

PowerMix Datasheet

DLG TEST REPORT 7581

Performance and fuel consumption
in field and transport operations

Massey Ferguson 8S.265 Xtra Dyna E-Power



MASSEY FERGUSON
8S.265 XTRA DEP
PowerMix

DLG Test Report 7581

	Boost	Standard	
Rated power*	204	189	kW
Maximum power*	210	195	kW
According to*	ISO14396		

	Boost	Standard	
Rated power	177	164	kW
Maximum power	190	177	kW
According to	OECD Code 2		

	Diesel	AdBlue	
Energy efficiency	241	24.9	g/kWh
Consumption per hectare	5.4	0.4	l/ha
Area output	9.9		ha/h

	Diesel	AdBlue	
Energy efficiency	334	34.9	g/kWh
Consumption per 100 kilometre per ton	3.9	0.3	l/100tkm
Haul capacity (40km/h)	984		tkm/h

* Manufacturer information



Assessment in brief

The DLG PowerMix is a standardized test procedure in which the German Agricultural Society (DLG) measures the energy efficiency of tractors under conditions that replicate real-life field and transport operations. Testing is carried out on the DLG roller test bench. The resulting data provide a transparent basis for evaluating tractor performance and overall efficiency under consistent and repeatable conditions. The scatter plots below illustrate the results in fuel consumption and productivity.

Field work:

The DLG PowerMix test results for tractors in the power class of 210 kW +/- 20 kW indicate a specific fuel consumption range of 241 g/kWh to 288 g/kWh under standardized field load conditions. The tractor evaluated in this test showed a specific fuel consumption of 241 g/kWh.

Transport work:

In the DLG transport test, tractors within the same power range have achieved specific fuel consumption values between 321 g/kWh and 436 g/kWh. The tested machine showed a fuel consumption of 334 g/kWh.



Performance and fuel consumption during field and transport operations

Performance and fuel consumption during exemplary field work	Engine speed	Driving speed	Delivered net power	Diesel consumption		Ratio AdBlue to Diesel	Specific consumption	
	1/min	km/h	kW	kg/h	l/h	Vol-%	Diesel	AdBlue
							g/kWh	g/kWh
Z1P ¹ ploughing, heavy tine cultivator	1434	7.1	128	30.8	36.9	7.9	240	24.6
Z1G ¹ cultivator, disc harrow	1709	9.7	145	36.2	43.3	7.8	249	25.0
Z2P ¹ mech. seed drill, planter	1348	8.7	95	22.6	27.0	7.9	238	24.6
Z2G ¹ stubble working, seed bed combination	1281	11.6	107	26.3	31.5	8.2	245	26.2
Z3K milling, rotary harrows seeding combination	1624	5.7	158	36.2	43.3	7.6	229	23.0
Z3M cut 1. step, cultivator-rotary harrows-seeding combination	1617	14.0	159	38.0	45.5	7.9	239	24.5
Z4K pneumatic seeding drill, milling as plant care, mulch	1359	5.9	113	25.5	30.5	7.8	225	22.9
Z4M cut 2. step, direct seeding machine	1357	16.2	121	28.4	34.0	8.1	234	24.7
Z5K plant protector, mineral fertiliser, tedder, swather	1367	6.0	65	16.1	19.3	8.0	246	25.7
Z5M cut 3. step, airseeder	1365	16.4	70	18.0	21.6	7.9	258	26.7
Z6MS self-loading wagon, manure spreading	1501	6.5	125	29.8	35.7	8.3	239	25.6
Z7PR high pressure baler, round baler or square baler	1508	10.0	108	26.7	32.0	8.1	248	26.0
							241	24.9

¹ scaled with PTO Power 176.6 KW

	Energy efficiency		Consumption per hectare		Area output
	Diesel g/kWh	AdBlue g/kWh	Diesel l/ha	AdBlue l/ha	ha/h
Heavy pulling work ¹	245	24.79	11.4	0.9	4.1
Medium-duty pulling work ¹	242	25.4	6.9	0.6	4.9
Heavy PTO work	234	23.7	5.0	0.4	12.4
Medium-duty PTO work	230	23.8	3.4	0.3	14.1
Light PTO work	252	26.2	2.1	0.2	14.2
Traction+PTO+hydraulic work	244	25.8	3.5	0.3	9.8

Test conditions fieldwork	Ballasting		Axle load distribution				Total weight	Tire pressure		PTO shaft
	Front	Rear	Front	Rear		kg	Front	Rear	1000/1000E	
	kg	kg	kg	%	kg		bar	bar		
Heavy pulling work	1150	1800	5110	40	7820	60	12930	1.2	1.2	-
Medium-duty pulling work	0	0	4130	41	5900	59	10030	1.2	1.2	-
Heavy PTO work	0	0	4130	41	5900	59	10030	1.2	1.2	1000
Medium-duty PTO work	0	0	4130	41	5900	59	10030	1.2	1.2	1000E
Light PTO work	0	0	4130	41	5900	59	10030	1.2	1.2	1000E
Traction+PTO+hydraulic work	0	0	4130	41	5900	59	10030	1.2	1.2	1000E



Performance and fuel consumption in transport operations

PowerMix - Transport work	Motor speed	Delivered effective power	Specific consumption		Consumption per 100 km and per ton		Transport performance
			Diesel	AdBlue	Diesel	AdBlue	
	min ⁻¹	kW	g/kWh		l/100tkm		tkm/h
Heavy transportation work	1720	128	318	32.8	6.4	0.5	762
Light transport work at 40 km/h	1229	32	444	51.6	1.4	0.1	1206
Light transport work at 50 km/h	1526	41	465	48.7	1.5	0.1	1498
Light transport work at 60 km/h	-	-	-	-	-	-	-
Overall result transportation work 40 km/h			334	34.9	3.9	0.3	984
Overall result transportation work 50 km/h			336	34.7	3.9	0.3	1130
Overall result transportation work 60 km/h			-	-	-	-	-
Idle consumption	1.8	l/h					
Trailer weight	29970	kg					

Test conditions Transport use	Ballasting		Axle load distribution				Total weight	Tire pressure	
	Front	Rear	Front	Rear			Front	Rear	
	kg	kg	kg	%	kg	%	kg	bar	bar
Transportation work	-	-	4130	41	5900	59	10030	1.6	1.6

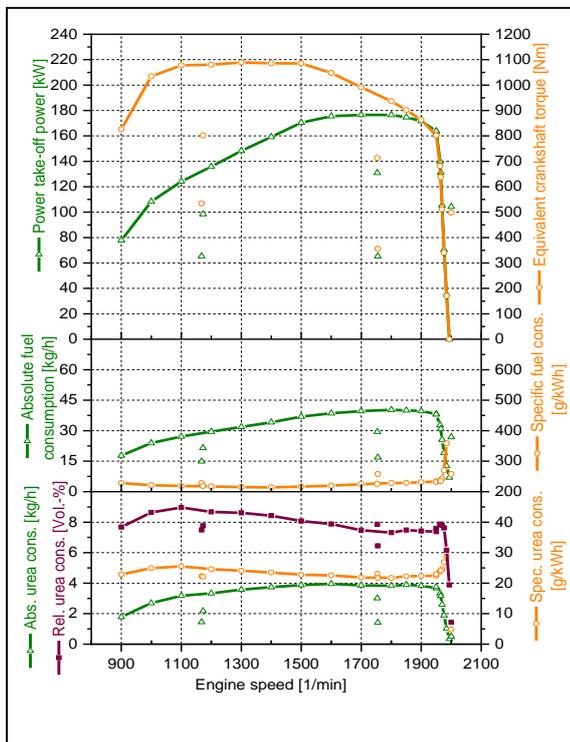
Tires	Front	Rear
Manufacturer/Type	Nokian SoilKing VF	Nokian SoilKing VF
Tire size	600/70 R28	710/70 R42
Equipment		
Pressureless return		Yes
A/C		Yes
Compressor		Yes
Front power lift		Yes
Front PTO (can be disengaged)		No



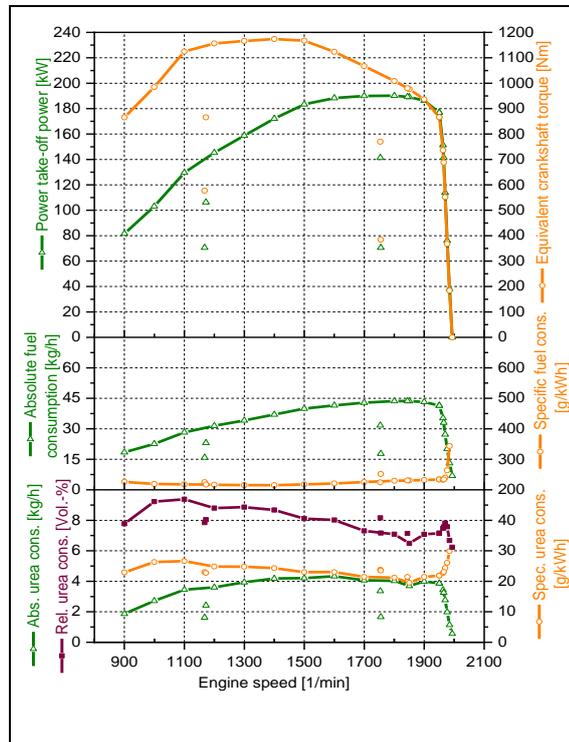
Power Take-Off Power according to OECD Code 2

Measuring point	Engine speed 1/min	PTO power kW	Equiv. Torque Nm	Absolute consumption				Ratio AdBlue to Diesel Vol-%	specific consumption	
				Diesel		AdBlue			Diesel	AdBlue
				kg/h	l/h	kg/h	l/h			
Rated power										
Boost	1950	176.9	866	41.4	49.6	3.9	3.5	7.2	234	21.8
Standard	1950	163.7	802	38.2	45.7	3.7	3.4	7.4	233	22.4
Maximum power										
Boost	1800	190.1	1,009	43.6	52.3	4.0	3.7	7.1	230	21.2
Standard	1800	176.6	937	40.3	48.2	3.8	3.5	7.3	228	21.7
Maximum torque										
Boost	1400	172.1	1,174	37.0	44.3	4.2	3.8	8.7	215	24.3
Standard	1300	148.3	1,089	31.9	38.1	3.6	3.3	8.6	215	24.1
1000 PTO shaft rotation										
Boost	1844	189.3	980	43.6	52.2	4.1	3.7	7.1	231	21.4
Standard	1844	174.5	903	40.0	47.9	3.8	3.5	7.4	229	22.0
Part loads at full throttle										
80 % of boost rated pw.	1965	141.5	688	33.1	39.7	3.3	3.0	7.6	234	23.1
80 % of standard rated pw.	1965	131.2	637	30.9	37.0	3.2	2.9	7.9	235	24.2
Part loads with governor control set to 90% of rated engine speed										
80 % of boost rated pw.	1754	141.4	770	31.7	37.9	3.4	3.1	8.2	224	23.8
80 % of standard rated pw.	1754	130.9	713	29.5	35.3	3.0	2.8	7.9	225	23.1
40 % of boost rated pw.	1755	70.6	384	17.8	21.3	1.7	1.5	7.2	252	23.5
40 % of standard rated pw.	1755	65.3	355	16.9	20.2	1.4	1.3	6.4	258	21.7
Part loads with governor control set to 60% of rated engine speed										
60 % of boost rated pw.	1172	106.3	866	23.1	27.6	2.4	2.2	8.0	217	22.8
60 % of standard rated pw.	1172	98.4	802	21.5	25.8	2.2	2.0	7.8	219	22.2
40 % of boost rated pw.	1168	70.6	577	15.9	19.0	1.6	1.5	7.9	225	23.0
40 % of standard rated pw.	1168	65.4	534	14.9	17.8	1.5	1.3	7.5	228	22.3

Standard



Boost



Technical Data

Engine*			
Manufacturer	Massey Ferguson		
Stage of exhaust emission	5		
Rated engine speed	1950 min ⁻¹		
Motor power according to			
ISO14396	Standard	Boost	
Rated power*	189 kW	204	kW
Maximum power*	195 kW	210	kW
at engine speed*	1850	1850	min ⁻¹
Boost activation Prerequisites			

variable

Exhaust aftertreatment device	
Nitrous gaseous emission	SCR DOC
Particulate emission	Soot catalyst
Time for regeneration (average)	20 min
Regeneration interval:	
- maximum*	1200 h
Replacement intervals	as needed

Exhaust gas recuperation	No
Exhaust-gas turbocharger	Yes
Number of cylinders	6
Bore	108 mm
Stroke	134 mm
Displacement	7400 cm³
Main fan	Vistronic
Diameter	630 mm
Number of fan blades	11
Fan Type	
Tank volume	
Diesel / AdBlue	460 l / 43 l

Transmission	
Manufacturer	GIMA
Type of construction	DCT
Number of ranges	4
Number of gears	7
Forward	28
Reverse	28
Design-related maximum speed	53 km/h

Chassis*			
Front axle			
Manufacturer	DANA		
Type	M50HD 4WD suspended		
Axle load	Front	Rear	Total
Unladen masses	4450 kg	5150 kg	9600 kg
Permissible	6400 kg	11500 kg	16000 kg ²
Technically permissible	7500 kg	13500 kg	- kg

Dimensions*		
Length w/o front linkage	5375 mm	
Width	2750 mm	
Height	3370 mm	
Wheelbase	3050 mm	
Distance hitch points to PTO shaft (lower links horizontal)	Front	Rear
	692 mm	715 mm
Distance axle to hitch points (lower links horizontal)	Front	Rear
	1560 mm	1306 mm
Turning circle	11400 mm	

Rear PTO Shaft*	
Profile	6x 1 3/8", 20 1 3/4"
Transmission ratio	
PTO mode	540 540E 1000 1000E
Engine speed [min ⁻¹]	1867 1499 1903 1528

Front PTO Shaft*	
Profile	6x 1 3/8"
Transmission ratio	
PTO mode	540 540E 1000 1000E
Engine speed [min ⁻¹]	0 0 1920 0

Hydraulic power lift*		
	Front	Rear
Categorie	3	3
Lifting force at the hitch points exerted through full range	3.7 kN	8.7 kN

Hydraulic power*	
System	CCLS (Closed Center Load Sensing System)
Hydraulic oil	separat circuit
Total capacity	115 l
Removable	85 l
Hydraulic flow	
Maximum delivery	150 l/min
Optional	275 l/min
Max. flow at one rear remote	140 l/min
Maximum pressure	200 bar

* Manufacturer data

² up to 50 km/h

Additional information

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DLG-Testframe

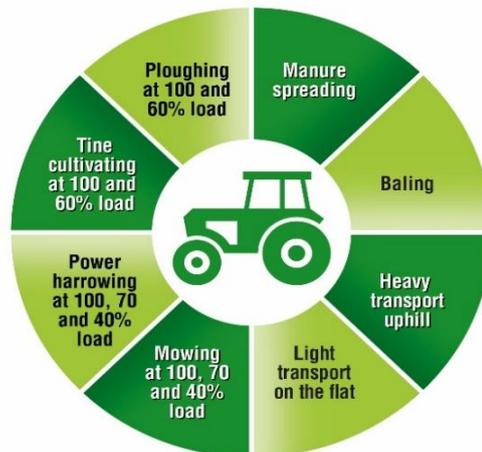
DLG-PowerMix_2.0 (Stand 01/2025)

Department

Vehicle technology

Testing expertise in agricultural technology and equipment

With its methods, test frameworks and awards, the DLG Test Center for Technology and Equipment is a leader in the testing and certification of agricultural technology and equipment. The methods and test profiles are practice-oriented, manufacturer-independent and developed by neutral test commissions. They are based on state-of-the-art measurement and testing procedures, and international standards and norms are also taken into account.



<https://www.dlg.org/powermix>

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