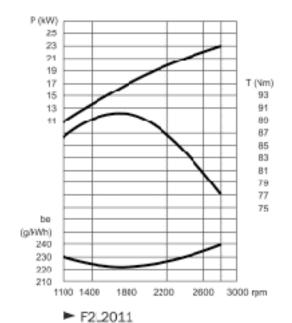
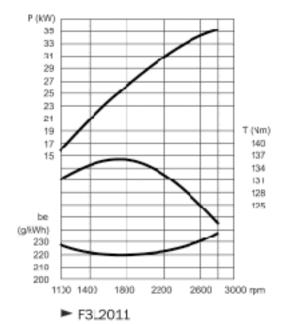
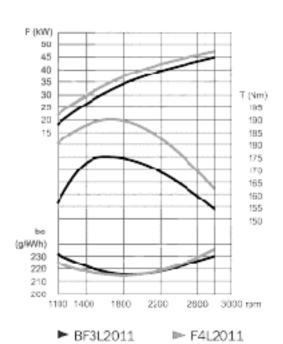
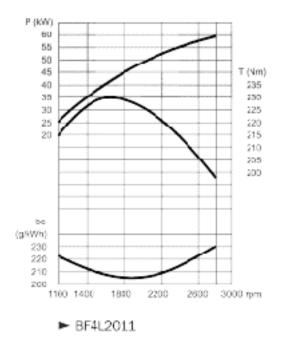
BDC for engine manuals and specs https://barringtondieselclub.co.za/

Standard engines











Knowing it's DEUTZ.

DEUTZ AG

Deutz-Mülheimer Str. 147-149 D-51057 Köln

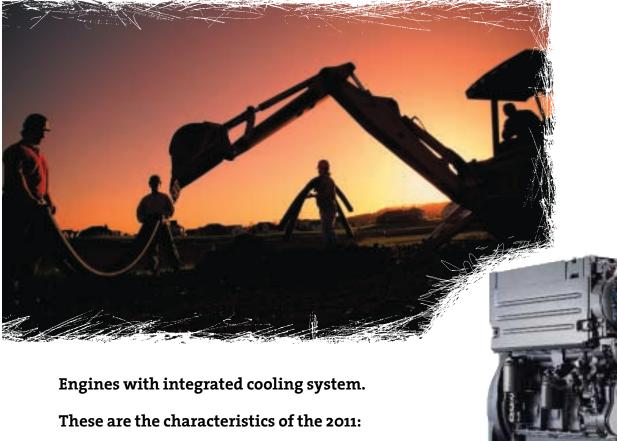
Telefon: ++49 (o) 2 21-8 22-25 10 Telefax: ++49 (o) 2 21-8 22-25 29 Internet: http://www.deutz.de



2011. The engine for construction.

DEUTZ

12 - 58.1 kW at 1500 - 2800 rpm



2-, 3- and 4-cylinder naturally aspirated in-line engines.

3- and 4-cylinder engines also turbocharged.

 $Integrated\ cooling\ system\ (engine\ is\ supplied\ complete\ with\ heat\ exchanger).$

Cooling and lubrication with oil.

14% more power output in comparison to the successor 1011F.

100% extended belt change interval.

PTO for hydraulic pump drive is increased by 55%.

All service points on one engine side.

Compact engine design.

Your benefit:

- Designed specifically for construction equipment the dimensions of the engines are extremely compact. Thus reducing installation costs.
- The new engines, which display an exceptional power /weight ratio, perform brilliantly while at the same time complying with the stricter regulations on environmental protection.
- Cooling and lubrication with oil avoid corrosion and cavitation. High reliability combined with long maintenance intervals and less wear parts.
- Low noise emission, no expensive insulation measures for noise reduction.

BDC for engine manuals and specs https://barringtondieselclub.co.za/

▶ Engine Description

Type of cooling: Integrated oil cooling

Crankcase: Grey cast iron

Crankcase breather:...

... Closed-circuit breather

Cylinder head: Block-type cast iron cylinder head

Valve arrangement/

Timing: Overhead valves in cylinder head, one inlet and one exhaust valve per cylinder, actuated via

tappets, push rods and rocker arms, driven by toothed belt and camshaft, automatic tensioner.

Piston: Three-ring piston, two compressions rings and one oil scraper ring

Piston cooling: Oil-cooled with spray nozzles

Connecting rod: Drop-forged steel rod

Crankshaft

and big-end bearings:..... Ready-to-install plain bearings

Crankshaft: Modular cast iron

Camshaft: Steel shaft in bi-metal bearings

Lubrication system: Forged-feed circulation lubrication with rotary pump which feeds both lubrication

and cooling systems (and cab heating if fitted)

Lube oil cooler: Integrated, of light metal

Lube oil filter: Paper-type micro-filter as replaceable cartridge full flow filter

injection pump/

Governor: Single injection pumps with mechanical centrifugal governor

Fuel lift pump: Serviceable, with integrated strainer

injection nozzle: Five-hole nozzle

Fuel filter: Replaceable cartridge

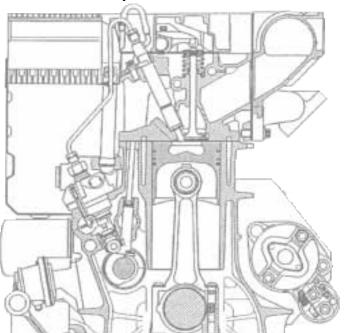
Alternator: Three-phase alternator, 14 V; 60 A (Standard)

Starter motor: 2,3 kW; 12 V

Heating system: Optional connection for cab heating

Options: Intake manifold connections, exhaust manifolds connections, hydraulic pumps, engine mounts rigid and flexible, oil pans, dipsticks, SAE 3/4/5/6 flywheel housings, alternators 12 and 24 V, oil filter positions horizontal and vertical, oil filler neck

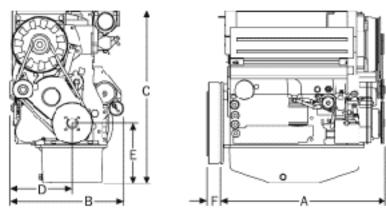
on side of crankcase or cylinder head cover



► Technical Data

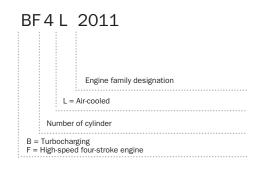
Engine type		F2L2011	F3L2011	BF3L2011	F4L2011	BF4L2011			
Numer of cylinder		2	3	3	4	4			
Bore/stroke	mm	94/112	94/112	94/112	94/112	94/112			
Displacement	1	1.55	2.33	2.33	3.11	3.11			
Compression ratio		18.5	18.5	17.5	18.5	17.5			
Max. rated speed	rpm	2800	2800	2800	2800	2800			
Mean piston speed	m/s	10.45	10.45	10.45	10.45	10.45			
Power ratings for construction equipment engines ¹⁾									
Power ratings for automotive-									
and industrial engines 2)	kW	23.0	35.8	44.9	47.8	58.1			
at speed	rpm	2800	2800	2800	2800	2800			
Mean effective pressure	bar	6.36	6.58	8.26	6.59	8.01			
Power ratings for cont. operation ³⁾	kW	21.8	34.0	42.6	45.4	55.1			
at speed	rpm	2800	2800	2800	2800	2800			
Mean effective pressure	bar	6.03	6.25	7.83	6.26	7.60			
Max. torque	Nm	90	137	176	190	230			
at speed at speed	rpm	1700	1700	1600	1700	1600			
Minimum idle speed	rpm	900	900	900	900	900			
Specific fuel consumption 4)	g/kWh	220	218	212	214	205			
Weight to DIN 70020, Part 7A ⁵⁾	kg	175	216	221	254	255			

Dimensions



Engine type		Α	В	C*	D	E	F
F2L2011	mm	407	451	683	243	225	80
F3L2011	mm	519	451	678	243	220	80
BF3L2011	mm	519	495	678	343	220	93
F4L2011	mm	630	451	703	243	245	80
BF4L2011	mm	630	495	703	243	245	80

Model designation



- 1) Power ratings at flywheel net, incl. integrated cooling system.
- 2) For intermittent operation to ISO 3046-1/ISO 1585.
- 3) Fuel stop power acc. to 3046/1 (ICFN).4) At optimal operating point. Specific fuel consumption
- based on diesel fuel with a specific gravity of 0.835 kg/dm ³ at 15°C.
- 5) Including integrated cooling system, dry weight
- * With standard oil pan.

The values given in this data sheet are for information purposes only and not binding. The information given in the offer is decisive.