

As Tough as They Come

Access Solutions for Con-Ag Machinery



Every day, all day, Rain or Shine

Operating construction or agricultural equipment can be like fighting a heavyweight contender. Your machinery has to be up to the challenge in front of you, and able to take a crunching blow without going down.

Industrilas heavy-duty and vibration-resistant access solutions are skilfully crafted for construction, agricultural and off-highway machinery. This means not only providing protection against the elements, but also being able to endure flying or falling debris.

Industrilas Vector™ latches, handles and rotary systems are designed for all kinds of exterior doors, hatches, battery boxes and storage bays. When you combine them with our hinges and profiles you get a durable and long-lasting solution, for many years to come.

Inside the cab, our ergonomically designed products dependably secure enclosures and eliminate squeaks and rattles otherwise caused by vibrations. In doing so, they ensure a more comfortable work environment for the operators who spend long and demanding hours behind the controls.

Serving the Sector for Decades

Industrilas has been developing and manufacturing access solutions for Con-Ag machinery for over 40 years. All with total control over the production chain, from design and manufacturing to final surface treatments and assembly. Our quality management system is certified according to IATF 16949.

We have a presence in more than 40 countries and have manufacturing sites in Europe, North America, South America and Asia. Our headquarters are located in Nässjö, Sweden.

Industrilas - when access counts

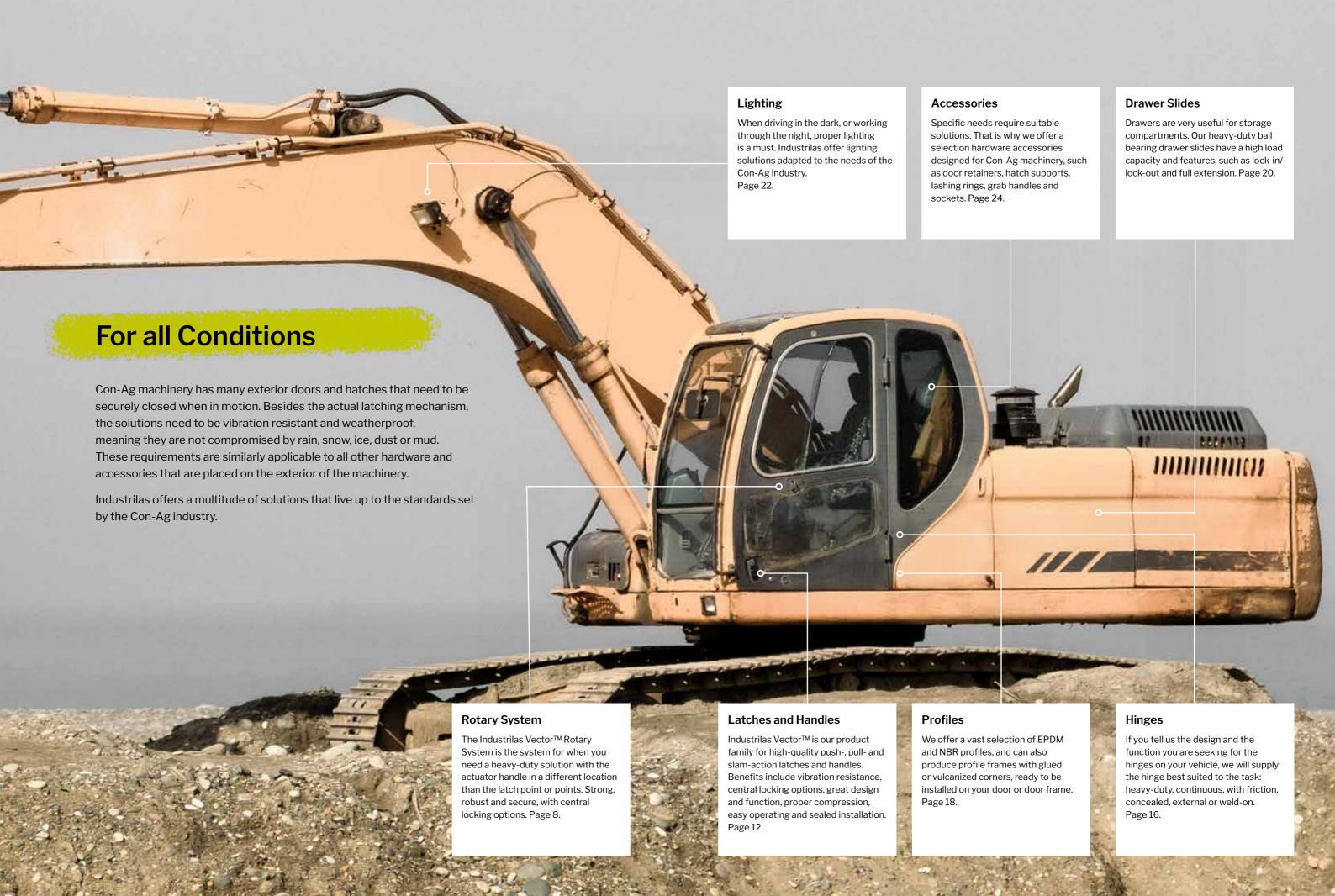


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Industrilas Vector™

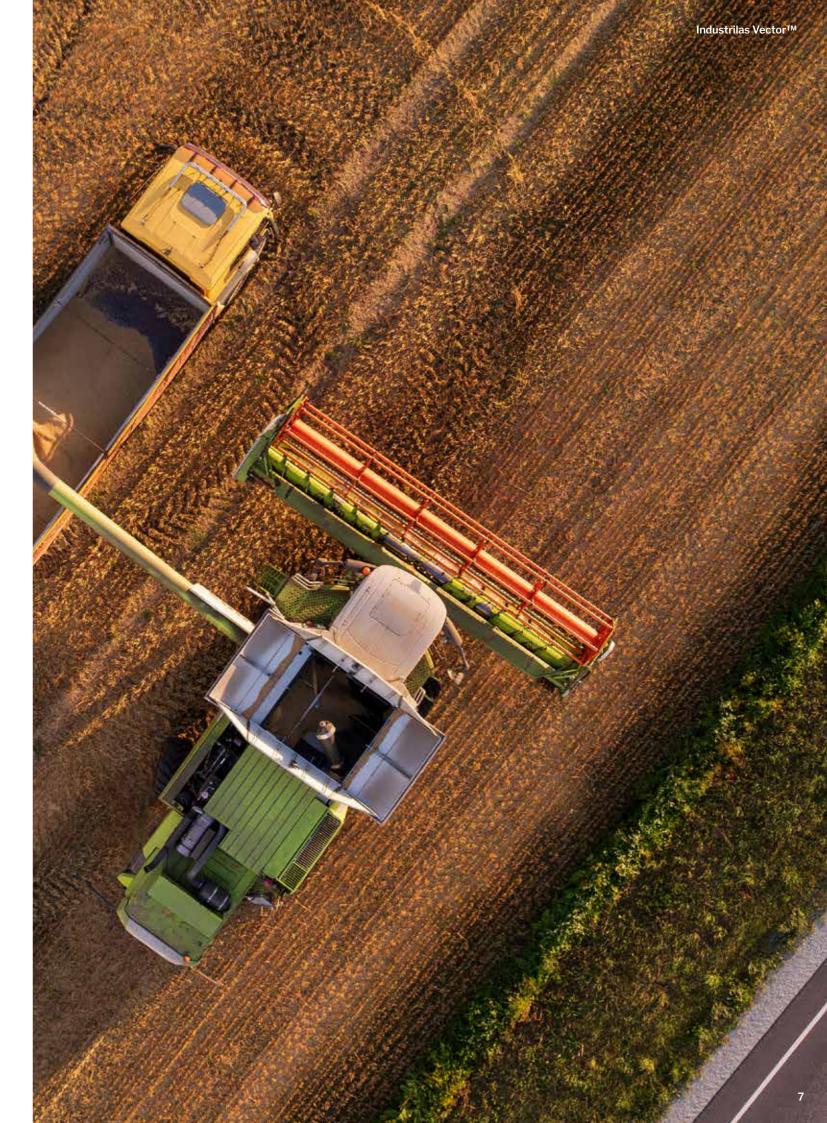
Industrilas Vector™ saw the light of day more than twenty years ago, with the birth of the first Vector T-handle. Since then, it has set the standard for heavyduty access solutions. Today, the family includes:

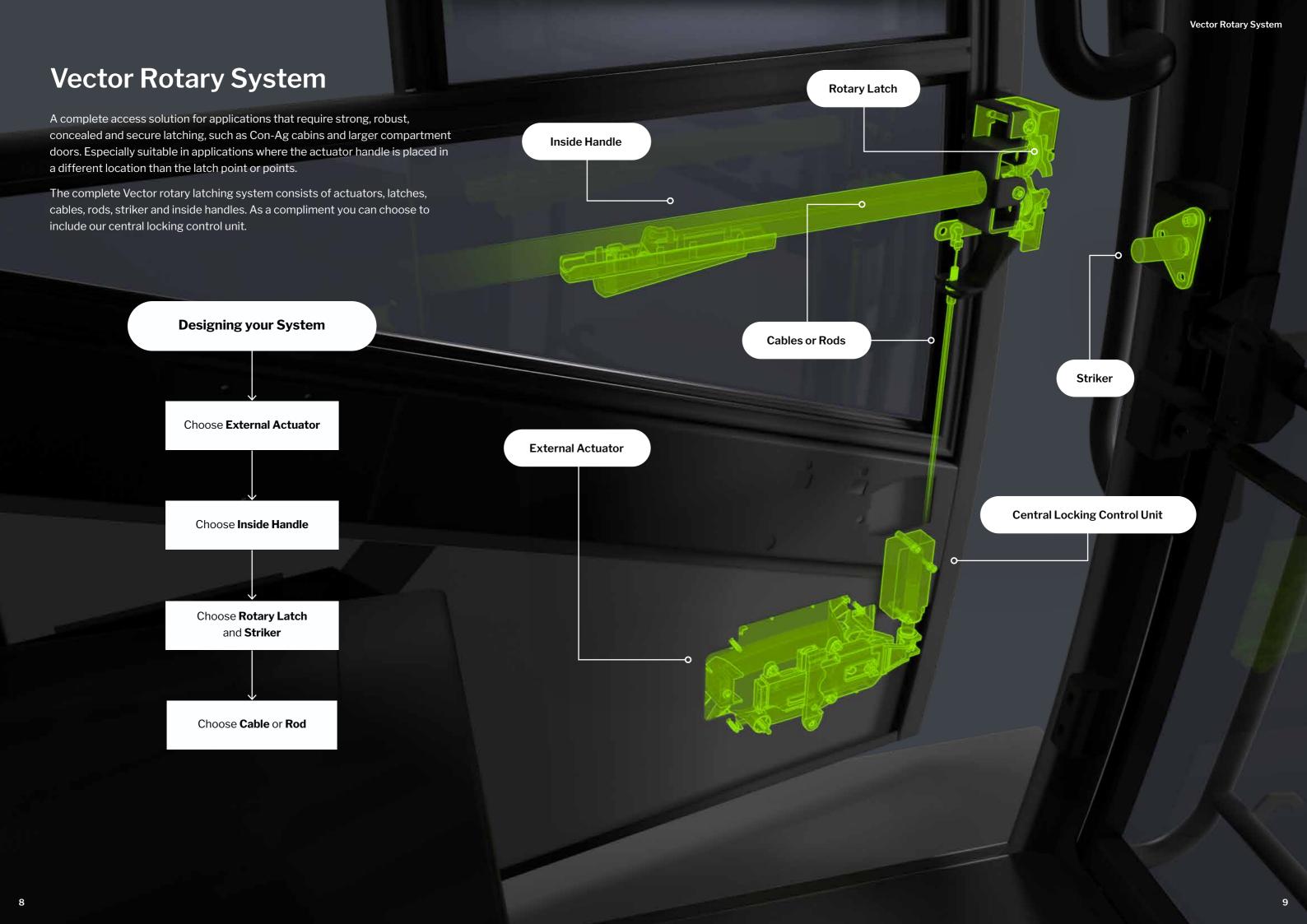
- × Complete rotary system
- × T-handles
- × Slam-action paddle latches
- × Pull handle
- × Push-button handle
- × Flush compression latches
- × Mechanical and central locking options
- × Central locking control unit

Developed in partnership with industry leaders, all Vector products are high-quality, durable and reliable. They are vibration-resistant according to DIN EN 61373 and the gasket compression ensures sealing that keeps water, snow, ice and dirt at bay. Vector latches and handles are stylish and offer exceptional ease of use. They are robust and will not buzz, squeak or rattle – even though they are made from lightweight material. You can combine different latches with the same CH751 cylinders and key codes, making life easier for the end user.

The smart design of Vector hardware makes installation fast and easy, saving time for our customers.







Vector Rotary System Vector Rotary System



Vector Pull Handle

Robust handle to operate doors equipped with Vector Rotary Latches. The freewheeling locking mechanism ensures the latched status of the door in every situation, regardless of how much force is applied to the handle. The latch point can be connected with either Vector cables or rods.

Sealed against water and dust with an O-ring and a moulded TPE gasket. Mounted into the door with the four pre-mounted M5 bolts.



Vector Inside Handle

The vibration-resistant handle is used on the inside of cabins to open a Vector Rotary Latch. Vector Inside Handle can be connected to the rotary latch with either a Vector cable or a 4 mm Vector rod.

It is designed to be mounted in a 25 mm / 1 inch tube and can be supplied either as a separate handle or with a straight metal tube. Vector Inside Handle can be mounted in both directions in the tube.



Vector P Actuator

The Vector P Actuator is a patented heavy-duty, vibration-resistant handle. The handle is used to manoeuvre one or two Vector rotary latches connected with Vector cables.

Available with a left, right or universal grip handle and is installed with a mounting bracket or four mouldedin M5 bolts. Dust-proof and water protected according to IP66.



Vector Heavy-Duty Double Jaw Rotary Latch

This rotary latch is designed for cabin doors, where the double claw allows minor tolerances when catching the striker. This two-stage rotary offers a safety feature that securely latches a partially latched door. The rotary is engineered to offer a minimal trigger release force, ensuring easy and smooth opening. The Vector Double Jaw Rotary offers multiple trigger configurations for easy installation in systems with multiple actuator handles. It is prepared for even further trigger options, that are offered upon request.



Vector Push Button Handle

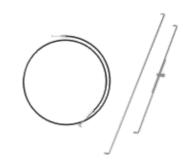
Distinguished by its robust yet ergonomic design, this handle is designed for cabin doors and manufactured with durable materials for tough outdoor environments. It is suitable for installation on both metal and glass doors and is sealed against water and dust.

Available in key-locking and padlockable versions, and can be connected to the rotary latch in three different ways: screw on the inside that pushes the trigger of the rotary latch, bracket for one or two Vector cables, or bracket for one or two 4 mm Vector rods.



Vector Rotary Latches

the rotary latches provide concealed latch points with convenient pushto close action. The five versions all have a low trigger-force ratio and are available with single- or double-stage latching. The latches are available with a TPE bushing that removes the risk of buzz, squeak or rattle.



Vector Cables and Rods

To connect the handles and latch points to one another, you need cables or rods. The cables are equipped with threads for adjustment on both ends, making it easy to adjust on both the latch point and actuator sides. Vector rods have L-shaped end connections that attach easily and securely to the latch points and actuators.









Vector Strikers

The Vector strikers are placed on the inside of the cabinet or door to catch the latch points. The striker bolts are designed to be used with Vector Double Jaw Rotary and are available with UNC 7/16-14 or M12 thread. The optional striker protection ensures that no clothing or other items are caught in the striker.





Industrilas Vector™ T-Handles

Rough weather, vibrations, bumpy roads and construction sites are environments that our Vector T-handles face every day. That is why they are designed to last, with supreme sealing and compression. All Vector T handles are vibration-resistant according to DIN EN 61373 and can be used with fixed or adjustable roller cams, as well as 1-, 2- or 3-point latching options.

If you are looking for a solution with great corrosion resistance, Vector T1 and T3 are available with the body in glass fibre reinforced polyamide (PA6) and handles in stainless steel.

Vector T1 and T3 have the same cutout, making it easy to upgrade current T1 installations to T3 whenever you want a new look, great tactile feedback or central locking.





Vector T3 Central Locking

Vibration-resistant version of Vector T3 for central locking applications. You can choose to have Vector T3 with a feedback function, letting the system know if the handle is locked or unlocked, and if the T-bar is open or closed. Vector T3 is available for both 12- and 24-volt systems and in case of power failure, the latch is equipped with a mechanical override cylinder. Vector T3 handles have supreme tactile feedback, and the touch and feel are what makes this design really stand out from the crowd. The tray is available in glass fibre reinforced polyamide or zinc. If you choose zinc, the surface can be either chrome plated or black texture powder coated. Handles are available in zinc or stainless steel. The handle can be used with fixed or adjustable roller cams, as well as 1-, 2- and 3-point latching options. The handle has a 4 mm compression and is dustproof and water-protected according to IP65. Four blind-mount studs and a PUR gasket ensure waterproof assembly. Vector T3 has the same cutout as Vector T1, making it easy to upgrade current T1 installations.



Vector T1 Handle

The original Vector T1 is a flush handle with 4 mm compression. It features two locking systems: key-locked and padlockable. For use in commercial vehicles, the handle has a PUR gasket and bolts moulded into the dish, for mounting with nuts on the inside. Vector T1 can be used with fixed or adjustable roller cams, as well as 1-, 2- and 3-point latching options. The handle is available in zinc or stainless steel and there are five different cam versions. Delivered with a cylinder dust cover. Dustproof and water-protected according to IP65.



Vector T3 Handle

Vector T3 handles have supreme tactile feedback, and the touch and feel are what makes this design really stand out from the crowd. The tray is available in glass fibre reinforced polyamide or zinc. If you choose zinc, the surface can be either chrome plated or black texture powder coated. Handles are available in zinc or stainless steel. The handle can be used with fixed or adjustable roller cams, as well as 1-, 2- and 3-point latching options. The handle has a 4 mm compression and is dustproof and water-protected according to IP65. Four blind-mount studs and a PUR gasket ensure waterproof assembly. Vector T3 has the same cutout as Vector T1, making it easy to upgrade current T1 installations.



Vector T2 Handle

Vector T2 can be mounted on all kinds of surfaces and still keep the latch sealed to the elements. This makes it the preferred choice for toolboxes with different kinds of metal, including diamond tread aluminium. The handle can be used with fixed or adjustable roller cams, as well as 1-, 2- and 3-point latching options Vector T2 is fast and easy to install with a mounting bracket. It is available with a defeater function - a springloaded tool operated insert to prevent accidental opening. Delivered with a keyed-alike cylinder and stainless-steel dust shutter. Vector T2 has a PUR gasket and is dust-proof and water-protected according to IP65.

Industrilas Vector™ Latches

Con-Ag machinery doors and hatches are often closed by slamming them shut. In the Vector family there are several handles and latches that are suited for this, like the Vector P series. And if you are in need of a non-slam latch with superior compression and easy installation – Vector Flush Compression Latch is the choice. It is available in a central locking version and is overall a joy to operate. The smart choices of material used in these solutions make them lighter and more cost effective compared to traditional stainless steel versions.

All Vector handles and latches are vibration-resistant according to DIN EN 61373.



Vector Flush Compression Latch Central Locking

Vibration-resistant flush mounted compression latch for central locking applications, in both 12V and 24V systems. The unlock and lock signals are sent from the vehicle's system. Available in versions with feedback if the handle is unlocked or locked. The latch is sealed against water and dust, the adjustable grip range is 11–61 mm and it is suitable for door thickness up to 7 mm.

Delivered with mounting bracket for quick and easy assembling. PUR-gasket and O-rings ensure IP66 water and dust protection. For the most demanding conditions, we offer a dust cover for the whole latch. Both Vector compression latches have the same cutout.





Vector P Hooked Cam

This patented heavy-duty paddle latch is available with a left, right or universal grip handle. The latching mechanism securely latches the cam behind the striker and the more force that is placed on the cam, the harder it will engage the striker.

Vector P Hooked Cam is available with an inside release safety feature. This enables the latch to be opened from the inside even when it is locked. Installed with a mounting bracket or four moulded-in bolts. Dust-proof and water-protected according to IP66.

Vector Flush Compression Latch

This vibration-resistant flush compression latch has an adjustable grip range of 11–61 mm and is suitable for door thicknesses up to 7 mm. The installation is quick and easy with an inside mounting bracket. Available with keyed-to-differ or keyed-alike cylinders.

The PUR gasket and 0-rings ensure dust-proofing and water protection according to IP66. For the most demanding conditions, we offer a dust cover for the whole latch. Both Vector compression latches have the same cutout.



Vector P Rotary Latch

A patented heavy-duty, vibrationresistant solution designed for onand off-road vehicles. The latching mechanism engages the striker in two steps, providing the extra safety needed. When closed, the latch can withstand a pull force of 225 kg. Equipped with emergency inside release, powder coated in red.

Available with a left, right or universal grip handle and is installed with a mounting bracket or four moulded-in bolts. Dust-proof and water-protected according to IP66.



Control Units

Most often, a vehicle or work truck has many hatches that need their own latches. To make installation and operation easier, you can connect the latches to a separate control unit, that handles input and output signals.



Industrilas Vector™ Control Unit

Control unit to operate 12V or 24V central locking systems. It has two 30A outputs and one 10A output. This enables the possibility to operate a lot of latches and to group them as separate zones. If you connect the control unit to the vehicle's own central locking system, all latches can be operated with the vehicle's original key fob. If you want separate key fobs, Vector Control Unit can be delivered with its own.

When you connect the control unit to the vehicle's information system, it can send signals and tell you if a handle or latch is open or closed, locked or unlocked.



Control Unit 12V

Control unit with two remote key fobs to operate 12V central locking systems. It has an output signal of 30A, making it possible to manage many Vector central locking handles or latches (12V).

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Hinges

Industrilas offers a wide variety of hinges for the Con-Ag sector, with many in stainless steel. Depending on your needs, you can choose hinges that are shock and vibration tested, or simpler ones that are not. We also offer a multitude of hinges for applications that require a lesser amount of strength.

We have a vast experience of designing and manufacturing customized articulating and special hinges. So, if your application has specific needs and requirements, do not hesitate to contact us.



Concealed Hinges

Concealed hinges are most often chosen for functional or aesthetic reasons. The hinge is placed on the inside of the door and frame and you need to open the door to have access to it.



Continuous Hinges

When you need a very stable solution, using a continuous hinge along the door is probably the best choice. They are available in different materials and for both welding and screwing.



Friction Hinges

Friction hinges are used when you need a door or hatch to stay in the open position. They work for both horizontally and vertically opened doors and are available with pre-set and adjustable torque.



External Hinges

There are a multitude of versions of external hinges, from the traditional and fixed type to more advanced applications that are adjustable in three directions. They can be mounted both flat and at an angle and are available in several materials.



Heavy Duty Hinges

Heavy-duty hinges are used for applications where you need a hinge that can withstand heavy loads, such as on commercial vehicles.



Weld-On Hinges

Weld-on hinges are common for heavy applications. They come in a variety of materials and with or without a grease nipple. Ball bearing accessories are also available.

Profiles

Choosing the right profile is vital for achieving correct sealing and compression. Profiles are available in many different shapes, sizes and materials, and we guarantee that we have one that lives up to your needs and requirements. If requested, we can cut profiles in fixed lengths to fit your applications. We can also offer profile frames with glued or vulcanized corners, ready to install on your door or door frame.

To improve sealing qualities even further, profiles can be delivered with injected butyl foam. A slip-coat treatment that reduces friction also extends the life of the profile.

All Industrilas EPDM clip-on profiles are certified according to UL94HB. And if needed, we can provide profiles in materials with even higher fire resistance classifications. Our self-adhesive EPDM profiles have very good weather, chemical and ozone resistance and withstand -40°C to +100°C.

Profile Material

- × Ethylene-Propylene Diene Monomer (EPDM)
- × Natural rubber (NR)
- × Nitrile rubber (NBR)
- × Polychloroprene (CR)-40°C to +100°C

Profile Solution

- × Sealing profiles
- × Edge-protection profiles
- × Glazing profiles
- × Self-adhesive gasket profiles.





Drawer Slides

Our range of high-precision, heavy-duty ball bearing drawer slides are well suited for daily use in Con-Ag machinery battery boxes and compartments. They are available in different lengths and material, have a high load capacity and offer features such as lock-in/lock-out, full extension and over-extension.

You can choose between features such as soft closing, self-closing, push-to-open and locking. Mounting options include studs, customized holes, L-brackets and bayonet fittings for easy assembly.

The standard assortment includes both medium and heavy-duty drawer slides.





Drawer Slide 3-Part 36 mm

3-part full-extension drawer slides with 35 kg load capacity. The extended part is 100% of the compressed length of the drawer slide.



Drawer Slide 3-Part With Soft Closing 45 mm

3-part full-extension drawer slides with 40 kg load capacity. The extended part is 100% of the compressed length of the drawer slide.



Drawer Slide 3-Part 45 mm Stainless Steel

3-part full-extension drawer slides with 45 kg load capacity. The extended part is 100% of the compressed length of the drawer slide.



Drawer Slide 3-Part 46 mm

3-part full-extension drawer slides with 60 kg load capacity. The extended part is 100% of the compressed length of the drawer slide.



Drawer Slide 3-Part 76 mm

3-part full-extension drawer slides with 300 kg load capacity. The extended part is 100% of the compressed length of the drawer slide.



Drawer Slide 3-Part Lock-In/Lock-Out 76 mm

3-part full-extension drawer slides with 300 kg load capacity. The extended part is 100% of the compressed length of the drawer slide.



Drawer Slide 3-Part 75 mm

3-part full-extension drawer slides with 350 kg load capacity. The extended part is 100% of the compressed length of the drawer slide. The outer member is manufactured in cold-rolled steel, the middle and inner members are manufactured in colddrawn steel in one piece.

Drawer Slide 4-Part 75 mm

4-part over-extension drawer slides with 200 kg load capacity. The extended part is 150% of the compressed length of the drawer slide. The outer member is manufactured in cold-rolled steel, the middle and inner members are manufactured in colddrawn steel in one piece.



Con-Ag Machinery Lighting

Industrilas offers specialized lighting for a variety of Con-Ag machinery and commercial vehicles.

For example, exterior work lamps for night jobs or bad weather conditions, and strobes & lightbars that alert people of machinery in working.

Industrilas lighting products include:

- × Beacons
- × Work lamps
- × Strobes
- × External vehicle lighting
- × Interior Lights
- × Light bars
- × Mini bars

If you have specific requests or needs for lighting, please contact us. We are sure we can find solutions that suit you.















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Con-Ag Machinery Accessories

Con-Ag machinery and off-highway vehicles often need extra solutions for specific purposes. In our range of accessories, we offer products for some of those purposes. For instance, glass-top roof hatches are designed for livestock transportation, motorhomes, caravans and buses. Lashing rings are a must for cargo areas, equestrian transports, protection nets and work trucks. And grab handles are a great help when entering and exiting large vehicles.





Lashing Rings

The large yellow lashing ring is heavy duty, able to restrain a 12-ton tensile load. The cleat and lashing ring are separate parts, and the cleat is available for both bolt-on and weld-on mounts. Made of galvanized steel, the cleats and lashing ring are weather resistant.

The smaller lashing ring is made from stainless steel with a black plastic base plate. Easy fixing with a simple and sturdy design.



Roof Hatch

This stylish roof hatch comes in two sizes, both available with manual or electric operation. The glass dome is homologated to ECE 43R and the roof hatch to EC 2004/104. Supplied with high-quality gaskets, dark-tinted glass, a break-glass hammer and pre-drilled mounting holes in the outside frame. The internal frame is designed for easy mounting into the outside frame. The larger version of the hatch is certified as an escape hatch, according to EU regulations.



Grab Handles

Our grab handles come in a range of sizes and materials. The sturdier type has a 10 mm steel core that adds strength and is available in black or yellow. The straight grab handle is produced in black plastic.



Access Hatch

The access hatch inspection cover is available in black and white. The cover screws into place to provide a secure watertight fit.



Sockets

Charging is always important and we offer two versions of this 12V Twin USB Port. The first has a single blue LED light to signal that the port is on, while the other has a surrounding plate that glows blue.





Door Retainer

Door retainers and hatch supports prevent doors from moving when they are open.

The metal door retainer has three parts. The retainer hook is manufactured from corrosion-resistant stainless steel and made up of a plate, hook and plastic housing. The surface-mounted catch plate is a metal plate with a plastic housing. Finally, the retainer T-hook is supplied with an internal spring, to hold the hook firmly in place when not in use.

The high-powered magnetic door retainer is designed for composite doors, motorhomes, generator doors, access panels and enclosures. Simple to fit and with the stainless-steel internal compression spring, you get strong magnetic retention between door and panel.

The rubber door retainer has a steel base and comes as a set with the male pin and female socket.



External Alarm

a talking alarm for left turn, right turn and reversing, with other messages available. Voltage 10–30 and decibel level 97.

Delivering Access Excellence

At Industrilas, we have every step in the production chain in-house, from design and the casting of metal - to the finishing touches. This gives customers a direct, hands-on connection to the actual development of their access solutions. Industrilas manufacturing includes:

- × Design and Construction Department
- × Mechatronic R&D
- × Supply and purchasing
- × Quality Department
- × Tool Department
- × Turning
- × Zinc Foundry
- × Injection Moulding and PUR Gasketing
- × Punching and Bending
- × Drilling and Threading
- × Powder Coating
- × Assembly
- × Warehouse

Industrilas in Brief

- × Founded in 1981
- × Application experts
- × 4,500+ active customers
- × Delivering to 72 countries on 6 continents
- × Manufacturing on 4 continents
- × In-house R&D and Design Department

Standards are Important

To be seen as the most trustworthy partner in the business, year after year, we need to be reliable and genuine. To ensure continuity, our processes must meet quality standards, sustainability regulations and industry demands.

Industrilas holds an AAA rating, we follow the REACH and RoHS directives, and our quality management systems are certified to IATF 16949, ISO 9001 and ISO 14001.













A More Sustainable Tomorrow

To lead by example, it is not enough to follow international standards and laws on sustainability. We have to improve every part of our business, from raw materials and production processes to energy sourcing and transport.

Industrilas has always challenged tradition and explored new ideas. The same approach will lead us to find sustainable solutions that will change the way people look at our industry. Solutions that will benefit us, our customers and the world.

One step at a time, every day, towards a more sustainable tomorrow.

Sustainability Policy*

Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

- × Environmental: We are aware of our responsibility towards people and nature, and we aim to reduce consumption of natural resources, reduce production and process waste, and increase our share of renewable energy.
- × Social: All humans are equal and have the same value and rights. Industrilas has an absolute zero-tolerance policy towards all forms of discrimination.
- × Economic: Industrilas shall provide the conditions to ensure long-lasting sustainable development, prosperity for the company and value for our customers.

Climate-Effective Zinc

Industrilas has switched to climate-effective zinc. This zinc is produced entirely with renewable energy and reduces emissions from zinc production by 43%. Through this, Industrilas reduces its emissions from purchased zinc by the same amount, 43 %. The climate-smart zinc is exactly the same alloy as before and can be used directly in Industrilas' production, without any needed adjustments.

Emission Data For Products

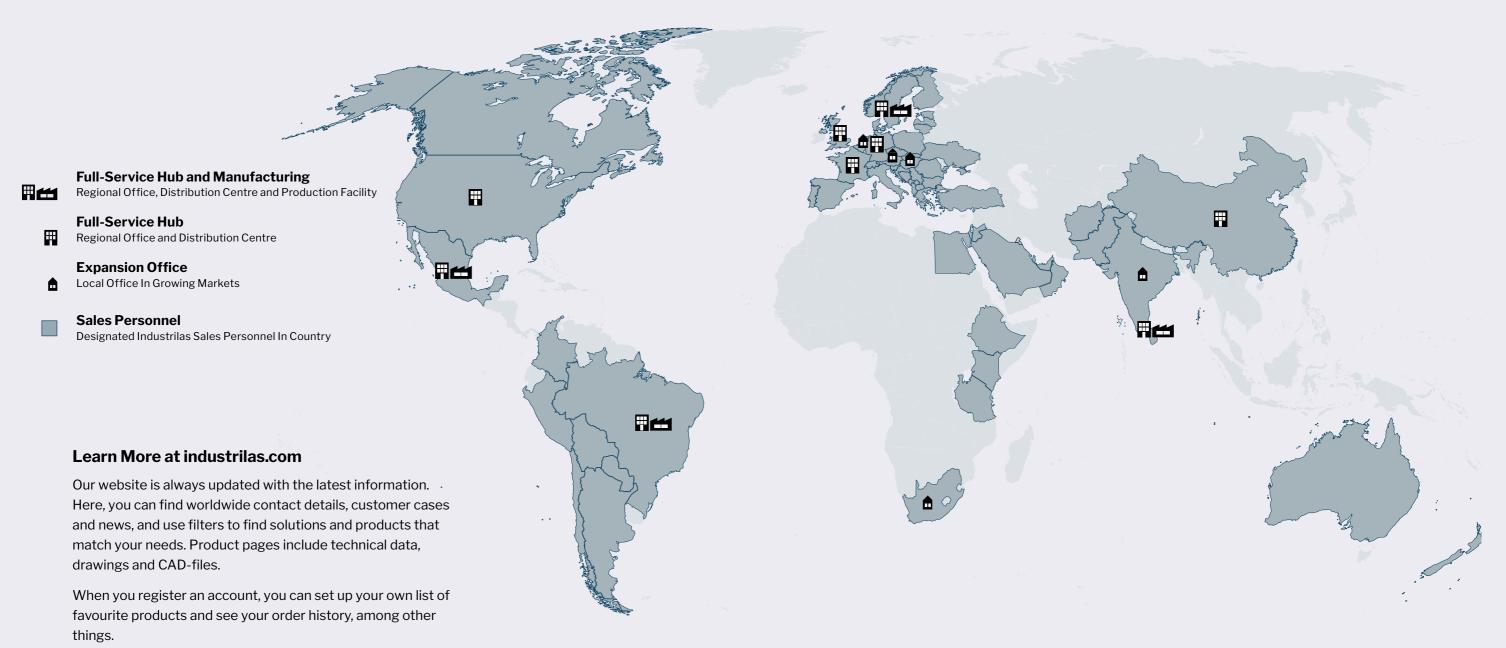
We can now supply emission data for products. Presently, the calculations and Life Cycle Assessments are available for products produced at our largest manufacturing site in Nässjö, Sweden. In the future we will expand the data to include all our manufactured products, at all our sites.

*This is an excerpt from Industrilas' Sustainability Policy.
The complete version is available at industrilas.com.

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Worldwide Presence

Industrilas is constantly growing before and to service the world; strategic manufacturing, sustainable logistics and local presence are vital.



The website is currently available in seven languages.

Follow us on Social Media

Industrilas is very active in social media where we share and discuss company news and events, customer accomplishments, industry highlights and innovations. Follow us on LinkedIn and Facebook and join the community. Today, we are represented in more than 40 countries and have manufacturing facilities on four continents: Europe, North America, South America and Asia. We have nine full-service hubs with distribution centres: Brazil, China, France, Germany, Great Britain, Mexico, Sri Lanka, Sweden, and USA. Our latest expansion offices were opened in Austria, Benelux, Hungary, India and South Africa.

When Access Counts

Industrilas develops, designs and manufactures access solutions for all kinds of industrial applications. Our main drive is a never-ending curiosity about our customers and their business. We are passionate about finding solutions that will enhance the performance of our customers' products and their business.

Since every customer has specific needs and preferences, it is important for us to get to know our customers. We openly welcome you into the Industrilas family, and together we will find the best possible solution to the challenges you are facing. Sometimes this means a well-proven standard solution and at other times it means the innovation of something the world has never seen.

Industrilas is a Swedish company, founded in 1981. Over the course of 40 years, we have grown from a one-person startup to become one of the world's leading suppliers of access solutions. Today, we are present in more than 40 countries and have manufacturing sites in Europe, North America, South America and Asia.

The group's head office is in Nässjö, Sweden.

