A Complete Range of Battery Room Management Systems

The Key to a More Productive Warehouse
Increase warehouse productivity, reduce costs through better battery management

When lead-acid batteries are not properly managed, the productivity of your entire warehouse or DC suffers. Improper battery rotation is the #1 reason for poor battery performance, and lack of information is the primary cause of poor rotation.

Using guesswork instead of data to manage your battery assets results in:

- Shorter battery run times
- Reduced battery life
- More frequent battery failures
- More frequent battery failures
- More frequent battery changes
- Less productive operators, higher labor costs
- Money wasted on unneeded batteries

Philadelphia Scientific’s iBOS® battery room management system gives you the technology you need to properly rotate batteries and optimize their performance. The mistake-proof, read-and-react system makes battery selection quick and easy. And, Web-based reporting provides the management information you need to right-size your fleet, enabling you to effectively operate with a two batteries to one forklift truck ratio. The result: reduced waste, increased productivity and an improved bottom line.

There’s an iBOS system for any size battery room: iBOS Basic or iBOS Lite for small battery fleets and iBOS Plus and iBOS Pro for larger fleets.

Benefits of using iBOS®

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<thead>
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<th>Battery Rotation</th>
<th>Right-sizing</th>
<th>Management Information</th>
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<tr>
<td>Faster Changes</td>
<td>Know How Many Batteries to Eliminate</td>
<td>Feedback</td>
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<td>2 to 5 minutes faster</td>
<td>Too many batteries waste capital, increase maintenance costs</td>
<td>Identify non-working equipment &amp; problems in the battery room</td>
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<tr>
<td>Longer Run Time</td>
<td>Know How Many Batteries to Add</td>
<td>Accountability</td>
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<td>30 Minute Increase</td>
<td>Too few batteries decrease productivity, reduce battery life</td>
<td>Pick Accuracy &amp; Utilization reports give management overview</td>
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<tr>
<td>Fewer Changes</td>
<td>Decisions Without Data Is Guesswork</td>
<td>Access to Information</td>
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<td>10 to 20% Less</td>
<td>Now purchasing is based on what the data shows is needed</td>
<td>Get complete battery room data at <a href="http://www.ibosworld.com">www.ibosworld.com</a></td>
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<tr>
<td>Longer Life</td>
<td></td>
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<td>6 Month Increase</td>
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<td>Proper Cool Down</td>
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iBOSWorld
Web Service
Internet-based service provides complete data on battery availability and utilization. This feedback enables you to right-size your fleet, helping you make decisions on adding or shedding batteries as demand changes. The service also promotes operator accountability.

Charger-Splitter™
With Charger Splitter, you can reduce the chargers you’ll need by 50% — eliminating the need for this row of chargers!

Shouter
Signals the mispick with a loud alarm.

Controller
Communicates with and controls the Sentinels; indicates the correct battery to pick and sounds an alarm when the wrong battery is selected; sends data to the iBOSWorld Web Service.

Sentinel
Constantly monitors charger voltage and reports data to the Controller.

Pick Light
Easy-to-see blue Pick Light to indicate the correct battery to select.

Bar Code Scanner
Enables the tracking of individual forklift deadman hours, individual battery run time and maintenance history, including past-due watering alerts. Information is reported through iBOSWorld.com.

Wireless Display
Touch screen display wirelessly communicates with controller and makes battery selection information conveniently available on battery extractor.

The Lean Battery Room
The Key to a More Productive Warehouse

Here’s how iBOS works
When an operator enters the battery room, the Controller, scrolling display, pick light and/or wireless display indicate the correct battery to select — the one that is fully charged and cooled down the longest. If the wrong battery is selected, the Shouter sounds.
No matter the size of your warehouse, there’s an iBOS® that’s right for you

The entry level iBOS system manages up to 50 chargers in a single pool on a single-level rack. Easy-to-see pick lights provide clear direction on which charged battery to select.

**NEW!**

**iBOS® Basic**

50 Chargers  
1 Battery Pool

- Sentinel  
- Charger  
- CONTROLLER

Compatible with All Chargers  
Blue “Pick Light” to Indicate Correct Battery  
Universal Voltage Sentinel  
Daisy Chain Wiring with Cable Included

Perfect for smaller battery rooms with up to 50 chargers in a single pool on a single-level rack. The system brings cost-effective battery rotation to the small battery room and can be easily upgraded to iBOS Plus or iBOS Pro.

**NEW!**

**iBOS® Plus**

100 Chargers  
9 Battery Pools

- Sentinel  
- Charger  
- CONTROLLER  
- OPERATIONS DISPLAY

Includes all iBOS Lite features, plus…  
Built-in Touch Screen  
Built-in Shouter  
7 Days On-Site Data  
Optional Web-Based Reporting  
Optional 3G Modem for Web Connectivity  
Optional Barcode Scanner  
Optional Operations Display  
Optional Charger-Splitter™

Ideal for mid-sized battery rooms, capable of managing up to 100 chargers in up to 9 battery pools. Offers many of the benefits of our top-line iBOS Pro system, including connection to the iBOSWorld Web Service via the Internet.

**NEW!**

**iBOS® Pro**

350 Chargers  
9 Battery Pools

- Sentinel  
- Charger  
- CONTROLLER  
- OPERATIONS DISPLAY

Includes all iBOS Plus features, plus…  
Built-In UPS  
Optional Wireless Display  
Optional Remote Shouter  
Optional Scrolling Displays  
Optional Barcode Scanner  
Optional Operations Display  
Optional Charger-Splitter™

The most powerful and configurable iBOS system for larger battery rooms, capable of managing up to 350 chargers in up to 9 battery pools on multiple-level battery racks. iBOS Pro allows Internet connection to iBOSWorld Web Service.