

SPECIFICATION SHEET

Fuel	Rating	Power hp (kW) 2,400rpm	Power hp (kW) 2,800rpm
Diesel	Intermittent	67.0 (50.0)	72.0 (54.0)
	Continuous	60.0 (45.0)	64.0 (48.0)
	Max. Torque: ft-lb (N-m)	206.5 (280.0) 1,800 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 OEM applications
- Adds value to off-highway equipment
- No DPF (Diesel Particulate Filter)
- Strong power and high low-end torque for enhanced performance
- Low total cost of ownership

Engine:

- Hyundai Infracore D24
- 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
- DELPHI DFP 4.4 injection pump for direct injection engine
- High Pressure Common Rail operating at 1800 bar
- Full electronic engine management with ECU governor control
- External cooled EGR
- Aspiration as waste gate type turbo-charged with inter-cooler
- DOC (Diesel Oxidation Catalyst) aftertreatment

Engine Mountings and Drive Configuration:

- SAE #4 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 DTP24-I
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 is 1,800 bar common rail system. The advanced fuel injection system enables accurate fuel injection control thanks to high pressure of the common rail.

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

WARRANTY:

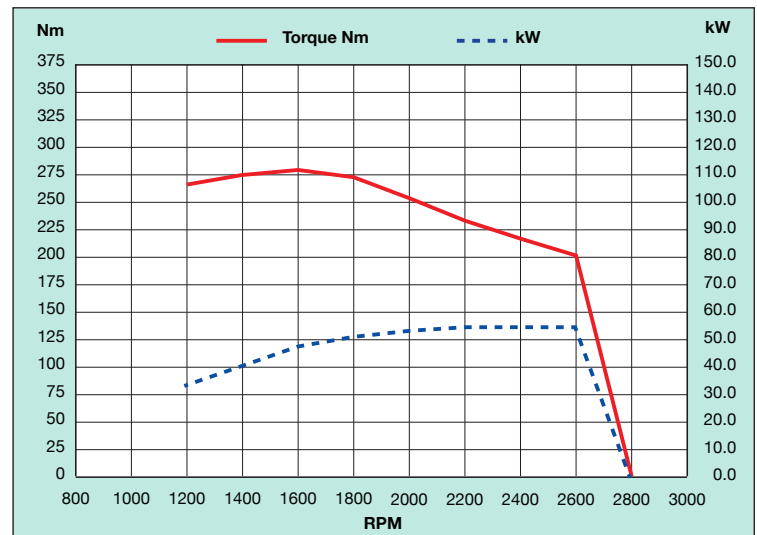
- Engine covered under the original equipment manufacturer's warranty - consult DT Power Corp for details

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	D24
Emissions	Tier 4 - Final & Stage IIIB
Crankshaft speed	1,800 rpm
Engine Type & Combustion	Diesel Direct Injection
Fuel Injection System	High Pressure Common Rail
Fuel Pressure	1800 bar
Aspiration	Turbo-Charged & Intercooled
Diesel fuel grade	EN590 : 2009 Diesel
Cylinder Arrangement	In-line 4
Displacement in ³ (liters)	146 (2.392)
Bore and stroke ins (mm)	3.53 X 3.92 (90 X 94)
Peak power hp (kW) @ 2800 rpm	74 (55.0)
Cooling	Water Cooled
Engine Control	Full Electronic Engine Management
Compression ratio	17.0:1
Air cleaner type	Canister air cleaner
Aftertreatment	Diesel Oxidation Catalyst DOC
Ventilation System	Closed-Circuit Ventilation
Max. back pressure - ins H ₂ O (kPa)	32.95 (8.2)
Rotation viewed on flywheel	Counter clockwise
Flywheel housing	SAE No.4
Sound at 1m from engine block dB(A)	87.8
Max. Exh. Temp at full load degrees °F (°C)	819 (437)
Exhaust Gas Flow - ft ³ /min (m ³ /min)	112 (3.17) Standby
COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT:	
Water pump belt driven	Centrifugal type
Eng. Cooling air flow - ft ³ /min (m ³ /min)	162.0 (4.603)
Engine Coolant Capacity gallons (Liters)	1.06 (4.0)

FUEL CONSUMPTION	Continuous / {Intermittent}
100%	2.96 (11.2) / {3.41 (12.9)}
75%	2.25 (8.5) / {2.56 (9.7)}
50%	1.61 (6.1) / {1.77 (6.7)}
25%	0.95 (3.6) / {1.00 (3.8)}
LUBRICATION SYSTEM	
Oil pan capacity with filter - quarts	9.01 (8.6)
Recommended lubricating oil grade	10W30 CJ-4
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)	43.5 (300)
ELECTRICAL SYSTEM	
Battery charger	12 volt x 75A Alternator
Starting motor	12 volt x 2.7kW
Wet cell battery	Lead Acid
Battery Capacity recommended	100 AH, 950CCA
Starting Aid	Glow Plugs

55.4kW (74.3hp)
DTP24-I Power Curves

ARRANGEMENT DRAWING & DIMENSIONS MODEL: DTP24-I Industrial Diesel Engine

KEY DIMENSIONS AND WEIGHT		
Description	Key	Inches
Height	H	30.0
Length	L	34.0
Width	W	21.0
Shaft Height	SH	8.0
Dry Weight lbs (Kg)		448 (204)
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