

Commercial VehicleBattery Solutions

Making your fleet unstoppable

Comprehensive battery range for all commercial vehicle needs:

StrongPRO

EndurancePRO

PowerPRO

StartPRO

PowerPRO Agri & Construction

Made in Europe by Exide Technologies Original Equipment Manufacturer









Batteries that mean business

High-performance batteries to keep your business moving

Logistics is more important than ever, with customers expecting faster and more predictable deliveries. In this competitive environment, fleet owners are focusing on total cost of ownership. After all, when a truck is off the road, it leads to customer dissatisfaction, unused labor and capital, and potential fines and penalties.

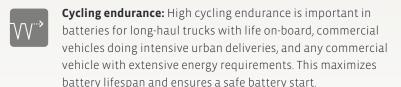
Fulmen designed its battery range to reduce the risk of breakdowns and give customers a competitive advantage. You get market-leading performance, lower total cost of ownership, and battery options for any use case.

As a true expert in OE batteries, Fulmen helps you select the right battery. For fleet owners and installers alike, it is vital to make the right choice for the conditions of use. Three important criteria to consider in battery performance are: vibration resistance, cycling endurance and cranking power.



Three main factors when selecting the right battery:

Vibration resistance: For trucks with rear-chassis battery installations (e.g. Euro 5/ Euro 6 trucks), robust and high-vibration-resistant batteries are mandatory to avoid breakdowns. Vibration resistance is also required for any vehicle operating on bad roads or rough terrain.

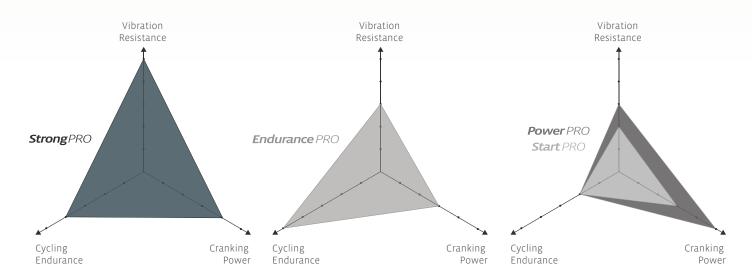




 \odot

Cranking power: High cranking power allows for engine starts in cold climates and is required for many power-intensive vehicles in agriculture and construction.

The perfect battery for every need



Select the right Fulmen battery for your needs



Trusted by leading commercial vehicle manufacturers

We have been supplying lead-acid batteries to car and truck makers for 120 years. We design the most technically advanced products in the industry, and were the first to introduce High Vibration Resistant (HVR®) batteries for trucks back in 2008. Vehicle manufacturers trust the quality of our products and our commitment to excellence in manufacturing.

Our company works with leading commercial vehicle manufacturers, including:

Isuzu, Iveco, MAN, Nissan, Renault Volvo Trucks, Scania, Bobcat, Case, Claas, Deutz Fahr, Evobus, John Deere, Komatsu, New Holland, Wacker Neuson, and many others...



StrongPRO







Innovating the indestructible battery

The new Fulmen StrongPRO features a next-generation HVR® (high vibration resistance) design, and comes with Carbon Boost™, our smart solution for reduced acid stratification and faster recharge. Since the AdBlue® tank was introduced (Euro 5/6), truck makers have moved the battery to the rear chassis, where increased vibrations cause early battery failures. Fulmen's unique HVR® technology prevents this, and enables StrongPRO to pass the extreme vibration tests under the new European V4 standard (EN 50342-1:2015).

Using StrongPRO means less risk of breakdowns, more starting reliability, and longer lifespan – providing the lowest total cost of ownership for your fleet. As a leading OEM supplier, Fulmen brings the latest technology straight to the aftermarket.

NEW!

Benefits

- Extremely robust latest HVR® technology
- Mandatory for chassis-end installation (e.g. Euro 5/ Euro 6 trucks) and ideal for rough terrain
- Carbon Boost™ for faster recharge and reduced acid stratification
- Ideal for long-haul trucks with comfort equipment to support "life on board"
- Maximum starting reliability after overnight stay
- OE experience inside
- First class safety features
- Maintenance free no topping up
- Optimal total cost of ownership (TCO)







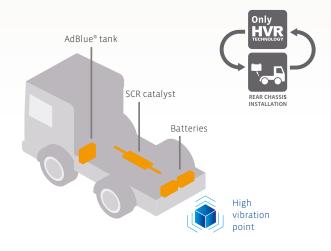














The Carbon Boost™ Effect

Our smart electrochemical solution for longer battery life

Early battery failures are common in commercial vehicles, caused by exposure to deep discharge conditions. Challenges to the battery include frequent starting and stopping for urban deliveries, and overnight heating and lighting for long-haul trucks. This strain leads to sulphation and acid stratification, damaging battery lifespan.

With Carbon Boost™, unique carbon additives increase the speed at which sulphate particles dissolve. This leads to faster recharging, protection from sulphation, and less stratification.

The carbon additives also promote controlled gassing during recharging, which keeps the electrolyte mixed and further reduces stratification.

The benefits of Carbon Boost:

- > Improved charge acceptance
- > Faster recharging
- Reduced acid stratification
- Enhanced cycling endurance

Sulphation: Sulphate particles progressively cover the negative plates. This makes recharging less efficient, because energy is used to dissolve the sulphate.





Without Carbon Boost^{TI}

With Carbon Boost™

Acid stratification: Sulphate particles turn into sulphuric acid during charging. This is heavier than the electrolyte, so it sinks to the bottom, creating a range of negative effects, including reduced capacity.





Controlled gassing mixes the electrolyte and reduces stratification

Without Carbon Boost™



EndurancePRO

Made for severe cycling



Benefits

- > 50% more cycle life compared to standard truck battery (advanced SHD technology with glass mat separators)
- > Ideal for long-haul trucks with comfort equipment to support "life on board"
- > Ideal for delivery trucks with hydraulic/electric lifts
- > Improved durability
- Low maintenance may need water topping
- > OE experience inside





EQUIPMENT







DELIVERY





PowerPRO

Impressive power at every start



StartPRO

Reliable starting power for standard use



Benefits

- > Superior cranking power (more plates and active material to maximize grid surface)
- Ideal for cold temperatures
- Ideal for trucks/ buses with big engines
- Robust and reliable design with hot melt fixation of plate groups
- Maintenance free no topping up
- OE experience inside











Benefits

- > Ideal for trucks without special requirements in terms of vibration resistance, cycling or cranking power
- Robust and reliable design with hot melt fixation of plate groups
- Complete range covering almost 100% of vehicle parc, including special types
- Low maintenance may need water topping up



NEW!

PowerPRO Agri & Construction

Choose the original part

Designed specifically to fulfill the demanding requirements of major agriculture and construction OEMs, PowerPRO Agri & Construction offers outstanding reliability, starting power and high capacity.



Benefits

- > Superior cranking power (more plates and active material to maximize grid surface)
- > Specifically designed for agricultural, forestry and construction machinery
- Robust design with hot melt fixation of plate groups
- > Wide range including special types
- > True OE design and construction (original part)
- Maintenance Free no topping up









TRUE OE CONSTRUCTION FIT



Type List				PERFORMANCE		DIMENSIONS					
				CAPACITY	CCA				TECHNICAL CHARACTERISTICS		
			CODE	CALACITI	COT			W (mm)			
	NEW!			Ah	A (EN)		()			HOLD DOWN	
	NEW!			140	800	513	223	189	ETN 3	Во	D04
HVR* TECHNOLOGY MIGHT VERATION RESISTANT	St St	StrongPRO	FE1853	185	1100	513	223	223	ETN 3	Во	D05
	CALLED SOME		FE2353	235	1200	518	240	279	ETN 3	Во	D06
GLASS MAT SHD TECHNOLOGY			FX1803	180	1000	513	223	223	ETN 3	Во	D05
	EndurancePRO		FX2253	225	1100	518	240	279	ETN 3	Во	D06
HDX	P	owerPRO	FF1202	120	870	349	235	175	ETN 0	B1	D02
			FF1420	142	850	349	290	175	ETN 0	Bo	D03
			FF1421 FF1453	142	850 900	349 513	290	175 189	ETN 1 ETN 3	Bo Bo	D03
			FF1853	185	1150	513	223	223	ETN 3	Во	D04
			FF2353	235	1300	518	240	279	ETN 3	Во	D06
	PowerPRO Agri & Construction										
			FJ1102	110	900	349	235	175	ETN 0	B1	D02
			FJ1100	110	900	349	235	175	ETN 0	Во	D02
			FJ1523	152	1130	513	223	189	ETN 3	Bo	D04
			FJ1723 FJ2353	172 235	1390	513 518	223	223	ETN 3	Bo Bo	D05
			FJ1805	180	1000	510	225	279	ETN 3	B3	D09
			FJ165A	165	850	354	285	241	ETN 6	Во	D67
			FJ1355	135	1000	514	210	175	ETN 3	В3	DB8
				110	950	330	240	173	ETN 9	Во	G31
			FJ050C	50	800	260	206	173	ETN 1	В7	G34
			FJ1000	100	850	353	190	175	ETN o	B13	L05
	Si Inni		FG1402	140	900	508	205	175	ETN o	B1	ATM
HD	Carlo A	StartPRO	FG1008	100	680	413	220	175	ETN 0	B3	D01
			FG1109	110	800	413	220	175	ETN 1	В3	D01
			FG1100	110	750	349	235	175	ETN o	Во	D02
			FG1101	110	750	349	235	175	ETN 1	Во	D02
			FG1102	110	750	349	235	175	ETN o	B1	D02
			FG1250	125	760	349	290	175	ETN 0	Во	D03
			FG1251	125	760	349	290	175	ETN 1	Во	D03
			FG1203	120	680	513	223	189	ETN 3	Во	D04
			FG1403	140	800	513	223	189	ETN 3	Bo	Do4
			FG1553 FG1803	155	900	513	223	223	ETN 3	Bo Bo	Dos
			FG1803 FG2153	180 215	1000	513 518	223	223	ETN 3	Bo Bo	D05
			FG2154	215	1200	518	240	279	ETN 4	Во	D06
			FG1206	120	680	510	225	175	ETN 4	B3	D08
			FG1406	140	800	510	225	175	ETN 4	В3	Do8
			FG1806	180	1000	510	225	218	ETN 4	B3	Do9
			FG1355	135	1000	514	210	175	ETN 3	B3	DB8
			FG1705	170	950	514	210	218	ETN 3	B3	DB9
			FG1353	135	1000	514	210	218	ETN 3	Во	DB9
			FG145A	145	1000	360	240	253	ETN 6	Во	F21
			FG110B	110	OEO	220	2//0	172	FTN o	Ro	G21







FG110B 110 950 330 240 173 ETN 9 B0 G31

Exide Technologies, with operations in more than 80 countries and more than 120 years of experience, is one of the world's largest producers and recyclers of lead-acid batteries. The company develops state-of-the-art energy storage solutions for the automotive and industrial market. Leading car, truck and lift truck manufacturers trust in Exide Technologies as an original equipment supplier. Exide also serves the aftermarket through a portfolio of successful and well-known brands.

Exide Transportation manufactures batteries for light and commercial vehicles, as well as agricultural and marine leisure applications. Industrial markets – under the division **GNB Industrial Power** – include efficient energy storage solutions for motive power applications such as lift trucks, cleaning machines and other commercial electrical vehicles, and network power applications such as telecommunications systems, renewables, and uninterruptible power supply (UPS).

Exide's engineers have always been at the forefront of bringing important innovations to the industry. Exide's ISO/TS-certified manufacturing facilities ensure that customers receive products that are produced with maximum efficiency and fulfill the highest quality standards, while minimizing impact on the environment.



European Headquarters

Exide Technologies SAS 5 allée des Pierres Mayettes, 92636 Gennevilliers France Tel: +33 1 41 21 23 00

Tel: +33 1 41 21 23 00 Fax +33 1 41 21 27 15 www.exide.com

Fulmen Battery Finder



