

SPECIFICATION SHEET

Fuel	Rating	Power hp (kW) 1,800rpm	Power hp (kW) 3,000rpm
Diesel	Intermittent	13.0 (10.0)	23.0 (17.9)
	Continuous	12.0 (9.0)	21.0 (15.7)
	Max. Torque: ft-lb (N-m)	50.0 (61.0) 1,900 rpm	

Rating Definitions: Rated for 1200 - 2800 rpm. (Corrected per SAE J1349)
 Intermittent - For varying intermittent loads with no overload capability.
 Continuous - Continuous prime rating is applicable for supplying power to a varying load for an unlimited amount of running time, with 10% overload capacity available for 1 out of every 12 hours.

STANDARD FEATURES:

DT Power Corp Hyundai Infracore Compact Diesel Engines are designed for efficiency, as well as performance, with the durability and quality you expect. Lower fuel consumption, longer maintenance intervals and maintenance-free after-treatment systems lowers the total cost of ownership over the life of your engine.

With its strong power at small displacement, Hyundai Infracore

Compact Diesel Engines are ideal for a wide variety of equipments. Hyundai Infracore Compact Diesel Engines are designed to optimize the application, with the engine performance.

Key System Features are:

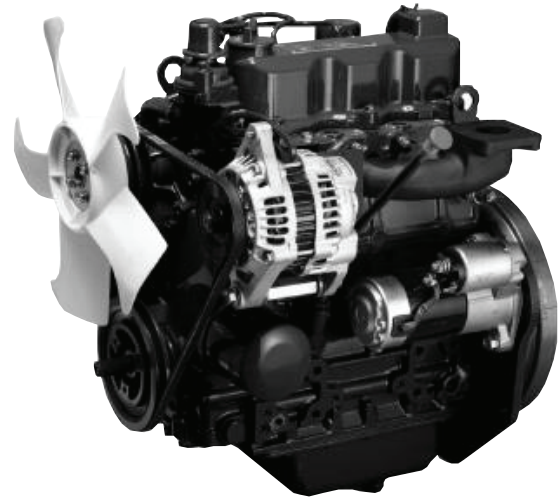
- EPA Tier 4 Engine certified for Industrial applications
- Packaged with flywheel housing to SAE standards
- Flywheel machined to SAE J620 adaptation
- Compact design to adapt to multiple genset applications
- Adds value to generator equipment
- No DPF (Diesel Particulate Filter)
- Strong power and high low-end torque for enhanced performance
- Low total cost of ownership

Engine:

- Hyundai Infracore SU103N
- Rated for high intermittent power with high torque lower down the power curve for better performance
- Cooling system capable of operation at 120°F ambient
- Overhead valve assembly with 2-intake and 2-exhaust valves
- Diesel direct injection
- Bosch K-type mini pump
- ECU Woodward APECS 4800
- Naturally aspirated
- Compression ratio 21.0:1
- DOC (Diesel Oxidation Catalyst) aftertreatment

Engine Mountings and Drive Configuration:

- SAE #5 flywheel housing
- Suitable for the connection of multiple drive systems
- Engine configured to fit almost any type of equipment
- Fittings for mounting exhaust, radiator, and air cleaner
- All rotating surfaces protected with guards
- Oil and water drain lines



MODEL DTP10-1
Industrial Engine

Maintenance:

- Oil filter change 500-hours
- Fuel filter change 500-hours
- Valve adjustment after 1000-hours

After Treatment:

While traditional engine makers are relying on conventional technologies to satisfy the regulations of emission control, Hyundai Infracore Infracore has developed a unique after-treatment system. Hyundai Infracore Compact Diesel engines use a Non-DPF System which is a much simpler system than the DPF-type systems solutions – no concerns on maintenance or quality issues.

Consider the benefits:

- Elimination of unnecessary parts (DPF with complicated sensors, wires, diagnosis lamp and etc)
- Prevention of after-treatment quality issues
- Maintenance – Free (No regeneration process and ash cleaning required)

Advanced Fuel Injection System:

The fuel injection system of Hyundai Infracore Compact Diesel Engines utilize the most advanced design for fuel mixing and combustion within the cylinder head. The Bosch K-type mini pump provides the latest in small compact diesel direct injection technology.

- Low exhaust gas emission
- Low noise vibration
- Better fuel efficiency
- Optimized governing for each application

WARRANTY:

- Engine covered under the original equipment manufacturer's warranty - consult DT Power Corp for details

The manufacture reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

TIER 4 FINAL INDUSTRIAL ENGINES

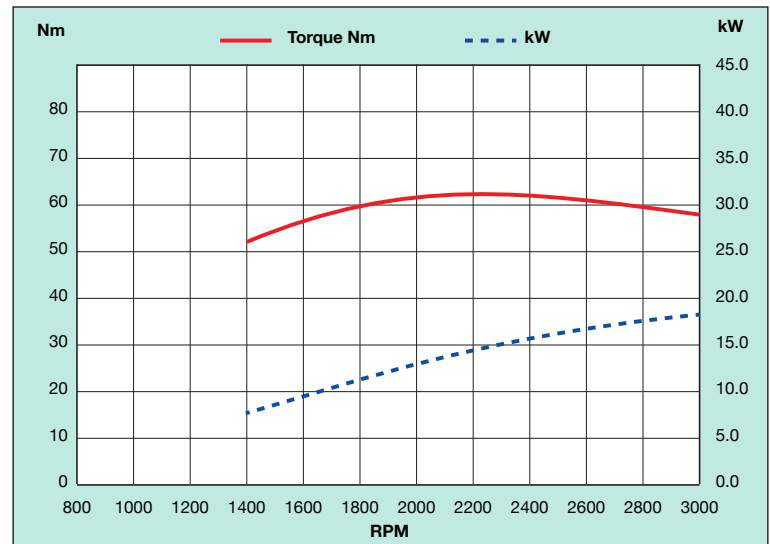
ENGINE: Hyundai Infracore FUEL: Diesel

DRIVE ASSEMBLY:	
Configuration	Bare engine with mounting points
Drive connections	SAE housing
Operation	Manual
Drive shaft speed rpm	up to 2,800 rpm
ENGINE SPECIFICATION:	
Manufacturer	Hyundai Infracore
Model	SU103N
Emissions	Tier 4 - Final & Stage IIIB
Crankshaft speed	3,000 rpm
Engine Type & Combustion	Diesel Direct Injection
Fuel Injection System	Bosch K-type mini pump
Fuel Pressure	Mechanical centrifugal
Aspiration	Naturally Aspirated
Diesel fuel grade	EN590 : 2009 Diesel
Cylinder Arrangement	In-line 3
Displacement in ³ (liters)	61.45 (1.001)
Bore and stroke ins (mm)	2.95 X 2.99 (75 X 76)
Peak power hp (kW) @ 2800 rpm	24.0 (17.9)
Cooling	Water Cooled
Engine Control	Woodward APECS 4800
Compression ratio	21.0:1
Air cleaner type	Canister air cleaner
Aftertreatment	Diesel Oxidation Catalyst DOC
Ventilation System	Closed-Circuit Ventilation
Max. back pressure - ins H ₂ O (kPa)	39.39 (9.8)
Rotation viewed on flywheel	Counter clockwise
Flywheel housing	SAE No.5
Sound at 1m from engine block dB(A)	TBA
Max. Exh. Temp at full load degrees °F (°C)	932 (500)
Exhaust Gas Flow - ft ³ /min (m ³ /min)	54.0 (1.53) 3000rpm
COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT:	
Water pump belt driven	Centrifugal type
Eng. Cooling air flow - ft ³ /min (m ³ /min)	51.9 (1.47) 3000rpm
Engine Coolant Capacity gallons (Liters)	0.42 (1.6)

FUEL CONSUMPTION 1800 RPM	Continuous / {Intermittent}
100%	1.35 (5.0)/{1.51 (5.7)}
75%	TBA
50%	TBA
25%	TBA
LUBRICATION SYSTEM	
Oil pan capacity with filter - quarts	4.02 (3.8)
Recommended lubricating oil grade	15W 40
Oil pump	Gear type driven by crankshaft
Oil consumption at full load	< 0.1% of fuel consumption
Oil Filter	Full flow, cartridge type
Oil pressure min. - psi (kPa)	35.5 (245)
ELECTRICAL SYSTEM	
Battery charger	12 volt x 75A Alternator
Starting motor	12 volt x 2.7kW
Wet cell battery	Lead Acid
Battery Capacity recommended	64AH, 950CCA
Starting Aid	Glow Plugs

17.9kW (23hp)

DTP10-I Power Curves



ARRANGEMENT DRAWING & DIMENSIONS MODEL: DTP10-I Industrial Diesel

KEY DIMENSIONS AND WEIGHT		
Description	Key	Inches
Height	H	21.8
Length	L	20.2
Width	W	19.0
Shaft Height	SH	TBA
Dry Weight lbs (Kg)		222 (101)
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