

DLG-Data Sheet Tractors 2003

Deutz-Fahr Agrotron 90 MK3

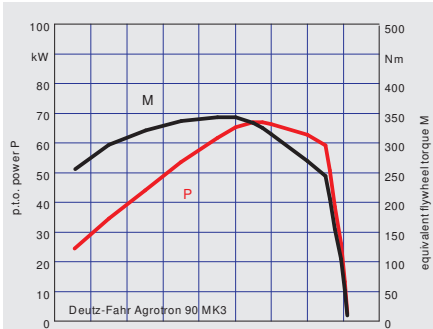
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Engine

Deutz BF4M 1012 EC, rated engine power 65 kW at 2300 min⁻¹, turbocharger, intercooler, 4 cylinder, capacity 3192 cm³, bore 94 mm, stroke 115 mm, water cooled, average pressure 10,6 daN/cm², fuel tank capacity 180 l

Measurement at main power take off

	Rated engine speed 2300 min ⁻¹	Engine speed at max power 1900 min ⁻¹
Power	59,2 kW	66,9 kW
Fuel consumption	19,9 l/h	19,7 l/h
Specific fuel cons.	281 g/kWh	246 g/kWh

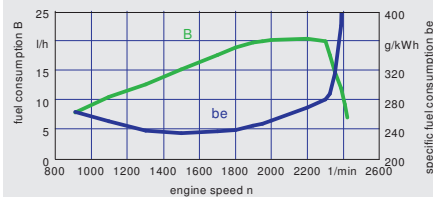


Average fuel consumption of

the 6 measurement points from the governor curve 13,4 l/h, 352 g/kWh

Equivalent flywheel torque

Max. torque 346 Nm at 1800 min⁻¹, torque increase 41 % at a speed drop of 22 %



Torque at engine speed 1000 min⁻¹

116 % rated to the torque at rated engine speed

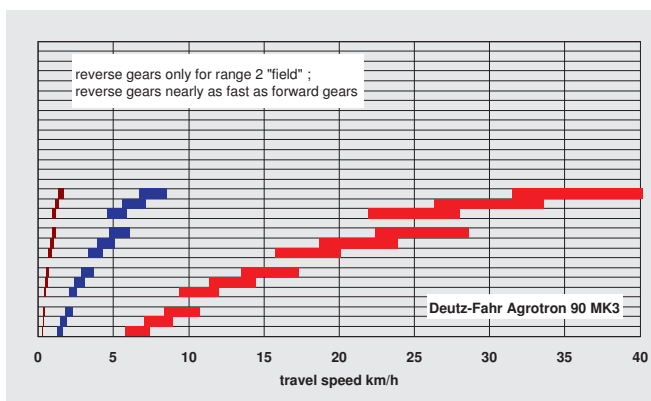
Power take off

Wet multi-disc clutch, electro-hydraulically operated with switch, 1 rear p.t.o., form 1, quadruple shifting, changeable

Standard speed	540	540 E	1000	1000E
Engine speed	2211 min ⁻¹	1543 min ⁻¹	2206 min ⁻¹	1769 min ⁻¹

Gearbox

Wet multi-disc clutch, 36 forward, 12 reverse, selectable gearbox with 4 gears, synchronised, triple power shift range; shuttle gearbox, power shifted, 4 shift levers, 3 switches



Speed scheme arranged by groups, for every gear in the speed range from the engine speed at max. torque to the rated engine speed.

Draw bar power

Max. power 56,4 kW at 9,6 km/h and engine speed 1900 min⁻¹, at 282 g/kWh; at rated engine speed 49,7 kW at 11,8 km/h, at 337 g/kWh

Chassis

All wheel drive, central driving shaft with universal joints, wet multi-disc clutch, electro hydraulically operated front and rear multi-plate differential locks, common electro-hydraulically operated

Front	Tyre 420/70 R 24
Rear	Tyre 420/70 R 24

Brakes

Oil-immersed disc brake at the rear axle, automatic engagement of 4WD, maximum mean deceleration 5,4 m/s² at 48 daN applied pedal pressure

Cab

Same-Deutz-Fahr GC1, 2 doors, rear, front windows tiltable, roof hatch, cooling water heat exchanger, air conditioner

Sound levels at drivers ear

	Unloaded	Under load
At 7.5km/h, nominal gear selected, all openings closed	76,0 dB(A)	77,5 dB(A)
Open	82,0 dB(A)	83,5 dB(A)
In loudest gear, all openings closed	-	-

Hydraulic system

Open centre type; power lift category 2, 2 external cylinders with 80 mm diameter, electronic lower link sensing, front power lift



Oil tapping port

Max flow rate 71,7 l/min; max. hydraulic power 20,4 kW at 195 bar and 62,61 l/min; max. pressure 210 bar; oil together with gearbox with 38 l capacity, available to external cylinders 26 l

Masses/Axle load

Mass	Test tractor	Permissible total mass
Front	1920 kg	2570 kg
Rear	2825 kg	4480 kg
Total	4745 kg	7050 kg

Tractor mass to engine power ratio 73 kg/kW

Dimensions

Width 2325 mm, length 4671 mm, height at top of exhaust silencer pipe 2710 mm, at cab 2765 mm, wheel base 2419 mm, distance from p.t.o. shaft end to trailer hitch 180 mm, distance from p.t.o. shaft end to lower link couplers 540 mm



Test centre

DLG-Prüfstelle für Landmaschinen

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