ENGINEERING
TOMORROW

DANFOSS EDITRON | SYSTEM PRODUCT OVERVIEW

OFF-HIGHWAY

EDITRON

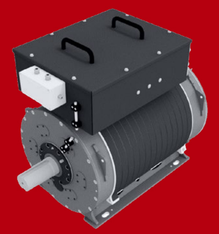
PRODUCT OVERVIEW

Optimized product portfolio for traction and work function

- eMachines up to 6.000 KW (Medium- and Heavy-duty)
- eHydraulics – compact package with Danfoss OC pumps
- Converters up to 1.200 KW including DC/DC to boost DC-link voltage or charge HV batteries

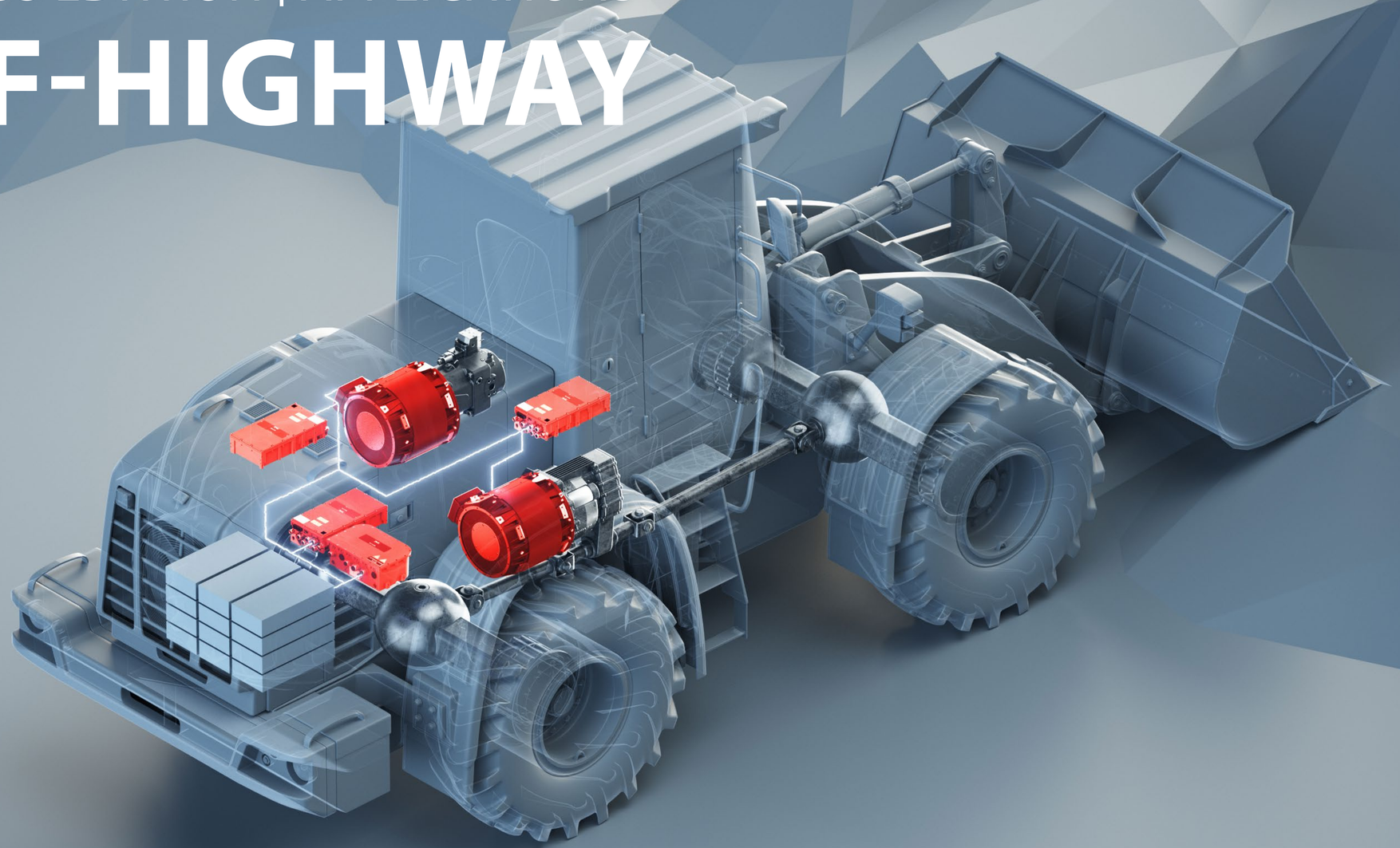
Product portfolio optimized towards

- Highest efficiency thanks to PM and SRPM technology
- Increased productivity thanks to sophisticated control SW platform
- Designed for harsh environments
- Product portfolio to electrify any heavy-duty machine and vehicle

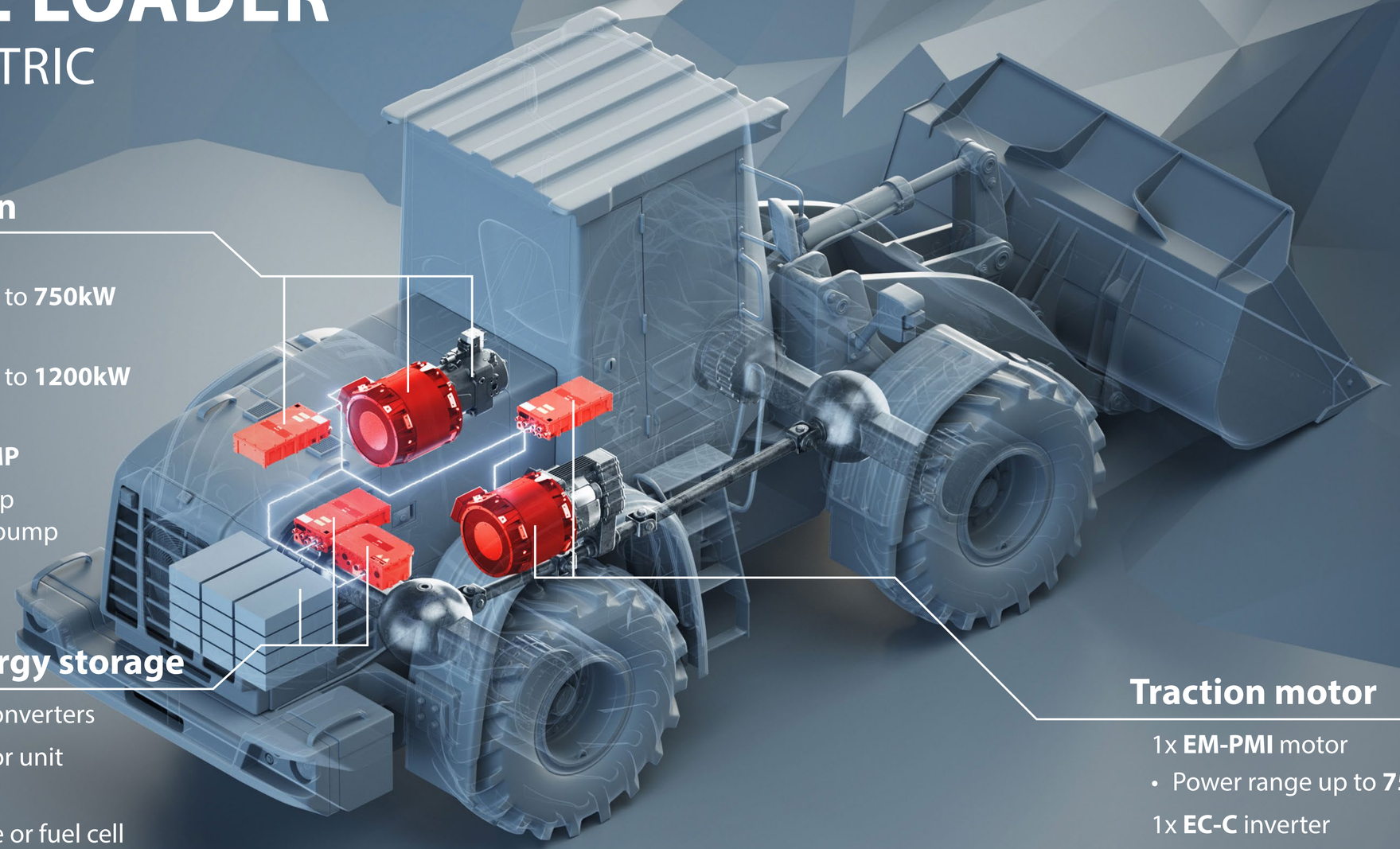
	Converters including DC/DC	eMachines (Medium-duty)	eMachines (Heavy-duty)	eHydraulics
Direct-drive and hybrid-electric for traction and work functions				
eHydraulics for work and auxiliary functions				
EDITRON system and PLUS+1 compliance blocks				

DANFOSS EDITRON | APPLICATIONS

OFF-HIGHWAY



WHEEL LOADER
FULL ELECTRIC



Work function

1x **EM-PMI** motor
- Power range up to **750kW**

1x **EC-C** inverter
- Power range up to **1200kW**

HYDRAULIC PUMP

Open circuit pump
or **Closed** circuit pump

Versatile energy storage

1x **EC-C DC/DC** converters

1x **EC-LTS** inductor unit

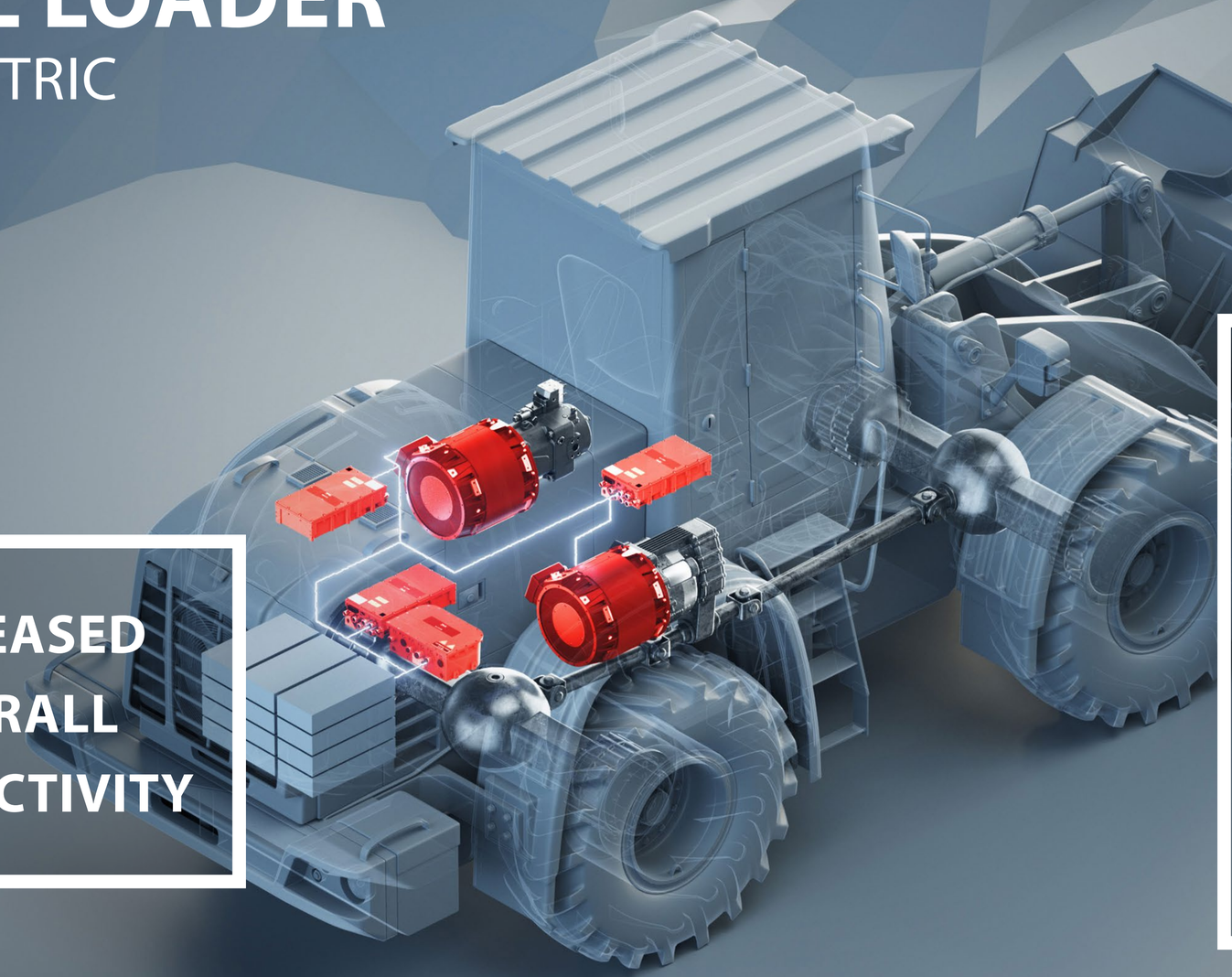
Energy storage
- Any Battery type or fuel cell

Traction motor

1x **EM-PMI** motor
- Power range up to **750kW**

1x **EC-C** inverter
- Power range up to **1200kW**

WHEEL LOADER
FULL ELECTRIC

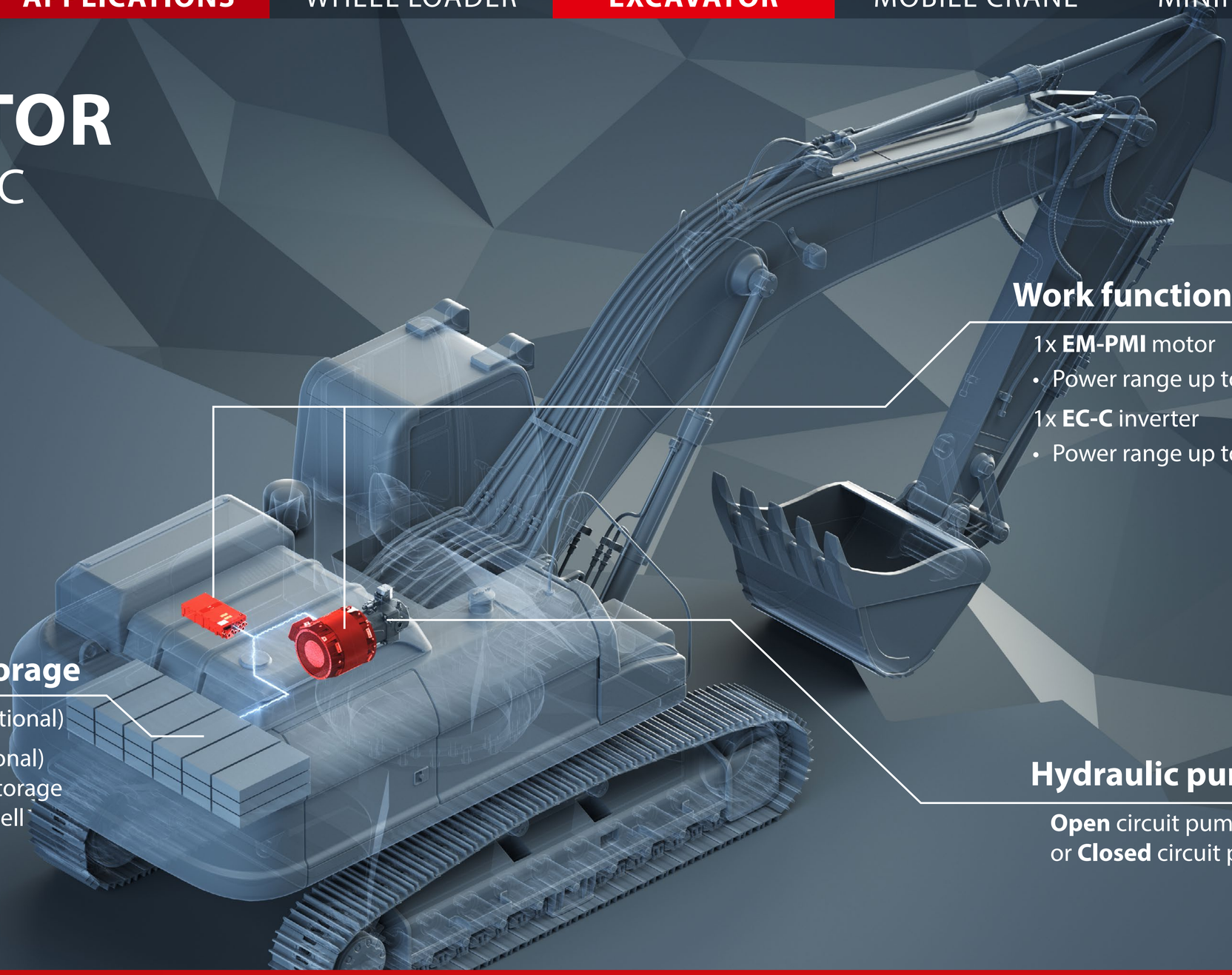


INCREASED OVERALL PRODUCTIVITY

Value proposition

- Editron propulsion system provides highest torque and power density, which leads to lower cost basis and more efficient battery use
- Peak efficiency designed to maximize efficiency througout the drive cycle
- Space and weight savings

EXCAVATOR
FULL ELECTRIC



Work function

1x **EM-PMI** motor
- Power range up to **750kW**

1x **EC-C** inverter
- Power range up to **1200kW**

Versatile energy storage

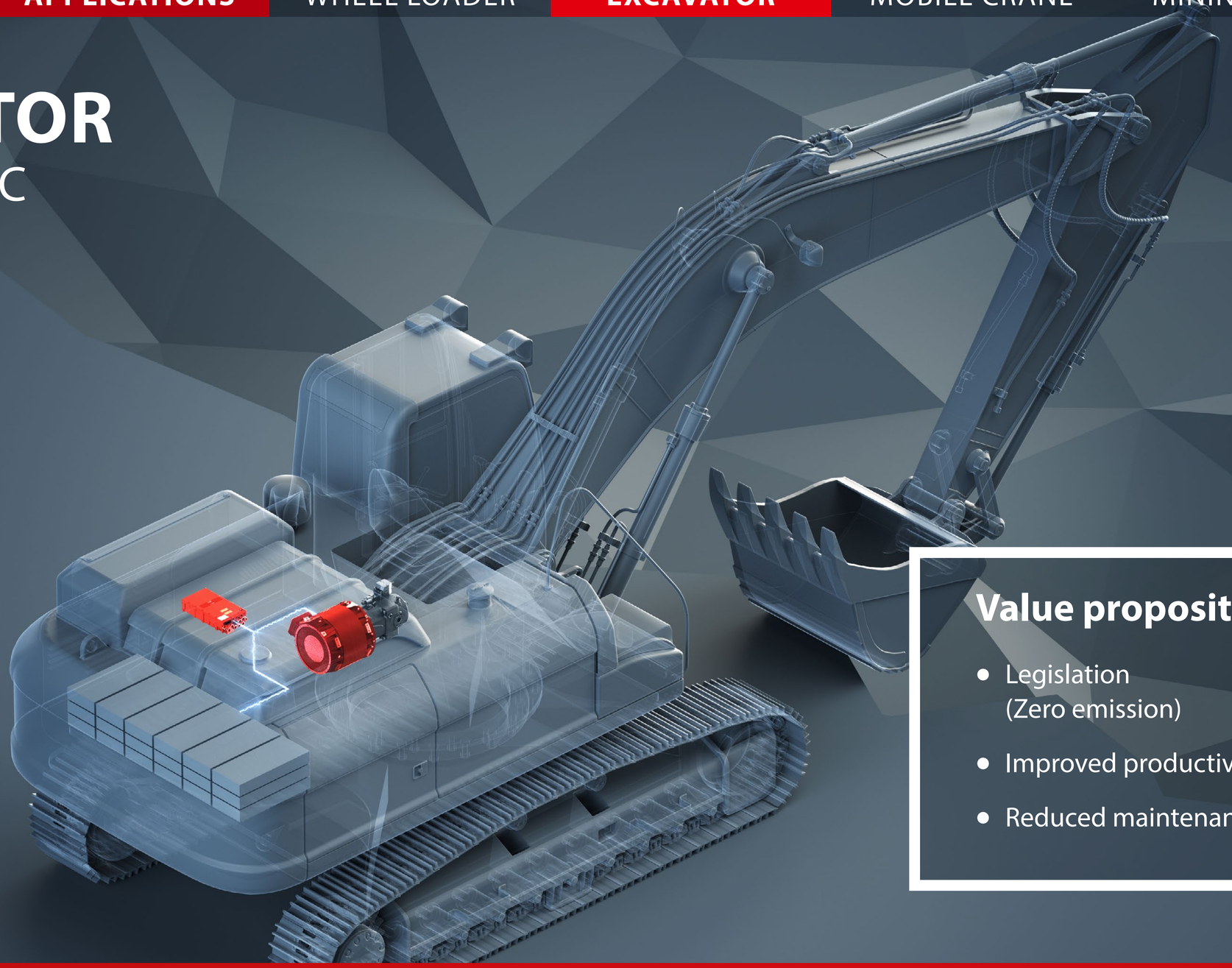
EC-C DC/DC converter (optional)

EC-LTS inductor unit (optional)
connected to the energy storage
- Any Battery type or fuel cell

Hydraulic pump

Open circuit pump
or **Closed** circuit pump

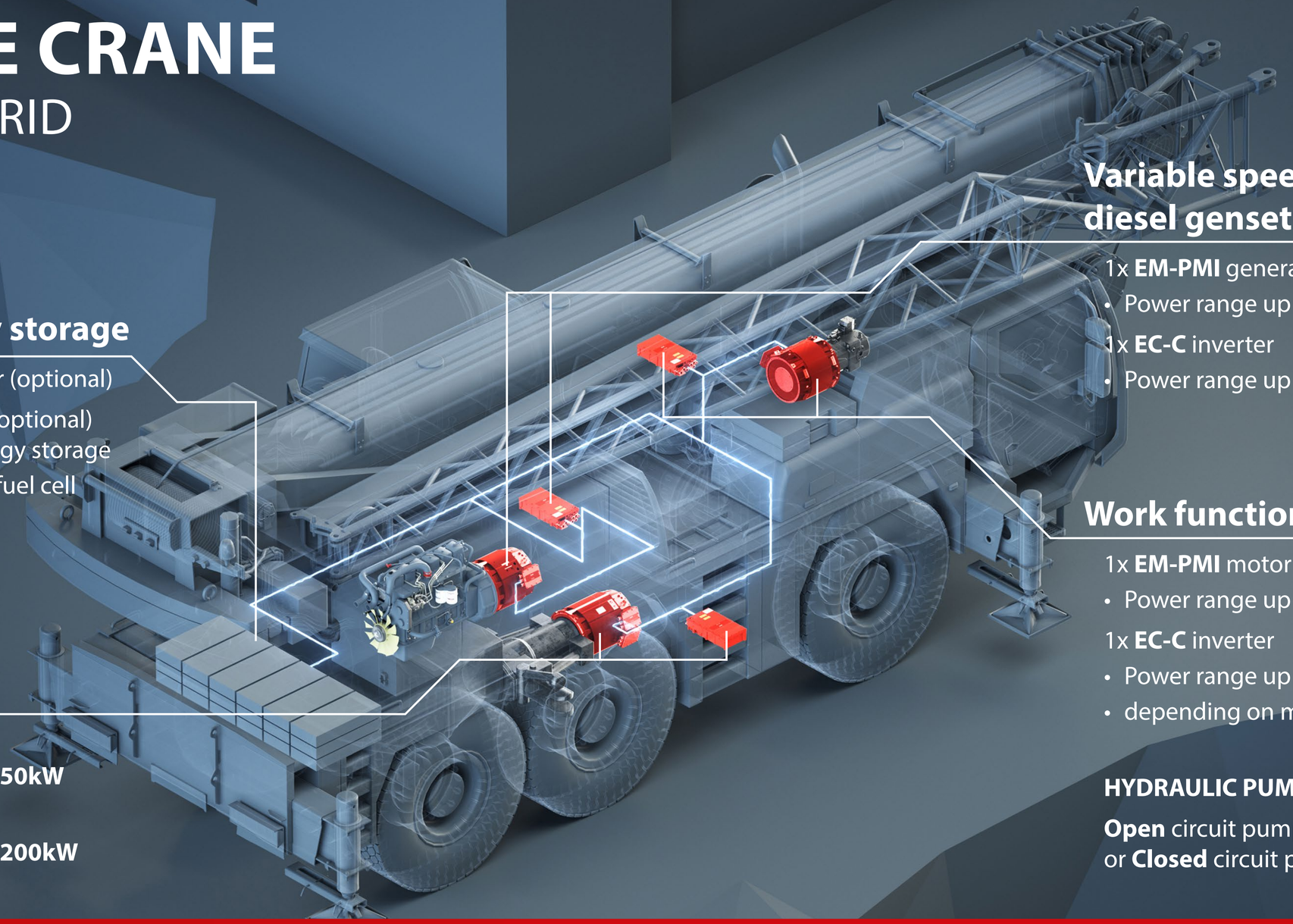
EXCAVATOR
FULL ELECTRIC



Value proposition

- Legislation (Zero emission)
- Improved productivity
- Reduced maintenance

MOBILE CRANE
SERIAL HYBRID



Versatile energy storage

EC-C DC/DC converter (optional)

EC-LTS inductor unit (optional) connected to the energy storage

- Any Battery type or fuel cell

Traction motor

1x **EM-PMI** motor

- Power range up to **750kW**

1x **EC-C** inverter

- Power range up to **1200kW**

Variable speed diesel genset

1x **EM-PMI** generator

- Power range up to **750kW**

1x **EC-C** inverter

- Power range up to **1200kW**

Work function

1x **EM-PMI** motor

- Power range up to **750kW**

1x **EC-C** inverter

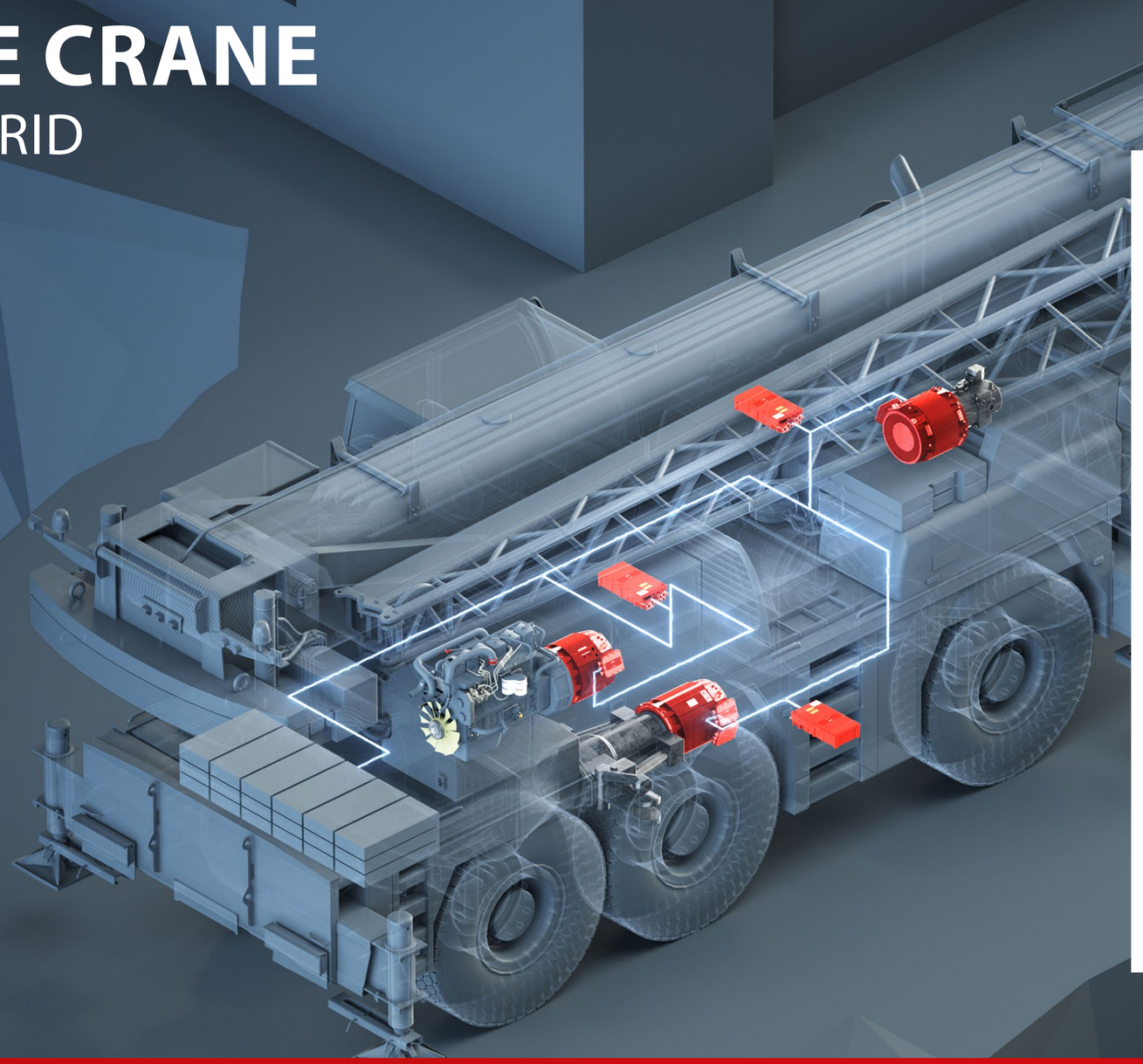
- Power range up to **1200kW**
- depending on machine type

HYDRAULIC PUMP

Open circuit pump
or **Closed** circuit pump

MOBILE CRANE

SERIAL HYBRID

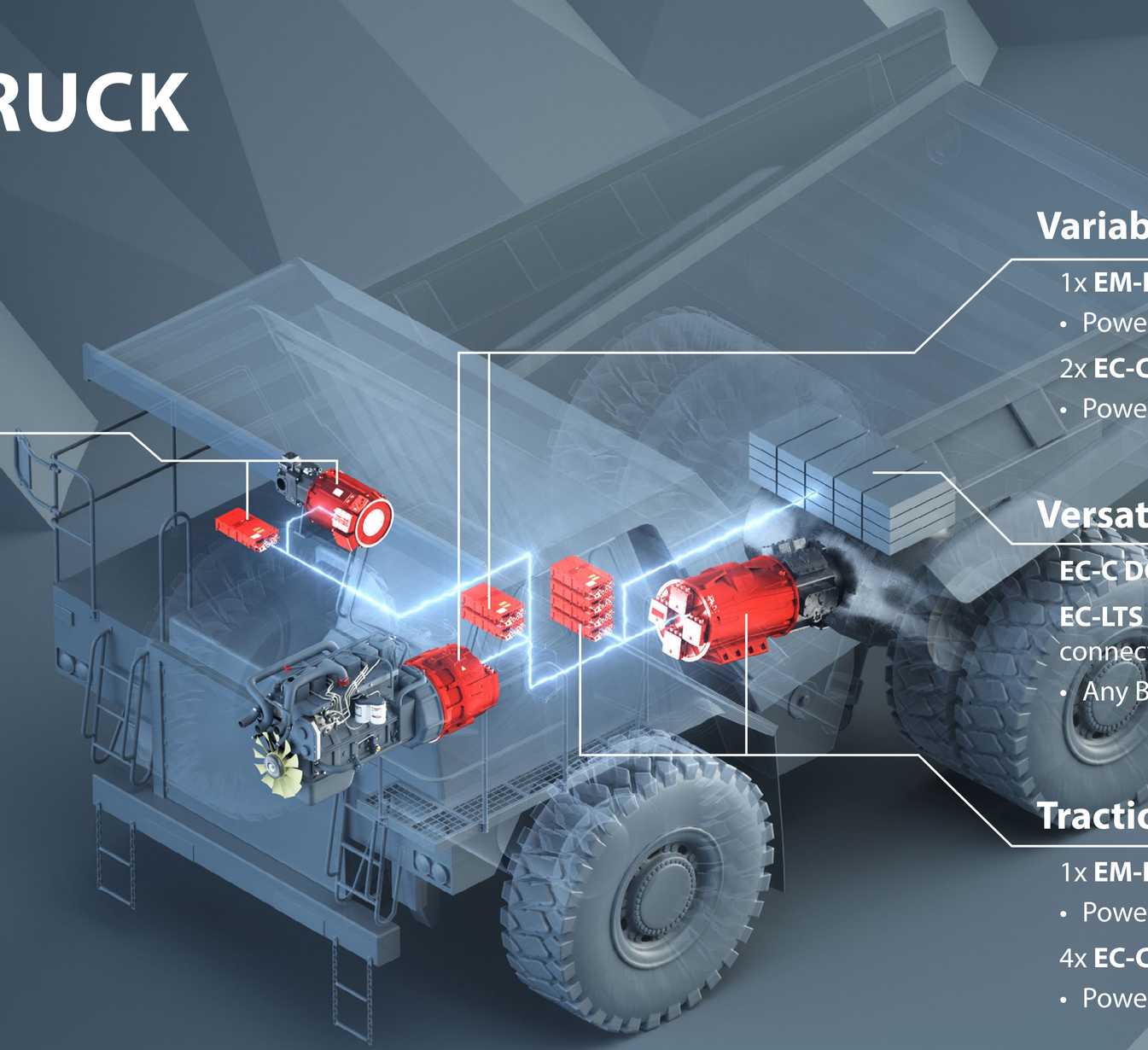


Value proposition

- Zero emission during crane operation
- Reduced noise during crane operation
- Increased power during acceleration
- Reduced emissions due to peak shaving and downscaling diesel engine
- Need for only one diesel engine –> reduced maintenance

MINING TRUCK

SERIAL HYBRID



Work function

1x **EM-PMI** motor
- Power range up to **750kW**

1x **EC-C** inverter
- Power range up to **1200kW**

HYDRAULIC PUMP

Open circuit pump
or **Closed** circuit pump

Variable speed diesel genset

1x **EM-PMI** generator
- Power range up to **750kW**

2x **EC-C** inverter
- Power range up to **1200kW**

Versatile energy storage

EC-C DC/DC converter (optional)

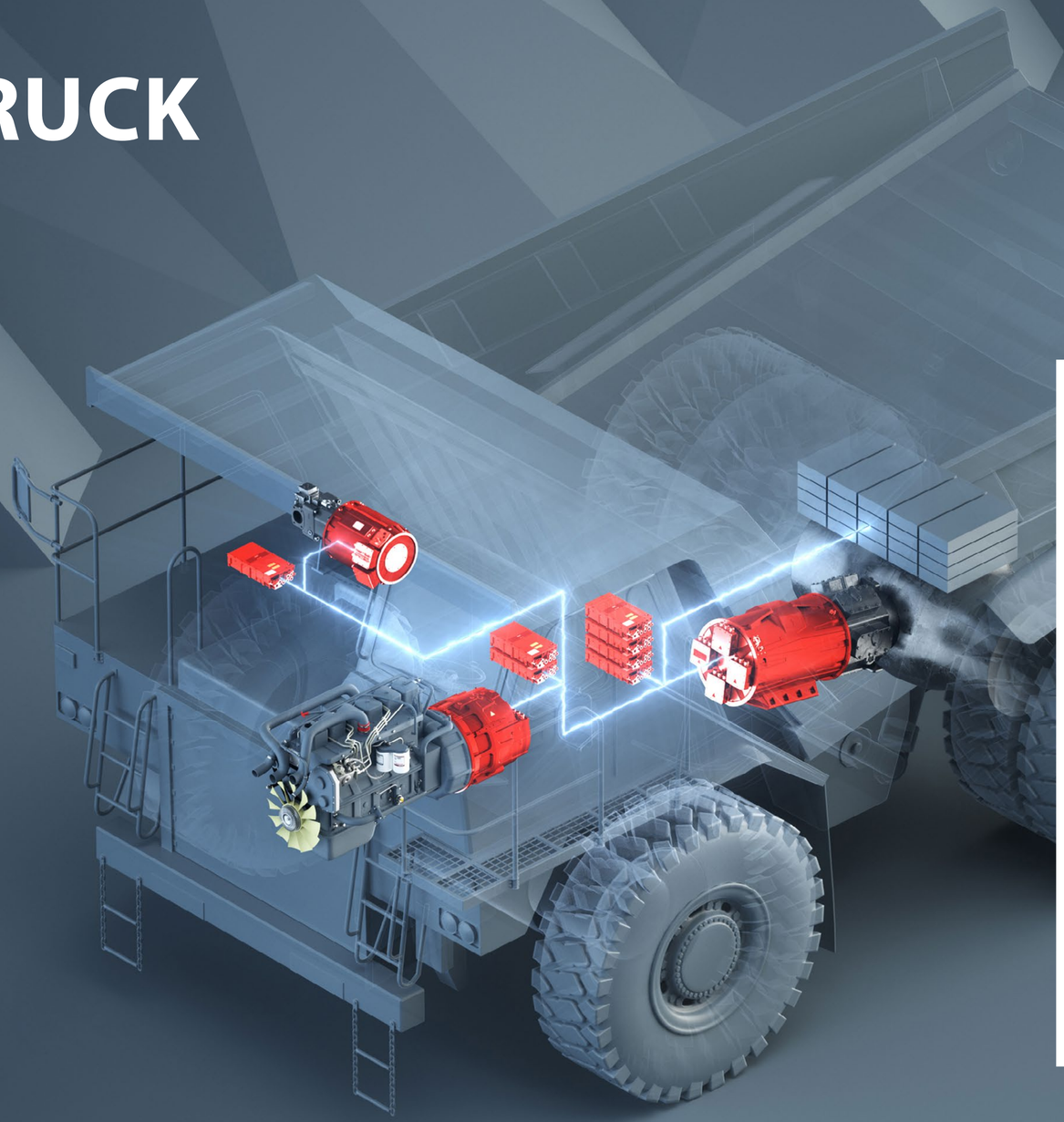
EC-LTS inductor unit (optional)
connected to the energy storage
- Any Battery type or fuel cell

Traction motors

1x **EM-PMI** motor
- Power range up to **750kW**

4x **EC-C** inverter
- Power range up to **1200kW**

MINING TRUCK
SERIAL HYBRID



Value proposition

- Highest efficiency reduces fuel consumption (Serial-hybrid)
- Optimized control performance and torque response improves productivity and operator comfort.
- Designed for use in harsh environemnts

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www.danfoss.com/editron