

SPECIFICATION SHEET

| Fuel | Rating | Power hp (kW) 2,400rpm | Power hp (kW) 2,800rpm |
|--------|--------------------------|---------------------------|---------------------------|
| Diesel | Intermittent | 33.0 (24.6) | 49.0 (36.6) |
| | Continuous | 29.7 (22.2) | 44.1 (32.9) |
| | Max. Torque: ft-lb (N-m) | 121.7 (165.0) 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:

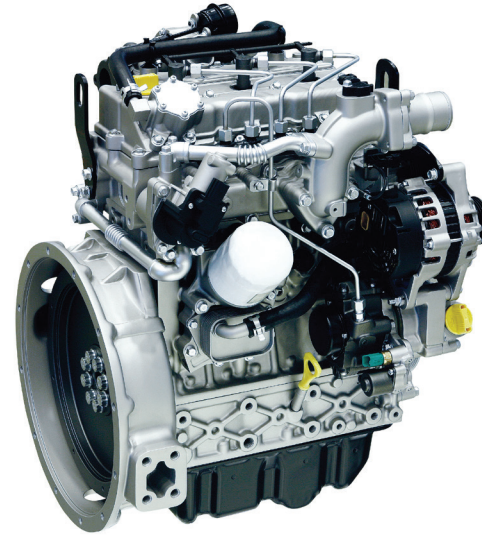
- EPA Tier 4 Engine certified for Industrial applications
- Packaged with flywheel housing to SAE standards
- Flywheel machined to SAE J620 adaptation
- Compact design to adapt to multiple OEM applications
- Adds value to off-highway equipment
- No DPF (Diesel Particulate Filter)
- Strong power and high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

Engine:

- Hyundai Infracore D18
- 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 DTP18-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

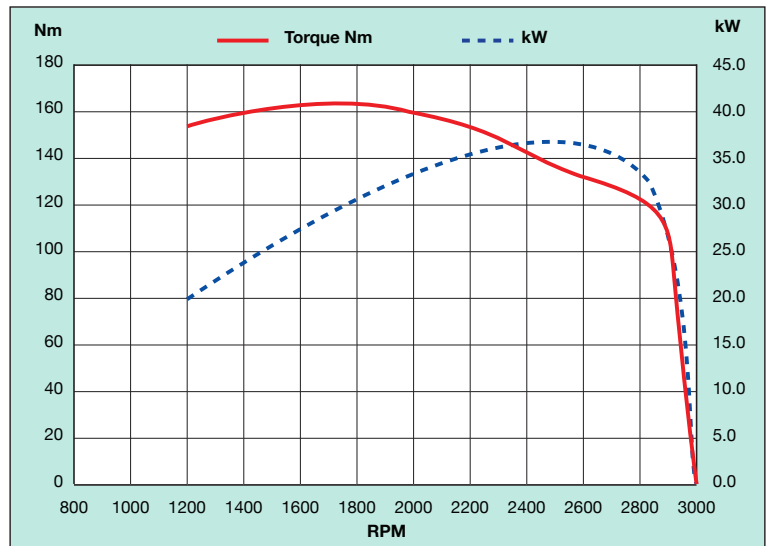
ENGINE: Hyundai Infracore **FUEL:** Diesel

| 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 | D18 |
| Emissions | Tier 4 - Final & Stage IIIB |
| Crankshaft speed | 2,800 rpm |
| Engine Type & Combustion | Diesel Direct Injection |
| Fuel Injection System | High Pressure Common Rail |
| Fuel Pressure | 1800 bar |
| Aspiration | Turbo-Charged & Inter-cooled |
| Diesel fuel grade | EN590 : 2009 Diesel |
| Cylinder Arrangement | In-line 3 |
| Displacement in ³ (liters) | 110 (1.794) |
| Bore and stroke ins (mm) | 3.53 X 3.92 (90 X 94) |
| Peak power hp (kW) @ 2800 rpm | 49.1 (36.6) |
| 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) | 21.70 (5.4) |
| Rotation viewed on flywheel | Counter clockwise |
| Flywheel housing | SAE No.4 |
| Sound at 1m from engine block dB(A) | 87.2 |
| Max. Exh. Temp at full load degrees °F (°C) | 752 (400) |
| Exhaust Gas Flow - ft ³ /min (m ³ /min) | 67.1 (1.9) Intermittent |
| COOLING SYSTEM FOR OPERATING AT 120°F AMBIENT: | |
| Water pump belt driven | Centrifugal type |
| Eng. Cooling air flow - ft ³ /min (m ³ /min) | 121.0 (3.426) |
| Engine Coolant Capacity gallons (Liters) | 0.87 (3.3) |

| FUEL CONSUMPTION | Continuous / {Intermittent} |
|---------------------------------------|--------------------------------|
| 100% | 1.80 (6.8) / {2.09 (7.9)} |
| 75% | 1.43 (5.4) / {1.61 (6.1)} |
| 50% | 1.00 (3.8) / {1.14 (4.3)} |
| 25% | 0.66 (2.5) / {0.69 (2.6)} |
| LUBRICATION SYSTEM | |
| Oil pan capacity with filter - quarts | 6.66 (6.31) |
| 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) | 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 |

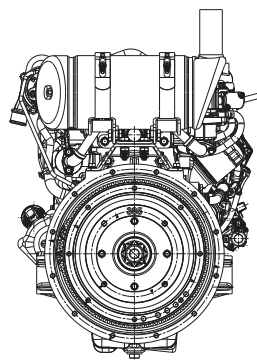
36.6kW (49hp)

DTP18-I Power Curves

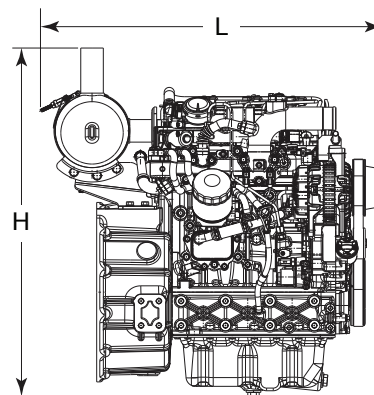


ARRANGEMENT DRAWING & DIMENSIONS MODEL: DTP18-I Industrial Diesel

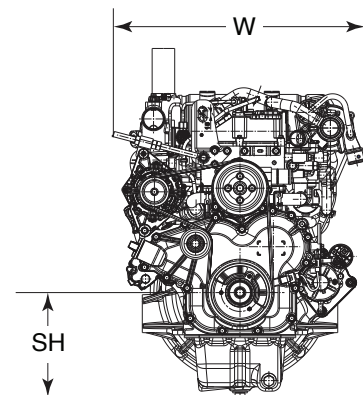
| KEY DIMENSIONS AND WEIGHT | | |
|--|-----|-----------|
| Description | Key | Inches |
| Height | H | 30.3 |
| Length | L | 29.15 |
| Width | W | 22.3 |
| Shaft Height | SH | TBA |
| Dry Weight lbs (Kg) | | 436 (198) |
| DT Power Corp 5820 NW 84 th Avenue Miami, Florida 33166 Call: 305.592.9745 | | |



Flywheel End



RH Side



Gear End