

## The Value of Trust Way Beyond Products





| GLOBAL + LEADING + EXPERTS » TRUST |







# TRUST

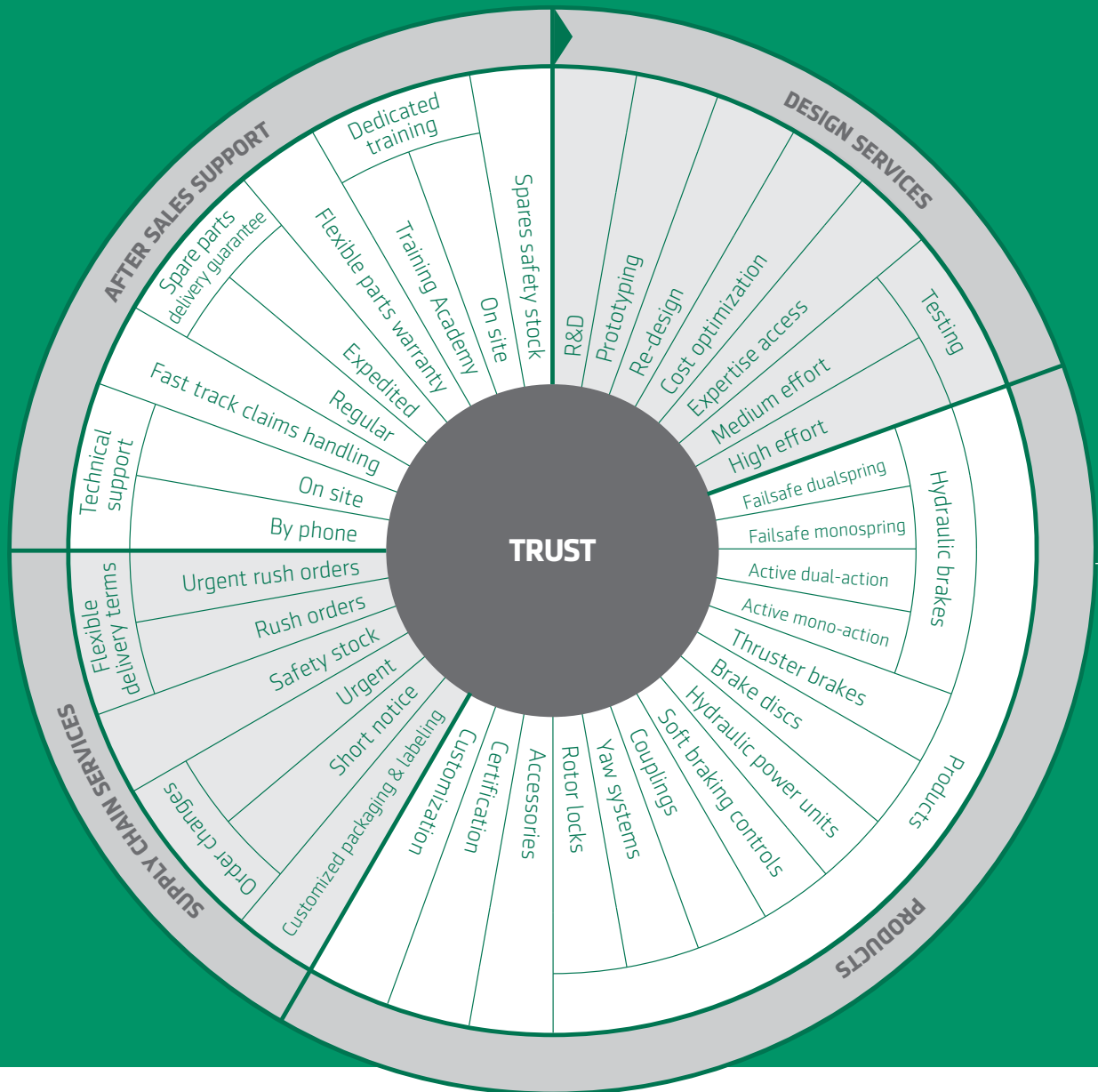
*Reliable solutions, ultimate uptime and zero problems. We know you can't afford to fail. So we won't.*

Actually, trust is our primary commodity. When you choose products, solutions and services from the Global Leading Experts in intelligent braking solutions, trust is what you buy. Our global mindset and vision combined with our market-leading position and decades of accumulated expertise all add up to this one, decisive word. Trust us, and you can rely on your operation.

## THE PREFERRED AND TRUSTED PROVIDER

Svendborg Brakes creates high growth for all our customers by innovating, testing and delivering world-class braking solutions. We are value-driven and customer-focused, and we continuously strive for superior and unmatched quality in design, products, testing, certification and services. This makes us Global Leading Experts and the preferred and trusted designer and supplier in the field of intelligent braking solutions to the world's renewable energy and heavy industries.





### THE WHEEL

The Wheel illustrates Svendborg Brakes' value and business model. Trust is the overt centre around which all of our solutions and services revolve. The rim constitutes the braking solution, which is the core of our business, and the boundary within which our solutions and services are designed, developed and delivered.

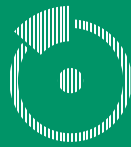
Once you claim to be Global Leading Experts in your field, you must come full circle. Svendborg Brakes does just that in the field of intelligent braking solutions and services to renewable energy and heavy industries. The Wheel illustrates this very clearly

by singling out every area of expertise throughout the entire process and making it all come together – from design services and products to supply chain and after sales support. This is why some of the world's most demanding operations trust us to deliver reliable solutions and services.

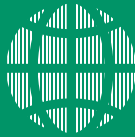
**DESIGN SERVICES** is the starting point of The Wheel, ensuring that your braking solution is just right for your specific operation.



**PRODUCTS** covers our wide range of different solutions for your operation. Our extensive testing is second to none and your primary guarantee for top quality.



**SUPPLY CHAIN SERVICES** allows us to meet your needs no matter what they are – and no matter where you are.



**AFTER SALES SUPPORT** is your guarantee that we will never let your operation out of mind or sight. With us you do not just buy a product. You also buy training and services that keep it working.



## OUR WAY – OUR STRATEGY

### AMBITION – WHAT WE WANT

To create high growth and value by being the preferred and trusted provider of braking solutions and services.

### POSITION – WHAT WE OFFER

Global Leading Experts on braking solutions offering superior quality, unmatched design and world-class after sales support.

### EXPERTISE – WHAT WE DO

We innovate and deliver market-leading braking solutions in terms of design, products, testing, certification, logistics and services.

### VALUES – WHO WE ARE

Customer-focused, value-driven, team and partner oriented, trusting, respectful and dedicated to mutual success.



# GLOBAL

*Our global mindset enables us to serve every customer, everywhere.*



No matter how challenging your operation, and no matter how remote your location, Svendborg Brakes will be there. Our global mindset and vision enable us to deliver our market-leading solutions and services across branches and borders alike. In other words, we are able to serve you and service your operation no matter when and where. We are global because you are.

## GLOBAL KNOWLEDGE

From the conveyor belt at a remote Peruvian mining site to the world's largest power station at the Three Gorges Dam in China. We know the conditions and we acknowledge the challenges that these specific conditions provide for you and your operation.

Consequently, we are able to deliver exactly the right solution every time. Because our operation is as global as yours.

## GLOBAL PRESENCE

With manufacturing facilities in Denmark and China, as well as offices in Australia, Chile, Denmark, China, Poland, Spain, Korea, India, South Africa, the Czech Republic, Germany, and the United States, we are always close to our customers. This honours our commitment to success for both our customers and ourselves – across industries and borders.





*The Three Gorges Dam is a hydroelectric dam that spans the Yangtze River by the town of Sandouping in China. The dam is the world's largest power station in terms of installed capacity (20,300 MW).*



*The dam's ship lift will shorten the time taken for ships to pass the dam from three hours to one. Svendborg Brakes became the chosen provider of among others 32 brakes acting as parking brakes, respectively security brakes for the electrical drive.*





# LEADING

*We strive to be market leaders in our field, so you can be the same in yours.*

Svendborg Brakes is a value-driven company. Every solution, every service and every interaction with us must add value to your operation. We are committed to persistent innovation, improvement and unmatched quality in order to remain market leaders. That is why working with us ensures you the ability to stay ahead in your field of competition, as we have done in ours for decades.

## VALUE INNOVATION

When doing business with the market leader in intelligent braking solutions, customers have every right to expect nothing but the best. We do everything possible to live up to these expectations, innovating

and improving solutions in accordance with your specific needs. Your value is our driver.

## TESTING AND CERTIFICATION

In accordance with our ambition, our brakes are the most tested and the most widely certified in the world. We have a strong tradition for Research and Development (R&D) investments and an invaluable accumulated know-how. Our dedication to innovation is constantly nurtured. It is the very core of our company, and the cutting edge for yours.





*Conveyors are efficient in industrial mines and metallurgical plants. But like other heavy equipment, they pose hazards to employees and to the safety of the equipment, as the operation is mostly unmanned due to its distance, terrain and profile. Therefore, it is imperative to develop an intelligent soft braking system to address the starting and stopping requirements under various load conditions.*

*The Damanjodi Downhill Conveyor is the longest one in Asia. The challenge of stopping the more than 25 year old conveyor in running condition has been met by installing a new Svendborg Brakes disc brake solution with an intelligent programmable soft braking module for service and emergency braking needs.*







# EXPERTS

*Our commitment to reliable solutions grants you expert design, testing and services.*

Svendborg Brakes is a company of experts. Decades of R&D investments and the extensive accumulated know-how of our employees make us experts in our field. Thus we can credibly assist you in your efforts to achieve the same status in your field of operation.

#### FOCUSED DEDICATION

This dedication to excellence requires a constant search for talents with superior qualifications in their field, while simultaneously nurturing the capable employees that are already a part of the company. Such focus on R&D investments has helped keep Svendborg Brakes ahead in the business – even in tough times.

Furthermore, it makes for a nourishing diversity within the work force, which counts people from a wide variety of countries, cultures and educational backgrounds. As a customer you will benefit from having direct access to the diverse expertise of our employees and of the company as a whole.

#### RELIABILITY THROUGH DESIGN SERVICES

Compromise is not in our creed. We are relentless in designing and testing the quality of our products and solutions to the extreme, knowing that the uptime of your operation depends





*At Middelgrunden off the coast of the Danish capital, Copenhagen, 20 wind turbines are installed in a slight curve with 180 meters distance and a total length of 3.4 kilometers. The total area is about 1 hectare. The 20 x 2MW wind turbines at the off-shore wind park are equipped with 3 x BSFH 330 Monospring brakes with Sintermetal brake pads supplied by Svendborg Brakes. The 2MW turbine is a stall-regulated machine with a rotor diameter of 76 meters.*



on it. Our design services include extensive R&D, prototyping, redesign and testing at both our production facilities and at customers' sites around the world.

#### **EXPERTISE BEYOND SALE AND DELIVERY**

Our expertise will not let you down. Once you have purchased our solution and implemented it in your operation the expertise of our unique after sales support will be there for you. This commitment to good and reliable service is worth far more than compromising on prices and quality. After sales support include technical support either on site or by phone, spare parts delivery guarantee and dedicated training both on site and at Svendborg

Brakes' facilities. Actual training academies have been set up in both Denmark and the Czech Republic in order for us to properly train the employees of our customers.



# AGILE

*We are the leading provider  
of intelligent braking solutions  
across borders and industries.*

Because we run an agile operation we can be genuinely value-driven. Driven by what adds value to your operation and to the further development of Svendborg Brakes. This allows us to remain the preferred and trusted provider of intelligent braking solutions and services to renewable energy and heavy industries around the globe.

## AGILITY ADDS VALUE

Our agility adds value to your business and operation by enabling us to adapt to your demands and to the conditions in which you operate. Agility is our ability to meet your needs for

reliable solutions and sustainable services anywhere, anytime. We strive to make your challenges our own. This turns relationships with customers into partnerships.

This agility becomes even more valuable to our customers because it enables us to actively lead the entire process from designing, producing and testing your solution to delivering and servicing it. Our agility shines through in both mindset and action, ensuring our customers state of the art, minimal-maintenance, reliable solutions for even the most remote locations and the harshest conditions.



#### ACROSS BORDERS AND INDUSTRIES

The Svendborg Brakes product range includes hydraulic brakes and power units, soft braking controls and couplings. We strive to be the preferred provider of these products and solutions to industries within the fields of e.g. renewable energy, mining, maritime and cranes.

Although diverse and agile, our focus remains the same: Delivering reliable solutions that grant our customers optimal uptime and zero problems.





# PRODUCTS

*Proven and applied technology that you can trust anywhere.*

The entire Svendborg Brakes product range is designed, tested and engineered based on decades of experience. The product you buy is a product you can trust. Your operation allows no margin for error and no time for failure. That is why you need proven, applied technology at its very best, and that is exactly what we offer you. Our products are engineered to last for decades – and we have built in decades of know-how to make sure that they will.

## **WE KNOW YOU**

Your primary advantage in purchasing products from Svendborg Brakes however, might not even be the proven quality and

durability of the product itself. Our experience is what really sets our solutions apart. Due to our decades of accumulated know-how and experience within wind and other heavy industry operations in even remote and harsh conditions, we know you! That is to say, we know what you need, and our complete solutions can be individually customized and certified.

## **NOTHING MORE – NOTHING LESS**

We have an extensive knowledge of wind turbines, both on- and offshore, and of other heavy industry operations such as mining, cranes and marine installations. Chances are, we know



*All Svendborg Brakes products are engineered and constructed with:*

- *Fewest possible moving parts for very low maintenance*
- *Good torque control and stability for controlled and effective braking*
- *High heat capacity to cope with very heavy braking loads*
- *Fast reaction time which is vital in case of an emergency*
- *Compact size for easy installation even in existing facilities*
- *Extensive testing and proper certification for all types of operations and conditions.*



your operation. This allows us to deliver and install exactly the right braking solution and to train you and service it accordingly, making sure that it will last for as long as possible and always be 100 % fail-safe.

Our products are designed and engineered to make your operation safer and to work even if everything else fails. Time and testing have proven that our products and solutions do just that. Work! In any environment, at any facility, anywhere.

*The Svendborg Brakes product range includes:*

- *Hydraulic brakes with clamping forces from 500 N to 1,150,000 N*
- *Thruster brakes*
- *Hydraulic power units*
- *Soft braking controls*
- *Couplings*
- *Yaw systems*
- *Rotor locks*



## Svendborg Brakes Facilities

### Europe

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*Industrial Brakes and  
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## The Brands of Altra Motion

### Couplings

**Ameridrives**  
www.ameridrives.com

**Bibby Turboflex**  
www.bibbyturboflex.com

**Guardian Couplings**  
www.guardiancouplings.com

**Huco**  
www.huco.com

**Lamiflex Couplings**  
www.lamiflexcouplings.com

**Stromag**  
www.stromag.com

**TB Wood's**  
www.tbwoods.com

### Linear Systems

**Thomson**  
www.thomsonlinear.com

### Geared Cam Limit Switches

**Stromag**  
www.stromag.com

### Engineered Bearing Assemblies

**Kilian**  
www.kilianbearings.com

### Electric Clutches & Brakes

**Matrix**  
www.matrix-international.com

**Stromag**  
www.stromag.com

**Warner Electric**  
www.warnerelectric.com

### Belted Drives

**TB Wood's**  
www.tbwoods.com

### Heavy Duty Clutches & Brakes

**Twiflex**  
www.twiflex.com

**Stromag**  
www.stromag.com

**Svendborg Brakes**  
www.svendborg-brakes.com

**Wichita Clutch**  
www.wichitaclutch.com

### Gearing & Specialty Components

**Bauer Gear Motor**  
www.bauergears.com

**Boston Gear**  
www.bostongear.com

**Delevan**  
www.delevan.com

**Delroyd Worm Gear**  
www.delroyd.com

**Nuttall Gear**  
www.nuttallgear.com

### Engine Braking Systems

**Jacobs Vehicle Systems**  
www.jacobsvehiclesystems.com

### Precision Motors & Automation

**Kollmorgen**  
www.kollmorgen.com

### Miniature Motors

**Portescap**  
www.portescap.com

### Overrunning Clutches

**Formsprag Clutch**  
www.formsprag.com

**Marland Clutch**  
www.marland.com

**Stieber**  
www.stieberclutch.com

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