Bradken SmartLiner™

Remote real-time wear monitoring and wear forecasting of Fixed Plant Assets. The safer and more efficient way to view the condition data of your liners and plan maintenance.

Real-time Data

End-of-life wear predictions and tracking - remaining useful life predictions. Bradken Insite® provides access to real-time data on all your SmartLiner enabled assets on site. Display real-time conditions on the 2D and 3D wear maps and life remaining graph per liner.

Detailed Part Information

Product information - asset liner predicted remaining useful life mm's and % at each sensor location. Filter and investigate your individual liners. Easy sensor information allows you to detect any technical issues.

Export and Order

Configure shut days to see liners requiring replacement at each planned shut. Export your Bill of Materials list with all SmartLiner enabled parts required for changeout.

Bradken SmartLiner delivers improvements for your operation across:

Improved Sustainability

Planned liner replacement at optimal timing reduces wastage, improving sustainability goals. Reduction in liner replacement results in reduction in transport and manufacturing inputs.

Reduced Maintenance

Using Bradken Insite® analytics and wear reports you can accurately plan maintenance and reduce unplanned downtime.

Forecasting of liner replacements enables improvements in operational scheduling.

Increased Efficiency

Real-time data feed reduces the downtime for shutdowns of manual inspection of stockpile bins and inaccessible liners.

System can be fitted to any metallic or ceramic liner independent of the attachment system in use.

Improved Safety

Operators access real-time wear data remotely online removing the need for manual inspection of hazardous chutes and hoppers, reducing confined space, hot environment and height-related safety impacts.
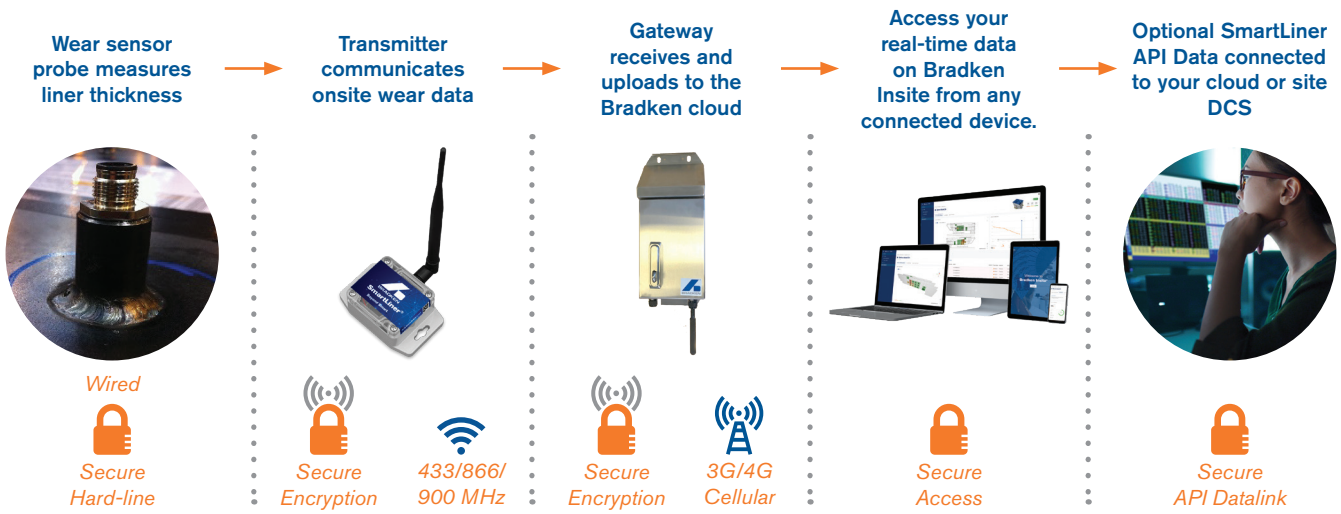
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How does it work?

SmartLiner® probes are embedded into Bradken liners. Our sensors are cloud-connected via secure gateways feeding data directly to Bradken Insite®, giving you access to real-time wear data and reports anywhere, any time.

- Up to 100 sensors from multiple assets can be installed per Gateway.
- Multiple Gateways can be installed to provide site wide area coverage.

Wear sensor probe measures liner thickness	Transmitter communicates onsite wear data	Gateway receives and uploads to the Bradken cloud	Access your real-time data on Bradken Insite from any connected device.	Optional SmartLiner API Data connected to your cloud or site DCS
Wired				
Secure Hard-line	*Secure Encryption* — *433/866/ 900 MHz*	*Secure Encryption* — *3G/4G Cellular*	*Secure Access*	*Secure API Datalink*

Real-time Data
All SmartLiner data will appear on the Bradken Insite dashboard with updates from the sensors everyday from the site.

Heat Maps
Assess each liner's performance with a clear condition and key for interpretation.

2D and 3D
Toggle between 2D and 3D visuals to investigate areas of high flow and high wear. Zoom in, out and reset the view.

Predictive Wear
All SmartLiner events are used to create a remaining useful life prediction in mm's and %.

List of Liners
Filter your liners that include all your part numbers, install dates, Bradken ID's, material, thickness, condition % and mm's, sensor ID's and status, and predicted failure date.

Bill of Materials
Easily identify which SmartLiners need replacement and their life's proximity to your planned shuts.

Shut Dates
Configure a pair of shut dates to filter your sensor data and predictions to create one list of liners for replacement.

Export and Order
Download your filtered list or Bill of Materials, send it to procurement get new liners onsite for your planned shut.

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