

# SINFT FILTRATION SOLUTIONS FOR WIND POWER

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**SINFTFILTER**  
HEBEI SINFT FILTER CO., LTD.

SINFT offer premium grade filter elements capable of protecting equipment exposed to harsh environmental conditions, ranging from salt spray from offshore installations to blown sand in deserts. Our robust designs are perfect for the unique demands of the wind turbine industry and save operators money by extending regular maintenance intervals & enhancing reliability.

## The benefits for you:

- ▶ Compatibility with many common manufacturers (Cross Referencing)
- ▶ Long service life, reduces equipment maintenance and unscheduled downtime costs
- ▶ High functionality and safety
- ▶ High reliability and efficiency
- ▶ Certified quality
- ▶ Tested for compliance with ISO standards with all applicable industry certifications

# SINFT Replacement CJC filter insert

## ► Oil Filtration for your wind turbine gearbox

In the new generation of wind turbines you often find an oil filter in the gear oil cooling system, but as the cooling system is dimensioned to keep the oil temperature low it is often not easy to find a filter with an acceptable efficiency. The oil types used in the wind turbine gearboxes are mainly very high viscosity gear oils. The HDU filter will extend the operational life time of the gearbox by continuously keeping the particle and water contamination level low. The filter insert will even adsorb oxidation residue from the oil which will increase reliability of system valves.



SINFT can supply the replacement filter inserts: 3 µm absolute filtration ratio which are produced of 100% natural cellulose fibres from sustainable resources - no metal, no plastic, no chemicals.

Filter model	SINFT Filter insert
HDU 15/25 Serie	A15/25 B15/25
HDU 27/-series	A27/27 B27/27
HDU 27/27 PV-PY	B27/27
HDU 15/25 PV	BG 15/25



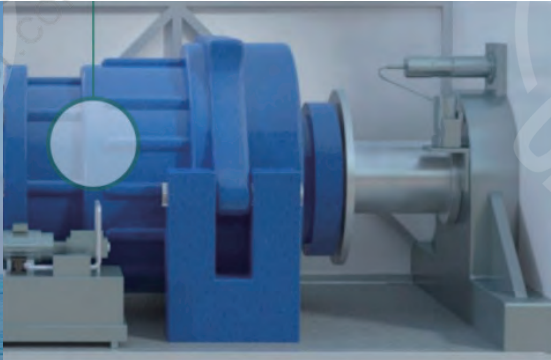
### Advantage:

- 1) Remove particles-even the smallest and very harmful small particles-water and varnish
- 2) Deliver depth filtration systems removing particles down to 0.8 microns.
- 3) Have the industry's highest dirt-holding capacity
- 4) Particles are retained in the cellulose fibers, water is absorbed inside the cellulose and oxidation is absorbed on the outside of the cellulose fibers.
- 5) Clean oil, tanks, gearboxes and systems while in operation

Have conducted the Flender Foam Test and Compatibility Test , the filter inersts have great adaptability to both the oil and the filtration system.

# SINFT Desiccant Breather Series

## ► Solutions for Wind Turbine Contamination Control



Desiccant Breather Introduction	Part number	Product Advantage
Particle Contamination Is the Leading Cause of Hydraulic and Gearbox Failures. High -capacity and dirt-holding cartridge filter, good for those very dusty and dirty environments and reduces contamination of your oils by removing solid particles (down to 3µm). High-capacity check valves allow for increased air flow at low cracking pressure.	<b>Standard series:</b> DC-BB, DC-1,DC-2,DC-3,DC-4	1) Stock available. 2) Connection type is Multi-fit, which is suitable for multiple thread types.
	<b>VG series:</b> DC-VG-BB,DC-VG-1,DC-VG-2,DC-VG-3, DC-VG-4	

Comparison photos of our product's testing results versus the original product:

### A. Begin test



Figs 3 & 4: color silica gel filters at the start of the test on 26/07/2021 at 17: 16

### B. End of test



Figs 5 & 6: comparison of Des-Case DC4 and alternative brand DC4 after test 27/07/2021 at 8: 50

# SINFT replacement Filtrec filter elements

## ► Hydraulic filter elements for Wind Power



It is particularly important that wind turbine gearboxes filters provide appropriate protection. That is why proper filtration is an essential part of preventive maintenance and avoid unplanned shut down. SINFT can provide a range of filters that guarantee absolute reliability and proven quality.


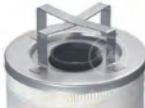
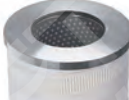
PART NUMBER	OUTER DIAMETER	INNER DIAMETER	LENGTH
<b>B251G10</b>	85 mm	53 mm	61 mm
<b>C713G25</b>	79 mm	61 mm	431 mm
<b>C713G10</b>	79 mm	61 mm	431 mm
<b>AWG108</b>	136 mm	1 1/2-16 UN 2B	309,5 mm
<b>D181G25A</b>	70 mm	33.5 mm	210 mm
<b>A150G10</b>	128 mm	1" 1/2-16 UN	170 mm
<b>DMD0008E10B</b>	47 mm	25.5 mm	172 mm
<b>RHR1300G10B4/005</b>	143.5 mm	96.5 mm	483 mm



# SINFT Replacement Pall filter elements

## ► for Wind Power Gearbox Lubrication

Protect from harmful solid contaminants that can cause blockage, prevent the operation of valves and when trapped between moving surfaces in pumps and bearings cause and accelerate wear. Any contaminants remaining in the fluid downstream of inline filters have to pass through the system, and potentially the smallest operating clearances before they can be filtered again.

Series	Photo	Advantage
HC8300FTP / HC8300 Series/ HC8300FRS-FRT		<ol style="list-style-type: none"> <li>1) Adopting an anti-static structure and stress-resistant medium technology to reduce damage caused by high-voltage arc discharges.</li> <li>2) The filter material is created through a special process using fibers and resins, greatly enhancing its service life.</li> <li>3) Utilizing reinforced support with spiral winding to ensure the stability of the filter material.</li> <li>4) Easy installation and low maintenance costs.</li> </ol>
HCY 160 Series		<ol style="list-style-type: none"> <li>1) Under cold start conditions, ensure effective filtration of the flowing oil.</li> <li>2) Increase the filtration area of the filter element to extend its service life.</li> <li>3) Withstand stress impact without compromising its filtration performance.</li> </ol>
HCY143 Series		<ol style="list-style-type: none"> <li>1) Under cold start conditions, ensure effective filtration of the flowing oil.</li> <li>2) Increase the filtration area of the filter element to extend its service life.</li> <li>3) Withstand stress impact without compromising its filtration performance.</li> </ol>

# SINFT replacement HYDAC Filter Elements

## ► Filtration Solutions for Wind Turbines

The gearbox filter element from SINFT ensures that only filtered oil gets into the lubrication system even when the bypass valve is opened. Increase your wind turbine's availability and safety with replacement element.

Stat-Free Elements® to prevent static charging		<p>Mobilemicron (MM) for filtration ratings 8, 10, 15 µm            Optimicron® (ON) for filtration ratings 1, 3, 5, 10, 15, 20 µm            Optimicron® Pulp &amp; Paper (ON/PP) for filtration rating 5 µm            Betamicron® (BN4HC, BH4HC) for filtration ratings 3, 5, 10, 20 µm            (In this case, please add /-SFREE to the element model code.            Example: 2600 R 010 ON /-SFREE)            Optimicron® Power (ON/PO) for filtration ratings 5, 10, 20 µm            Optimicron® Pulse (ON/PS, OH/PS) for filtration ratings 3, 5, 10, 20 µm with SFREE inclusive</p>
Optimized filter elements (e.g. BN4HX)		<p><b>Features</b></p> <ul style="list-style-type: none"> <li>• API 614 compliant</li> <li>• Glass fiber media, single-layer with support</li> <li>• Innovative outer wrap with increased strength &amp; better diffuser effect = homogenous flow</li> <li>• Integrated Stat-Free® technology</li> <li>• Low collapse only - 145 psid (10 bar)</li> </ul> <p>For example: Model code: 2600 A 010 ON/PO  <b>Size:</b> 2600 A: API-614 compliant (10 µm ≥ 10) (R = Return line power (5, 10, 20 µm) ) ON/PO = Optimicron® Power</p>
Trimicron elements		<p>Offline filter elements for combined removal of oil ageing products, water and solid particles. The filter layers used were manufactured by means of meltblown technology. For offline filtration in lubrication systems (e.g. wind energy plants), hydraulic systems and transmission and hydraulic testing facilities.</p> <ul style="list-style-type: none"> <li>• High filtration efficiency (β 5(c) &gt; 1000)</li> <li>• Low initial differential pressure</li> <li>• High contamination retention capacity</li> <li>• Ultrafine particle contamination, water and oil degradation products removed by depth filter material</li> <li>• Wide media compatibility</li> </ul> <p>Simple element replacement</p>
Breather Dryer BDE		<p>The distinctive feature of the breather dryers BDE is that it has two separate chambers which can be filled with two desiccants, which in combination increase total water retention.</p> <p><b>FILTER SPECIFICATIONS</b></p> <p>Temperature range: -30 °C to +100 °C            Storage temperature: -40 °C to +100 °C            Material of filter housing: Plastic (PA, PC and POM)            Material of filter cartridge unit: Combination of 2 different desiccants            Material of air filter element: phenolic resin impregnated paper</p>