



2020 PRODUCT CATALOG

3H183 3H183T 4H243T

DAEDONG

INDUSTRIAL COMPANY



Stage V/Tier 4 Final

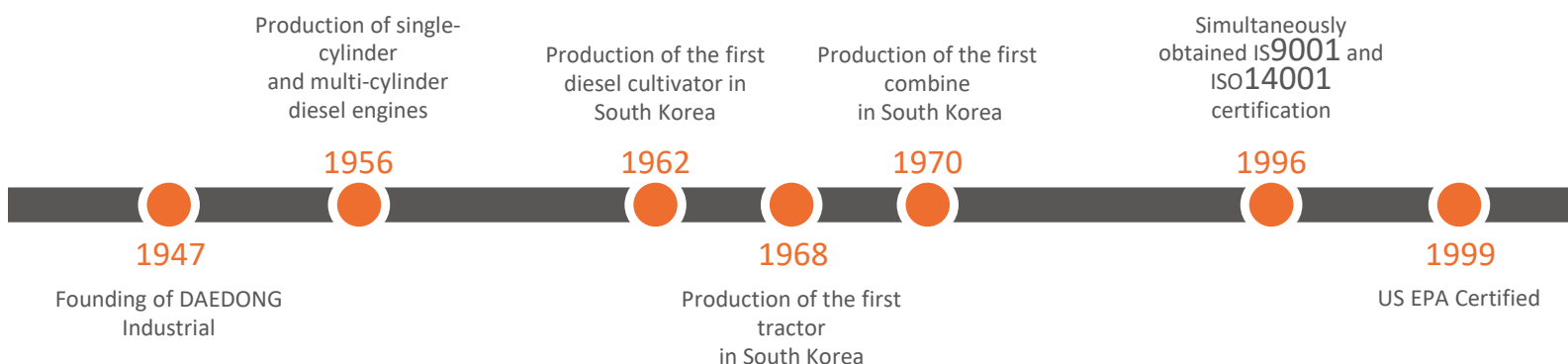
DAEDONG at a Glance

Corporation Profile

Daedong Industrial Co., Ltd founded in 1947, is a manufacturer of various compact diesel engines and agricultural machineries of Tractor, Combine, UTV, Power Tiller in South Korea. Daedong Agricultural Machinery has been settled down as No.1 market leader in South Korean agricultural machinery market. Also, based on more than 73 years of accumulated technology and experience, the company has achieved technological excellence and product innovation of diesel engines and provides the most advanced solutions and unbeatable value in Stage V and Tier 4 final market.

Daedong compact engine provides the Stage V in North America and Europe, which benefits to customers who want a more healthier environment in working places and prefer a single platform of both markets of North American market, TIER 4 Final and European market, Stage V with competitive advantages; much lower emission, best-in-class performance, compactness, single platform, longer warranty, full package, and low total cost ownership.

Differentiation, better value proposition, and sustainable & resilient growth are the core value of Daedong. We have focused our R&D activities so as to become the innovation leader in all application in Stage V/Tier 4 Final market. Since expanding the state-of-the art engine production line in 2006, Daedong Industrial has been equipped with annual production capacity as many as 124,000 units per year and has produced multi-cylinder engines with stable quality through its automated production line. The company makes the most effort to meet various needs in the machinery industry. Daedong Technology Institute continues to develop eco-friendly diesel engines and new products and research a wide range of areas to become one of the world's top 7 engine makers. Daedong has made to advance further to support the growing worldwide market.



DAEDONG engine is...

- Complying with EPA, CARB, EEC, KOREA, CHINA
- Manufacturing in the most advanced facility
- Total 250 models are available under 11 based models (16~85 hp)
- Manufacturing 100,000 units per year
- Managing production quality strictly by SPC and PMC
- Designed as high durability
- An eco friendly and high-tech diesel engine

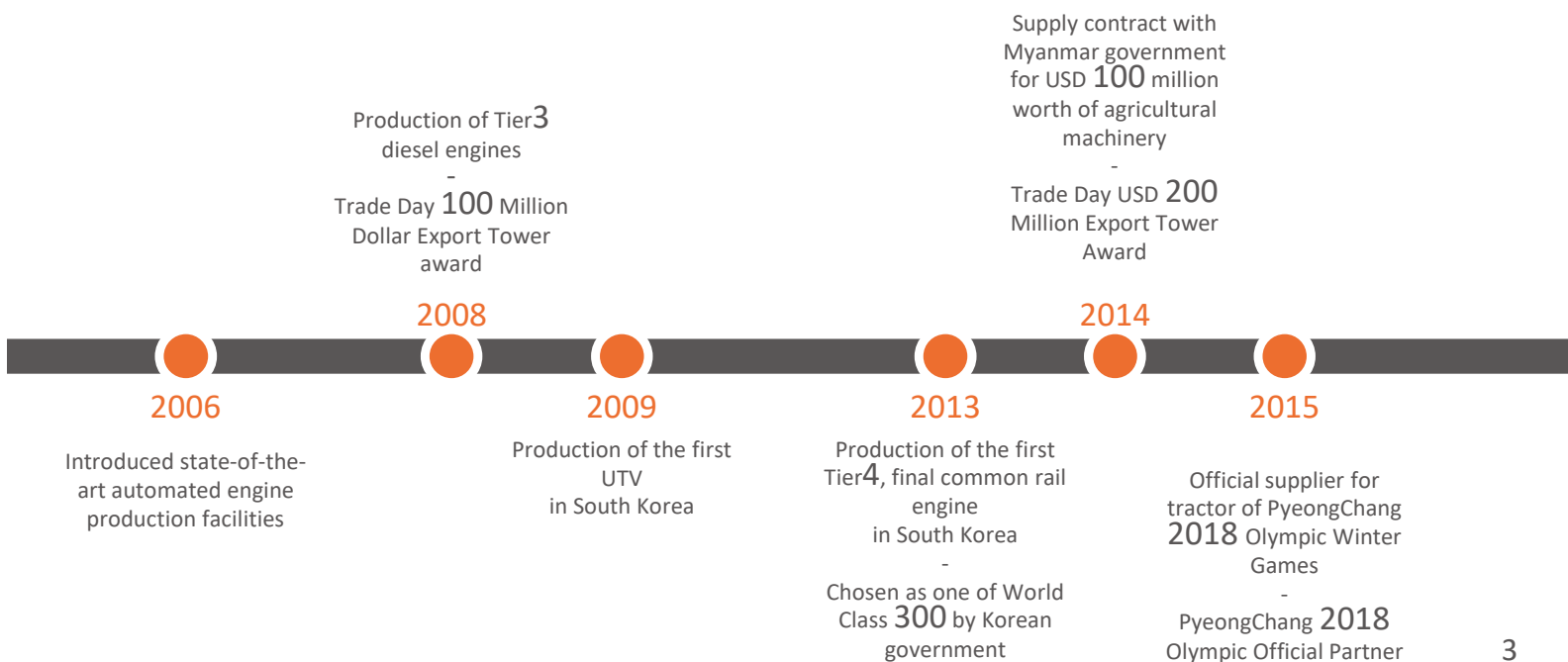


Model:3H183

Stage V/Tier 4 Final

Market Reference

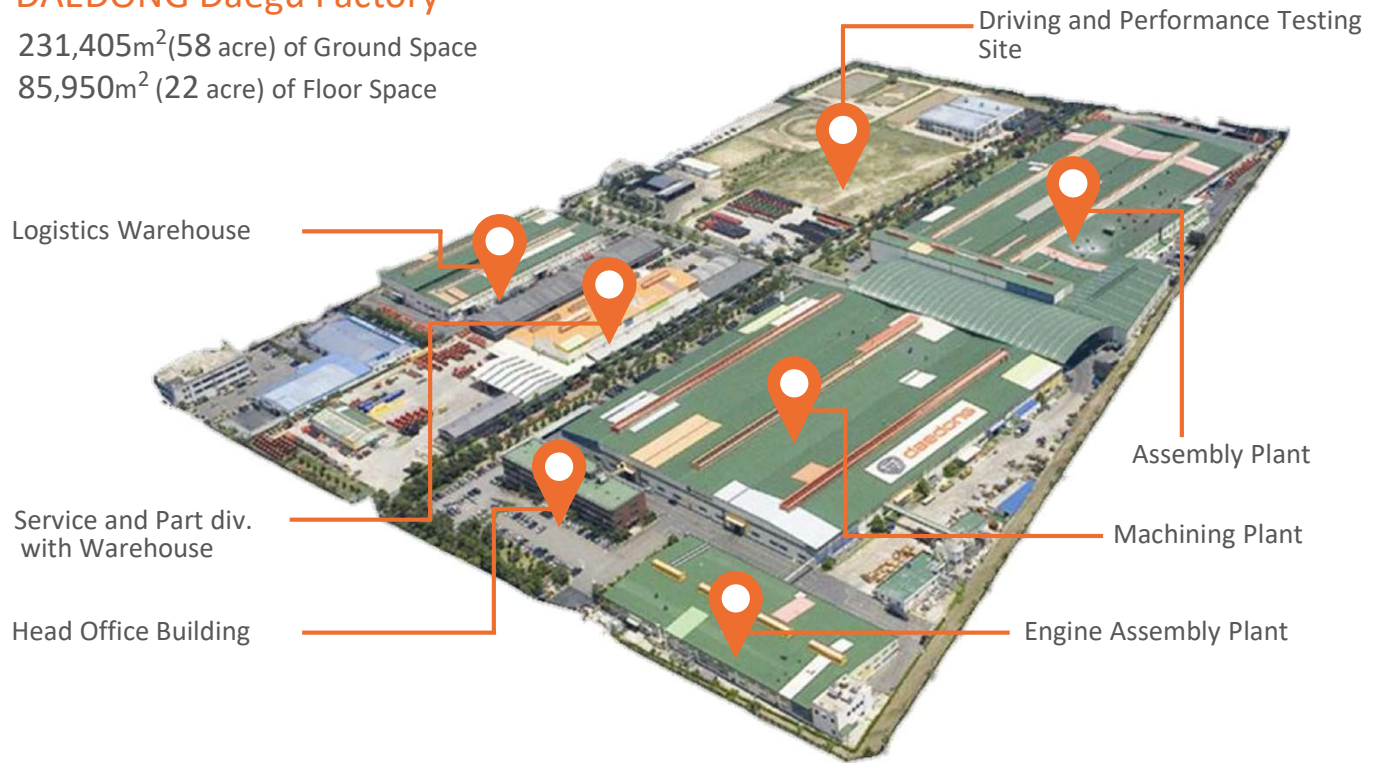
As the first stage project for supplying engines to large OEMs such as KIOTI, BOBCAT etc., is completed successfully, we launch the second project to provide the best overall value with highest and unbeatable performance in the markets of industrial applications, pumps, and generators.



DAEDONG Daegu Factory

231,405m²(58 acre) of Ground Space

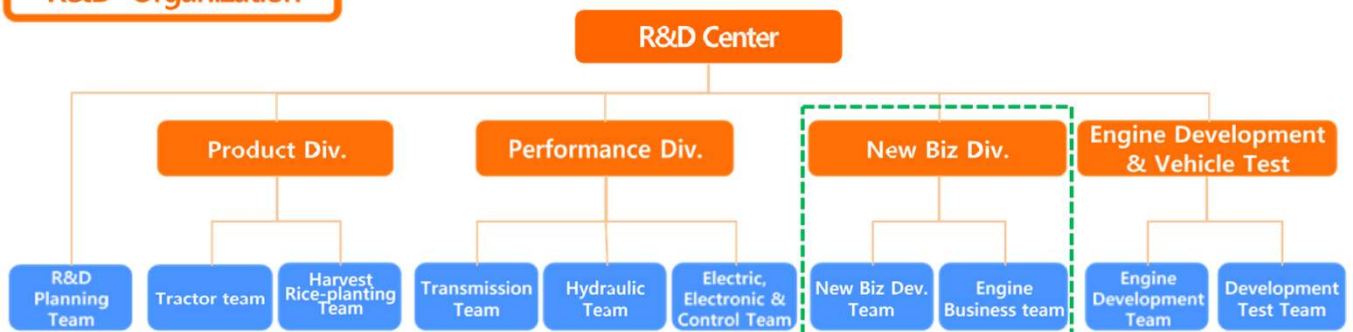
85,950m² (22 acre) of Floor Space



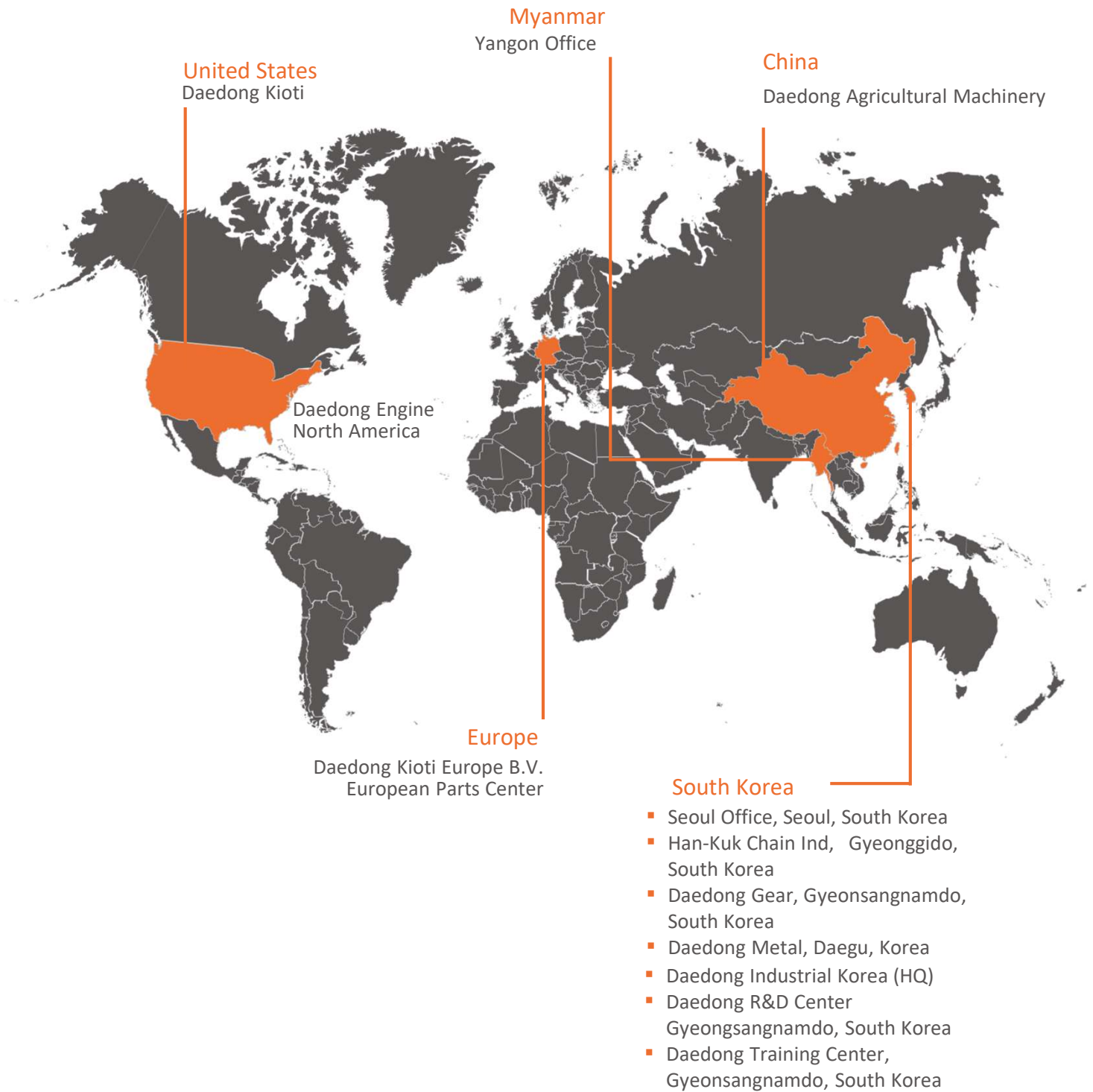
DAEDONG R&D Center



R&D Organization



DAEDONG Global Operation



WHY DAEDONG ENGINE?

FEATURE & STRENGTH

ECO FRIENDLY

Stage V, Exceeding TIER4 F

No more harmful exhaust gas with PM by optimized DPF and ECU mapping

WARRANTY/DURABILITY

3 years/3000 hours
5 years/3000 hours

Superior adaptability at any harsh environment by newly developed high strength block and parts

Longer Service Interval

Fuel filter, 500 hours

Oil filter, 500 hours

Valve adjustment, 800 hours

DPF, 3000 hours

warranty, 3 year-3000 years

ECONOMICAL SOLUTION

Lower fuel consumption
by CRDI (1,800 bar)

Accurate fuel injection by optimized ECU mapping leads lower fuel consumption and maximized engine power

Better fuel efficiency, low exhaust gas emissions, and lower noise and vibration

ONE-SIDE MAINTAINABILITY

Dip Stick, Oil filter, Fuel filter, valve adjustment

Easy & convenient maintenance



Model:4H243T

Stage V/Tier 4 Final



EXPERIENCE & TECH SUPPORT

VERIFICATION

Complete verification of **regeneration control system (DPF)** by long term experience and improvement from **2012**

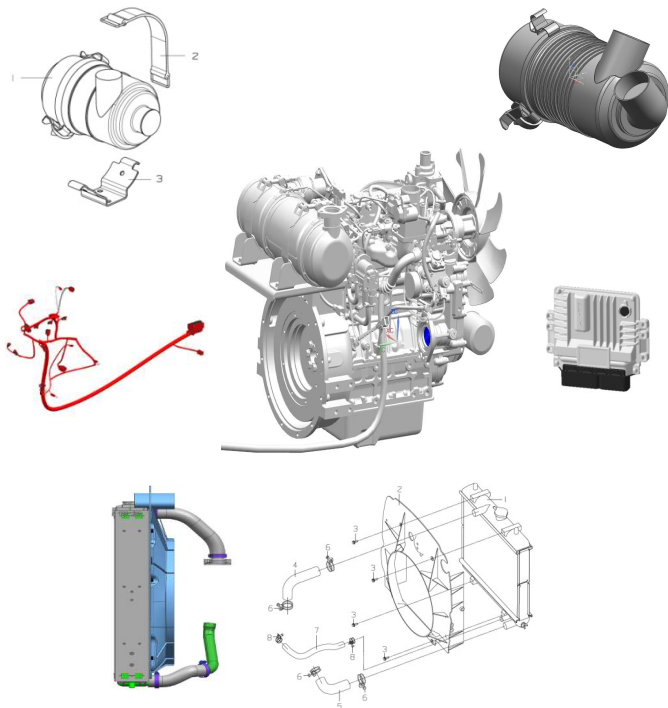
TECHNOLOGY

Secure **various application** technologies for construction, industrial equipment and agricultural machinery

EASY INSTALLATION

Full package ready to hook up

Provides optimized calibration and ECU mapping for the equipments



Why DAEDONG Stage V is prevailing?

Longer warranty, longer maintenance interval, much cleaner exceeding Tier4 Final, higher performance, easy installation, attractive price

Committing
“VALUE FOR INVESTMENT”

- Undergoing rugged and extensive testing, monitoring over **120,000** units in the field of North America
- Highly recognizable reference of ‘KIOTI’ and ‘BOBCAT’ in North America
- Exceeding regulation standard for Tier4 Final Emission
- Providing the single platform of Tier4 and Tier5 with DOC, EGR, and DPF
- Providing high power against weight and superior durability
- Low speed, high torque engines ideal for industrial and generator applications
- Easy installation & full package supply ;
- High ratio of common parts for easy upkeep
- Longer warranty of **3 years** for all and **5 years** for MCM

Specification

Industrial Engine

Performance

	3H183	3H183T	4H243T
Max. Power(kw[hp]/rpm)	29.8[40]/2600	41.0[55]/2600	54.5[73]/2600
Max. Torque(Nm/rpm)	116.8/1800	181/1700	240.5/1700

Technical Feature

	3H183	3H183T	4H243T
Bore x Stroke(mm)	ø87x102.4	ø87x102.4	ø87x102.4
Displacement(cc)	1.826	1.826	2.435
Compression ratio	18.3±0.2:1	17.4±0.2:1	17.4±0.2:1
Engine weight(kg*)	255	260	295
Gradeability (4direction)	30	30°	30
Flywheel housing	SAE No.4	SAE No.4	SAE No.4
Flywheel	Clutch No. 7-1/2	Clutch No. 7-1/2	Clutch No. 7-1/2

Main Characteristics

	3H183	3H183T	4H243T
Cylinder arrangement	in-line 3	in-line 3	in-line 4
Combustor Type	Common Rail Direct Injection(CRDI, 1800 bar)		
Control Type	ECU	ECU	ECU
Aspiration	Natural Aspiration	Turbocharged	Turbocharged
Turbocharger	-	Wastegate Type	Wastegate Type
EGR	External cooled EGR	External cooled EGR	External cooled EGR
After-treatment	DOC+DPF		
Emission compliance	Tier 4 F. Stage V		
Valve arrangement	2 valves per cylinder		

Maintenance

	3H183	3H183T	4H243T
Oil filter change	500 hrs		
Fuel filter change	500 hrs		
Valve adjustment	800 hrs		
DPF ash regeneration	3000 hrs		



Stage V/Tier 4 Final

Model:3



Stage V/Tier 4 Final

Model:3



Stage V/Tier 4 Final

Model:4



Stage V/Tier 4 Final

H183(G)



Stage V/Tier 4 Final

H183T(G)



Stage V/Tier 4 Final

H243T(G)

G-Drive, Generator Engine

Performance

	3H183G	3H183TG	4H243TG
Stand by (kw[hp]/rpm)	20[26.8]/1800 16[21.4]/1500	31[41.6]/1800 26[34.9]/1500	40[53.6]/1800 33[44.2]/1500
Prime (kw[hp]/rpm)	18[24.1]/1800 14[18.8]/1500	28[37.5]/1800 23[30.8]/1500	36[48.3]/1800 30[40.2]/1500

Technical Feature

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Challenge toward 100 years
and sustainable growth



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NORTH AMERICA

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