

Why you should choose HSP Canada



Manufacturing facility in Toronto, Canada Local production reduces lead times and improves supply chain efficiency.



IEEE-compliant designs Fully meets IEEE C57.19.00 and 01 standards, ensuring dimensional compatibility.



Optimized for North America Designed to support power grids, utilities, and transformer applications in demanding environments.



Seismic-tested & built for longevity Engineered to withstand specified operating conditions and last up to 40 years.



Advanced RIS technology Dry-type, oil-free bushings with superior safety and environmental benefits.



STARIS®-Sia+
25-230 kV



Leading Grid Connections.



Contact us!

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contact-ca@hsp-grid.com

For direct sales and support
contact our sales department
in the US.

HSP US LLC
800 Westinghouse Blvd
Charlotte, NC 28273, USA

E-mail:
sales-us@hsp-grid.com



For more information on
our Dry Bushings solutions
– Scan the QR Code.

**High performance
transformer bushings
for a reliable future.**

Proven Bushing Design out of Canada

Based in Germany, HSP Hochspannungsgeräte GmbH, is a technology leader in high-voltage transformer bushings, dedicated to delivering innovative, reliable, and environmentally friendly solutions as depicted by our Regenera® concept. Drawing on this strength of experience, **HSP Canada Limited** is proud to present our cutting-edge dry bushings manufacturing plant in Toronto to meet the growing demands of the North American power sector. Equipped with cutting-edge facilities and keen market insight, HSP Canada Limited is set to significantly enhance grid reliability, sustainability, and operational efficiency across both the US and Canadian energy landscapes.

Ensuring High Performance Standards

STARIS®-Sia+ bushings are precision-engineered to meet and exceed IEEE standards, ensuring long-term reliability and safety. Each bushing undergoes a strict manufacturing process at HSP Canada, where final assembly, testing and quality control take place.

Detailed Manufacturing process

- 1 **Component Production & Assembly**
RIS cores are manufactured and other components prepared, followed by skillful bushing assembly and leak tests.
- 2 **Partial Discharge Testing (PD)**
Ensures electrical PF (Power Frequency) withstand and insulation's dielectric integrity.
- 3 **BIL (Basic Insulation Level) Testing**
Simulates lightning & transient overvoltage conditions to ensure durability.
- 4 **Assembly & Packaging**
Transformer bushing parts are carefully assembled and verified.
- 5 **Final Inspection & Dispatch**
Each unit is quality-checked before shipment.



STARIS®-Sia+ transformer bushings: The future of high-voltage performance!

The **STARIS®-Sia+** Bushing Series is designed for high-voltage transformer applications, ensuring maximum safety, reliability, and efficiency.

Utilizing dry-type RIS (Resin-Impregnated Synthetic) technology, **STARIS®-Sia+** eliminates oil and paper, making it a low-maintenance, explosion and fire-resistant solution built for modern power grids.

STARIS®-Sia+ Bushing are part of our Regenera® portfolio



STARIS®-Sia+	Unit	Voltage range
Rated highest voltage for Equipment Um, 50/60Hz	kV	25 34,5 46 69 115 138 161 230
Partial discharge level at test voltage	-	below background noise level of 2pC
Power-frequency withstand voltage (50 Hz, 1.2 min, dry / 60 Hz, 1.0 min, dry)	kV	60 80 105 160 260 310 365 425
Rated lightning impulse withstand voltage (BIL): 1.2/50 µs	kV	150 200 250 350 550 650 750 900
Maximum service current draw lead bolt: I _{max} /600 mm ²	A	800 800 800 800 800 800 800 800
Maximum service current with removable conductor: I _{max}	A	1200 1200 1200 1200 1200 1200 1600 1600
Maximum service current with solid conductor: I _{max}	A	3000 3000 3000 3000 2000 2000 2000 2000
Flashover distance	mm (In)	380 (15.00) 380 (15.00) 480 (18.90) 661 (26.00) 1138 (44.80) 1301 (51.20) 1451 (57.10) 1860 (73.20)
Creepage distance: minimum	mm (In)	1120 (44.10) 1120 (44.10) 1480 (58.30) 2250 (88.60) 3900 (153.50) 4500 (177.20) 5100 (200.80) 6440 (253.50)
Contamination level per C57.19.100	-	extra heavy heavy

Also available from HSP Canada Limited for special projects or customized designs, the SESTFta RIS transformer bushings for expanded current ratings and in cases where legacy dimensions of existing bushings cannot be met by standard offerings.

SESTFta	Unit	Voltage range
Rated highest voltage for Equipment Um, 50/60Hz	kV	25 34,5 46 69 115 138 161 230
Maximum service current draw lead bolt: I _{max} /600 mm ²	A	800 800 700 700 800 800 800 800
Maximum service current with removable conductor: I _{max}	A	1400 1400 1400 1400 1400 1200 1400 1250
Maximum service current with solid conductor: I _{max}	A	6000 6000 5000 6000 5000 5000 6000 6000



Leading Grid Connections.
A Trench Group Company