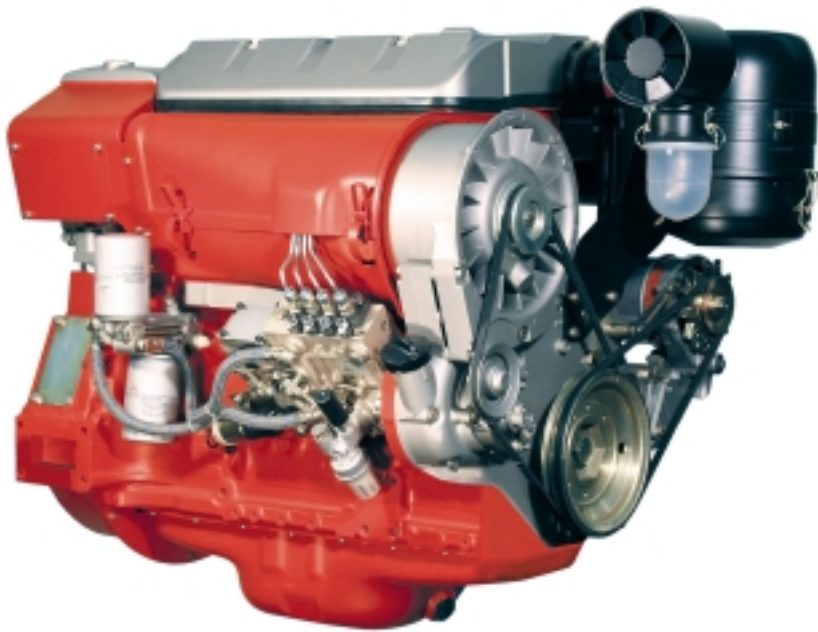


# D 914

The Agricultural Engine.  
43–129.9 kW | 57.7–174.2 hp at 2300 rpm



The engine company.



## Standard specification

<b>Cooling system:</b>	Air-cooled with integrated axial-flow blower.
<b>Crankcase:</b>	Grey cast iron.
<b>Cylinder head:</b>	Aluminium single cylinder heads.
<b>Valve arrangement/ timing:</b>	Overhead valves in the cylinder head, one inlet and one exhaust valve per cylinder, actuated via tappets, push-rods and rocker arms, driven by gears and camshaft.
<b>Piston:</b>	Three-ring piston: two compression rings and one oil scraper ring.
<b>Piston cooling:</b>	Oil spray via nozzle.
<b>Connecting rod:</b>	Drop-forged steel rod, diagonally split.
<b>Crankshaft:</b>	Nodular cast iron with integrated counterweights.
<b>Camshaft:</b>	Steel, seated in bi-metal bearing on the blower side.
<b>Lubrication system:</b>	Forced-feed circulation lubrication with rotary pump which feeds both lubricating and heating systems (if heating is fitted).
<b>Engine oil cooler:</b>	Integrated aluminium cooler.
<b>Oil cooler thermostat:</b>	Oil cooler flow thermostatically controlled on engines with heating system.
<b>Lube oil filter:</b>	Paper-type micro-filter as replaceable-cartridge full flow filter.
<b>Injection pump/ governor:</b>	High Pressure in-line injection pump with mechanical centrifugal governor.
<b>Injection nozzle:</b>	Five-hole-nozzle.
<b>Fuel filter:</b>	Replaceable cartridge.
<b>Starter motor:</b>	12V; 3.0 kW (standard).
<b>Alternator:</b>	Three-phase alternator, 14V; 55A (standard).
<b>Heating system:</b>	Optional connection for cab heating.
<b>Options:</b>	Integrated hydraulic cooler with max. cooling capacity up to 43 kW, intake manifold connections, exhaust manifold connections, compressors hydraulic pumps, engine mounts rigid and flexible, oil pans cast in self supporting design (3, 4, 5 and 6-cylinder engines), SAE 1/2/3/4 flywheel housing, three-phase alternators 12V and 24V, integrated hydraulic oil cooler.

# Characteristics

Air-cooled 3- to 6-cylinder naturally aspirated in-line-engines | 6-cylinder turbocharged, charge air cooled | Displacement: 1.1 liter/cylinder | Modular system with single cylinder units | Advanced injection and combustion system | Worldwide approved: more than 4.5 million engines in use | 100 percent power take-off on the flywheel side and on the face end | Possibility of power take-off for hydraulic pumps and compressor | Only few maintenance points | Compact power-pack with low weight

## Your benefits

- Space saving and cost effective installation due to low weight and same installation dimensions as previous emission standard.
- Low maintenance requirements and legendary durability.
- Low exhaust emissions, meets exhaust regulations 2004/26/EU, Step 3A and U.S.A. Nonroad CFR 40, Part 89, Tier 3 / Tier 4 interim.
- Combination of high quality and ingeniously simple design.
- Global service network with over 1,000 locations.

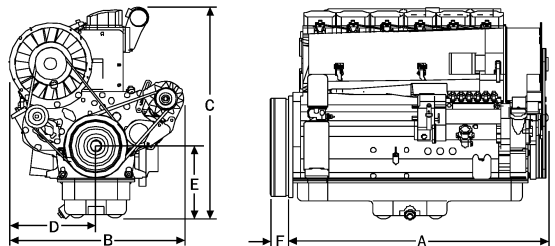
Engine type		D 914 L3	D 914 L4	D 914 L5	D 914 L6	TCD 914 L6
Number of cylinders		3	4	5	6	6
Bore/stroke	mm	102/132	102/132	102/132	102/132	102/132
	inch	4.01/5.19	4.01/5.19	4.01/5.19	4.01/5.19	4.01/5.19
Swept volume	l   cu. inch	3.2   197	4.3   263	5.4   329	6.5   395	6.5   395
Compression ratio		1 : 21	1 : 21	1 : 21	1 : 21	1 : 19
Maximum rated speed	rpm	2300	2300	2300	2300	2300
Mean piston speed	m/s   ft-sec	10   32.8	10   32.8	10   32.8	10   32.8	10   32.8

### Performance for agricultural engines <sup>1)</sup>

Power rating	kW gross   hp	43   57.7	58   77.8	72.5   97.2	86.5   116.0	129.9   174.2
At speed	rpm	2300	2300	2300	2300	2300
Mean effective pressure	bar   psi	6.9   100.0	7.0   101.5	7.0   101.5	7.0   101.5	10.5   152.2
Power ratings for installed engines						
Highly intermittent operation	kW gross   hp	43   57.7	58   77.8	72.5   97.2	86.5   116.0	129.9   174.2
At speed	rpm	2300	2300	2300	2300	2300
Mean effective pressure	bar   psi	6.9   100.0	7.0   101.5	7.0   101.5	7.0   101.5	10.5   152.2
Intermittent operation	kW gross   hp	41   55	55   73.8	68.5   91.8	74.9   100.4	126   169
At speed	rpm	2300	2300	2300	2150	2300
Mean effective pressure	bar   psi	6.6   95.7	6.6   95.7	6.6   95.7	6.5   94.3	10.2   147.9
Max. torque	Nm   lb-ft	202   148.9	270   199.1	333   245.6	375   276.6	620   457.2
At speed	rpm	1500	1500	1500	1500	1600
Minimum idle speed	rpm	650	650	650	650	650
Specific fuel consumption <sup>2)</sup>	g/kWh   lb/hp-hr	220   0.362	220   0.362	215   0.353	215   0.353	215   0.353
Weight to DIN 70020, part 7A <sup>3)</sup>	kg   lb	284   626.1	315   694.4	390   859.8	440   970.0	510   1124.4

### Dimensions

in mm	A	B	C	D	E	F	A+F
D 914 L3	595.0	696.0	795.0	346.0	267.0	108.5	703.5
D 914 L4	725.0	696.0	796.0	346.0	268.0	86.0	811.0
D 914 L5	870.0	696.0	833.0	346.0	305.0	88.5	958.5
D 914 L6	995.0	675.5	885.0	335.0	341.0	88.5	1083.5
TCD 914 L6	1174.0	720.0	987.5	363.0	328.0	88.0	1262.0
in inch							
D 914 L3	23.4	27.4	31.3	13.6	10.5	4.3	27.7
D 914 L4	28.5	27.4	31.3	13.6	10.5	3.4	31.9
D 914 L5	34.2	27.4	32.8	13.6	12.0	3.5	37.7
D 914 L6	38.2	26.6	34.8	13.2	13.4	3.5	42.7
TCD 914 L6	46.2	28.3	38.9	14.3	12.9	3.5	49.7



1) Output data without cooling system.

2) At optimal operating point without cooling fan, based on diesel fuel with a specific gravity of 0.835 kg/dm<sup>3</sup> at 15 °C (6.96 lb/US gallon at 60 °F).

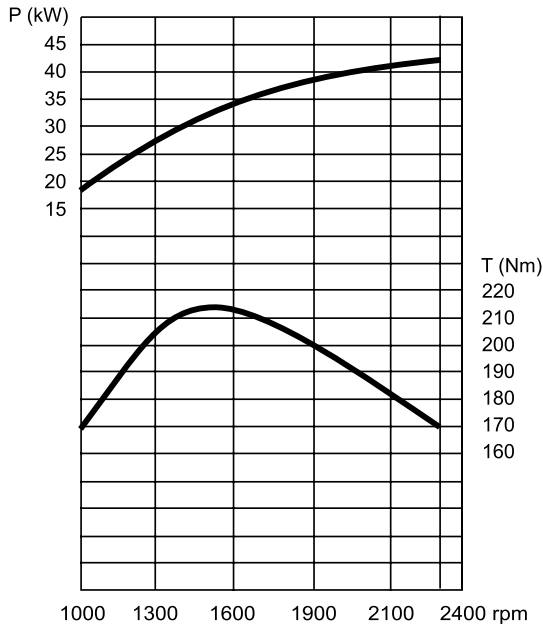
3) Without starter motor/alternator, but with flywheel, flywheel housing, lubricating oil, and cooling system.

The specifications in this data sheet are for information purposes only and are not binding values.

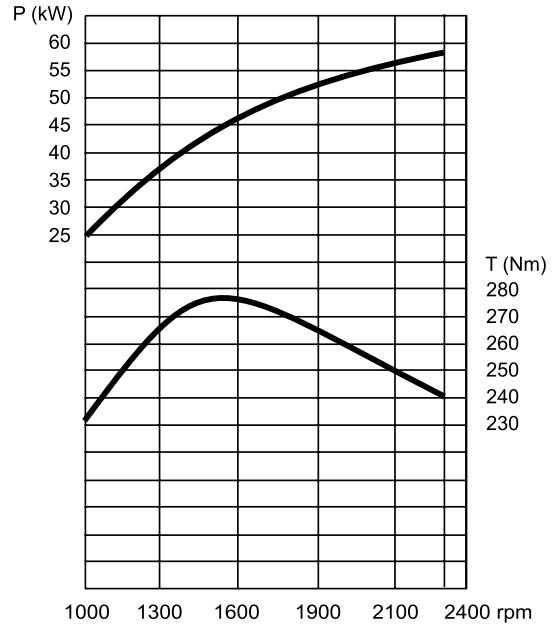
The specifications in the quote are determinative.

# Standard engines

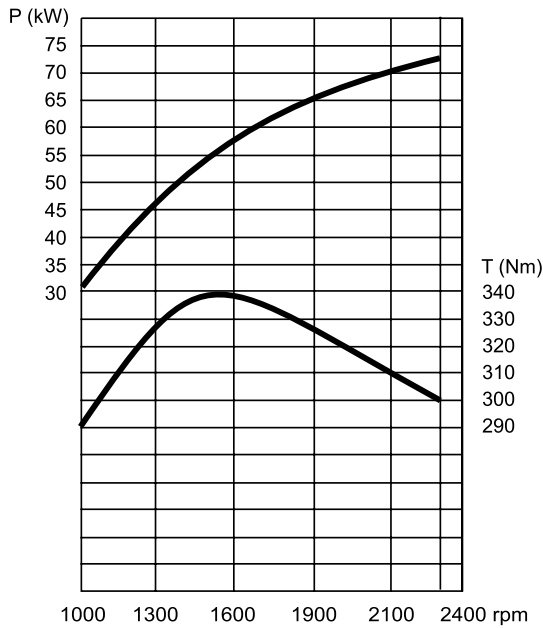
**Engine D 914 L3**



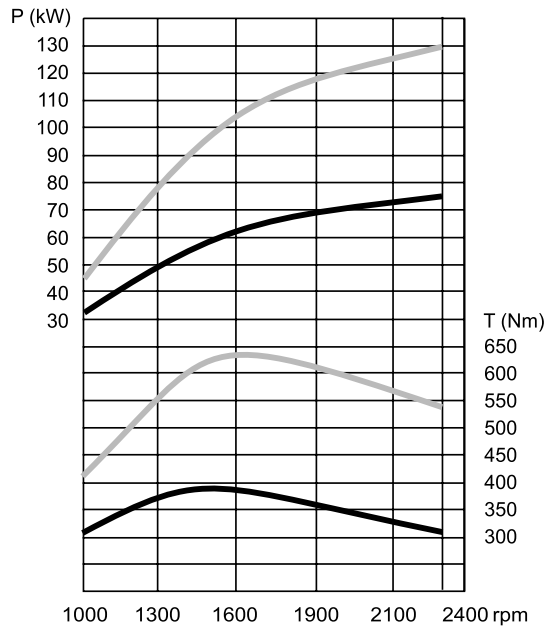
**Engine D 914 L4**



**Engine D 914 L5**



**Engines D 914 L6 | TCD 914 L6**





**Blue Ridge Diesel**  
1016 Delaware Street  
P.O. Box 867, Salem, VA 24153

PHONE (540) 389-7296 - FAX (540) 387-2792



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[info@blueridgediesel.com](mailto:info@blueridgediesel.com)

540-389-7296



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1016 Delaware Street  
P.O. Box 867, Salem, VA 24153

PHONE (540) 389-7296 - FAX (540) 387-2792

