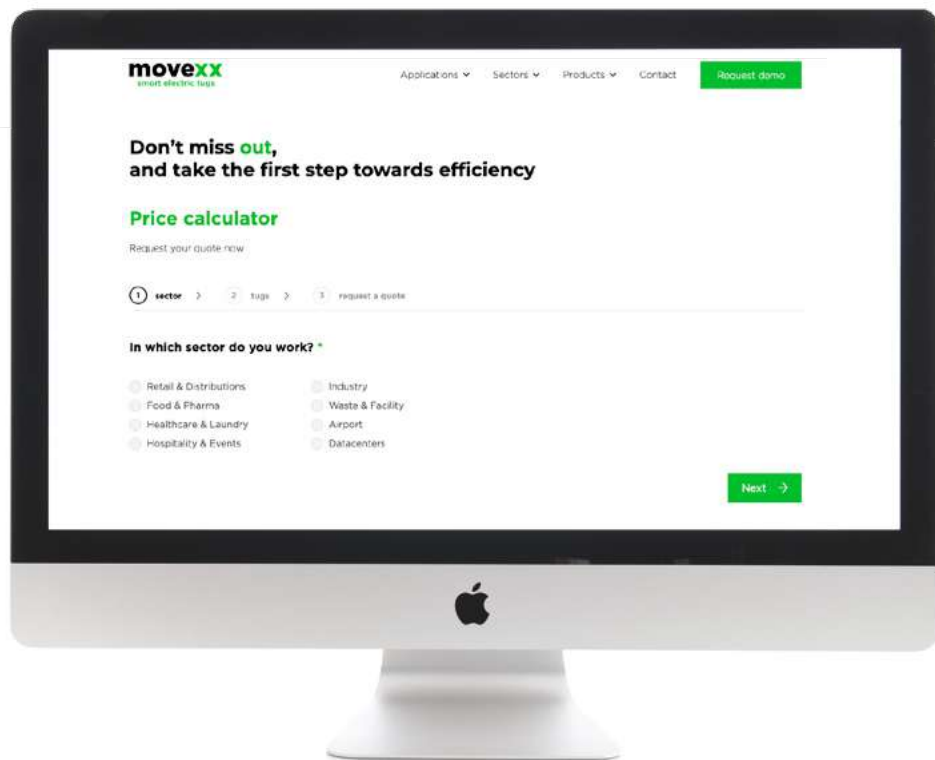
Are you looking for a custom solution? From a simple pin coupling with a slightly different diameter to a completely new electrically operated tug, we've got your back! You only need to contact us and provide the right technical information (dimensions, drawings, photos). Our team of experts from sales and engineering dive into it and will do their best to make sure you're one step away from your dream tug!





Calculate your dream tug

Are you interested in one of our smart electric tugs? Do you want to know what the estimated costs are? Then don't miss out and take the first step towards efficiency. Use the calculator below and the estimated costs of your dream electric tug will be calculated for you!



Calculate your
price now



Experience our endless possibilities by requesting a real-life demo

Want to learn more about our tugs and how they can benefit your business? Our experts will be thrilled to tell you everything about our endless possibilities. Discover the advantages and convenience of our tugs yourself and request a product demonstration. This can happen on-site or in our demo room.

Get one step closer to your dream tug and request your demo now

- Let us know your needs
 - Our experts will recommend the best tug and hooks for your industry
 - We will schedule a real-life demo for you from our demo fleet at your chosen date and time.
1. After the demo, we'll check if you're satisfied
 2. Need the demo tug longer? No problem!
 3. Happy with the tug? Keep it! We'll make a special arrangement
 4. Not the right tug? We'll keep searching until we find the perfect solution for you.



Contact our sales team
for a real-life demo





Movexx makes sure you move your work more easily

In a constantly changing world in which logistical applications are being given an increasingly prominent role within every organization, we offer smart and sustainable solutions for all your horizontal movements. We are the market leader in easy horizontal transport of goods and materials on wheels weighing up to six tons. This is done using our sustainable, efficient, and ergonomic smart electric tugs.

We ensure that people and logistics can perform optimally together in order to increase employee vitality while improving the efficiency of logistics processes at the same time.



Logistic innovators

With over fifteen years of experience, we excel in our field by continuously innovating and by providing a customized service. Every assignment is unique and so too is every solution. We understand the challenges our customers face. We apply our knowledge of logistics processes to keep coming up with creative and workable solutions. Either by offering standard solutions or by providing a customized service.

We remain true to ourselves and follow our own path. Proud of who we are, what we do, and where we come from. We are a typically Dutch manufacturing company with production carried out in-house.





About Movexx

Movexx is more than just a company; it's a family legacy built on innovation and dedication. Founded 15 years ago by Henk van Vlastuin, Movexx started with a vision to transform material handling and logistics through cutting-edge technology. Henk's commitment to improving workplace efficiency and ergonomics laid the foundation for what has become a pioneering enterprise in smart electric tugs.

From an early age, Henk's daughter, Iris van Vlastuin, witnessed the company's evolution firsthand. As she grew up alongside the advancements in smart electric tugs, Iris saw how these innovations were not only enhancing efficiency but also significantly improving the well-being of those who used them.

In 2016, Iris took on the role of CEO, bringing her deep understanding and passion for the company's mission to the forefront. Under her leadership, Movexx continues to focus on optimizing logistical processes, enhancing both efficiency and sustainability. Iris is dedicated to helping organizations create better working environments where both productivity and employee well-being are maximized.

At Movexx, our goal is to ensure that every organization can benefit from the Smart Electric Tug. We believe that our solutions not only boost operational efficiency but also contribute to a more sustainable and healthier workplace for everyone involved.



movexxx
smart electric tugs