



一切源于可靠
It's All About Reliability



中国东风汽车工业进出口有限公司
湖北省武汉市经济技术开发区创业二路2号

f @Dongfeng Motor

🎵 @dfmotor

🌐 dongfengtrucks.en.alibaba.com

📍 China Dongfeng Motor Industry Imp.&Exp.Co.,Ltd.

📍 No.2,Chuangye 2nd Road,
Wuhan Economic&Technology Development Zone,
Wuhan,Hubei,China

✉ COVERSEAS@dfmc.com.cn
COVERSEAS@chinadfm.com

NEW ENERGY PRODUCTS

新能源产品手册

COMPANY PROFILE 公司简介

中国东风汽车进出口有限公司始建于1983年5月，是东风汽车集团有限公司的专业外贸公司。作为中国汽车行业第一个经国家批准成立的外贸公司，也是中国商务部管理的重点外贸企业之一。公司注册资金20000万元人民币，公司总部在武汉，在上海、武汉、深圳、俄罗斯等地设有全资和控股子公司，主要从事外贸、工业投资和物流管理，已经成为以进出口贸易为主，兼顾工业和物流业务的集团化公司。目前公司已将东风牌全系列商用车产品和风神、风行、风度等乘用车销往东南亚、中东、非洲、南美洲等100多个国家和地区。

东风商用车有限公司起源于1969年成立的第二汽车制造厂，公司以军车起家。历经50年的发展，公司逐步成长为国内中重卡商品线和业务最齐全的知名制造商，是东风集团旗下中重型商用车核心事业板块。东风商用车是中国领先的卡车品牌之一，公司拥有独立的研发和生产资源中心，主要业务涵盖中重型卡车、专用车、卡车关键总成、后市场事业等。产品覆盖中重型卡车，KX、KL、VL、KR、VR 五大商品平台覆盖8吨及以上全系列中重卡，为长途运输、区域配送、城际运输、建筑工程及采矿业服务，满足价值型和品质型的不同客户需求。

China Dongfeng Motor industry imp. & export Co. Ltd (Referred as "DFMIEC"), established in May 1983, is an international trade company affiliated to Dongfeng Motor group. DFMIEC is the first international trade company approved by China's government, which is also one of the most key enterprises governed by the ministry of Commerce of China. With the registered capital of 200 million RMB, DFMIEC's headquarter locates in Wuhan and has different branches spreading in worldwide, such as Shanghai, Wuhan, Shenzhen, Russia, etc. DFMIEC also has diverse business operating in China, including industrial investment and logistic. Currently, DFMIEC is selling a full series of commercial vehicle products and passenger vehicles branded by Fengxing, Fengdu and Aeolus in over 100 regions, such as ASEAN, Middle East and South Africa.

Dongfeng Commercial Vehicle Co. (referred as "DFCV") derives from the Second Automobile Factory, a truck manufacturer founded in 1969. The DFCV's first product was military vehicles, but with 50 years of development, DFCV has become a renowned manufacturer and a core business unit of Dongfeng Motor Group for mid & heavy duty trucks, which can produce a full series of commercial vehicles and the most diverse types of mid & heavy duty trucks. DFCV is a leading brand of trucks in China and has the most advanced R&D center for new products. Its business covers mid & heavy duty trucks, SPVs, key truck assemblies, aftermarket business, etc. Self-researched platforms such as KX, KL, VL, KR and VR, could support trucks for long-haul transportation, regional delivery, urban transportation, construction and mining, satisfying different consumer's demands.

R&D STRENGTH 研发实力



东风商用车技术中心是中国最具实力的商用车研发机构，能够模拟卡车面临的各种类型的道路以及天气条件进行试验。每一辆东风卡车在投放市场前，都须经历实验室检验，真实情况模拟等一系列极端严格的测试。

Dongfeng Commercial Vehicle Technology Center is the most powerful commercial vehicle R&D institution in China, capable of simulating various types of roads and weather conditions faced by trucks for testing. Every Dongfeng truck must pass a series of extremely strict tests such as laboratory testing and real situation simulation before being put on the market.



正面碰撞试验
Frontal crash test



涉水试验
Wading test



颠簸路面
Bumpy road

1969

Established in 1969
创立于1969年



DONGFENG

250,000

Annual sales milestone
年销售里程碑

5

5 major product platforms
5大商品平台



高环道路
Ring Expressway



鹅卵石路面
Cobbled road



高温试验 (吐鲁番, 70°C)
High temperature (Turpan, 70 °C)



高寒试验 (漠河, -35°C)
Extreme cold (Mohe, -35 °C)

100+

Export to countries & regions
销往国家和地区



MANUFACTURING STRENGTH 制造实力

东风商用车采用行业最先进制造技术和装备，最精益的生产方式。现已形成25万辆中重型卡车、12万台发动机、6万台变速箱以及相应的车身、车架、车桥等核心总成和毛坯制造能力。装备精良、工艺先进、高效安全、节能环保，大量采用机器人进行模块系统化操作，保障装配质量。

Dongfeng commercial vehicle adopts the most advanced manufacturing technology and equipment in the industry and the leanest production mode. Now, it has developed the core assembly and blank manufacturing capacity of 250000 mid & heavy duty trucks, 120000 engines, 60000 gearboxes and corresponding body, frame, axle, etc. Focusing on high efficiency, safety, energy conservation and environmental protection, with sophisticated equipment, advanced technology, a large number of robots are used for modular systematic operation to ensure assembly quality.



环保高效的涂装车间
Environmental and efficient painting workshop



工艺一流的装配车间
First-class assembly workshop



柔性化工装设备，智能制造
Flexible tooling
Intelligent manufacturing



装备精良的焊接车间
Well-equipped welding workshop

ENTERPRISE STRENGTH 企业实力



注册资金92亿元;
股比55%:45%(DFG:VOLVO)
2万名员工
Registered capital of 9.2 billion yuan;
Share proportion:
55% : 45% (DFG: VOLVO)
20000 employees



年生产能力25万辆
产品覆盖中重型商用车，动力总成
Annual production capacity of 250000 vehicles
Products cover mid & heavy commercial vehicle and powertrains



东风汽车
2021年《财富》世界500强第85名
DONGFENG
Ranked 85th on Fortune Global 500 in 2021



东风天龙、东风天锦新能源汽车试验
Dongfeng Kinland & Dongfeng Kingrun
New Energy Vehicle Experiment

18

项台架测试
18 bench tests

15

台试验车
15 test vehicles

8

个月整车可靠性试验
8-month vehicle reliability test

58

次质量评审把关
58 quality reviews & checks

20

次门式验收
20 door acceptances checks

1.1

亿公里累计行驶里程
110 million kilometers of
accumulated driving range

NEW ENERGY VEHICLE MODELS 新能源车产品型谱

东风商用车新能源技术路线

东风商用车新能源主要以纯电动、氢燃料等技术路线为主，主要车型覆盖牵引车、自卸车、专用车（环卫、搅拌）等。

Dongfeng commercial vehicle new energy technical routes

Dongfeng new energy commercial vehicle are mainly BEV, FCV and other technical routes, the main models cover tractors, dump trucks, special trucks (sanitation, mixer, etc.) and so on.

细分市场 Market segments >	牵引 Tractor	自卸 Dumper	专用 Special truck
纯电动(BEV) (充电/充换一体) Battery Electric Vehicle (BEV) (Charging/battery swapping integrated)			
氢燃料(FCV) Fuel Cell Vehicle (FCV)			

SCENARIO-BASED PRODUCT SOLUTIONS 新能源车场景化商品解决方案

重卡电动化主要应用场景
Main application scenarios for electrification of heavy trucks

相对封闭环境
Relatively enclosed environment



厂内运输
 钢厂、电厂等高污染型企业面临“降排放”需求，环保评级与限产挂钩，高污染行业厂内运输电动化已经成为必然选择。
 In-plant transportation
 High polluting enterprises such as steel mills and power plants face the need for "emission reduction". Environmental rating is linked to production restriction, and electrification of in-plant transportation in high pollution industries has become inevitable.



港口集装箱转运
 “绿色港口、智慧港口”对新能源重卡的需求逐步增长。
 Port container transportation
 Under the call for "green ports and smart ports", the demand of new energy heavy trucks is increasing.



矿区资源运输
 政策与经济性双轮驱动，推动矿区资源运输电动化。
 Resource transportation in mining areas
 Policy and economics are both driving the electrification of resource transportation in mining areas.

短途倒运
Short-haul transportation



资源型倒短运输
 政策与经济性双轮驱动，推动资源型倒短运输电动化。
 Resource short-haul transportation
 Policy and economics are both driving the electrification of resource short-haul transportation.



城市建设：渣土、混凝土运输
 助力城市打赢“蓝天保卫战”，地方支持政策，路权驱动。
 Urban construction: transportation of waste soil and concrete
 Supported by local policy and driven by road right, the city will win "Blue Sky Defense".



环卫作业
 环保政策驱动：电动环卫车作为一种清洁工具，本身没有污染，已经被环卫部门认可。
 Sanitation work
 Environmental policy-driven: As a cleaning tool, electric sanitation vehicles have no pollution and have been recognized by the sanitation department.



PRODUCT ADVANTAGES 产品优势

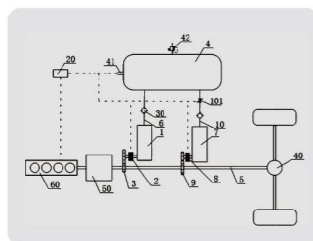


更节能

国内先进的完全解耦制动能量回收技术，优先电机制动，实现能量回收最大化；单次制动最多回收60%能量，综合续航提升20%
自主研发整车控制器，系统级调校，协调各子系统单元发挥最佳状态

More energy-efficient

With advanced fully-decoupled braking energy recovery technology in China, motor braking was prioritizing to achieve maximum energy recovery; Single braking can recover up to 60% of energy and increase overall endurance by 20% With independently developed vehicle controller and system tuning, various subsystem units were coordinated to achieve optimal performance.



优先电机制动，实现制动能量回收最大化
Prioritize motor braking, maximize braking energy recovery



电机工作在最佳经济区
The motor operates in the optimal economic zone



更轻盈

25项轻量化技术，实现整车降重800kg

Lighter

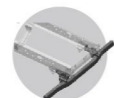
25 light-weighting technologies achieve a weight reduction of 800kg for the vehicle.



电机
Motor



分体式悬架
Split suspension



轻量化下防护
Lightweight protection



轻量化制动器
Lightweight brake



变速箱
Transmission



轻量化鞍座
Lightweight fifth wheels



轻量化下踏步托架
Lightweight foot board bracket



轻量化车轮
Lightweight wheel

结构降重 科学设计，降重不降质
材料降重 高强度轻量化材质应用，降重提质

Scientific design for structural weight reduction with quality assurance
High-strength, lightweight material application for material weight reduction with quality improvement



更可靠

52年技术积淀，基于成熟基础车开发，更可靠
一流三电总成：宁德时代高能量密度液冷电池、法士特变速箱、东风德纳车桥，可靠供应体系，保障高端品质

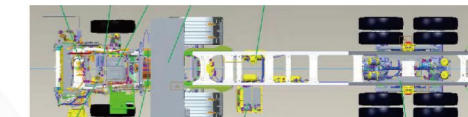
More reliable

Based on mature vehicle development, 52 years of technology accumulation makes it more reliable.
First-class EIC powertrain: CATL high energy density liquid-cooling battery, Fast transmission, Dongfeng Dana axle. The supply system is reliable to ensure high-end quality.

一流总成资源 First-class powertrain resources



成熟可靠底盘 Sophisticated and reliable chassis



更舒适

全新的东风天龙KL、天锦KR驾驶室，40多项人性化和舒适性体验提升；AMT自动换挡，选配270度全景影像，更佳科技体验

More comfortable

The brand-new Dongfeng Kinland and Kingrun have enhanced over 40 humanized and comfortable experiences in cabs; AMT automatic shift with optional 270°panoramic image for better technology experience



选配 Optional



更省心

针对新能源车性能疑虑，补能等难题提供一站式解决方案，购车更舒心

More worry-free

One-stop solutions to problems such as performance doubts and energy replenishment is provided.

试用体验

结合实际工况车辆试用

Trial experience

Combined with actual operating conditions

多种销售模式

整车销售/车电分离销售

Multiple sales models

Vehicle sales / separate sales of vehicle and battery

基础设施配套

充电桩、换电站建设方案
充电桩、换电站租赁方案

Infrastructure and supporting facilities

Construction scheme of charging station and battery swapping station
Leasing scheme of charging station and battery swapping station

APPLICATION SCENARIOS
应用场景

砂石料、矿产资源等公路运输
6X4充换电一体牵引车

Highway transportation of sandy gravel materials, mineral resources, etc.
6X4 charging and swapping integrated tractor



自重轻 Light weight

◎结构优化设计，标载版低至10.4T；每趟多拉一吨货

Structural optimization design, with standard load version as 10.4T; One more ton of cargo per trip

可靠 Reliability

◎成熟传统总成+一流三电资源+最优系统匹配，8个月整车可靠性验证，大量严苛试验，确保高端品质

Sophisticated traditional assembly + first-class EIC resources + optimal system matching; 8-month vehicle reliability verification and extensive rigorous testing are just to ensure high-end quality.

节能经济 Energy saving economy

◎多态载荷标定+低电耗系统匹配+最优制动能量回收策略，电耗更低，续航更长，经济性更好。

Multi-state load calibration + low power consumption system matching + optimal braking energy recovery strategy, with lower power consumption, longer endurance, better economic efficiency.

舒适 Comfort

◎东风天龙KL平台，高顶双卧，噪音小
◎全浮式前后悬气囊减震、电动空调与暖风
◎AMT自动换挡，EBS、ESC、LDWS、选配270度全景影像
◎更佳科技驾乘体验

Dongfeng Kinland platform, high ceiling with double sleepers and low noise
Full-float front and rear suspension gasbag-type shock absorber, electric air conditioning, and heating
AMT automatic shift, EBS, ESC, LDWS, optional 270°panoramic image
Better technology driving experience

产品技术参数 Product technical parameters

	车型公告 Model	DFH4250DBEV	DFH4250DBEV2	DFH4250DBEV2
整车参数 Vehicle parameters	驾驶室 Driver's cab	D320 标顶(Standard roof)、D320 高顶(High roof)		
	轴距 Wheelbase	3800+1350		
	整车外形尺寸 Overall dimensions of the vehicle	9750×2550×3450		
	悬架 Suspension	2/3	3/12	3/13
	总质量 GVW	49T	49T	49T
	后桥 Rear axle	DF440 单减(Single reduction)	DF485 单减(Single reduction)	DF300H 轮减(Hub reduction)
	主减速比 Main reduction ratio	4.1	6.33	5.92
动力参数 Power parameters	电机型号 Motor model	苏州众联 (Suzhou SNC) TZ420XS360K01		
	功率 Power	360kw (490ps)		
	变速箱 Transmission	法士特 (Fast) 6 档 AMT/6E240AMT		
	速比 Speed ratio	8.507/1		
性能 Performance	电池系统 Battery system	CATL 磷酸铁锂(LFP), 282kWh、350 kWh		
	补能方式 Energy replenishment	充换电一体 Charging & swapping integrated		
	最大爬坡度 Maximum climbable gradient	25%		
	充电时间 Charging time	双枪直流(Dual gun DC), < 1.5h; 换电(Battery swapping)<6min		
标载续航 Standard load endurance	≈ 130-170km (等速法 Isokinetic method) (SOC=80%, 特殊工况以实际使用为准 Exceptional cases are subject to actual situation)			

APPLICATION SCENARIOS
应用场景

厂区、矿区运输
6X4充电牵引车

Transportation in factory and mining areas
6X4 electric tractor



环保 Environmental protection

◎零排放，无污染，符合政策要求，助力企业环评升级，污染预警天气也可正常生产，减少限产损失

Zero emissions, pollution-free, complying with policy requirements, assisting enterprises in upgrading their environmental impact assessments, enabling normal production in pollution warning weather, and reducing production losses due to production restrictions.

动力强 Strong power

◎最大功率达360kw，重载版配备东风轮减桥，满足车辆低速大扭矩和频繁起停作业

The maximum power reaches 360kw, and the heavy-duty version is equipped with a Dongfeng hub reduction axle to meet the requirements of low speed, high torque, and frequent starting and stopping operations of the vehicle.

承载能力强 Strong load-bearing capacity

◎3层大梁，加强型板簧，最大承载120T，满足重载需求

高效 Efficient

◎双枪直流快速充电，充电时间低至40分钟（20-90%）换电5分钟，满足24小时运营需求，效率更高

Dual gun DC fast charging, with charging time as low as 40 minutes (20-90%) and 5 minutes of battery swapping to meet 24-hour operational needs, serves higher efficiency.

工况适应性强 Strong adaptability to working conditions

◎三电防护等级2IP67，满足淋水冲洗及高粉尘用车环境

The Ingress Protection Rating of EIC system is 2IP67, which meets the requirements of water flushing and high dust level driving environments.

3-layer beam and reinforced leaf spring, with a maximum load capacity of 120T, meet heavy-duty requirements.

产品技术参数 Product technical parameters

	车型公告	Model	DFH4250DBEV1	DFH4250DBEV4
整车参数 Vehicle parameters	驾驶室	Driver's cab	D320 标顶(Standard roof)、D320 高顶(High roof)	
	轴距	Wheelbase	3800+1350	
	整车外形尺寸	Overall dimensions of the vehicle	9750×2550×3450	
	悬架	Suspension	2/3	3/13
	总质量	GVW	49T	49T
	后桥	Rear axle	DF440 单减(Single reduction)	DF300H 轮减(Hub reduction)
	主减速比	Main reduction ratio	4.1	5.92
动力参数 Power parameters	电机型号	Motor model	苏州众联 (Suzhou SNC)TZ420XS360K01	
	功率	Power	360kw (490ps)	
	变速箱	Transmission	法士特(Fast)6档AMT/6E240AMT	
	速比	Speed ratio	8.507/1	
性能 Performance	电池系统	Battery system	CATL 磷酸铁锂(LFP), 282kWh、350kWh、423kWh	CATL 磷酸铁锂(LFP), 350kWh、423kWh
	补能方式	Energy replenishment	充电 Battery charging	
	最大爬坡度	Maximum climbable gradient	25%	
	充电时间	Charging time	双枪直流(Dual gun DC), < 1.5h	
	标载续航	Standard load endurance	≈ 130-170km (等速法 Isokinetic method) (SOC=80%, 特殊工况以实际使用为准) Exceptional cases are subject to actual situation)	≈ 170-200km (等速法 Isokinetic method) (SOC=80%, 特殊工况以实际使用为准) Exceptional cases are subject to actual situation)

APPLICATION SCENARIOS
应用场景

港口运输
4X2充换电一体牵引车

Port transportation
4X2 charging and swapping integrated tractor



低成本 Low cost

©支持车电分离方式采购，购车成本骤降，基本与传统燃油车持平；多态载荷标定+低电耗系统匹配+最优制动能量回收策略，电耗低至1.6kwh/km，经济性更好

Supporting the separated purchase of vehicles and battery makes purchasing costs sharply decrease, which is basically on par with traditional fuel vehicles; Multi-state load calibration + low power consumption system matching + optimal braking energy recovery strategy, with power consumption as low as 1.6kwh/km, serve better economic efficiency.

高效 Efficient

©双枪大电量极速充电，充电等待时间低至40分钟(20-90%)，效率更高;换电仅需5分钟，大幅提升运行效率

Dual gun high power and fast charging, with charging time as low as 40 minutes (20-90%), resulting in higher efficiency; Battery swapping takes only 5 minutes, greatly improving operational efficiency.

可靠 Reliable

©成熟传统总成+一流三电资源+ 最优系统匹配，3台试验样车，8个月整车可靠性验证，大量严苛试验，确保高端品质

Sophisticated traditional assembly + first-class EIC resources + optimal system matching, 3 test samples, 8-month vehicle reliability verification, and a large number of rigorous tests to ensure high-end quality.

灵活 Flexible

©短轴距，转弯半径小，狭窄场地行进、倒退更加灵活自如，满足港口内运输工况

Short wheelbase, small turning radius and more flexible movement and reverse in narrow areas meet the transportation conditions in the port.

产品技术参数 Product technical parameters

	车型公告	Model	DFH4180DSEV	DFH4180DSEV1
整车参数 Vehicle parameters	驾驶室	Driver's cab	D320 标顶(Standard roof)	
	轴距	Wheelbase	4200	
	悬架	Suspension	2/9+3	
	总质量	GVW	42T	
	后桥	Rear axle	DF300H 轮减(Hub reduction) / DF485 单减(Single reduction)	
	主减速比	Main reduction ratio	5.92	
动力参数 Power parameters	电机型号	Motor model	苏州众联(Suzhou SNC) TZ420XS360K01	
	功率	Power	360kw (490ps)	
	变速箱	Transmission	法士特(Fast) 6 档AMT/6E240AMT	
	速比	Speed ratio	8.507/1	
性能 Performance	电池系统	Battery system	CATL 磷酸铁锂(LFP), 282kWh	CATL 磷酸铁锂(LFP), 141kWh
	补能方式	Energy replenishment	充换电一体 Charging & swapping integrated	
	最大爬坡度	Maximum climbable gradient	25%	
	充电时间	Charging time	双枪直流(Dual gun DC), < 1.5h; 换电(Battery swapping)<6min	
	标载续航	Standard load endurance	≈150km (等速法 Isokinetic method) (SOC=80%, 特殊工况以实际使用为准) Exceptional cases are subject to actual situation)	≈70km (等速法 Isokinetic method) (SOC=80%, 特殊工况以实际使用为准) Exceptional cases are subject to actual situation)

APPLICATION SCENARIOS
应用场景

城建渣土、矿区运输
8X4重载、标载自卸车

Waste soil of urban construction and mining area transportation
8X4 heavy-duty, standard load dump truck



产品技术参数 Product technical parameters				
整车参数 Vehicle parameters	车型公告	Model	DFH3310AEV	DFH3310ASEV2
	驾驶室	Driver's cab	D320-KC 标准顶(Standard roof)	
	轴距	Wheelbase	2050+3000/3800+1350	
	总质量	GVW	31T	
	车架	Frame	300x90x8+4	
	后桥/速比	Rear axle speed ratio	DF300H	
动力参数 Power parameters	品牌型号	Brand model	上海众联 (Shanghai SNC) TZ420XS360K01	
	功率, 额定/最大	Power Rated/maximum	250kw(340ps)/360kw (490ps)	
	变速箱	Transmission	法士特 (Fast) 6档AMT/6E240AMT	
	最高/低档速比	High/low gear ratio	8.507/1	
	电池系统	Battery system	CATL, 423kWh	CATL, 282kWh
性能参数 Performance	补能方式	Energy replenishment	充电 Battery charging	充换电一体 Charging & swapping integrated
	充电时间	Charging time	双枪直流(Dual gun DC), < 1.5h	
推荐厢长 Recommended bucket length (m)			5.6、5.8、6.5	5.6、5.8、6.5

产品技术参数 Product technical parameters				
整车参数 Vehicle parameters	车型公告	Model	DFH3310AEV1	DFH3310ASEV/DFH3310ASEV1
	驾驶室	Driver's cab	D320-KC 标准顶(Standard roof)	
	轴距	Wheelbase	2050+4000/4600+1350	
	总质量	GVW	31T	
	车架	Frame	300x90x8+8	
	后桥/速比	Rear axle speed ratio	HD300/6.73	
动力参数 Power parameters	品牌型号	Brand model	上海众联 (Shanghai SNC) TZ420XS360K01	
	功率, 额定/最大	Power Rated/maximum	250kw(340ps)/360kw (490ps)	
	变速箱	Transmission	法士特 (Fast) 6档AMT/6E240AMT	
	最高/低档速比	High/low gear ratio	8.507/1	
	电池系统	Battery system	CATL, 350kWh	CATL, 282、350kWh
性能参数 Performance	补能方式	Energy replenishment	充电 Battery charging	充换电一体 Charging & swapping integrated
	充电时间	Charging time	双枪直流(Dual gun DC), < 1.5h	
推荐厢长 Recommended bucket length (m)			6.5、6.8、7.4、7.6	6.5、6.8、7.4、7.6

APPLICATION SCENARIOS
应用场景



城建渣土、市政工程运输
6X4标载、重载自卸车

Waste soil of urban construction and municipal engineering transportation
6X4 standard load, heavy-duty dump truck



产品技术参数 Product technical parameters

		车型公告	Model	DFH3250DEV	DFH3250DSEV
整车参数 Vehicle parameters	驾驶室	Driver's cab	D320-KC排半标准顶(Half-cab standard roof)		
	轴距	Wheelbase	4700+1350		
	总质量	GVW	25T		
	车架	Frame	300x90x8+8		
	后桥/速比	Rear axle speed ratio	DF300H、HD300轮减(Hub reduction)/5.26		
	板簧	Leaf spring	10/13		
动力参数 Power parameters	品牌型号	Brand model	上海众联 (Shanghai SNC) TZ420XS360K01		
	功率, 额定/最大	Power Rated/maximum	250kw(340ps)/360kw (490ps)		
	变速箱	Transmission	法士特 (Fast) 6档AMT/6E240AMT		
	速比	Speed ratio	8.507/1		
	取力器接口	power-take-off interface	花键 Spline		
性能参数 Performance	电池系统	Battery system	CATL, 423kWh	CATL, 350kWh	
	补能方式	Energy replenishment	充电/充换电一体	Battery charging / charging & swapping integrated	充换电一体 Charging & swapping integrated
	充电时间	Charging time	双枪直流(Dual gun DC), < 1.5h		
推荐厢长 Recommended bucket length (m)		5.4、5.6			

产品技术参数 Product technical parameters

		车型公告	Model	DFH3250DEV1	DFH3250DSEV
整车参数 Vehicle parameters	驾驶室	Driver's cab	D320-KC排半标准顶(Half-cab standard roof)		
	轴距	Wheelbase	4700/5400+1350	5400+1350	
	总质量	GVW	25T		
	车架	Frame	300x90x8+8+4+10		
	后桥/速比	Rear axle speed ratio	DF300H、HD300轮减(Hub reduction)/5.26		
	板簧	Leaf spring	10/13		
动力参数 Power parameters	品牌型号	Brand model	上海众联 (Shanghai SNC) TZ420XS360K01		
	功率, 额定/最大	Power Rated/maximum	250kw(340ps)/360kw (490ps)		
	变速箱	Transmission	法士特 (Fast) 6档AMT/6E240AMT		
	速比	Speed ratio	8.507/1		
	取力器接口	Power take-off interface	花键 Spline		
性能参数 Performance	电池系统	Battery system	CATL, 350kWh	CATL, 350kWh	
	补能方式	Energy replenishment	充电 Battery charging	充换电一体 Charging & swapping integrated	
	充电时间	Charging time	双枪直流(Dual gun DC), < 1.5h		
推荐厢长 Recommended bucket length (m)		5.6、5.8、6.2、6.5			

APPLICATION SCENARIOS
应用场景

城市建设、市政路桥
8X4纯电搅拌车

Urban construction, municipal roads and bridges
8X4 electric agitating lorry



自重轻 Light weight

◎轻量化设计，底盘整备质量仅11.5吨
It is lightweight design and chassis curb mass is only 11.5 tons.

环保 Environmental protection

◎零排放，无路权限制
Zero emissions, no right-of-way restrictions

节能高效 Energy saving and efficiency

◎多载荷状态能耗精准标定，低能耗系统匹配，高效能量回收策略，超级省电，满足一天作业需求；补能快：大电流双枪极速充电，快速补能，充满电时间仅需1.5-2小时

Accurate calibration of energy consumption in multiple load states, matching of low energy systems and efficient energy recovery strategy result in excellent power saving to meet the needs of one day operation; Fast charging: High-current dual gun fast charging with a full charging time of only 1.5 to 2 hours.

舒适 Comfort

◎D560驾驶室，噪音小；全浮式前后悬架减震电动空调与暖风、自动换挡，驾乘体验更舒适

D560 cab, low noise; Fully-float front and rear suspension gasbag-type shock absorber, electric air conditioning, heating, and automatic gear shifting provide a more comfortable driving experience.



产品技术参数 Product technical parameters

	车型公告 Model	DFH1310BEV 充电版(Charging version)	DFH1310ESEV 换电版(Battery-swapping version)
基本配置参数 Basic configuration parameters	驾驶室 Driver's cab	D560 标准顶(Standard roof)	D560 标准顶(Standard roof)
	整车外形尺寸 Overall dimension	8620/8720/8695×2550×3050	9000×2500×3450
	驱动形式 Drive form	8×4	8×4
	总质量 GVW	31000	31000
	整备质量 Curb mass	11500	11100
	轴距 Wheelbase	1850+3000+1350	1850+3000+1350
	车架 Frame	850 等宽(Same width), 280×80×8+4	850 等宽(Same width), 280×80×8+4
	板簧 Leaf spring	3/3/13	3/3/13
	轮胎 Tire	11R22.5 18PR	11R22.5 18PR
	整车性能 Performance	续航里程 Driving range	172 (等速法 Isokinetic method)
充电时间 Charging time		2H	1.5H
最高车速 Maximum speed		89	89
最大爬坡度 Maximum climbable gradient		30%	30%
三电系统 EIC system	电池 Battery	CATL 磷酸铁锂(LFP), 电池包后背式(BBP), 350kwh	CATL 磷酸铁锂(LFP), 电池包后背式(BBP), 282kwh
	驱动系统 Drive system	永磁同步电机(PMSM); 6AMT	永磁同步电机(PMSM); 6AMT
	电机功率 Motor power	250/360	250/360
	电机扭矩 Motor torque	1200/2400	1200/2400
其它 Other	空调 Air-conditioning	电动空调压缩机, 电 PTC 加热器(Electric air-conditioner compressor, electric PTC heater)	
		T-BOX	有 Exist

APPLICATION SCENARIOS
应用场景

港口、砂石料等运输
6X4氢燃料电池牵引车

Port transportation and transportation of sandy gravel materials and other materials
6X4 Hydrogen fuel cell tractor



环保 Environmental protection

◎零排放，完全满足国标，燃料电池汽车示范应用最佳选择

Zero emissions, fully meeting national standards and the best choice for fuel cell vehicle demonstration applications

高效 Efficiency

◎加氢快(时长5-10分钟)，使用习惯与传统车相同

Fast hydrogenation (5-10 minutes), with the same usage habits as traditional cars

续航长 Long endurance

◎大容积氢系统，节能控制，综合工况续驶里程达400km

Large volume hydrogen system, energy-saving control, comprehensive driving range up to 400km

舒适 Comfort

◎D560驾驶室，噪音小;全浮式前后悬气囊减震电动空调与暖风、自动换挡，驾乘体验更舒适

D560 cab, low noise; Fully-float front and rear suspension gasbag-type shock absorber, electric air conditioning, heating, and automatic gear shifting provide a more comfortable driving experience.

产品技术参数 Product technical parameters

底盘基础参数 Basic parameters of chassis	车型公告	Model	EQ4250GFCEV2
	驾驶室	Driver's cab	D320 高顶(High roof)
	轴距	Wheelbase	3800+1350
	整备质量	Curb mass	11.3t
	悬架	Suspension	2/3
燃料电池系统 Fuel cell system	总质量	GVW	49t
	后桥，速比	Rear axle, Speed ratio	DF440, 4.1
	系统厂家(型号)	System manufacturer (model)	国氢科技(SFCC) SHET
	额定/峰值功率	Rated/ peak power	121/123kW
动力系统 Dynamical system	系统寿命	System life	≥ 10000h
	低温启动温度	Cold start temperature	-25°C
	电机型号	Motor model	苏州众联(Suzhou SNC) TZ420XS320K02
	额定/峰值功率	Rated/ peak power	180/320kw
动力电池 Power battery	变速箱	Gearbox	法士特(Fast) 6档AMT/6E240AMT
	最高/低档速比	High/low gear ratio	8.507/1
	电池厂商	Battery manufacturer	盟固利 MGL
储氢系统 Hydrogen storage system	技术路线	Technology route	高倍率锰酸锂 High rate LiMnO
	电池容量	Battery capacity	100.9Kwh
	储氢容量	Hydrogen storage capacity	1680L
	压强	Pressure	35MPa
	储氢量	Hydrogen storage	40.3kg

MUNICIPAL SANITATION PRODUCTS 市政环卫产品

东风商用车与改装合作伙伴，共同赋能商品价值，打造可靠商品应用。

Dongfeng Commercial Vehicle and its modification partners work together to empower product value and create reliable product applications.

道路清洁系列 Road cleaning series



垃圾集运系列 Garbage collection and transportation series



电量系列化 Electricity serialization

电量210-334kwh
满足不同工况续航需求
Power consumption of 210-334kwh meeting the range requirements of different operating conditions

电池布置多样化 Battery layout diversification

电池后背、电池侧挂、电池中置
Battery back-mounted, battery side-mounted, battery center-mounted



轴距系列化 Wheelbase serialization

轴距4500、5000、5300
满足不同改装需求
Wheelbase 4500, 5000, 5300 meeting different modification needs

能量多样化 Energy diversification

纯电动、氢燃料
Electric, Hydrogen fuel



轴数系列化 Axis number serialization

4×2, 6×4, 8×4

驱动形式多样化 Diversified drive forms

传统桥、电驱桥
Traditional axle and electric drive axle

STEEL PLANT APPLICATION CASES 钢厂应用案例

东风商用车直击货运痛点，为钢厂场景定制可靠的新能源解决方案，在武汉、邯郸、唐山等地带来可靠的新能源技术应用，为用户带来可靠的场景定制化商品矩阵，助力钢厂建设。

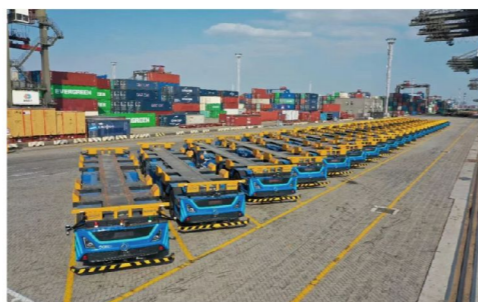
Dongfeng Commercial Vehicle directly targets the vital issues of freight transportation, customizing reliable new energy solutions for steel plant scenarios, bringing reliable new energy technology applications in Wuhan, Handan, Tangshan and other areas, providing users with reliable customized product matrices, thus assisting steel plant construction.



APPLICATION CASES OF PORT TRANSPORTATION SCENARIOS 港口运输场景应用案例

2020年12月东风公司、中远海运、中国移动签署《商业运营合作意向书》并联合重磅发布：“智慧港口2.0”启动商业化运营!“5G+无人驾驶赋能智慧港口”在厦门远海码头由试验阶段进入了落地使用阶段，实现了5G智慧港口全场景示范应用。依托现代化的信息技术，使得绿色港口及智慧交通呈现出健康的良性发展态势，实现港口供应链上各种资源和各个参与方之间无缝连接与协调联动。

In December 2020, Dongfeng, COSCO Shipping and China Mobile signed the Letter of Intent for Cooperation in Commercial Operation and jointly released: "Smart Port 2.0" to start commercial operation! "5G+Driverless Enabling Smart Port" has entered the service stage from the test stage in Xiamen Ocean Gate Terminal, realizing the full scene demonstration application of 5G Smart Port. Relying on modern information technology, green ports and smart transportation have shown a healthy and positive development trend, achieving seamless connection and coordination among various resources and participants in the port supply chain.



APPLICATION CASES OF MUNICIPAL SANITATION SCENARIOS 市政环卫场景应用案例

2020年12月东风公司、中远海运、中国移动签署《商业运营合作意向书》2021年11月5日-10日，第四届中国进口博览会在上海国家会展中心举行。上海绿化市容管理部门对标最高标准、最好水平，聚焦国家会展中心周边等重点区域，以道路“席地而坐”为目标全面开展环卫工作，确保“路面见本色”。

由东风商用车和盈峰环境联合推出的、“零”排放、无污染的新能源东风商用车环卫车辆，成为本次进博会市容环境保障的中坚力量。

In December 2020, Dongfeng Company, COSCO Shipping, and China Mobile signed the Commercial Operation Cooperation Agreement. From November 5th to 10th, 2021, the Fourth China International Import Expo was held at the Shanghai National Exhibition and Convention Center. Shanghai Landscaping & City Appearance Administrative Bureau benchmarks the highest standards and best levels, focusing on key areas around the National Exhibition and Convention Center, and comprehensively carrying out environmental sanitation work with the goal of "sitting on the ground" on roads, to ensure that "the road surface shows its true colors".



The "zero emission, pollution-free" new energy Dongfeng commercial vehicle sanitation vehicle jointly launched by Dongfeng Commercial Vehicle and INFORE ENVIRO has become the backbone of the city's appearance and environmental protection at this CIIE.

APPLICATION CASES OF RESOURCE SHORT-HAUL TRANSPORTATION SCENARIOS 资源短倒场景应用案例

2022年6月10日，“绿色转型·合作共赢”东风商用车有限公司与武汉钢铁有限公司战略合作暨武汉西马钢铁物流有限公司50辆新能源车辆交付仪式在武汉举行。此次采购东风商用车新能源车，是武钢有限建立全方位、全流程“绿色化、电动化、智能化”物流体系，全力打造成为省内标杆、行业一流绿色物流示范区的有力举措。这批零排放、高效能新能源重型卡车在钢铁运输方面的全面应用，将为武钢有限加快构建绿色清洁、智能高效的绿色运力体系提供强大助力。

On June 10, 2022, the "Green Transition • Win-Win Cooperation" strategic cooperation between Dongfeng Commercial Vehicle Co. and Wuhan Iron and Steel Co., Ltd.(referred as WISCO) and the delivery ceremony of 50 new energy vehicles of Wuhan Cyma Iron and Steel Logistics Co., Ltd. were held in Wuhan. The purchase of new energy vehicle of Dongfeng commercial vehicles is a powerful measure taken by WISCO to establish a comprehensive and full process "green, electrification and intelligence" logistics system and strive to become a benchmark in the province and a first-class green logistics demonstration area in the industry. The comprehensive application of zero emission, high-efficiency new energy heavy-duty trucks in steel transportation will provide strong support for WISCO to accelerate the construction of a green, clean, intelligent, and efficient green transportation capacity system.

客户评价 Customer testimonials

表现稳重、加速性能好、提速快、续驶里程满足使用要求，运输效率和燃油车无差异。国家对车辆排放要求越来越高，国五升国六已给我带来了很大困扰，下一次排放升级不知道何时又会到来，电动重卡“零排放，无污染”，不惧车辆任何排放升级要求。

It has stable performance, fast acceleration, and sufficient range to meet usage requirements, with no difference in transportation efficiency compared to fuel vehicles. The country's increasingly high requirements for vehicle emissions have caused me great trouble. The next emission upgrade launching date is uncertain. Electric heavy-duty trucks have zero emissions and no pollution, and we are not afraid of any emission upgrade requirements for vehicles.

APPLICATION CASE OF HYDROGEN FUEL CELL TRACTOR 氢燃料电池牵引车应用案例

2021年8月14日，全球首条百辆级49吨市场化运营氢能重卡运输线——保定市至雄安新区的“容易路”氢能重卡示范线在保定举行投运仪式。东风天龙KL平台打造的燃料电池牵引车批量交付，为保定实现碳达峰、碳中和战略目标注入可靠。

On August 14, 2021, The world's first over-100-vehicle level, 49-ton hydrogen-energy heavy truck transportation line, the "Easy Road" hydrogen-energy heavy truck demonstration line from Baoding to Xiong'an New Area, was launched in Baoding. The batch delivery of fuel cell tractors made by Dongfeng Kinland put reliability into Baoding's realization of carbon peak and carbon neutrality strategic goals.



客户评价 Customer testimonials

运营表现综合续航约400km，氢耗6-10kg/百公里，东风天龙KL燃料电池牵引车以其优异的能耗表现完全满足使用要求。

客户评价东风天龙KL氢燃料牵引车能耗低，可靠性高，是氢燃料示范运营的最佳选择。

The comprehensive range of operation is about 400km, with a hydrogen consumption of 6-10kg/100km. The Dongfeng Kinland fuel cell tractor fully meets the usage requirements with its excellent energy consumption performance.

The customer commented that Dongfeng Kinland hydrogen fuel cell tractor has low energy consumption and high reliability, and is the best choice for hydrogen fuel demonstration operation.

APPLICATION CASES OF CONSTRUCTION ENGINEERING SCENARIOS 建筑工程场景应用案例

纯电自卸车应用案例

Application case of electric dump truck

时间: 2021年11月-12月

车型: 东风天龙KC423充电自卸车

地点: 江西宜春东风天龙自卸车采用全球领先的动力电池系统、热管理系统和整车安全设计，运营过程中车辆制动、加速、电池能耗、续航能力、载重、驾驶室震动和噪音表现赢得顾客认可和高度称赞。

Time: November-December 2021

Model: Dongfeng Kinland KC423 charging dump truck

Location: Dongfeng Kinland dump truck in Yichun, Jiangxi, adopts the world's leading power battery system, thermal management system and vehicle safety design. During operation, the vehicle's braking, acceleration, battery energy consumption, endurance, load, driver's cab vibration and noise performance have won customer recognition and praise.



纯电搅拌车应用案例

Application cases of electric mixer truck

2021年12月，东风商用车与中联重科合作打造的纯电动搅拌车在郑州共测试2000km，综合电耗2度电每公里，综合续航里程在150km左右，一次充满电运营次数为5-7趟。

In December 2021, the electric mixer truck jointly built by Dongfeng Commercial Vehicle and Zoomlion was tested in Zhengzhou for a total of 2000km, with a comprehensive power consumption of 2 kilowatt hours per kilometer, a comprehensive driving range of about 150km, and a full charge operation of 5-7 times.



燃料成本 Fuel cost

燃油车(Fuel vehicle):
6.5元(¥)/L*0.55L/km*60000km/年(year)=21.45万(214.5 thousand)(¥)

电动车(Electric vehicle):
0.6元(¥)/kWh*2kWh/km*60000km/年(year)=7.2万(72 thousand)(¥)

	燃油车 Fuel vehicle	电动搅拌车 Electric mixer truck
每百公里能耗 Energy consumption per 100 km	55L/100km	200kWh/100km
能耗成本 Energy consumption cost	¥6.5 /L	基础电价0.6元/kwh Basic electricity price(¥)
每百公里运营成本 Operating cost per 100 km	357.5	120

CUSTOMER VALUE ANALYSIS 客户价值分析

经济优势 Economic advantages

以 282 换电版牵引车为例经济性测算 Taking the 282 battery-swapping tractor as an example for economic calculation.				
类别 Category		燃油车 Fuel vehicle	整车购买 Vehicle purchase	车电分离 Separated purchase of vehicle and battery
购车总成本 (万)	Total cost of vehicle purchase (¥10000)	48.2	95.9	53.8
车价 (含税)	Vehicle price (including tax)	33	76	40
购置税	Purchase tax	2.9	0	0
挂车	Trailer	9.0	9.0	9.0
金融	Finance			
首付 (30%)	Down payment (30%)	13.5	25.5	14.7
贷款金额	Loan amount	31.4	59.5	34.3
手续费 (3%)	service charge (3%)	0.9	1.8	1.0
贷款年限 (年)	Loan term (years)	2	3	3
年利率 (6.9%, 3年期)	Annual interest rate (6.9%, 3-year term)	6.9%	6.9%	6.9%
月还款金额	Monthly repayment amount	1.41	1.84	1.06
利息合计	Total interest	2.32	6.59	3.80
充电桩 (车桩比3:1)	Charging pile (ratio of vehicle to pile 3:1)	0.0	2.5	0.0
年运营费用 (万)	Annual operating expenses (¥10000)	23.7	7.0	21.7
公里能耗费用 (元)	Energy consumption cost of each kilometer (¥)	4.0	1.2	2.2
能源单价 (元/L,元/kWh)	Energy unit price (¥/L, ¥/kWh)	8.7	0.6	0.6
充、换电服务费 (元/kWh)	Charging and swapping service charge (¥/kWh)	0	0	0.5
公里能耗 (L, kWh)	Energy consumption per kilometer(L, kWh)	0.45	2	2
公里尿素消耗 (L)	Urea consumption per kilometer (L)	0.036	0	0
尿素单价 (元/L)	Unit price of urea (¥/L)	3	0	0
日均里程 (km)	Daily average range (km)	200	200	200
年运营天数 (天)	Annual operating days	280	280	280
年均维保费用	Average annual maintenance cost	1.15	0.25	0.25
电池年租金(5年期)	Annual battery rent (5-year term)	0	0	9.12
月租金 (元/月)	Monthly rent (¥/month)			0.76
5年运营费用 (万)	5-year operating expenses (¥10000)	118.4	34.9	108.5
5年生命周期总成本	Total cost of 5-year lifecycle	166.6	130.7	162.3
5年生命周期总成本差	Total cost differential over 5-year lifecycle	基准 Benchmark	-35.9	-4.3

电车经济优势 Economic advantages of electric vehicles

① 电费相对油费有明显优势
Electricity price has significant advantages over fuel price.

② 电动车维修成本低于燃油车
The maintenance cost of electric vehicles is lower than that of fuel vehicles.

③ 可利用夜间便宜谷电
Utilizing cheap off-peak electricity at night is an option.

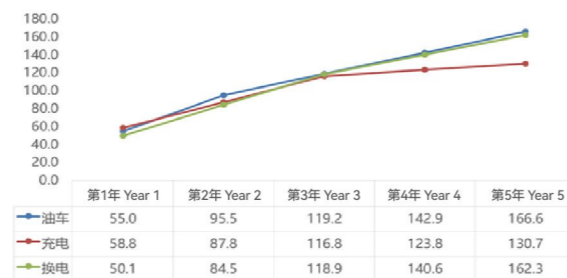
④ 综合电价0.8元/kWh测算, 5年节省35.9万元
Estimating comprehensive electricity price of ¥0.8/kWh, ¥359000 can be saved in 5 years.

累计运营成本对比
Accumulated operating cost comparison

油车
Fuel vehicle

充电
Charging

换电
Battery swapping



注: 此测算为理论测算, 具体节约程度视不同路况车况及电价而定
Note: This calculation is a theoretical calculation, and the specific degree of savings depends on different road conditions, vehicle conditions, and electricity prices.

CHARGING AND SWAPPING GUARANTEE PLAN 充换电保障方案

充电桩合作企业: 星星充电、特来电等
Cooperative enterprises of charging piles: Star Charge, TELD, etc.

推荐功率:240kW/360kW, 一桩双枪
充电时间:1-1.5h
场地建设:约40m²(含车位)

Recommended power: 240kW/360kW, two guns for one pile
Charging time: 1-1.5h
Site construction: approximately 40m² (including parking spaces)



技术方案: 吊装式, 换电时间: 5min

Technical solution: lifting type, battery swapping time: 5min

换电站参数
Swapping station parameters

换电时间: 5min
单座换电站服务车辆数: 30-50左右
设计换电次数: 168次/24h
50台运营车辆备用电池: 7块(可根据需求拓展)
电力容量: 2500kVA及以上
占地面积: 16m*12m (不含车道区域和转弯半径)

Swapping time: 5 minutes
Number of vehicles served by a single swapping station: around 30-50
Designed swapping frequency: 168 times/24 hours
Backup batteries for 50 operating vehicles: 7
(can be expanded according to demand)
Power capacity: 2500kVA and above
Floor area: 16m * 12m (excluding lane area and turning radius)

