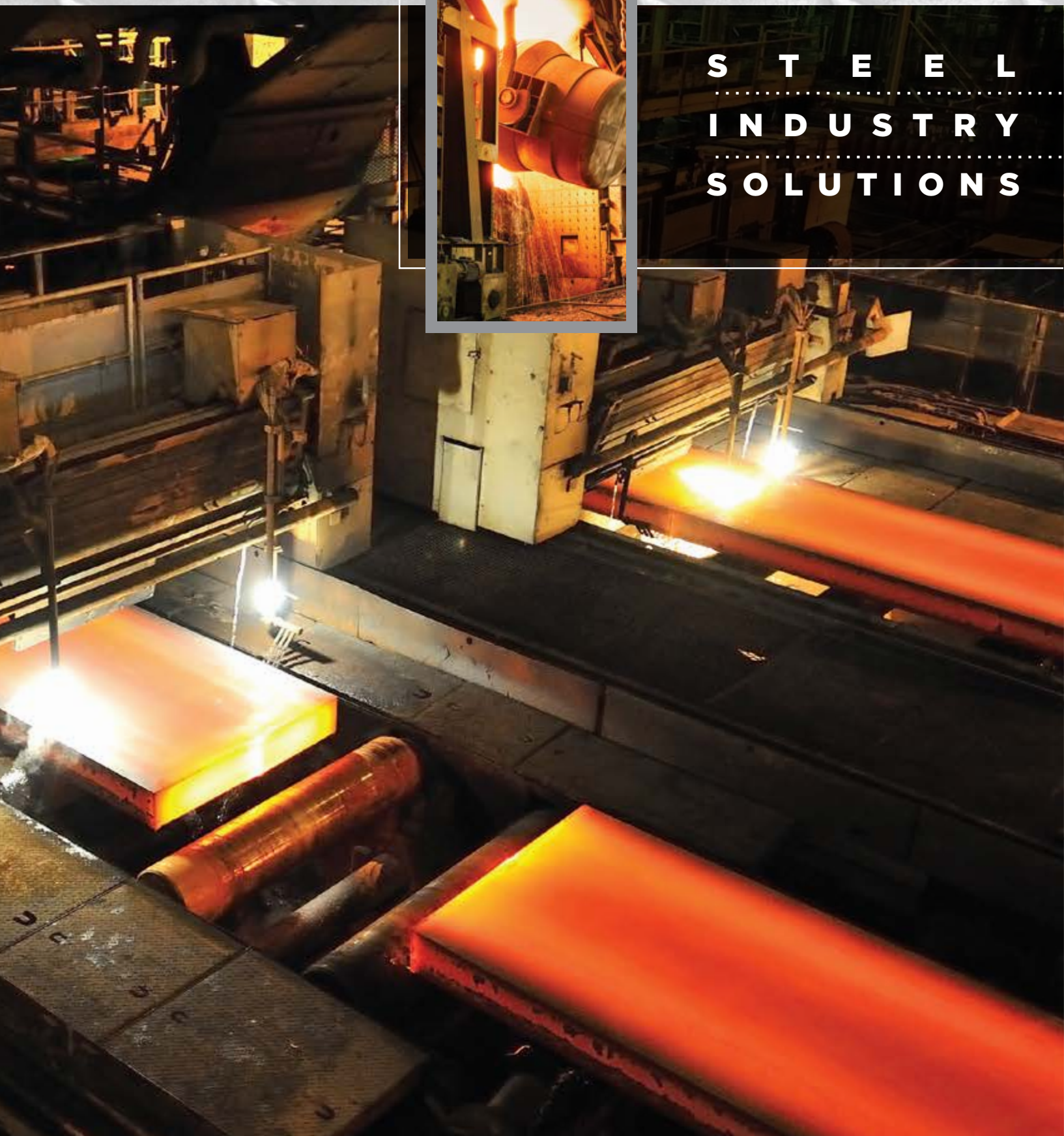
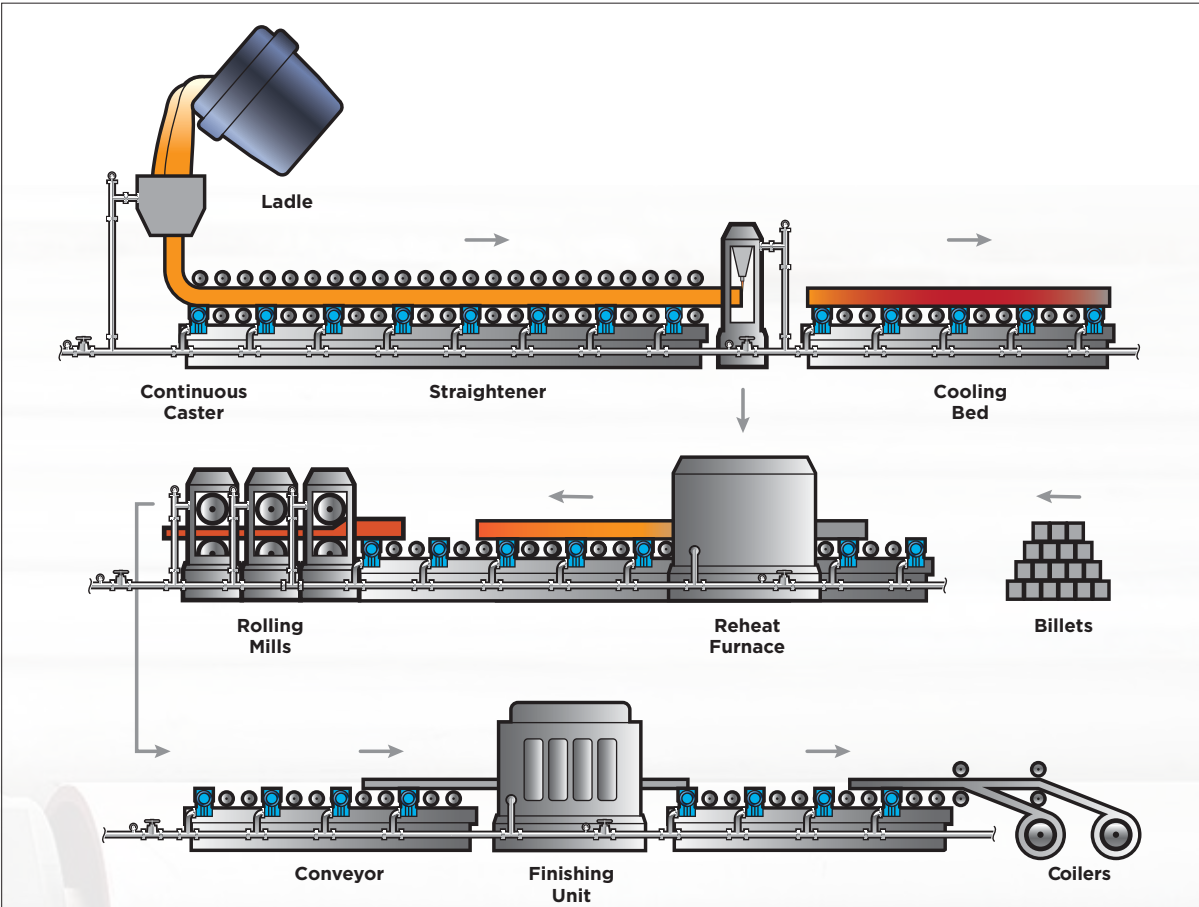




**S T E E L**  
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**I N D U S T R Y**  
.....  
**S O L U T I O N S**







## Steel Mill Applications

### Continuous Caster

**Bearings**

Caliber™ 460 M

**Hydraulic Systems**

Air Sentry® Breathers / Hydraulic Reservoir Kits

### Straightener

**Bearings**

Matrix® EP / Caliber™ 460M

**Gearboxes (Water cooled)**

Paragon™ / Paragon Gold™ / Air Sentry® Breathers / Gearbox Adapter Kits

**Gearboxes (Non-Water cooled)**

Decathlon™ Extreme / Air Sentry® Breathers / Gearbox Adapter Kits

### Cooling Bed (Run-Out table)

**Bearings**

Matrix® EP / Caliber™ 460M

### Flanges and Valves

**Bolts and Nuts**

550® eXtreme

**Seals**

DEACON® 8875

### Rolling Mills

**Bearings**

Matrix® EP / Caliber™ 460M / Caliber™ Blue / Onyx™

**Couplings**

Vortex™

### Reheat Furnace

**Bearings**

Matrix® EP / Caliber™ 460M

### Conveyor

**Bearings**

Matrix® EP / Caliber™ 460M

**Gearboxes**

Paragon™ / Paragon Gold™ / Air Sentry® Breathers / Gearbox Adapter Kits

### Coilers

**Bearings**

Matrix® EP®

### Plant Maintenance Lube Rooms and Satellite Lube Rooms

Air Sentry® Breathers / OilSafe®

- Lubrication Work Center
- Transfer Containers
- Filtration Units
- Drum Adapter Kits



We understand steel plants endure punishing conditions. Our products are specially formulated to perform in the harshest environments and most demanding applications. Whitmore® and Jet-Lube®'s performance lubricants, anti-seize compounds, sealants, lubrication management products and desiccant breathers reduce wear, increase reliability, minimize downtime and prolong equipment life while lowering your operating and maintenance costs.

## LUBRICATION DESIGNED FOR THE EXTREMES



### Performance Lubricants

#### **MATRIX® EP** (CALCIUM SULFONATE COMPLEX GREASE)

*Whitmore's best bearing grease for demanding applications. Matrix EP protects in difficult applications and conditions far beyond conventional grease. It protects against heat, high load, corrosion or infrequent lubrication. Matrix EP extends lubrication frequency using less grease, preventing premature wear.*

**Applications:** *Straightener Bearings, Cooling Bed (Run-Out Table) Bearings, Rolling Mill Bearings, Reheat Furnace Bearings, Conveyor Bearings, Coilers*

#### **CALIBER™ 460M** (EXTREME PRESSURE GREASE w / MoS<sub>2</sub>)

*Caliber 460M is a robust lithium complex grease containing molybdenum disulfide. It's designed to lubricate bearings running under high load and at elevated temperatures. Caliber 460M provides extended service intervals and reduces wear.*

**Applications:** *Continuous Caster Bearings, Straightener Bearings, Cooling Bed (Run-Out Table) Bearings, Rolling Mill Bearings, Reheat Furnace Bearings, Conveyor Bearings*

#### **CALIBER BLUE™** (HEAVY-DUTY GREASE)

*This tacky, extreme pressure, lithium grease continues to make an entrance into steel mills around the world. Caliber Blue has become known for high resistance to water and a high degree of rust protection. Caliber Blue's bright blue color acts as an identifier, making accidental mixing with other greases virtually impossible.*

**Applications:** *Rolling Mill Bearings*



#### **ONYX™ (HEAVY-DUTY GREASE)**

*This extreme pressure, calcium sulfonate complex grease is specifically designed for use on roughing and finishing mills where high resistance to water is essential. The thickener has a natural ability to shut out water. This has been greatly augmented by the addition of water-repelling materials including special polymers.*

**Applications: Rolling Mill Bearings**

#### **VORTEX™ (COUPLING GREASE)**

*Vortex is a durable and tacky coupling grease specifically formulated for long-term lubrication of greased grid and gear type mechanical couplings. This highly effective grease can be used in any size couplings, at all speeds, and in the presence of water and steam.*

**Applications: Couplings**

#### **PARAGON™ (HEAVY-DUTY ENCLOSED GEAR OIL)**

*Whitmore's work horse. This robust gear oil has been protecting gearboxes for over three decades. Paragon has earned a reputation for its long life, low foaming tendency and wear protection under high load.*

**Applications: Straightener (Water cooled) Gearboxes, Conveyor Gearboxes**

#### **PARAGON™ GOLD (EXTREME PRESSURE GEAR OIL)**

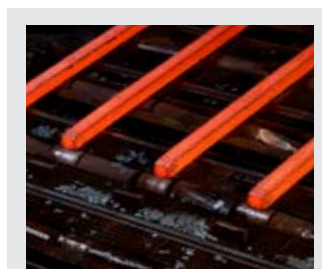
*The more difficult the application, the better Paragon Gold works. Its unique additive combination ensures smooth gear and bearing contact surfaces, even under the most punishing conditions of extreme load, reversing action and shock load. Paragon Gold is especially recommended for use where gears are pitted, scuffed or under unusually high load.*

**Applications: Straightener (Water cooled) Gearboxes, Conveyor Gearboxes**

#### **DECATHLON™ EXTREME (SYNTHETIC EXTREME PRESSURE GEAR OIL)**

*Created for use under adverse conditions, Decathlon Extreme meets the performance requirements of the American Gear Manufacturer's Association (AGMA) specification 9005-D94. It performs in the harshest conditions, such as heavily loaded gears, shock loading and high temperatures due to hot, ambient conditions.*

**Applications: Straightener (Non-Water cooled) Gearboxes**







## Anti-Seize Compounds and Sealants

### 550® EXTREME (NON-METALLIC ANTI-SEIZE COMPOUND w / MoS<sub>2</sub>)

*Ideal for steel plants' maintenance needs. 550 eXtreme's homogeneous composition offers maximum protection against seizure and heat freeze, eases assembling and dismantling, and saves man hours. This dependable anti-seize compound assures protection against rust, oxidation and corrosion. 550 eXtreme will not harden, evaporate, or settle out and requires no thinning. Usable temperatures range from -65°F (-54°C) up to 2400°F (1316°C).*

**Applications: Flange and Valve Bolts and Nuts**

### DEACON® 8875 (HEAT CURING PASTE SEALANT)

*A thick, fibrous, thermal reactive paste sealant / refractory hybrid used in high temperature and high pressure applications. In the presence of heat, this sealant will expand to form a robust "mechanical type" seal. DEACON 8875 is unaffected by thermal cycling and will not cement flanges together, so it will not interfere with future repairs of metal-to-metal joints. This sealant will flow, filling small voids and surface irregularities, creating a seal between the gasket and the flange surface where most leak problems originate. DEACON 8875 can also be used as a stand-alone compound on metal-to-metal flanges that are warped, cut or pitted. Usable temperatures range from 500°F (260°C) up to 1800°F (982°C).*

**Applications: Flange and Valve Seals**





## Lubrication Management

### LUBRICATION WORK CENTER

*Color-coded bulk storage keeps your storage area neat, safe and free of messy 55-gallon drums.*

- Choice of OilSafe filtration, 25, 7 or 4 micron rating
- Modular and scalable, the unit can be configured to your exact need
- Arrives pre-assembled for easy setup
- Each tank has its own dedicated pump and filter to prevent cross-contamination
- Built-in spill containment to meet regulatory requirements

**Applications:** *Plant Maintenance Lube Rooms, Satellite Lube Rooms*



### TRANSFER CONTAINERS

*Precise-pour transfer containers eliminate spills and slowdowns.*

- Ergonomic hand pumps
- Push-button air intake valves
- Quick-twist spouts for fast, smooth pumping and pouring
- Fully interchangeable drums available in multiple sizes and lids in 10 different colors
- Robust design for extended service life

**Applications:** *Plant Maintenance Lube Rooms, Satellite Lube Rooms*



### FILTRATION UNITS

*OilSafe's ground-breaking Filtration Units extend the life of your industrial oils, saving you time and money. They maintain purity from storage to application and eliminate cross-contamination with color-coded, error-proof, flat face, zero-leak quick connects. Discover the cleanest and safest filtration systems on the market with three layers of spill containment to include a removable primary containment vessel, preventing spills and waste. Available in portable and stationary configurations.*

**Applications:** *Plant Maintenance Lube Rooms, Satellite Lube Rooms*



### DRUM ADAPTER KIT

*Drum Adapter Kits allow breathers to be installed on any storage tank or drum. There's never been a cleaner, more effective way to store, filter and pump lubricants from a drum. The unique design ensures all fluid handling is managed through dedicated adapters.*



### HYDRAULIC RESERVOIR ADAPTER KIT

*Hydraulic Reservoir Adapter Kits allow breathers to be installed on any hydraulic fluid tank or reservoir. The aluminum adapters have quick connects in two sizes for pumping oil in and out, allowing the system to remain closed to the environment at all times, dramatically reducing contamination while improving oil-handling safety.*



### GEARBOX ADAPTER KIT

*Gearbox Adapter Kits allow breathers to be installed on any gearbox. Oil can be pumped in or out without opening the gearbox to atmosphere. Offline filtration, oil changes and sampling can be handled through the adapter.*





## Desiccant Breathers & Add-Ons

The environment inside steel mills is hot, dusty and often humid. These conditions make Air Sentry® desiccant breathers a necessity for companies that desire maximizing equipment and fluid life while maintaining high cleanliness standards.

### D-SERIES

D-Series breathers feature numerous models in a variety of sizes, they are fully disposable and designed to satisfy the requirements of most stationary fluid management applications. All D-Series models feature 2-micron solid particle filtration and are available with airflow ratings of 20 cfm.



### Z-SERIES

Z-Series breathers are fully disposable and are designed for applications where space is limited or air flow requirements are lower than 5 cfm. The Z-Series is typically used on gearboxes and low fluid volume applications where mounting space is limited or where a larger breather will not fit without remote mounting.



### X-SERIES

X-Series Breathers are a better solution for high humidity and high dust environments. This breather series offers replacement cartridges for each breather. To extend desiccant life, the X-Series incorporates two check valves into a reusable top cap. The check valves provide a closed system until airflow is required, extending the service life of the desiccant.



### GUARDIAN® SERIES

GUARDIAN is Air Sentry's industry leading breather series. These breathers are the best solution for extreme conditions and environments and ideal for most applications. Some models feature an isolation check valve that keeps exhaust air from depleting the desiccant and protects from volatile fumes and splashing fluids. The Guardian's casing is constructed from Tritan,® a patented material highly resistant to impact and chemicals with a broad range of operating temperatures. These unique features equate to a longer life for your breather and your equipment.



**Applications: Gearboxes, Hydraulic Systems, Storage Tanks for Lubricants & Diesel Fuels\***

#### Guardian Series Add-Ons

##### HIGH-CAPACITY AIR FILTER - GHCAF

Can be used with a desiccant cartridge or as a standalone particle filter. The High-Capacity Air Filters' 0.3-micron HEPA filter is 99.97% efficient. Ideal for extremely dirty/dusty environments.



##### MODULAR STACKABLE RING - GMSR

By using the Modular Stackable Ring, you are able to attach GUARDIAN breather cartridges to extend the service life. This stackable ring also allows for the addition of the High-Capacity Air Filter and Activated Carbon Filter.



##### SHIELD WASH-DOWN CAP - GSWDC

The cap provides a barrier in environments where equipment wash down happens frequently and in dusty environments. This prevents any direct spray from opening check valves in the top cap. The Shield Wash-Down Cap is designed for use in food processing, mining, cement, pulp and paper facilities and outdoors.



\*Only Guardian models are to be used on diesel fuel applications and they must be accompanied with an isolation check valve. See Guardian models ending in NC, NG, NGC. Not available in models ending in N.





Established in 1893, Whitmore® and Jet-Lube® are global leaders in providing innovative products and services that increase the reliability, performance and lifespan of industrial assets. We manufacture high-performance lubricants, anti-seize compounds, sealants, lubrication management systems and cleaners designed to meet the specific needs of each industry and application. Industrial customers worldwide rely on Whitmore and Jet-Lube to deliver the performance engineered solutions industry counts on, even in the most adverse conditions and demanding environments.

Our family of products and services are sold worldwide through a distribution network committed to technical support and total customer satisfaction. Headquartered in Rockwall, Texas, with a fully integrated manufacturing plant, leading-edge research and development center, training facility and corporate offices.

*Made in USA*

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