

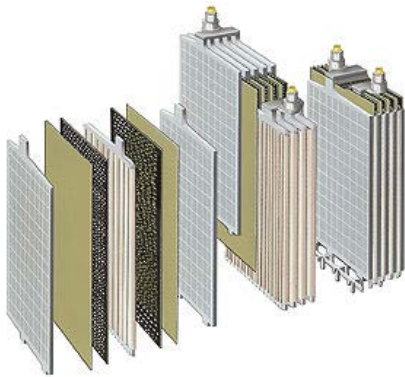
Standard & High Capacity Series Tubular Batteries

with Superior Positive Plate Design



Applications

- Forklifts & Material Handling
- Pallet Jacks
- Automated Guided Vehicles



Greater Acid Circulation

- SBS round tube has greater acid circulation than square tube or flat plate positive plates
- The round tube allows it to retain its shape as the plate expands during discharge



The SBS tubular battery **provides high performance, long life and lower maintenance costs**. Unique design features provide higher capacity but not sacrificing battery cycle life, while maintaining normal watering intervals.

Unique Design Features and Benefits

- **Higher energy density** than flat plate positive plate constructed batteries means better performance
- Greater surface area optimizes active material utilization which allows for **higher voltages under load**, resulting in superior performance in high rate and cold storage applications
- High pressure die cast positive splines **resist corrosion** which is superior to gravity cast flat plate construction and improves battery life (Dense grain structure of tubular grid using pressure die casting)
- **Uniform distribution of active material** and weight is achieved through a wet filling process which enhances plate uniformity
- Round, non-woven **tubular gauntlets provide superior resistance** to active material shedding
- Fully enveloped separators reduce the chance of short circuiting
- 1" sediment space to **prevent short circuits**
- Rubber terminal bushings absorb impact and shock on rough floors



High Capacity Tubular

When you require the **maximum run time** out of your battery, you can rely on the SBS high capacity **tubular Z-series battery**.

Multi plate thin separator technology allows for more positive and negative plates than a conventional cell.

- No decrease in watering space above the plates
- The thin separator technology coupled with the superior round tube design provides unhindered electrolyte circulation



ROUND TUBULAR



SQUARE TUBULAR



FLAT PLATE

Acid-Resistant Powder-Coated Epoxy Steel Battery Trays

- Resists corrosive effects from acid
- Provides protection from voltage leakage to the truck
- Coated on all inner and outer surfaces for complete protection

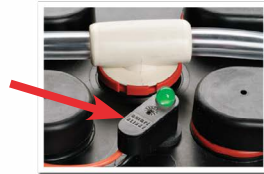
User Replaceable Bolt-On Cable Connections

- Cone & thimble bolt easy on/off design
- Eliminates the need for battery technician replacement saving time and money
- Allows facility personnel to make immediate repairs to cut or torn cables 24/7 eliminating downtime
- Increases safety since connectors and contacts can be replaced while the cables are not connected to a live battery



Optional Electrolyte Indicator:

Ultra-reliable electrolyte-level Indicator with green blinking light and single wire connection



Flip-Top Vent Caps:

- Fast, easy filling, low spill & fewer missing caps which can allow leakage and corrosion
- Compatible with all water level indicators



Clear No-Freeze Tubing:

Enables view of water flow and surplus water drains into cells after filling is complete



Optional Single-Point Watering System:

Can fill an entire battery in less than 30 seconds

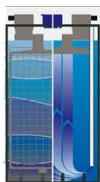
Optional Single Point Filling System



Optional Sealed Tray - If the occasional dripping fluid which arises from overwatering or washing poses a contamination or housekeeping issue or if electrical equipment is located directly under the battery compartment, SBS can provide a sealed tray option.

Instead of excess fluids draining from the bottom of the battery, excess fluid can be suctioned out through a vertical tube located between the battery cells.

Air Mix



Air Mix System - this system works by circulating air from a pump into the bottom of each cell via a tube to mix electrolyte while on charge preventing stratification and leading to faster recharging times.



Pull Resistant Cables

9002, UL 583 E, EOE, EE approvals