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# BRAKING SOLUTIONS UPDATE

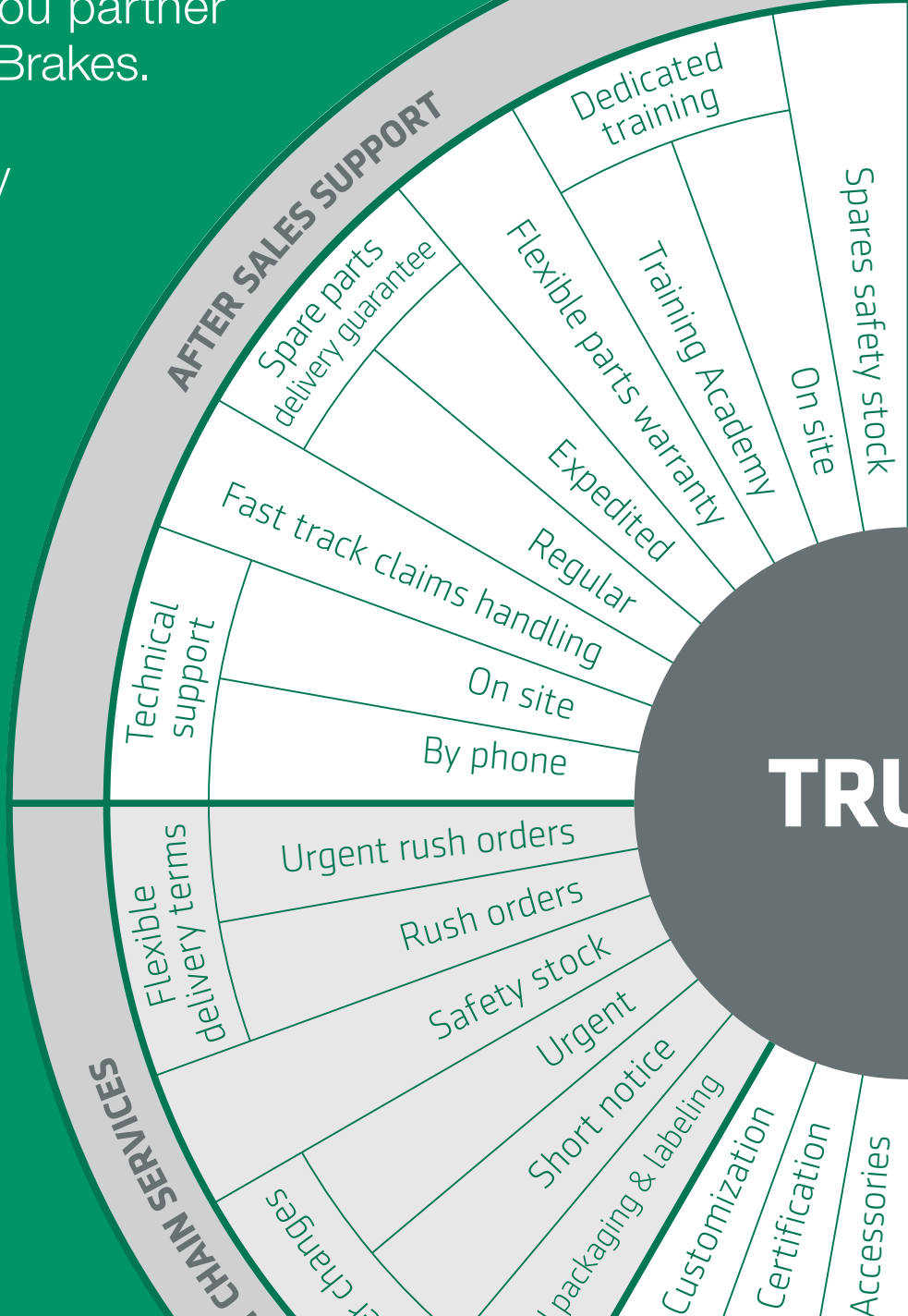


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Trust is key when you partner up with Svendborg Brakes. The uptime of your operation is our key driver in everything we do. From finding or designing your braking solution to supporting you once it is installed and operating. In other words, trust is what we deliver all the way round.

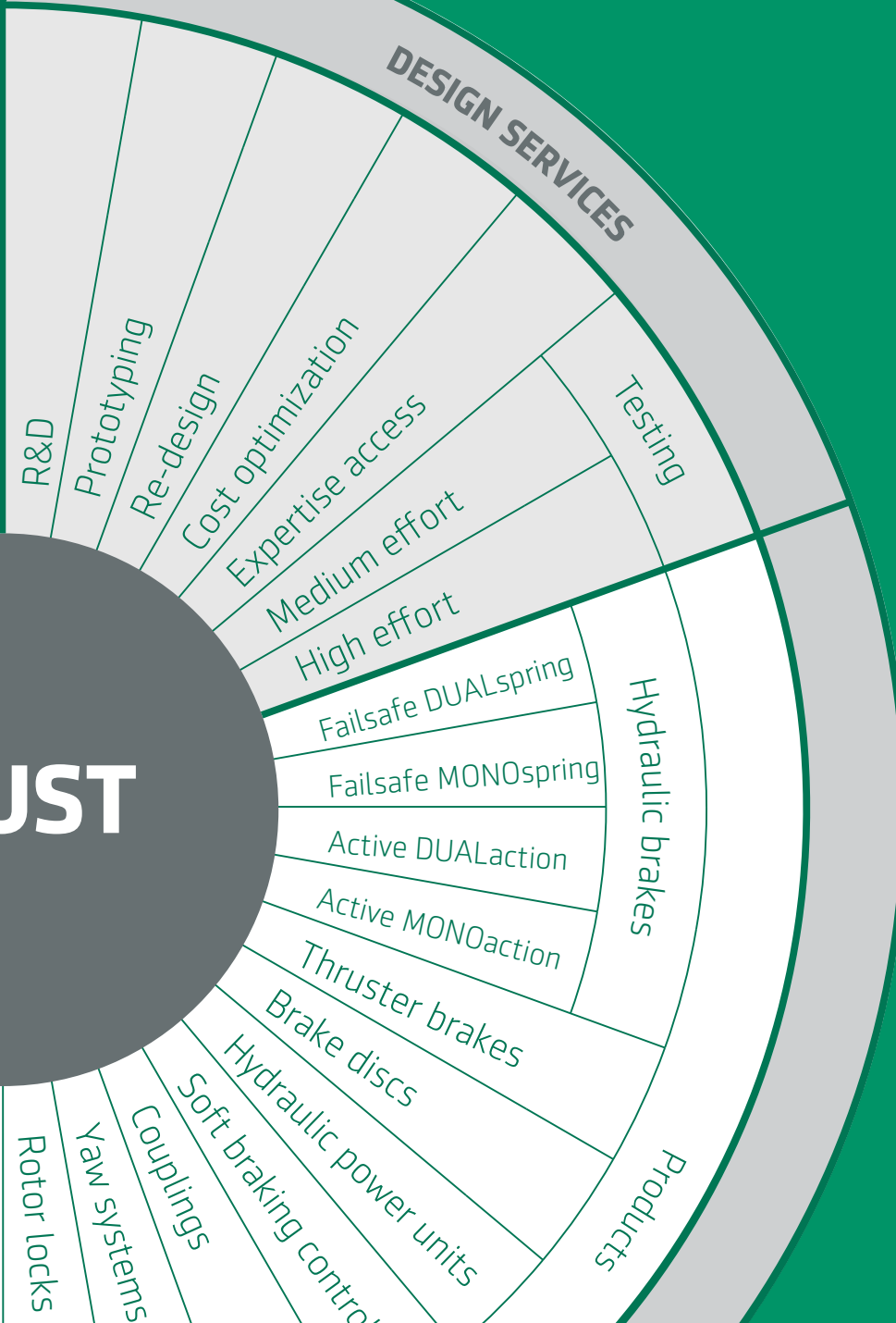




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**JUST**

GLOBAL  
LEADING  
EXPERTS

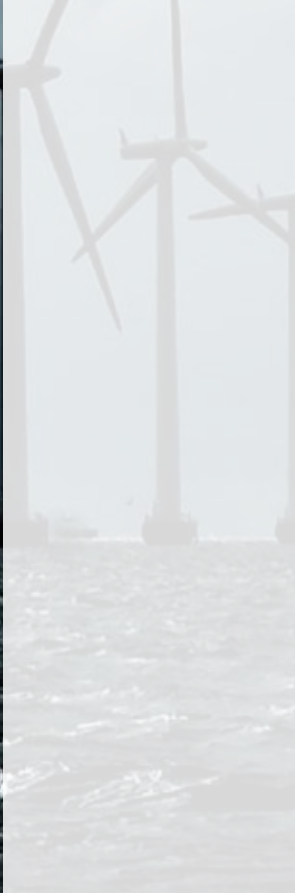




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# TRUST

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

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.

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.



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# SUPERIOR BRAKING PRODUCTS

Visit [www.svendborg-brakes.com](http://www.svendborg-brakes.com)



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# UNIQUE SERVICE SOLUTIONS

The goal of Svendborg Brakes Service Solutions is to reduce operating costs by optimizing the brakes system and offer a proactive plan to maintain it:

- > Minimize costly downtime by ensuring system maintenance and adjustment.
- > Replace worn parts, giving you efficient control of your operations.
- > Recalibrate out of adjustment hydraulic settings, providing the exact pressure and flow required.
- > Eliminate electrical issues that may occur from controllers, indicators, sensors or switches.
- > Document system settings to audit and manage your braking application.
- > Eliminate dirt and contamination by timely replacement of filters and oil.
- > Optimize the reaction time of the mechanical, electrical and hydraulic components.
- > Continuous product improvement results in upgrade options for all components using latest technology.





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**Svendborg**<sup>®</sup>  
Brakes Service Solutions

Service Tools

Trouble-shooting  
Service

Certification

Leading Know-How

Expert Technicians

Spare Parts

Repair

Retrofitting

Training

Maintenance



# SERVICING YAW BRAKES

The LBS 120 is a yaw brake lifting and installation tool providing new standards. A safe and fast way to allow complete removal and installation of yaw brakes.

- > Improved safety
- > Increased speed
- > Cuts time by up to 50%
- > Reduced labor costs
- > Reduced downtime
- > Reduced running costs
- > Reduced technician fatigue
- > Easy transportation
- > Easy to assemble





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# SOBO<sup>®</sup> iQ

## SOFT BRAKING CONTROLS





## The next generation!

The state-of-the-art SOBO® iQ from Svendborg Brakes is the next generation of our industry-leading braking controller. It combines various cutting-edge technologies to provide significant flexibility, safety and durability on your application.

Industrial-grade embedded PC | Built-in MODBUS TCP/IP interface | Custom optimized IP67 communications module | EtherCAT-based internal network | Full BUS monitoring | Optional cable redundancy | Fast hydraulic operation | Optional manual operation





# THE GREEN ALTERNATIVE

## Introducing the SB1002 & SB1003 brake pads.

In order to focus on environmental issues, friction materials for both SB1002 and SB1003 are developed according to the REACH legislation. In short, it means they are Asbestos Free and contain:

- > Less than 0.1% of Mercury, Chromium 6+ and Lead
- > Less than 0.01% of Cadmium

All electrical items comply with the RoHS directive. In addition Svendborg Brakes strives to comply with all Automotive rules and directives, related both to OE and AM applications.





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## ADVANTAGES

Reduced weight

Visual wear indicator

Corrosion protected

Cut-off corners

Optional wire for electrical wear indication

Reduced debris build-up, less glazing and reduced noise



Using our extensive platform of tested and certified hydraulic brake systems; we provide dedicated solutions for all types of kilowatt turbines – ranging from few kilowatt and upwards.

### Retrofitting & Upgrades

Based on highly cost-effective solutions, Svendborg Brakes offers retrofitting and updates of earlier small wind turbines. Even conversion, from current non-hydraulic systems to our leading hydraulic operated brake solutions, is possible.

Let us know your challenges and we will listen!



### BSFI 100 MONOspring

Weight of caliper without bracket:	Approx. 7kg
Overall dimensions:	131 x 129 x 147 mm
Pad width	56 mm (organic) 53 mm (sintered)
Max. wear of pad (sintered):	4 mm (=7.0 mm thick)
Nominal coefficient of friction:	$\mu = 0.4$
Pressure connection/port:	1/8" BSP
Recommended pipe size:	6 mm
Maximum operating pressure:	23.0 MPa
Operating temperature range – general:	from -20°C to +70°C





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# KILOWATT WIND TURBINES



## BSFI 200 MONOspring

Weight of caliper without bracket:	Approx. 19 kg
Overall dimensions:	240 x 180 x 190 mm
Pad width:	70 mm
Nominal coefficient of friction:	$\mu = 0.4$
Pressure connection/port:	1/8" BSP
Drain connection port:	1/8" BSP
Recommended pipe size:	10/8 mm
Maximum operating pressure:	23.0 MPa
Operating temperature range – general:	from -20°C to +70°C



## BSAB 50

Weight of caliper (incl. organic pads):	Approx. 11 kg
Overall dimensions:	154x146x120 mm
Pad width:	62 mm
Nominal coefficient of friction:	$\mu = 0.4$
Pressure connection/port:	G1/8
Drain connection port:	G1/8
Recommended pipe size:	6-8 mm
Maximum operating pressure:	P=165 bar
Operating temperature range general:	-20°C to +70°C



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# ORDER ONLINE

## **Svendborg Brakes supports customers' global needs for Wind Aftermarket Parts & Services**

Would it optimize your work procedures and resources if you had the opportunity to order spare parts and accessories online? Svendborg Brakes is in the process of launching an e-Shop, making it simple and easy to order spare parts and accessories for the Wind segment – no matter where in the world you operate.

If you want to know more and sign-up for joining the launch, please visit [www.svendborg-brakes.com](http://www.svendborg-brakes.com)



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**Belted Drives and Sheaves****TB Wood's**

*Belted Drives*  
Chambersburg, PA - USA  
**1-888-829-6637** – Press #5

*For application assistance:*  
1-888-829-6637 – Press #7

**Couplings****Ameridrives Couplings**

*Mill Spindles, Ameriflex,  
Ameridisc*

Erie, PA - USA  
**1-814-480-5000**

*Gear Couplings*

San Marcos, TX - USA  
**1-800-458-0887**

**Ameridrives Power Transmission**

*Universal Joints, Drive Shafts,  
Mill Gear Couplings*

Green Bay, WI - USA  
**1-920-593-2444**

**Bibby Turboflex**

*Disc, Gear, Grid Couplings,  
Overload Clutches*

Dewsbury, England  
**+44 (0) 1924 460801**

Boksburg, South Africa  
**+27(0) 11 918 4270**

**Guardian Couplings**

*Engineered Flywheel Couplings,  
Engine Housings and Pump Mounts,  
Flexible Shaft Couplings*

Michigan City, IN - USA  
**1-219-874-5248**

**Huco Dynatork**

*Precision Couplings and  
Air Motors*

Hertford, England  
**+44 (0) 1992 501900**

Chambersburg, PA - USA  
**1-888-829-6637**

**Couplings Cont.****Lamiflex Couplings**

*Flexible Couplings, Bearing  
Isolators, and Coupling Guards*

Cotia, SP - Brasil  
**+55 (11) 4615-6300**

**TB Wood's**

*Elastomeric Couplings*

Chambersburg, PA - USA  
**1-888-829-6637** – Press #5

*For application assistance:*  
1-888-829-6637 – Press #7

*General Purpose Disc Couplings*

San Marcos, TX - USA  
**1-888-449-9439**

**Electromagnetic  
Clutches and Brakes****Inertia Dynamics**

*Spring Set Brakes; Power On and  
Wrap Spring Clutch/Brakes*

New Hartford, CT - USA  
**1-800-800-6445**

**Matrix International**

*Electromagnetic Clutches  
and Brakes, Pressure Operated  
Clutches and Brakes*

Brechin, Scotland  
**+44 (0) 1356 602000**

New Hartford, CT - USA  
**1-800-825-6544**

**Warner Electric**

*Electromagnetic Clutches  
and Brakes*

New Hartford, CT - USA  
**1-800-825-6544**

*For application assistance:*  
1-800-825-9050

Saint Barthélemy d'Anjou, France  
**+33 (0)2 41 21 24 24**

*Precision Electric Coils and  
Electromagnetic Clutches and  
Brakes*

Columbia City, IN - USA  
**1-260-244-6183**

**Engineered  
Bearing Assemblies****Kilian Manufacturing**

*Engineered Bearing  
Assemblies*

Syracuse, NY - USA  
**1-315-432-0700**

**Gearing****Bauer Gear Motor**

*Gearred Motors*

Esslingen, Germany  
**+49 (711) 3518-0**

Somerset, NJ - USA  
**1-732-469-8770**

**Boston Gear**

*Enclosed and Open Gearing,  
Electrical and Mechanical  
P.T. Components*

Charlotte, NC - USA  
**1-800-825-6544**

*For application assistance:*  
1-800-816-5608

**Nuttall Gear and  
Delroyd Worm Gear**

*Worm Gear and  
Helical Speed Reducers*

Niagara Falls, NY - USA  
**1-716-298-4100**

**Heavy Duty  
Clutches and Brakes****Industrial Clutch**

*Pneumatic and Oil Immersed  
Clutches and Brakes*

Waukesha, WI - USA  
**1-262-547-3357**

**Svendborg Brakes**

*Industrial Brakes and  
Brake Systems*

Vejstrup, Denmark  
**+45 63 255 255**

**Twiflex Limited**

*Caliper Brakes and Thrusters*

Wichita Falls, TX - USA  
**1-844-723-3483**

Twickenham, England  
**+44 (0) 20 8894 1161**

**Heavy Duty  
Clutches and Brakes Cont.****Wichita Clutch**

*Pneumatic Clutches  
and Brakes*

Wichita Falls, TX - USA  
**1-800-964-3262**

Bedford, England  
**+44 (0) 1234 350311**

**Linear Products****Warner Linear**

*Linear Actuators*

Belvidere, IL - USA  
**1-800-825-6544**

*For application assistance:*  
1-800-825-9050

Saint Barthélemy d'Anjou,  
France  
**+33 (0)2 41 21 24 24**

**Overrunning Clutches****Formsprag Clutch**

*Overrunning Clutches  
and Holdbacks*

Warren, MI - USA  
**1-800-348-0881** – Press #1

*For application assistance:*  
1-800-348-0881 – Press #2

**Marland Clutch**

*Roller Ramp and Sprag Type  
Overrunning Clutches  
and Backstops*

South Beloit, IL - USA  
**1-800-216-3515**

**Stieber Clutch**

*Overrunning Clutches  
and Holdbacks*

Heidelberg, Germany  
**+49 (0) 6221-30470**

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sales offices in Asia Pacific  
check our website  
[www.alttramotion.com.cn](http://www.alttramotion.com.cn)

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Brazil: **+55 11 4615-6300**

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**Warner Linear**

**1-800-825-6544**

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**1-814-480-5000**

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**1-800-825-6544**