

DOOSAN®

**DOOSAN INFRACORE
INTRODUCTION OF ELECTRONIC MARINE ENGINE
DL06 / DL08 / DX12**

LCONTENTS

DOOSAN INFRACORE ELECTRONIC MARINE ENGINE

01 Product Line-up

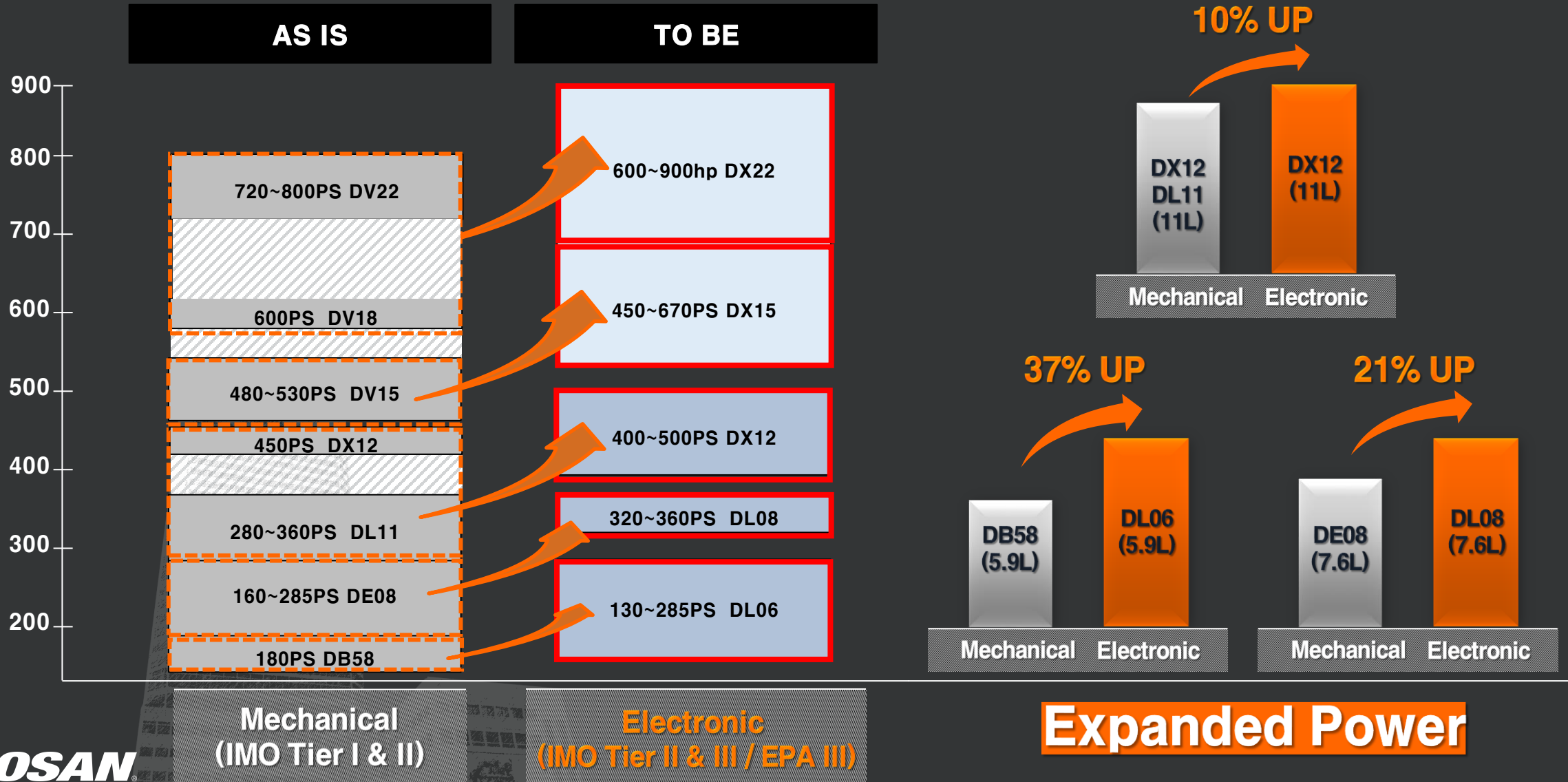
02 Customer Benefits

Chapter 01

Product Line-up

Doosan Infracore supplies high-quality marine engines that are eco-friendly, highly fuel efficient and extremely durable to many ship owners and ship builders all around the world.

Doosan Marine Engine Product Line-up



Chapter 02

Customer Benefits

Doosan Electronic Marine Engine offers a powerful and reliable solution for various application.

Key Benefits of Electronic Marine Engine

Easy Maintenance

Easier to maintain,
Less maintenance cost

Better Economy

Offers more
cost-efficient operation

Innovation

Adopt new technology and offer
low emission level

Compatibility

Offers more flexibility
in ship design and
ease of installation

Key Benefits of Electronic Marine Engine

Maintenance

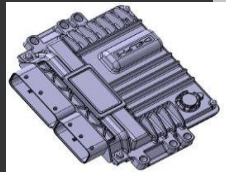
Economy

Innovation

Compatibility

ECU

: Engine diagnostic communication, Recording & Monitoring



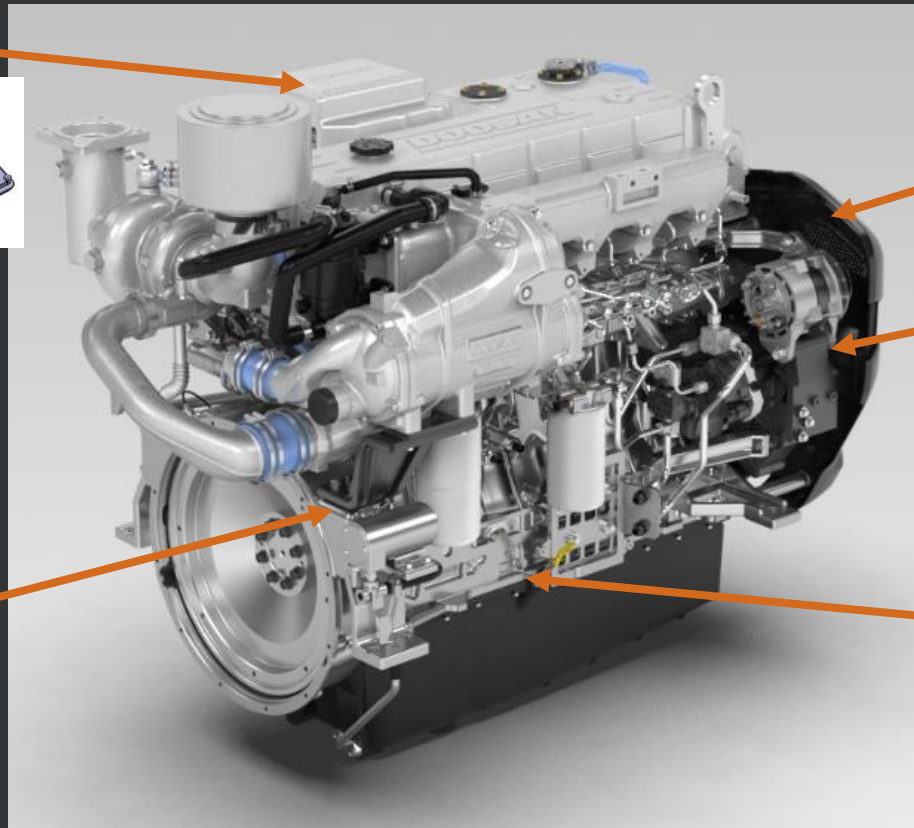
Digital Gauge Panel

: User Friendly



Turning Device

: Easy Maintenance

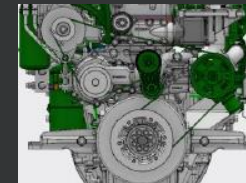


Belt Cover

: Safety

Auto Tensioner & Micro V-Belt

: Automatically Maintaining tension



Electrical type Oil Drain Pump

: replacing engine oil with more convenience.



Key Benefits of Electronic Marine Engine

Maintenance

Economy

Innovation

Compatibility

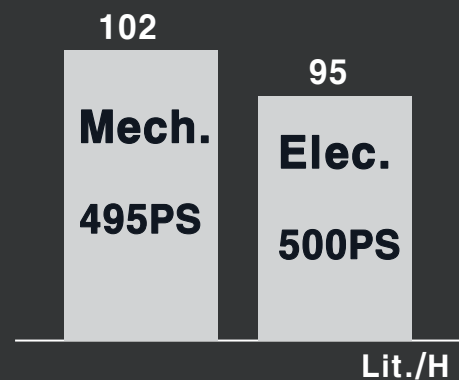


Reducing Fuel Consumption by 7%

Compare to Mechanical Engine (based on DX12 Medium Duty)

You Save \$ 65,955*

In fuel cost Over 7 years



* Basis of calculation

- Operation hours: 3,000 h/year
- Average load : 65%
- Fuel cost : USD 0.68 / Liter

Key Benefits of Electronic Marine Engine

Maintenance

Economy

Innovation

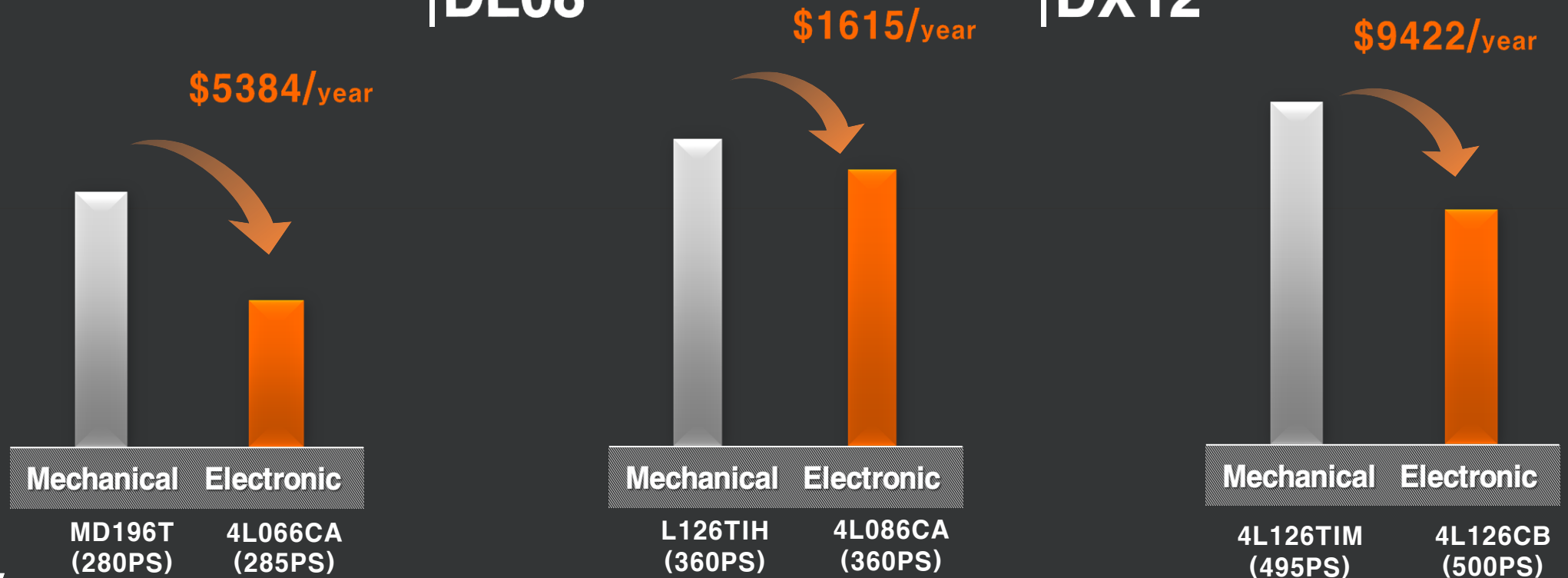
Compatibility

Lower cost of ownership by reducing fuel consumption

DL06

DL08

DX12



Key Benefits of Electronic Marine Engine

Maintenance

Economy

Innovation

Compatibility



**Extended (x2)
Oil Change Intervals**

**With
Improved Oil Consumption
& Expanded Oil Pan Capa.
& Advanced Oil Filter**

**compared to
mechanical engine**

- Operating : 3,000hr/year
- Oil Capa. : Oil pan Max Capa + inside engine
- Oil and Filter Price : based on Korea
- Oil Grade : based on Maintenance Manual

**You Save
\$ 1,860**

**in maintenance
cost*
Within 7 years
(based on DL06)**

Key Benefits of Electronic Marine Engine

Maintenance

Economy

Innovation

Compatibility

Improvement of oil system

DL06

DL08

DX12

20% Down

4% Down

11% Down

\$266/year
Cost Save

\$63/year
Cost Save

\$168/year
Cost Save

Mechanical Electronic

Mechanical Electronic

Mechanical Electronic

DE08

DL06

DL11

DL08

DX12

DX12

Advantages to Customers

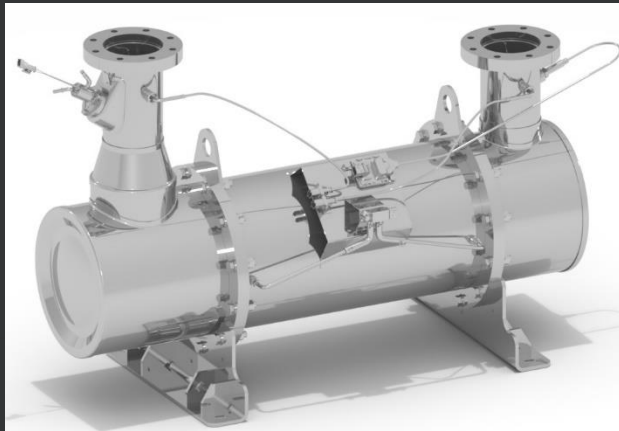
Maintenance

Economic

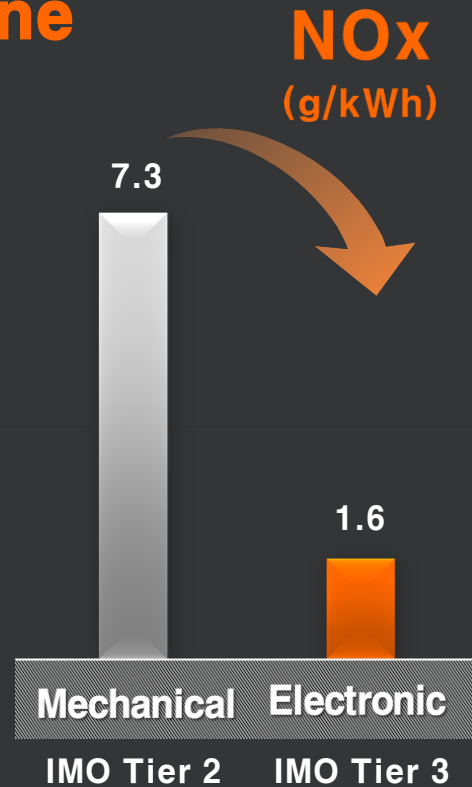
Productivity

Mountability

Eco-Friendly Engine



Emissions Reduction with SCR solution to satisfy IMO Tier 3 regulation



Space-Saving option

With SCR Muffler Protection*, SCR Installation outside engine room is allowable.



* SCR Muffler Protection Option is under development now

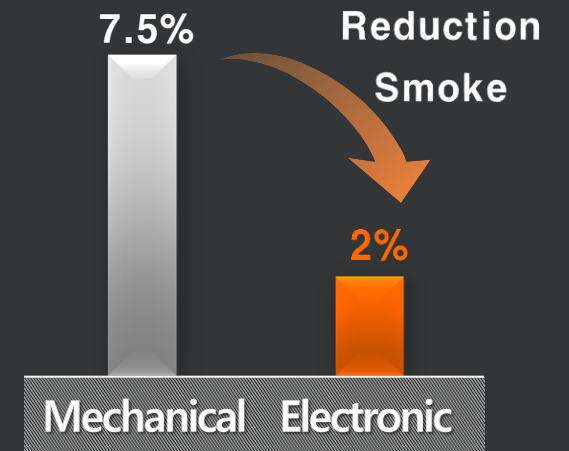
Advantages to Customers

Advanced Engine



Running on Biodiesel
- HVO*, BD50**

Smoke Reduced by more than 50%



*HVO : Hydrotreated Vegetable Oil
**BD50 : It can be allowed after vehicle test

Key Benefits of Electronic Marine Engine

Maintenance

Economy

Innovation

Compatibility

'MY21'
(Brand-New Panel)

Compact Size
38% Smaller

Improve
Readability

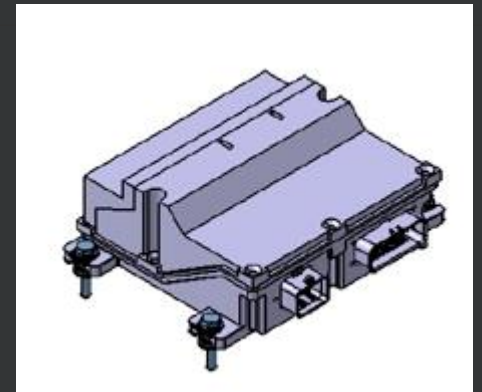
Boot Speed
20s ⇒ 3s

Wiring Simplified
with DACU¹



엔진 운전(시동/정지) 준비가 완료 되었습니다.
게이지 화면을 로딩 중이며, 잠시 후 게이지가 표시됩니다.

The engine is ready to run (start/stop).
The gauge screen is loading, the gauge will be displayed shortly.



Key Benefits of Electronic Marine Engine

Maintenance

Economy

Innovation

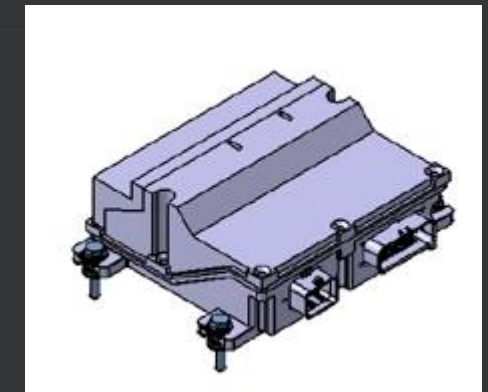
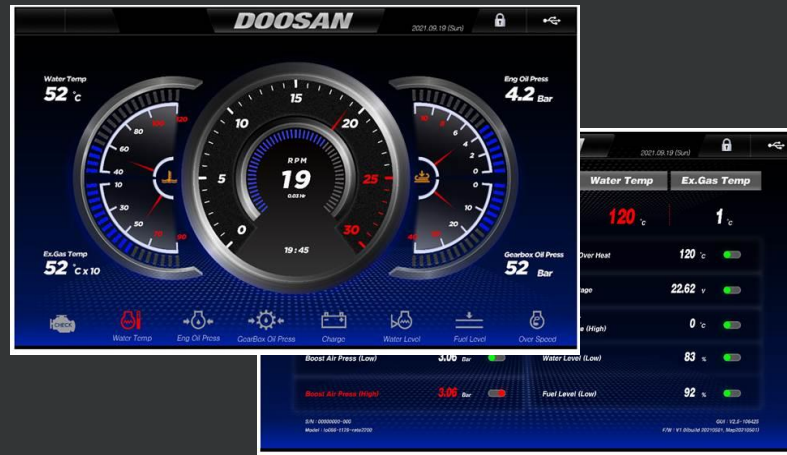
Compatibility

'MY21'
(Brand-New Panel)

Compact Size
38% Smaller

Boot Speed
20s \Rightarrow 3s

Wiring Simplified
with DACU¹



Key Benefits of Electronic Marine Engine

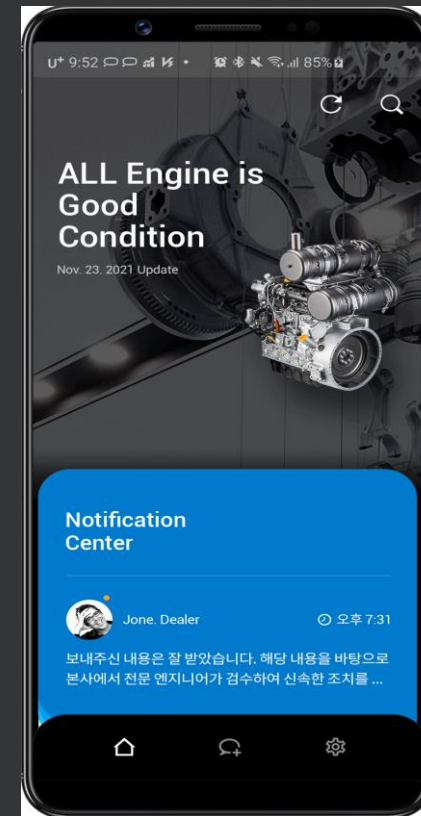
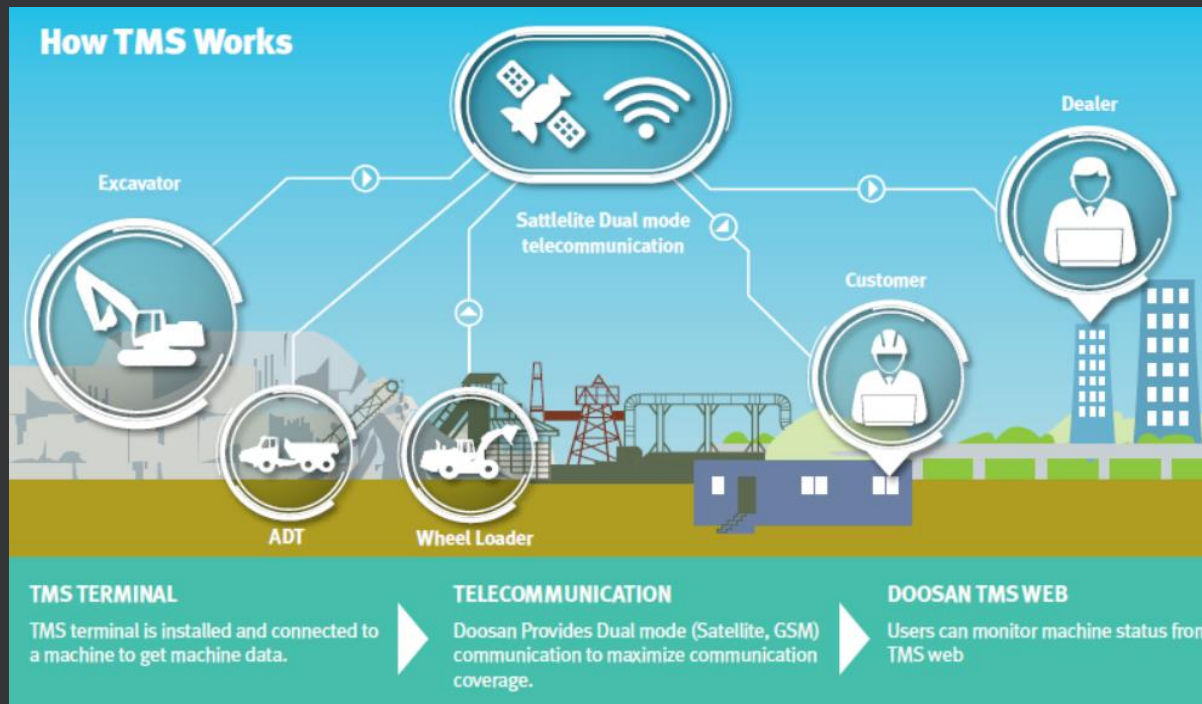
Maintenance

Economy

Innovation

Compatibility

**'TMS'
(Telematics)**



Key Benefits of Electronic Marine Engine

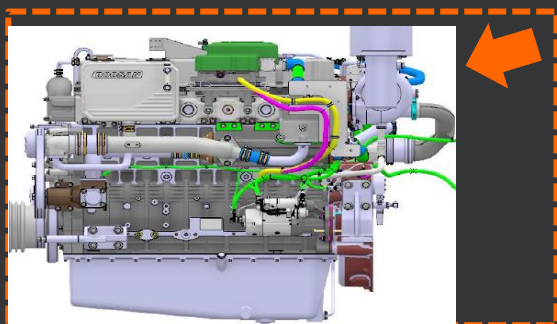
Maintenance

Economy

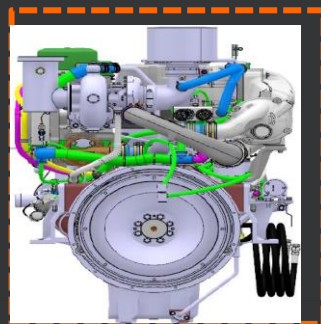
Innovation

Compatibility

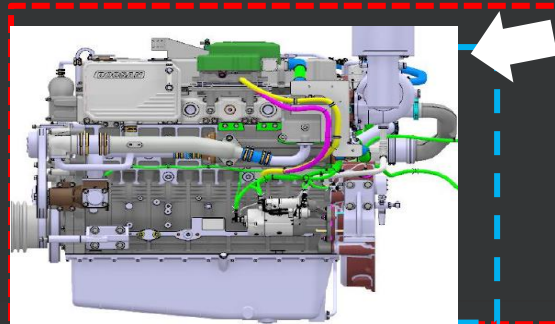
Size Comparison : DX12



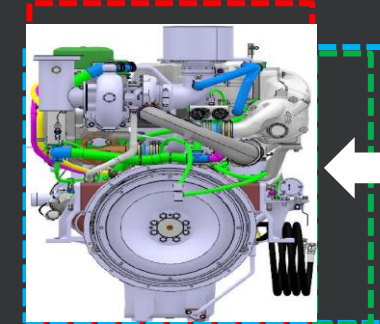
Length



Width



Length



Width

Height

Height

	Length(mm)	Width(mm)	Height(mm)
Doosan Electronic	1,607	894	1,287
Doosan Mechanical	1,857	904	1,300

	Length(mm)	Width(mm)	Height(mm)
Doosan	1,607	894	1,287
Competitor S	1,503	974	1,174
Competitor V	1,728	1,072	1,180
Competitor M	1,834	873	1,331

Key Benefits of Electronic Marine Engine

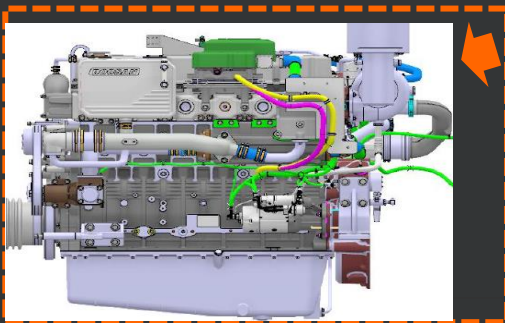
Maintenance

Economy

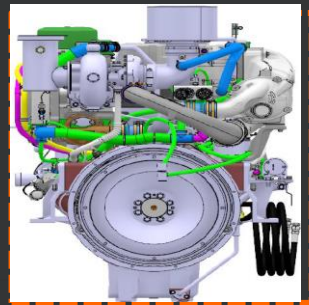
Innovation

Compatibility

Size Comparison : DL06

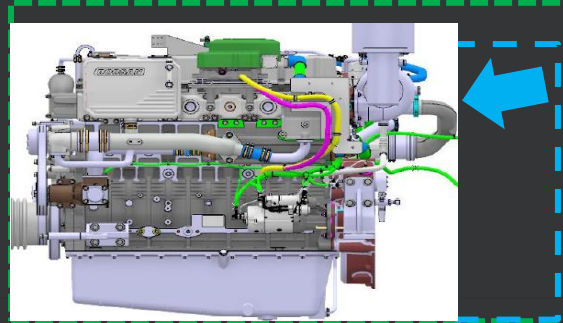


Length



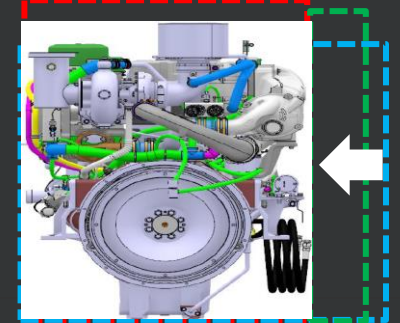
Height

Width



Length

Height



Width

	Length(mm)	Width(mm)	Height(mm)
Doosan Electronic	1,408	837	1,155
Doosan Mechanical	1,414	933	1,077

	Length(mm)	Width(mm)	Height(mm)
Doosan	1,408	837	1,155
Competitor S	1,503	974	1,174
Competitor V	1,510	1,052	1,024
Competitor C	1,112	862	877

Key Benefits of Electronic Marine Engine

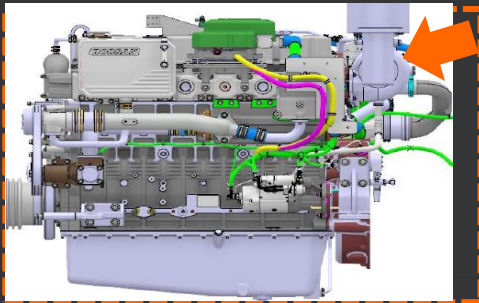
Maintenance

Economy

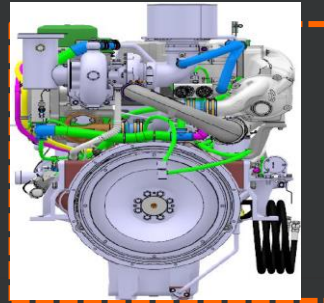
Innovation

Compatibility

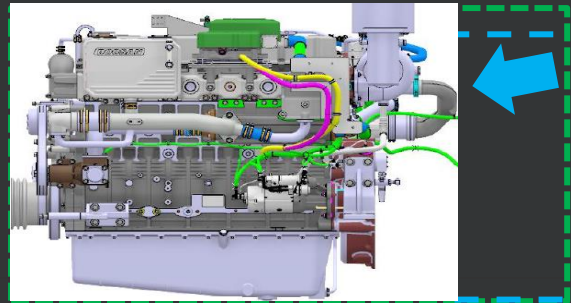
Size Comparison : DL08



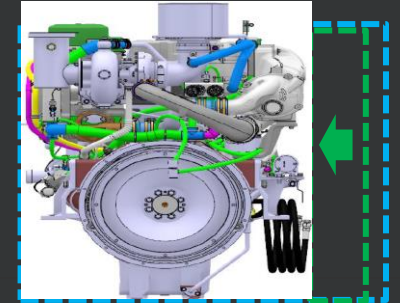
Length



Width



Length



Width

Height

Height

	Length(mm)	Width(mm)	Height(mm)
Doosan Electronic	1,394	882	1,221
Doosan Mechanical	1,397	933	1,077

	Length(mm)	Width(mm)	Height(mm)
Doosan	1,394	882	1,221
Competitor S	1,503	974	1,174
Competitor V	1,510	1,052	1,024



Building your tomorrow today

Doosan Infracore



Building your tomorrow today