



KGM **FORWARD** 2025



KGM FORWARD

2025

Welcome Speech

**Chairman
Jea Sun Kwak**



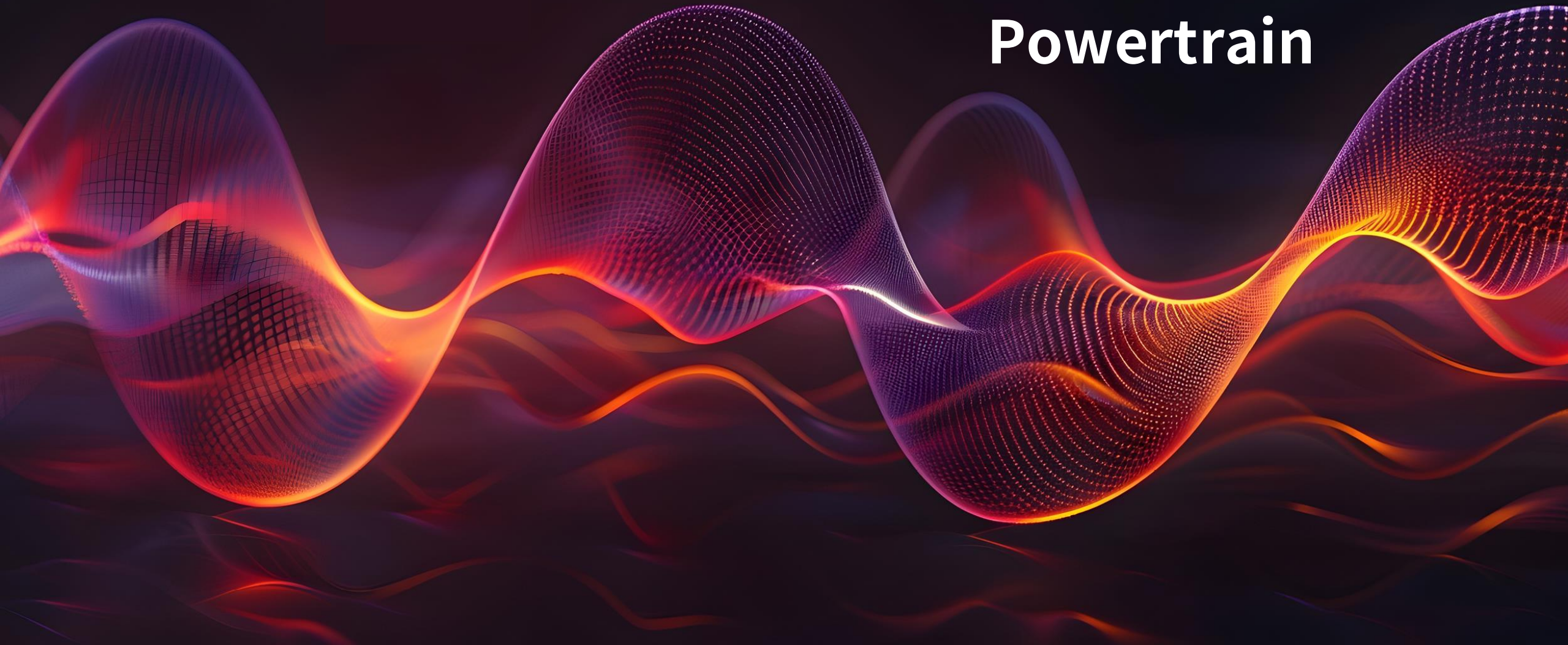
KGM

Future of KGM Powertrains & Product Plan

**Head of R&D
Yong-Il. Kwon**

KGM Tech Forum

Powertrain



Powertrain Portfolio



EV

(P)HEV

ICE

Powertrain Line - up (EV)



150kW



Torres EVX



Musso EV



150kW



150kW

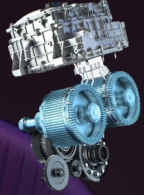


Musso EV

150kW + 150kW Dual Motor system

- 4WD Pick-up EV
- 420km Driving Range (2WD)

Powertrain Line - up (HEV)



130kW/1DHT



Torres HEV



Actyon HEV



230kW/1DHT



170kW



SE10 & New CAR

230kW / 1DHT + 170kW

- High Power (P)HEV
- Feel like EV

Powertrain Line - up (ICV/GSL)



Actyon



Torres

G15T Engine + Eu7 Emission

- Attractive SUV
- Reasonable & Affordable

Powertrain Line - up (ICV/DSL)



D22



Rexton



Musso



D22/EU7 & H₂



REXTON



Musso

D22DT Engine + Eu7 Emission & H₂

- Eco intentional technology
- New hydrogen solution

KGM Tech Forum

Tech Forum

***KGM Hybrid** Development Strategy*

“Non-plug-in EV”

Maximum
Power
Dual-Motor
e-DHT

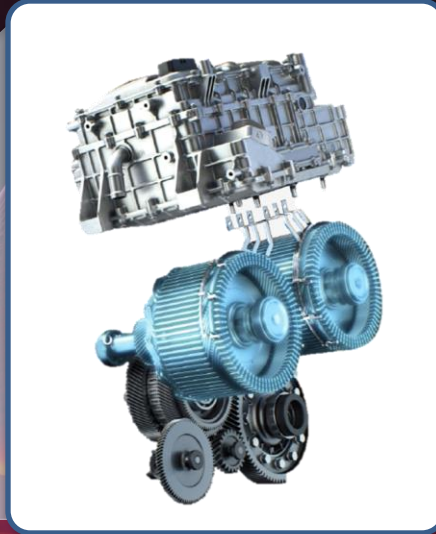
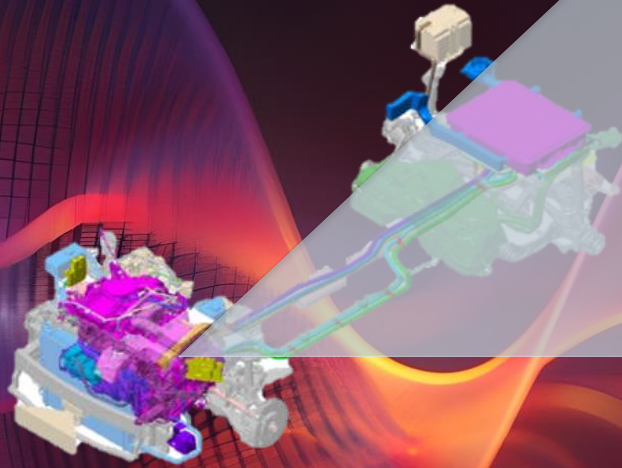
Maximum
Capacity
HEV
Battery

Maximum
Efficiency
HEV
Dedicated
Engine

Maximized EV-Driving Capability

KGM’s hybrid strategy targets a “non-plug-in EV” experience that overcomes EV limitations. Equipped with high output dedicated dual-motor system, maximum capacity battery pack, and a high efficiency hybrid dedicated engine, we have focused on engineering EV-like driving performance

***KGM Hybrid** Main System*



With Korea's first P1 + P3 drive system, our hybrid-dedicated dual-motor e-DHT delivers nine distinct driving modes—including EV Drive, series/parallel HEV Drive, and engine operation.

Maximum Power Dual Motor e-DHT

Spec Comparison				
Maker		KGM (Serial/ Parallel)	OEM "A" (Serial/ Parallel)	OEM "B" (Parallel)
Type		P1 + P3	P1 + P2	P0 + P2
Power	Drive	130kW	100kW	44.2kW
	Generator	90kW	60kW	8kW

Driving Modes) 1. EV Drive / 2. EV Generative Brake / 3. Series Drive – Charge
4. Series Drive – Power Consumption / 5. Series Generative Brake
6. Parallel Eng. Directive Drive / 7. Parallel Hybrid Drive
8. Parallel Generative Brake / 9. Parallel Running Power Generation

***KGM Hybrid** Main System*



Maximum Capacity HEV Battery

Spec Comparison			
Maker	KGM	OEM "A"	OEM "B"
Rated Energy (kWh)	1.83	1.64	1.49

Equipped with 12V LFP Battery



Considering fuel-efficiency and optimization of mass-distribution, the 1.83 kWh high-voltage battery enables improved driving performance in EV driving mode.

KGM Hybrid Main System



Our hybrid-dedicated engine operates exclusively within its peak-efficiency window, which enables it to deliver world-leading-level efficiency while fully meeting global emissions standards such as LEV IV and Euro 7.

Maximum Efficiency HEV Dedicated Engine

- Through joint development with a world-leading European engine specialist partner, we have incorporated 15 state-of-the-art fuel-efficiency technologies.

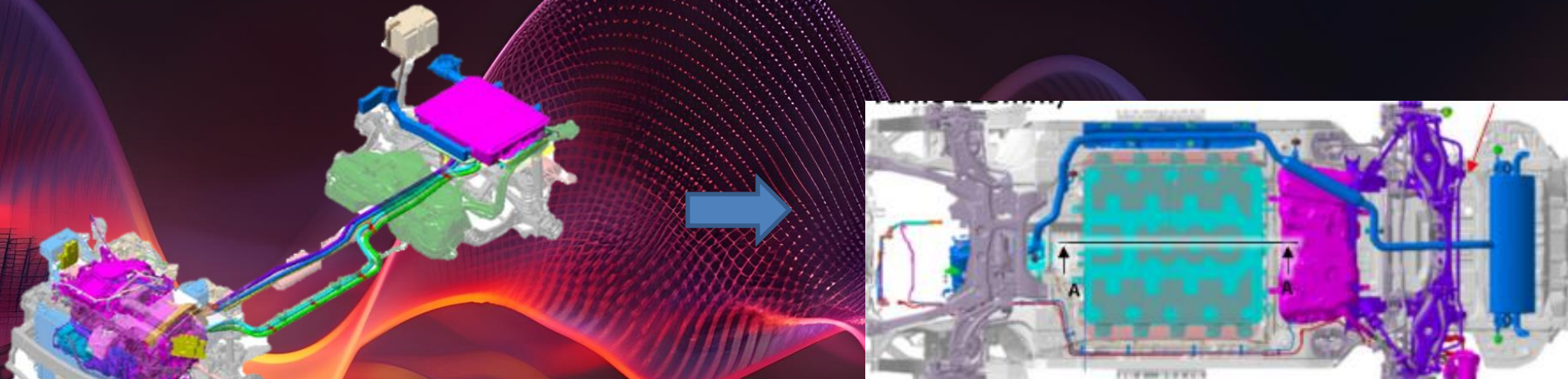
New-Tech Components	KGM G15T Hybrid Engine
Injector	350bar
Miller Cycle	Miller Cycle Operation
Turbine	VGT
LP EGR	0
Intercooler	Water-Cooling Type
VVT	Operated by DC Motor
Oil Pump	Fully Variable
Thermal Management	Inlet : Electric Type Outlet : Wax Type
Piston Cooling Jet	Switchable PCJ Purge Activated When Oil or Coolant Temperature Increases
Accessory Drive	Beltless type

Non-plug-in EV → KGM Hybrid

WLTC (Ph1/Ph2)			
EV	Serial	EV + Serial	Parallel(Engine)
71%	24%	95%	5%

KGM's hybrid integrates a high-output dedicated dual-motor system, a maximum-capacity battery pack, and a high-efficiency hybrid-dedicated engine to deliver an EV mode that comes as close as possible to a pure-EV driving experience.

Non-plug-in EV → Extended Range EV



**Moving beyond EV-like hybrids, we aim to develop an EV
where range is no longer a limitation.**



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— DESIGN PHILOSOPHY —

LEE KANG

DESIGN R&D CENTER

KGM DESIGN
POWERED BY TOUGHNESS

Since 1954

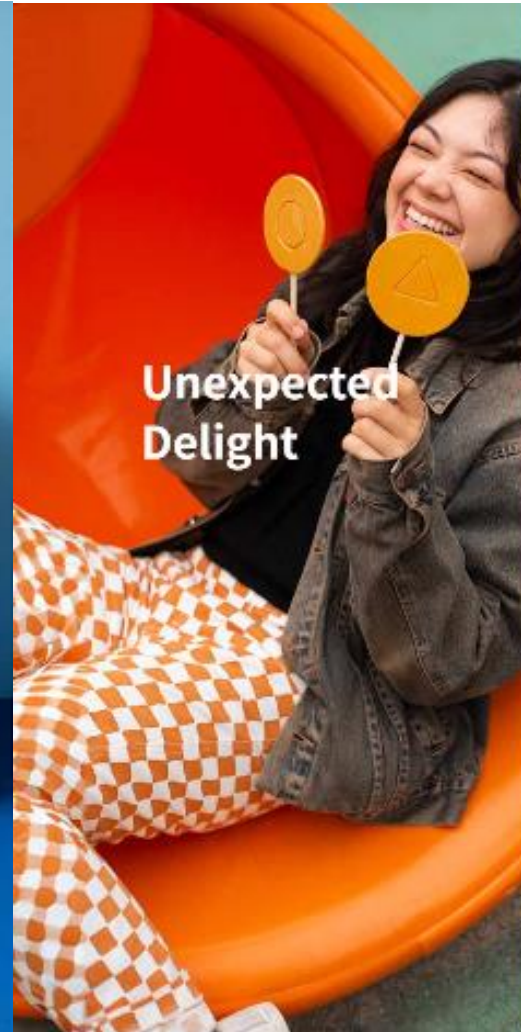


Most memorable Korean cars



KGM DESIGN

POWERED BY TOUGHNESS







MUSO
Since 2002



MUSSO ^{EV}

PRACTICAL ENJOYMENT



MUSSO *EV*

PRACTICAL ENJOYMENT



MUSSO *EV*

PRACTICAL ENJOYMENT



MUSSO *EV*

PRACTICAL ENJOYMENT





FedEx
Express

The World On Time

FedEx

FedEx
Express

KGM The World On Time

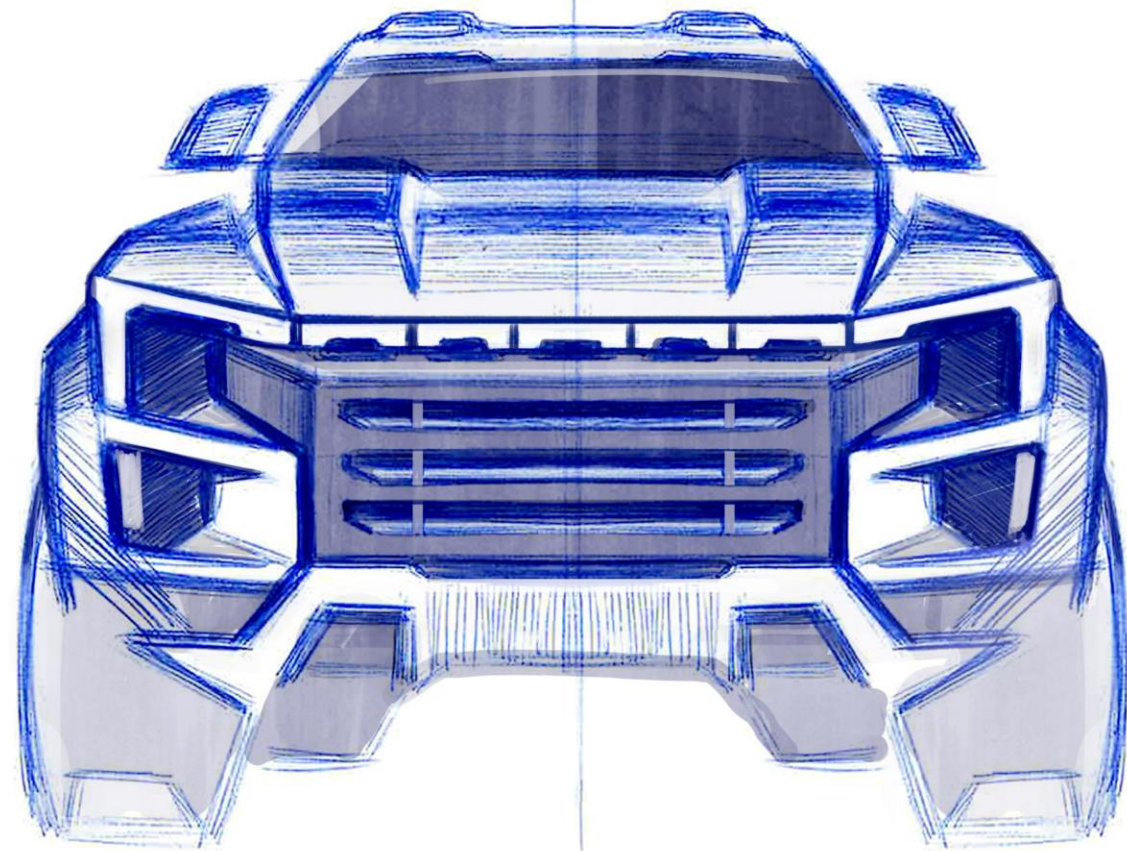
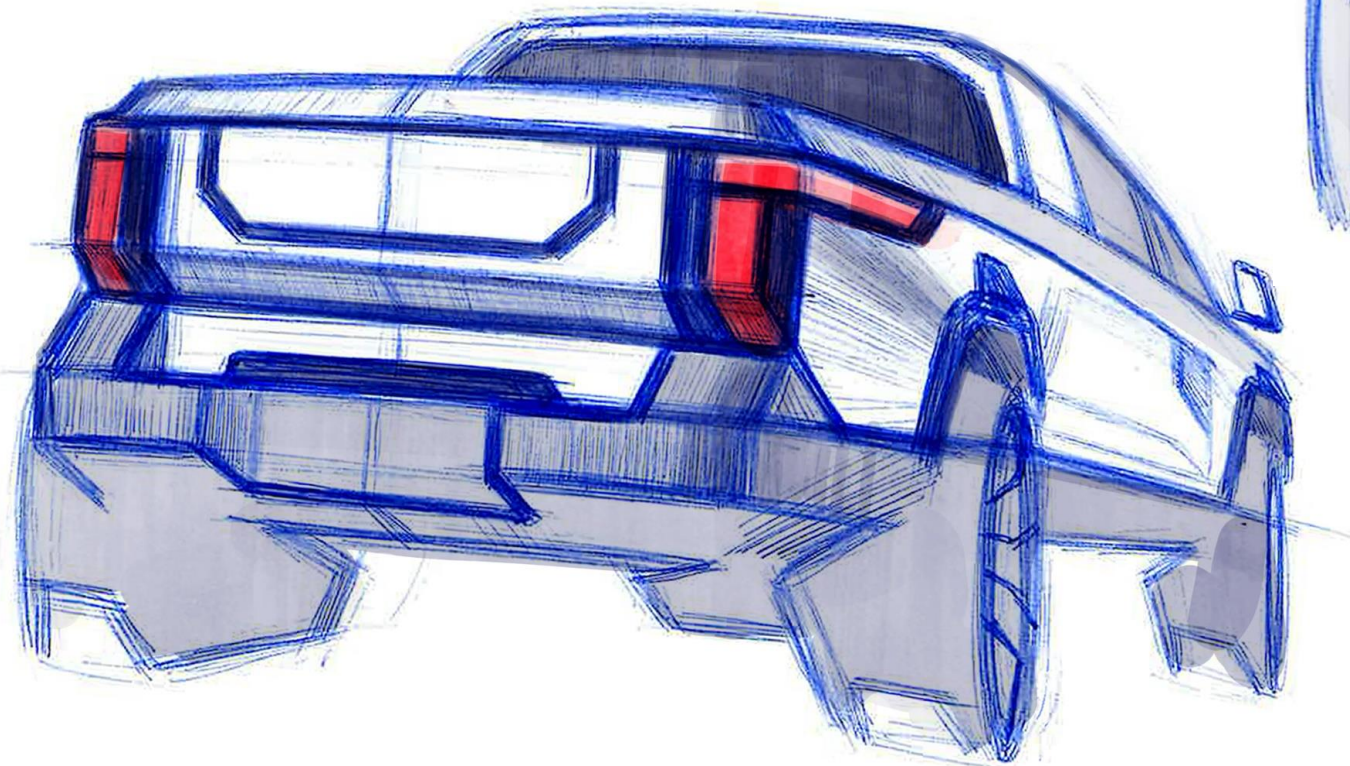
FedEx
Express

KGM

The World On Time

52주 3108

MUSSO
PRACTICAL ENJOYMENT





TORRES HYBRID

— PRODUCT INFORMATION —

JINYOUNG CHO

PRODUCT STRATEGY DEPARTMENT



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What's NEW?

KEM
Drive with confidence

BLACK EDITION
WITH RED BRAKE CALIPER COVERS,
WHEEL ARCH AND DOOR GARNISHES



KEM
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BLACK EDITION
WITH RED BRAKE CALIPER COVERS,
WHEEL ARCH AND DOOR GARNISHES



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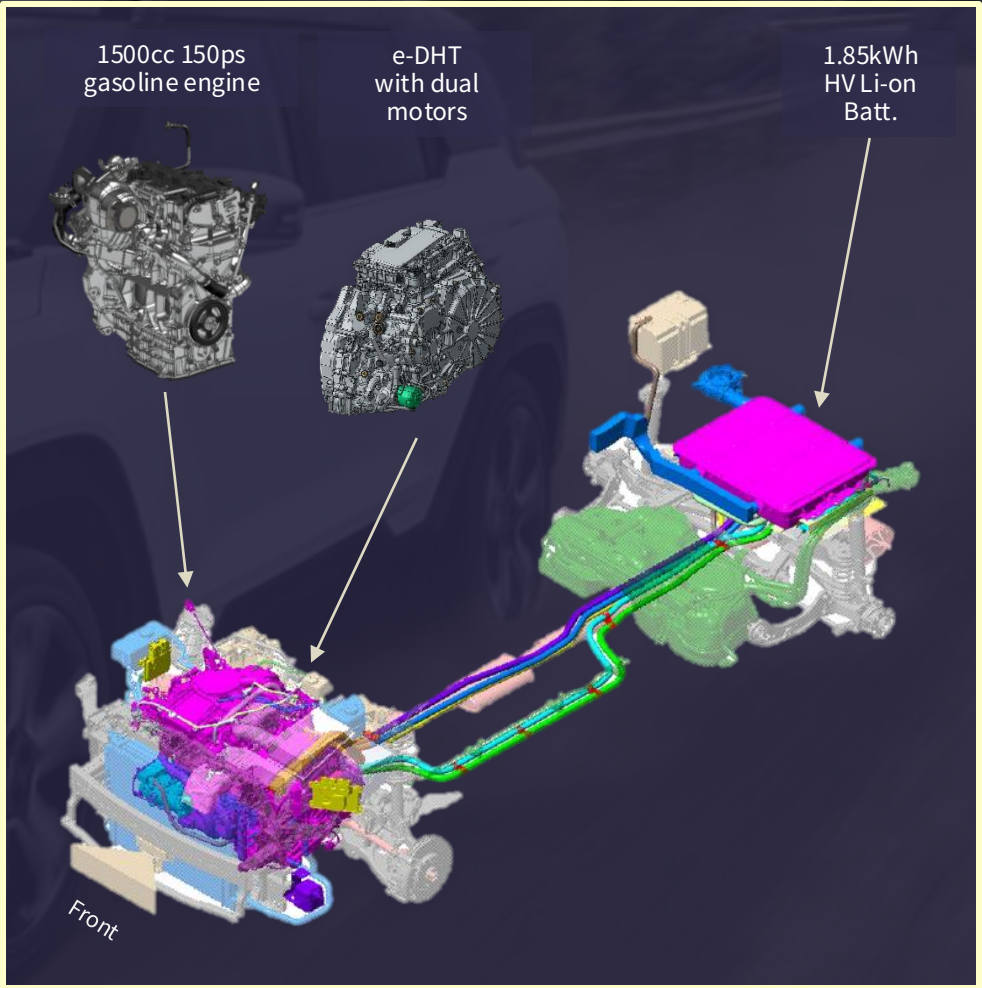
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FIRST HYBRID SYSTEM IN KGM'S HISTORY

Hybrid systems

Type	Description	Brands
Series	Engine charges the battery; vehicle runs like an EV	Nissan
Parallel	Engine and motor operate together like a conventional hybrid	Hyundai, Kia
Series-Parallel	Combines both methods with a dual-motor system	KGM, Toyota, Honda,



POINT 1

THE MOST EV-LIKE HYBRID SYSTEM

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KGM's Dual-Tech Hybrid system

"Like electric, but reassuring range."

- **Motor-only driving up to 100 KPH** — ideal for city commutes
- **Engine operation primarily as a generator** to sustain battery charge
- And **combined output for confident acceleration and high-speed cruising**

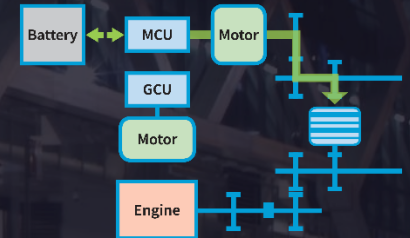
Key Highlights

"Smart and Seamless"

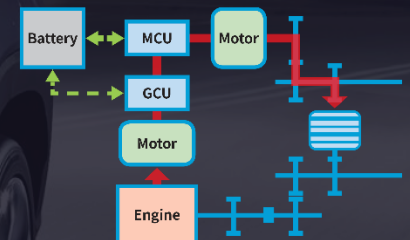
- **Automatic selection** among **9 optimized hybrid modes** — no driver input required
- Refined, capable driving — **up to 95% motor drive** in the city*
- **Instant torque & smooth acceleration** — up to 204 ps
- **Outstanding fuel efficiency** with no performance compromise — 5.9 ℓ/100km

* Based on WLTP test data. Tested under 72 KPH. Motor drive meaning EV + Series Modes.

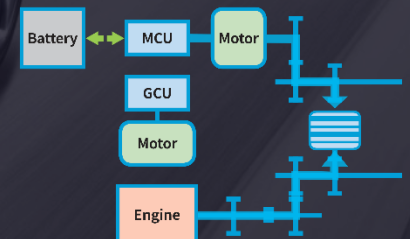
EV Mode



Series Mode



Parallel Mode



BEST-IN-CLASS EMISSION

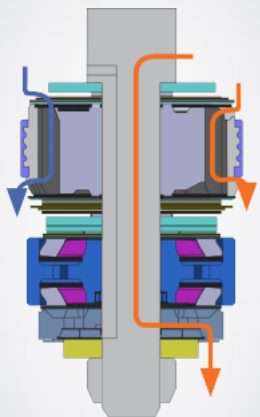
CO₂ Emission: 132.8g/km — Class-leading efficiency in a bigger body

Comparisons to competitive models (WLTP)

Maker / Model		KGM Torres	Hyundai Tucson	Kia Sportage	Toyota RAV4
Propulsion		HEV	HEV	HEV	HEV
Powertrain & Transmission		G1.5T e-CVT	G1.6T 6AT	G1.6T 6AT	G2.5 e-CVT
Dimension	Length	4,705	4,520	4,660	4,600
	Width	1,890	1,865	1,865	1,855
	Height	1,720	1,650	1,680	1,685
	Wheelbase	2,680	2,680	2,755	2,690
	Wheel (“)	18	18	17	18
Performance	Max Power (PS)	204	215	215	218
	Max Torque (Nm)	300	264	264	202
Fuel Efficiency	Fuel Tank (L)	50	52	52	55
	Fuel Consumption (Combined: L/100km)	5.9	5.7	5.8	5.6
	Battery Capacity(kWh)	1.83	1.49	1.49	N/A
	Co2 Emission (g/km)	132.8	131	132	126

SUPERIOR RIDE COMFORT & QUIETNESS

Ride comfort & stability improvements



- **Upgraded shock absorbers** with SFD high-spec valves and larger rod size **for better damping**
- **Improved ride comfort while maintaining handling performance.**

Premium N.V.H performance



- **Enhanced engine sound insulation** (engine bay, cover, wheel housings)
- **Premium Tyres for the best performance**
 - NEXEN Roadian GTX tyres showcase a great fuel efficiency and high performance capability for xEV powertrains, maximizing driving range and torque generation
 - MICHELIN sound-absorbing 20-inch tyres reduce road and tire resonance noise

ENHANCED CONVENIENCE

Key highlights

- **Brighter and more responsive** displays
- **Smoother** infotainment interaction
- **Customizable** cluster layout
- **Rear seat heating control**
- Practical features like **a more fluid dual-map drag-and-play**



SUMMARY

The Torres Hybrid offers:

- ✓ A technologically advanced HEV platform.
- ✓ A well-timed launch in Europe.
- ✓ A smart path to electrification.

Efficiency of an EV.

Flexibility of a hybrid.

All with the **rugged DNA of Torres**.

Let your customers experience it.

Tie your launch to **test drives**.

Because once they drive it — **they'll get it.**

ENJOY YOUR DRIVE!

KGM
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2025 KGM FORWARD DRIVING EXPERIENCE

TORRES HYBRID & MUSSO EV
EXPERIENCE DAY

Presenter : Renee Park

FRANKFURT
17TH-18TH SEPTEMBER, 2025

55 years of expertise

Started from **1974**

Leading the next chapter in the pickup truck market

MUSSO EV



Jeep CJ5P
1974



Mussos Sports
2002



Actyon Sports
2006



Korando Sports
2012



Rexton Sports
2021

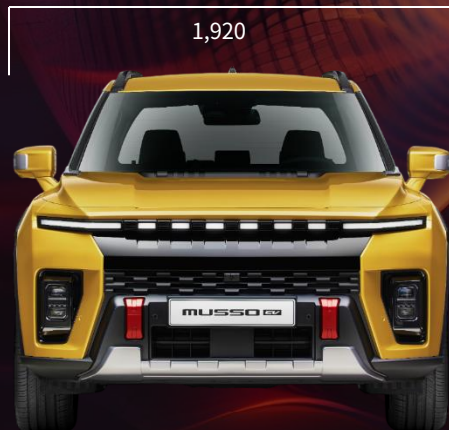
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PRODUCT INFORMATION

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Battery	80.6 kWh (LFP)
Motor	152kW * 1EA (2WD) / 152kW * 2EA (AWD)
App. / Ramp break. / Dept. Angle	20.2 / 15.1 / 24.3
Minimum Ground Clearance	181.4mm
Kerb Weight	2,165kg (2WD) / 2,285kg (AWD)
Towing Capacity	1,800kg (Braked) / 750kg (Unbraked)
Fast charging time (10% → 80%)	46 min (100kW) / 36 min (300kW)
Max Speed	162km/h (2WD) / 177km/h (AWD)
Driving Range	419.6km (2WD) / 379km (AWD)



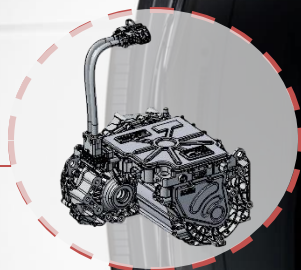
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AWD System with Dual Motors

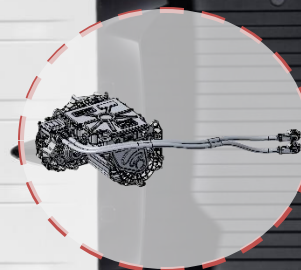
Front Wheel
Drivetrain

152.2kW



152.2kW

Rear Wheel
Drivetrain



CONVENIENCE

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Alpine Speaker



2nd-row Reclining Seats



Self-Levelizer

Battery Pre-conditioning

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DRIVE MODE
ECO

VIEW

100

OFF

+

+

Radio 15

—

+

Night Brightness 10

—

+

Navigation 10

—

+

Adjust Headlamp Angle 0

—

+

Sleep

Connection



External V2L



Black Edition with Black Edge Interior



SUMMARY

1 Dual-motor AWD System

2 Convenience Features

3 Battery Pre-conditioning

4 External V2L

5 Black Edition

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ENJOY YOUR DRIVE





KGM FORWARD

2025

Survey

Please scan the QR code to be directed to our survey.

It only takes a few minutes and will help us improve our services and offerings.

Thank you for your valuable feedback!

