BATTERIES

CHARGERS

ACCESSORIES

RECYCLING

SERVICE EQUIPMENT

SALES

SERVICE

SUPPORT

TRAINING

THE DEKA DIFFERENCE



Great Products.

Exceptional Service.
Experienced Battery People.

You need them. You deserve them! You get them with Deka. Premium quality products backed by knowledgeable customer service and support. Deka delivers the whole package! Let's take a look at what Deka can do for you...

Quality Battery Engineering and **Manufacturing**

Produced by East Penn Manufacturing Co., Inc., Deka industrial batteries are constructed of the finest materials under strict computer-controlled manufacturing processes. More than 250 quality control checks are performed on every single battery to ensure the

highest possible levels of performance, resulting in maximum productivity for you.

At East Penn, innovation is the backbone of our engineering department. Using the industry's most advanced laboratory equipment and computer-aided design methods, our engineering team keeps us at the forefront of battery research and development, continually improving our current product lines and creating new products to better serve your needs. State-of-the-art computerization is implemented in every phase of battery production including grid casting, paste mixing, plate pasting, plate curing, assembly and forming. Our computerized methods assure consistent quality.

At Deka, we realize that cutting corners in manufacturing only leads to increased user costs down the road. Instead, we focus on quality with ALL of our industrial batteries - quality components, quality engineering and quality manufacturing.

Our flow-through boost charging process controls internal cell temperatures, completely recharges the already formed plates and automatically adjusts electrolyte specific gravity.

Our secondary lead smelter is a fine example of East Penn's commitment to environmental protection.





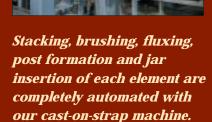
our facility is recycled...including the steel trays, plastic, lead and even the acid. In fact, East Penn holds the exclusive patents to the acid reclamation process. We strictly monitor all recycling and production processes to ensure a clean,

pollution-free environment. Located among the thriving farmlands of southeastern Pennsylvania, East Penn is committed to protecting our surrounding community.

> We take great pride in monitoring the air, water and soil surrounding our plant site to make sure our emissions levels stay well below EPA maximum allowable levels.

> You can be assured that your spent batteries are being recycled in an environmentally safe manner. With East Penn, you'll never have to worry about paperwork burdens or costly penalties due to improper disposal.







Plates are individually formed outside the battery before being assembled in elements. Each plate is inspected to assure that only quality plates are used.

Safe and Proper Battery Recycling

Battery disposal is never a problem

with East Penn. As we deliver your

new batteries, we'll pick up your

spent batteries and transport them to our EPA "Part B"-permitted battery recycling facility. Virtually one hundred percent of every battery returned to



An Inside Look at Deka Technology

The Deka line of industrial batteries incorporates every feature required by today's user of electric industrial trucks. Designed using East Penn engineering technology. Built by master craftsmen according to strict quality assurance guidelines. Deka industrial batteries are the finest available to meet the demands of today's material handling requirements. Deka precision computer-integrated construction provides reliable performance throughout a long life.

COVER

Heat sealed with lead insert bushing prevents leakage and voltage-to-ground.

O-RING SEAL

Accommodates positive plate growth without cover distortion and leakage.

POST

Special alloy for increased strength and conductivity.

POST PLATE STRAP

Extra heavy to ensure a permanent connection between posts and plates.

POSITIVE GRID

A non-porous lead alloy casting designed for maximum current carrying capacity, capable of many years of dependable service. Lead alloy is manufactured on-site and undergoes rigid testing before, during and after casting.

ACTIVE MATERIAL

Manufactured on-site to exacting specifications and uniformly applied under rigid laboratory control to ensure maximum efficiency throughout long battery life.

JAR

Molded of high impact-resistant material to remain leak-free under the roughest conditions.

BRIDGE

Provides firm element support and ample sediment space.

BOTTOM SHIELD

Provides extra protection on bottom of positive plate to prevent shorting between plate and sediment.



STEEL TRAY

Heavy gauge with acid-resistant protective coating. Steel covers furnished as required.

VENT CAP

Quarter-turn bayonet style simplifies watering and inspection.

SEPARATOR GUARD

White color increases visibility for fast electrolyte check. Solid insulating fingers extend between plate lugs to prevent shorting between plates and straps.

NEGATIVE PLATE

Engineered to complement positive plate performance.

VERTICAL MAT

Laminated construction comprised of uniformly spaced, fine glass tape that imbeds into the active material.

Also features an inter-woven glass fiber mat wrapped vertically around the positive plate ensuring optimum active material retention.

HORIZONTAL MAT

Made of glass fibers with an insoluble binder. Breaks up gas bubbles and increases positive plate insulation and performance.

RETAINER

A high porosity perforated envelope that encases positive plates and glass mats to prevent shorts and ensure maximum performance and life.

SEPARATOR

Impervious to heat, acid and corrosion, deep channeled, microporous separators provide insulation between positive and negative plates while allowing the free flow of electrolyte throughout the cell.

ELECTROLYTE

In ample volume to ensure top performance at all rates of discharge.









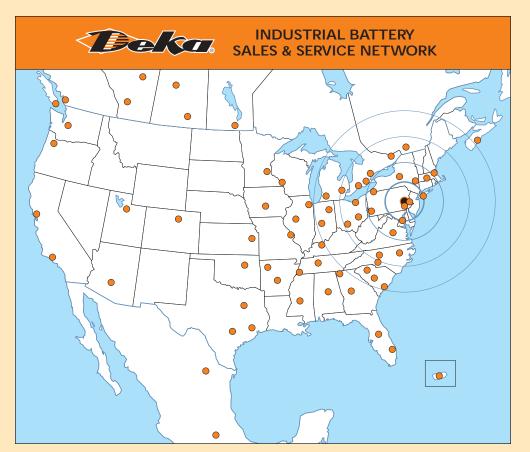
Vertical Integration

At East Penn, we take great pride in our self-reliance. As a vertically integrated company, we produce our own premium-grade oxide and exclusive demineralized electrolyte. Our smelter refines lead for new batteries, and our plastics injection molding department manufactures many of the necessary plastic parts. Being vertically integrated helps control costs and limits the possibility of "stock outs," so we are always prepared to fill customer orders promptly.

Training and Support

At Deka, we realize that your time is valuable. That's why we take it upon ourselves to train your people in proper battery charging, care and maintenance. Our factory-trained sales representative doesn't just sell you a product. He walks your staff through proper battery handling procedures, advises on routine care and maintenance and keeps you informed of new technological developments. This one-on-one approach allows our technicians to focus on your individual requirements,

answer your questions, evaluate your needs and provide the best customer service in the industry. We also offer a complete library of training and support videos and literature including battery specification guides, brochures and flyers.



Headquartered in Lyon Station, Pennsylvania, Deka's industrial sales and service network spans across North America and includes Canada, Mexico and Puerto Rico.



Battery Servicing

All Deka industrial batteries and chargers are backed by a nationwide network of qualified sales and service technicians ready to handle all your emergency repair and preventive maintenance needs. Our battery and charger professionals can provide convenient onsite service for your batteries and chargers, keeping downtime to a minimum. We keep our service vehicles fully equipped to handle any battery or charger problem, eliminating

the need for bothersome and expensive follow-up service calls. For major overhaul and repair, batteries and chargers are returned to nearby fully equipped and staffed service shops. Trained service technicians will return the product in the shortest time possible.

Routine maintenance contracts protect your battery and charger investment and ensure longest, safest operation. Our technicians periodically visit your facility to service and maintain your Deka batteries and chargers.

We can even bring our own industrial battery cleaner to your site *! The Deka Battery Cleaning System is our own patented invention. The system is completely self-contained. Once your batteries are cleaned, the wash water is reclaimed in an oil separation/adsorption process. The reclaimed water is returned to the holding tank for future use. Nothing is left at your plant site for disposal. The only things you're left with are your clean batteries... and the satisfaction of knowing you've made the best choice in battery suppliers.

* Not available in all areas.









Using our patented system, our highly trained service agents can clean your batteries on-site, resulting in minimal downtime and longer battery life.

Accurate Inventory Engineering and Distribution

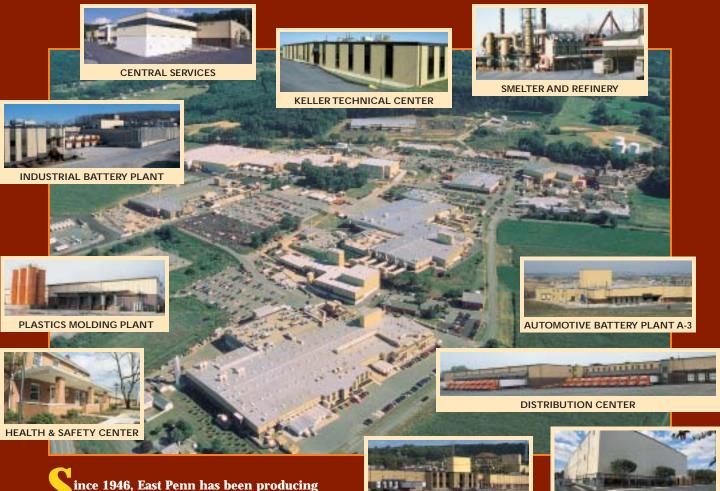
The hub of our distribution network is our 175,000 square foot distribution center. Here we house hundreds of industrial batteries ready for delivery wherever they're needed. Our "real time" inventory and order processing system provides accurate order tracking and fast customer service.

Our distribution center is complemented by a nationwide warehouse network. These agents span throughout the United States, Canada, Mexico and Puerto Rico. All our warehouses are kept stocked with finished batteries and sub-assemblies ready for immediate shipment at your request.

DEKA DELIVERS THE COMPLETE BATTERY PACKAGE

Premium products, technological innovation, sales training and support, customer service, quick and accurate shipping, and safe recycling of spent batteries... everything you've always wanted in a battery supplier. Get it all with Deka!

World's Largest and Most Modern Single-Site Battery Manufacturing Facility



ince 1946, East Penn has been producing high quality batteries for the industrial, automotive, commercial, marine, stationary and specialty markets. A progressive company committed to the future, East Penn operates the largest single-site manufacturing facility in the industry. To keep up with the increasing demand for our high quality products, East Penn is pursuing an aggressive expansion plan. In fact, our new high-tech facilities and computer monitoring and control systems have made us the industry's most technologically advanced battery manufacturer. All Deka batteries and accessories are produced at a huge single-site manufacturing plant, pictured above. Facilities at this 480+ acre site include an industrial battery plant, three automotive battery plants, a specialty battery plant, a wire and cable manufacturing plant, a

state-of-the-art oxide facility, an acid reclamation plant, a modern technical center, an EPA "Part B"-permitted lead smelter and refinery, a pilot plant, two water purification plants, a fully equipped machine shop, a fleet repair and maintenance garage, plus dozens of other support facilities. Our innovative computer-integrated manufacturing techniques, combined with more than 250 quality assurance checks, ensure that every Deka battery meets our rigid quality and performance standards. Staffed with a stable, long-term management team, East Penn is an independent company dedicated to producing a world-class product, delivered on time when and where it's needed for complete customer satisfaction.

CABLE AND WIRE PLANT

SPECIALTY BATTERY PLANT S-1

"POWERED FOR PERFORMANCE"™



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Order Department Hotline: 610-682-4231

www.dekabatteries.com • e-mail: epmmotve@eastpenn-deka.com