

Advanced Technology Equipment Manufacturers*

Revised 09/4/2019

On-Road (Medium/Heavy Duty, Terminal Tractors)

OEM	Model	Technology	Vocations	GVWR	Type
Altec Industries, Inc	Altec 12E8 JEMS ePTO	ePTO	ePTO, Utility	> 33,000, 26,001 - 33,000	New
Altec Industries, Inc	Altec JEMS 1820 and 18E20 ePTO	ePTO	ePTO, Utility	> 33,000, 26,001 - 33,000	New
Altec Industries, Inc	Altec JEMS 4E4 with 3.6 kWh Battery	ePTO	ePTO, Utility	16,001-19,500, 19,501-26,000	New
Altec Industries, Inc	Altec JEMS 6E6 with 3.6 kWh Battery	ePTO	ePTO, Utility	16,001-19,500, 19,501-26,000	New
Autocar	Autocar 4x2 and 6x4 Xpeditor with Cummins-Westport ISX12N Engine	Near-Zero Engine	Truck	> 33,001	New
Autocar	Autocar 4x2 and 6x4 Xpeditor with Cummins-Westport L9N Engine	Near-Zero Engine	Refuse	> 33,001	New
Blue Bird	Blue Bird Electric Powered All American School Bus	Zero Emission	Bus, School Bus	> 30,000	New
Blue Bird	Blue Bird Electric Powered Vision School Bus 4x2 Configuration	Zero Emission	Bus, School Bus	> 30,000	New
BYD Motors	BYD 8Y Electric Yard Tractor	Zero Emission	Terminal Truck	81,000	New
BYD Motors	BYD C10 45' All-Electric Coach Bus	Zero Emission	Bus	49,604	New
BYD Motors	BYD C10MS 45' All-Electric Double-Decker Coach Bus	Zero Emission	Transit Bus	45'	New
BYD Motors	BYD C6 23' All-Electric Coach Bus	Zero Emission	Bus	18,331	New
BYD Motors	BYD K11 60' Articulated All-Electric Transit Bus	Zero Emission	Bus	65,036	New
BYD Motors	BYD K7M 30' All-Electric Transit Bus	Zero Emission	Bus, Transit Bus	30'	New
BYD Motors	BYD K9 40' All-Electric Transit Bus	Zero Emission	Bus	40'	New
BYD Motors	BYD K9S 35' All-Electric Transit Bus	Zero Emission	Bus, Transit Bus	35'	New
BYD Motors	BYD Q3M (8TT) Class 8 Battery-Electric Tractor Trailer	Zero Emission	Terminal Truck, Truck	> 33,000	New
BYD Motors	BYD T5 Class 5 Cab-Forward Delivery Truck	Zero Emission	Delivery, Truck	14,001 - 19,500	New
BYD Motors	BYD T7 Class 6 Cab-Forward Truck	Zero Emission	Truck	19,501 - 26,000	New
BYD Motors	BYD T9M Class 8 Refuse Truck	Zero Emission	Refuse	> 33,000	New
Chanje	Chanje V8070 All-Electric Panel Van	Zero Emission	Delivery	16,535	New
Chanje	Chanje V8100 All-Electric Panel Van	Zero Emission	Truck	16,535	New
Complete Coach Works	Complete Coach Works Zero Emission Propulsion System	Zero Emission	Bus	> 29,000	Conversion
Crane Carrier Company	Crane Carrier COE2 with Cummins L9N Engine	Near-Zero Engine	Truck	> 26,000	New
Crane Carrier Company	Crane Carrier LDT2 with Cummins L9N Engine	Near-Zero Engine	Truck	> 26,000	New
Crane Carrier Company	Crane Carrier LET2 with Cummins L9N Engine	Near-Zero Engine	Truck	> 26,000	New
Cummins Westport	Cummins Westport ISX12N Engine	Near-Zero Engine	Engine		Conversion
Cummins Westport	Cummins Westport L9N Engine	Near-Zero Engine	Engine		Conversion
EIDorado National	EIDorado National AXESS 35' and 40' Transit Bus with Cummins-Westport L9N Engine	Near-Zero Engine	Bus	35', 40'	New
EIDorado National	EIDorado National AXESS 40' Fuel Cell Hybrid 4x2 Transit Bus	Zero Emission	Bus	40'	New
EIDorado National	EIDorado National AXESS FC Hybrid 4x2 35' Transit Bus	Zero Emission	Bus	35 ft	New
EIDorado National	EIDorado National E-Z Rider II-35', 32', or 30' Transit Bus with Cummins-Westport L9N Engine	Near-Zero Engine	Bus	30', 32', 35'	New
EIDorado National	EIDorado National XHF Transit Bus with Cummins-Westport L9N Engine	Near-Zero Engine	Bus	29', 33', 35"	New
Lion Bus	eLion School Bus Type C, 4x2 All-Electric	Zero Emission	Bus, School Bus	> 29,000, 19,501 - 29,000	New
ROUSH CleanTech	Ford E-350/450 6.8 L V10 ROUSH 0.05 NOx	Low-NOx Engine	Cutaway Chassis	10,001-16,000	New
ROUSH CleanTech	Ford F-59/53 6.8 L V10 ROUSH 0.05 NOx	Low-NOx Engine	Stripped Chassis	16,001-19,500	New
ROUSH CleanTech	Ford F-450/550 6.8 L V10 ROUSH 0.05 NOx	Low-NOx Engine	Truck	14,001-19,500	New
ROUSH CleanTech	Ford F-650/750 6.8 L V10 ROUSH 0.05 NOx	Low-NOx Engine	Truck	19,501-33,000	New
ROUSH CleanTech	Ford F-59/53 6.8 L V10 ROUSH 0.02 NOx	Near-Zero Engine	Stripped Chassis	16,001-19,500	New
ROUSH CleanTech	Ford F-450/550 6.8 L V10 ROUSH 0.02 NOx	Near-Zero Engine	Truck	14,001-19,500	New
ROUSH CleanTech	Ford F-650/750 6.8 L V10 ROUSH 0.02 NOx	Near-Zero Engine	Truck	19,501-33,000	New
Freightliner	Freightliner 114SD with Cummins ISX12N Engine	Near-Zero Engine	Truck	> 26,000	New
Freightliner	Freightliner 114SD with Cummins-Westport L9N Engine	Near-Zero Engine	Refuse, Truck, Utility	> 26,000	New
Freightliner	Freightliner M2-112 with Cummins-Westport L9N Engine	Near-Zero Engine	Truck	> 26,000	New

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Freightliner	Freightliner New Cascadia 116" Day Cab with Cummins-Westport ISX12N Low-NOx Engine	Near-Zero Engine	Truck	> 26,000	New
Gillig	Gillig 29' ePlus Battery Electric Low Floor Bus	Zero Emission	Bus	29'	New
Gillig	Gillig 29' Low Floor Bus with Cummins L9N Engine	Near-Zero Engine	Bus	34,500 - 35,000	New
Gillig	Gillig 35' ePlus Battery Electric Low Floor Bus	Zero Emission	Bus	35'	New
Gillig	Gillig 35' Low Floor Bus with Cummins L9N Engine	Near-Zero Engine	Bus	41,600	New
Gillig	Gillig 40' ePlus Battery Electric Low Floor Bus	Zero Emission	Bus	40'	New
Gillig	Gillig 40' Low Floor Bus with Cummins L9N Engine	Near-Zero Engine	Bus	41,600	New
GreenPower	GreenPower EV Star All-Electric Min-eBus	Zero Emission	Bus, Shuttle Bus	25'	New
GreenPower	GreenPower EV250 30' All-Electric Bus	Zero Emission	Bus, Transit Bus	30'	New
GreenPower	GreenPower EV350 40' All Electric Bus	Zero Emission	Bus, Transit Bus	> 33,000	New
GreenPower	GreenPower EV550 45' All-Electric Double Decker Transit Bus	Zero Emission	Bus, Transit Bus	45'	New
GreenPower	GreenPower SYNAPSE 72 All-Electric School Bus	Zero Emission	Bus, School Bus	> 29,000, 36.5'	New
GreenPower	GreenPower SYNAPSE All-Electric Shuttle Bus	Zero Emission	Bus, Shuttle Bus	26,001 - 33,000, 36.5'	New
Hino	Hino 195h Delivery Truck with Parallel Hybrid System	Hybrid	Delivery	14,001 - 19,500	New
Hino	Hino 195h-DualCab Delivery Truck with Parallel Hybrid System	Hybrid	Delivery	14,001 - 19,500	New
Kenworth	Kenworth T440 with 2018 Cummins L9N Engine	Near-Zero Engine	Terminal Truck	66,000	New
Kenworth	Kenworth T470 with Cummins-Westport L9N Engine	Near-Zero Engine	Truck, Utility	66,000	New
Kenworth	Kenworth T680 with Cummins-Westport L9N or ISX12N Engine	Near-Zero Engine	Truck	80,000	New
Kenworth	Kenworth T880 with Cummins-Westport ISX12N Engine	Near-Zero Engine	Refuse, Truck	80,000	New
Kenworth	Kenworth T880S with 2018 Cummins L9N Engine	Near-Zero Engine	Truck, Utility	66,000	New
Lightning Systems	Lightning Systems Ford Transit 350HD with LightningElectric Drivetrain	Zero Emission	Shuttle Bus, Truck	10,001 - 14,000	New
Mack Trucks	Mack Trucks Anthem with Cummins-Westport ISX12N Engine	Near-Zero Engine	Truck	> 33,000	New
Mack Trucks	Mack Trucks LR42RG with Cummins-Westport L9N Engine	Near-Zero Engine	Truck	43,000 - 68,000	New
Mack Trucks	Mack Trucks LR64RG with Cummins-Westport L9N Engine	Near-Zero Engine	Truck	43,000 - 68,000	New
Mack Trucks	Mack Trucks TERRAPRO 42RG with Cummins-Westport L9N Engine	Near-Zero Engine	Refuse, Truck	43,000 - 68,000	New
Mack Trucks	Mack Trucks TERRAPRO 64RG with Cummins-Westport L9N Engine	Near-Zero Engine	Refuse, Truck	43,000 - 68,000	New
Motiv Power Systems	Motiv EPIC 4 Dearborn on Ford E450 Platform - School Bus	Zero Emission	School Bus	14,001 - 16,000	New
Motiv Power Systems	Motiv EPIC 4 Dearborn on Ford E450 Platform - Shuttle Bus	Zero Emission	Shuttle Bus	14,001 - 19,500	New
Motiv Power Systems	Motiv EPIC 4 Dearborn on Ford E450 Platform - Truck	Zero Emission	Truck	14,001 - 19,500	New
Motiv Power Systems	Motiv Epic 6 on Ford F53 Platform Truck	Zero Emission	Truck	19,501 - 26,000	New
Motiv Power Systems	Motiv EPIC 6 on Ford F59 Platform Truck	Zero Emission	Truck	19,501-26,000, 26,001-33,000	New
New Flyer	New Flyer 60' Xcelsior All-Electric Transit Bus	Zero Emission	Bus, Transit Bus	60'	New
New Flyer	New Flyer Xcelsior 35' All-Electric Transit Bus	Zero Emission	Bus	42,540 - 44,312	New
New Flyer	New Flyer Xcelsior 40' All-Electric Transit Bus	Zero Emission	Bus, Transit Bus	42,540 - 44,312	New
New Flyer	New Flyer Xcelsior XN 60' Transit Bus with Cummins L9N Engine	Near-Zero Engine	Bus	60'	New
Nova Bus	Nova Bus 40' LFS CNG with Cummins-Westport L9N Engine	Near-Zero Engine	Bus	41,070	New
Orange EV	Orange EV T-Series 4x2 All-Electric Terminal Truck, Conversion of Kalmar Ottawa Truck, Extended Duty	Zero Emission	Terminal Truck	81,000	Conversion
Orange EV	Orange EV T-Series 4x2 All-Electric Terminal Truck, Conversion of Kalmar Ottawa, Standard Duty	Zero Emission	Truck	81,000	Conversion
Orange EV	Orange EV T-Series 4x2 All-Electric Terminal Truck, Extended Duty	Zero Emission	Terminal Truck	> 33,000	New
Orange EV	Orange EV T-Series 4x2 All-Electric Terminal Truck, Standard Duty	Zero Emission	Truck	81,000	New
Peterbilt	Peterbilt Model 337 with Cummins-Westport L9N Engine	Near-Zero Engine	Delivery, Truck, Utility	26,001 - 33,000	New
Peterbilt	Peterbilt Model 348 with Cummins-Westport L9N Engine	Near-Zero Engine	Truck	> 26,000	New
Peterbilt	Peterbilt Model 520 with Cummins-Westport ISX12N Engine	Near-Zero Engine	Refuse	> 33,000	New
Peterbilt	Peterbilt Model 520 with Cummins-Westport L9N Engine	Near-Zero Engine	Refuse, Truck	33,000 - 80,000	New

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Peterbilt	Peterbilt Model 567 with Cummins-Westport ISX12N Engine	Near-Zero Engine	Terminal Truck, Truck	> 33,000	New
Peterbilt	Peterbilt Model 567 with Cummins-Westport L9N Engine	Near-Zero Engine	Truck, Utility	> 33,000	New
Peterbilt	Peterbilt Model 579 with Cummins-Westport ISX12N Engine	Near-Zero Engine	Truck	> 33,000	New
Peterbilt	Peterbilt Model 579 with Cummins-Westport L9N Engine	Near-Zero Engine	Terminal Truck, Truck	> 33,000	New
Phoenix	Phoenix Motor Cars ZEUS 300 Shuttle Bus	Zero Emission	Bus, Shuttle Bus	10,001-14,000, 14,001-19,500	New
Phoenix	Phoenix Motor Cars ZEUS Electric Flat Bed Truck	Zero Emission	Truck	10,001-14,000, 14,001-19,500	New
Proterra	Proterra 35' Catalyst E2	Zero Emission	Bus, Transit Bus	35'	New
Proterra	Proterra 35' Catalyst FC	Zero Emission	Bus, Transit Bus	35'	New
Proterra	Proterra 35' Catalyst FC+	Zero Emission	Bus, Transit Bus	35'	New
Proterra	Proterra 35' Catalyst XR	Zero Emission	Bus, Transit Bus	35'	New
Proterra	Proterra 35' Catalyst XR+	Zero Emission	Bus	35 ft	New
Proterra	Proterra 40' Catalyst E2	Zero Emission	Bus, Transit Bus	40'	New
Proterra	Proterra 40' Catalyst E2 Max	Zero Emission	Bus, Transit Bus	> 33,000	New
Proterra	Proterra 40' Catalyst E2+	Zero Emission	Bus, Transit Bus	40'	New
Proterra	Proterra 40' Catalyst FC	Zero Emission	Bus, Transit Bus	40'	New
Proterra	Proterra 40' Catalyst FC+	Zero Emission	Bus, Transit Bus	40'	New
Proterra	Proterra 40' Catalyst XR	Zero Emission	Bus, Transit Bus	40'	New
Proterra	Proterra 40' Catalyst XR+	Zero Emission	Bus, Transit Bus	40'	New
Motiv Power Systems	Starcraft eQuest School Bus on EPIC 6 on Ford F59 Platform	Zero Emission	School Bus	19,501 - 26,000	New
Volvo	Volvo VNL with Cummins ISX12N Engine	Near-Zero Engine	Truck	> 33,000	New
Volvo	Volvo VNR with Cummins ISX12N Engine	Near-Zero Engine	Truck	> 33,000	New
Workhorse Group	Workhorse 4x2 E-100 All-Electric Step Van	Zero Emission	Delivery	19,500	New
XL Hybrids	XL Hybrids Ford F-150 with XLP Plug-In Hybrid Upfit	Hybrid	Truck, Utility	6,001 - 8,500	Conversion
XL Hybrids	XL Hybrids Ford Transit with XL3 Hybrid Upfit	Hybrid	Truck	8,501 - 10,000	Conversion
XL Hybrids	XL Hybrids GM 2500/3500 Van with XL3 Hybrid Upfit	Hybrid	Truck	8,501 - 10,000	Conversion
Zenith Motors	Zenith Motors Electric Cargo Van	Zero Emission	Delivery	10,001 - 14,000	New
Zenith Motors	Zenith Motors Electric Passenger Van	Zero Emission	Shuttle Bus	10,001 - 14,000	New
Zenith Motors	Zenith Motors Electric Step Van	Zero Emission	Delivery, Truck	22,000	New

On-Road (Medium/Heavy Duty, Terminal Tractors) – *IN DEVELOPMENT*

OEM	Website
Cummins AEOS	http://investor.cummins.com/phoenix.zhtml?c=112916&p=irol-newsArticle&ID=2297183
Nikola One	https://nikolamotor.com/
Tesla Semi	https://www.tesla.com/semi
Thor	https://www.thortrucks.com/
Freightliner	https://freightliner.com/e-mobility/
Kenworth	https://www.kenworth.com/news/news-releases/2018/january/t680-zecl/
Toyota	https://toyota.us/20Q2xLi
US Hybrid	https://ushybrid.com/
Wrightspeed	https://www.wrightspeed.com/
Efficient Drivetrains Inc	https://efficientdrivetrains.com/
Transpower	http://www.transpowerusa.com/
Daimler/Mitsubishi	https://www.daimler.com/innovation/case/electric/efuso-2.html

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Off-Road					
OEM	Model	Technology	Equipment Type	Website	Type
Caterpillar	D7E	Hybrid	Dozer	https://www.cat.com/en_US/products/new/equipment/dozers/medium-dozers/1000000223.html	New
Caterpillar	336 E H	Hybrid	Excavator	https://www.cat.com/en_IN/articles/solutions/gci/get-the-facts-onthenewcathybridexcavator.html	New
Caterpillar	300.9D VPS & HPU300	Zero Emission	Excavator	https://www.cat.com/en_US/products/new/equipment/excavators/mini-excavators/1000026500.html	New
Caterpillar	988 K XE	Hybrid	Wheel Loader	https://www.cat.com/en_US/products/new/equipment/wheel-loaders/large-wheel-loaders/1000033063.html	New
Komatsu	HB365LC-3	Hybrid	Excavator	https://www.komatsuamerica.com/equipment/excavators/large/hb365lc-3	New
John Deere	644K	Hybrid	Wheel Loader	https://www.deere.com/en/loaders/wheel-loaders/644k-hybrid-wheel-loader/	New
Dannar	MPS	Zero Emission	Multi-Purpose	https://www.dannar.us.com/	New
Siemens/Alstom	Coradia iLint	Zero Emission	Locomotive (passenger)	https://www.alstom.com/coradia-ilint-worlds-1st-hydrogen-powered-train	New

Airport Ground Support Equipment (GSE)					
OEM	Model	Technology	Equipment Type	Website	Type
Charlotte	Various	Zero Emission	Bag Tractor, Belt Loader, Tow, Lav, Pushback	https://www.charlatteamerica.com/products	New
Eagle	Various	Zero Emission	Tugs/Tows (various)	http://eagletugs.com/	New
Harlan	Various	Zero Emission	Tugs/Tows, Belt Loader	https://www.harlan-corp.com/HGlobal/HGllc/harlan/tractors/index.html	New
JBT Corp.	Various	Zero Emission	Cargo Loader, Passenger Step	https://www.jbtc.com/aerotech/innovation/green-solutions	New
JetPorter	Various	Zero Emission	Pushback	http://www.jetporter.com/	New
Lektro	Towbarless Tug	Zero Emission	Pushback	http://www.lektro.com/	New
Textron	Various	Zero Emission	Tug, Belt Loader	https://textronse.txtsv.com/vehicles?f%5B0%5D=field_fuel_taxonomy%3A69	New
TLD	TMX-150-e	Zero Emission	Pushback	https://www.tld-group.com/products/conventional-aircraft-tractors/tmx-150-e/	New

Cargo Handling					
OEM	Model	Technology	Equipment Type	Website	Type
Bendi - Landoll	Various	Zero Emission	Forklift	http://landoll.com/home/products/forklifts/bendi-forklifts/	New
BYD	Various	Zero Emission	Forklift	http://byd-forklifts.com/	New
CAT Lift Trucks	Various	Zero Emission	Forklift	https://www.catlifttruck.com/products/counterbalance-forklift-trucks/electric-powered-forklift-trucks	New
Corvus Energy	ESS	Hybrid	Rubber Tired Gantry	http://corvusenergy.com/	Conversion
Crown	Various	Zero Emission	Forklift	https://www.crown.com/en-us/forklifts.html	New
Dannar	MPS	Zero Emission	Multi-Purpose	https://www.dannar.us.com/	New
Drexel - Landoll	Various	Zero Emission	Forklift	http://landoll.com/home/products/forklifts/drexel-forklifts/	New
Hyster	Various	Zero Emission	Forklift	http://www.hyster.com/	New
Jungheinrich	Various	Zero Emission	Forklift	http://www.mcfa.com/en/jungheinrich	New
Kalmar	Various	Zero Emission	Forklift, AGV, Reach Stacker, RTG, Carrier	https://bit.ly/2xKDd26	New
Konecranes	Various	Hybrid	RTG, AGV, Reach Stacker	https://www.konecranes.com/	Both
Mitsubishi	Various	Zero Emission	Forklift	http://www.mcfa.com/en/mit	New
Raymond	Various	Zero Emission	Forklift, Sidepick, AGV	https://www.raymondcorp.com/	New
Siemens	Various	Hybrid	RTG, Carrier, Reach Stacker, AGV	https://sie.ag/2QYsiOV	New
Toyota Forklift	Various	Zero Emission	Forklift, AGV	https://www.toyotaforklift.com/lifts	New
Transpower	Various	Zero Emission	Reach Stacker, Various	http://www.transpowerusa.com/	Both
XL Lifts/Wiggins Lift	Various	Zero Emission	Forklift	http://xlliftsinc.com/product-category/new-equipment/	New
Yale	Various	Zero Emission	Forklift	http://www.yale.com/north-america/en-us/latest-innovations/alternative-power-solutions/	New