MODEL: DTP10-I

TIER 4 FINAL INDUSTRIAL ENGINES

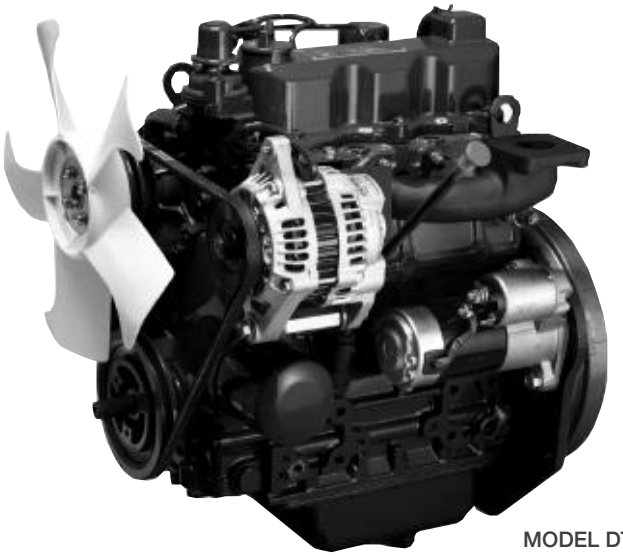
FUEL: Diesel

ENGINE: Doosan

SPECIFICATION SHEET

Fuel	Rating	Power hp (kW) 1,800rpm	Power hp (kW) 3,000rpm
Diesel	Intermittent	13.0 (10.0)	24.0 (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.



MODEL DTP10-1
Industrial Engine

STANDARD FEATURES:

DT Power Corp Doosan 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, Doosan Compact Diesel Engines are ideal for a wide variety of equipments. Doosan 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:

- Doosan 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

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, Doosan Infracore has developed a unique after-treatment system.

Doosan 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 Doosan 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

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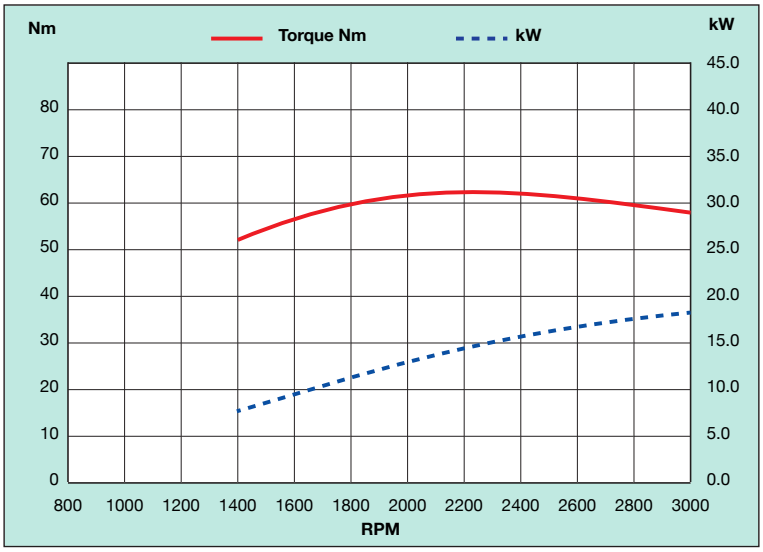
ENGINE: Doosan **FUEL:** Diesel

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	Doosan
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 in³ (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_2O (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 ºF (ºC)	932 (500)
Exhaust Gas Flow - ft³/min (m³/min)	54.0 (1.53) 3000rpm
COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT:	
Water pump belt driven	Centrifugal type
Eng. Cooling air flow - ft³/min (m³/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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