

PowerMix Datasheet

DLG TEST REPORT 7600

Performance and fuel consumption
in field and transport operations

Fendt 826 Vario



AGCO
FENDT 826 VARIO
PowerMix
DLG Test Report 7600

	Boost	Standard	
Rated power*	208	-	kW
Maximum power*	208	-	kW
According to*	ECE-R120		

	Boost	Standard	
Rated power	186	-	kW
Maximum power	189	-	kW
According to	OECD Code 2		

	Diesel	AdBlue	
Energy efficiency	239	28,8	g/kWh
Consumption per hectare	5,3	0,5	l/ha
Area output	9,7		ha/h

	Diesel	AdBlue	
Energy efficiency	321	43,0	g/kWh
Consumption per 100 kilometre per ton	3,7	0,4	l/100tkm
Haul capacity (40km/h)	993		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 208 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 239 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 427 g/kWh. The tested machine showed a fuel consumption of 321 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	
Z1P ¹ ploughing, heavy tine cultivator	1192	7,3	139	33,3	39,9	9,1	239	28,5
Z1G ¹ cultivator, disc harrow	1353	9,5	151	36,5	43,7	8,9	241	28,3
Z2P ¹ mech. seed drill, planter	1106	8,8	102	24,6	29,5	9,2	241	28,8
Z2G ¹ stubble working, seed bed combination	1202	11,7	116	27,9	33,5	9,2	241	29,1
Z3K milling, rotary harrows seeding combination	1419	5,8	156	34,1	40,8	9,2	219	26,1
Z3M cut 1. step, cultivator-rotary harrows-seeding combination	1395	14,6	157	36,0	43,2	9,2	229	27,3
Z4K pneumatic seeding drill, milling as plant care, mulch	1246	5,9	111	24,8	29,7	9,4	224	27,4
Z4M cut 2. step, direct seeding machine	1240	15,8	117	27,6	33,1	9,3	235	28,4
Z5K plant protector, mineral fertiliser, tedder, swather	1262	5,9	64	16,1	19,3	9,5	251	30,6
Z5M cut 3. step, airseeder	1259	16,0	68	18,2	21,8	9,1	267	31,7
Z6MS self-loading wagon, manure spreading	1371	5,6	115	27,2	32,6	9,5	237	29,6
Z7PR high pressure baler, round baler or square baler	1389	8,4	102	25,3	30,4	9,3	248	30,3
							239	28,8

¹ scaled with PTO Power 188,9 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	240	28,41	11,2	1,0	4,3
Medium-duty pulling work ¹	241	29,0	6,9	0,6	5,3
Heavy PTO work	224	26,7	4,7	0,4	12,9
Medium-duty PTO work	230	27,9	3,3	0,3	13,7
Light PTO work	259	31,1	2,1	0,2	13,9
Traction+PTO+hydraulic work	243	29,9	3,8	0,4	8,3

Test conditions fieldwork	Ballasting		Axle load distribution				Total weight	Tire pressure		PTO speed stage
	Front	Rear	Front	Rear				Front	Rear	
	kg	kg	kg	%	kg	%	kg	bar	bar	1000/1000E
Heavy pulling work	2200	3870	6350	39,5	9720	60,5	16070	1,2	1,2	-
Medium-duty pulling work	0	0	3950	39,5	6050	60,5	10000	1,2	1,2	-
Heavy PTO work	0	0	3950	39,5	6050	60,5	10000	1,2	1,2	1000
Medium-duty PTO work	0	0	3950	39,5	6050	60,5	10000	1,2	1,2	1000E
Light PTO work	0	0	3950	39,5	6050	60,5	10000	1,2	1,2	1000E
Traction+PTO+hydraulic work	0	0	3950	39,5	6050	60,5	10000	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	1395	129	302	40,4	5,9	0,6	784
Light transport work at 40 km/h	1057	32	452	63,1	1,4	0,2	1203
Light transport work at 50 km/h	1154	44	440	62,3	1,6	0,2	1488
Light transport work at 60 km/h	1326	54	471	60,6	1,7	0,2	1803
Overall result transportation work 40 km/h			321	43,0	3,7	0,4	993
Overall result transportation work 50 km/h			321	43,2	3,8	0,4	1136
Overall result transportation work 60 km/h			326	43,0	3,8	0,4	1294
Idle consumption	2,1	l/h					
Trailer weight	30000	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	-	-	3950	39,5	6050	60,5	10000	1,6	1,6

Tires	Front	Rear
Manufacturer/Type	Nokian/ SoilKing	Nokian/ SoilKing
Tire size	VF650/60R34	VF710/75R42
Equipment		
Pressureless return	Yes	
A/C	Yes	
Compressor	Yes	
Front power lift	Yes	
Front PTO	No	

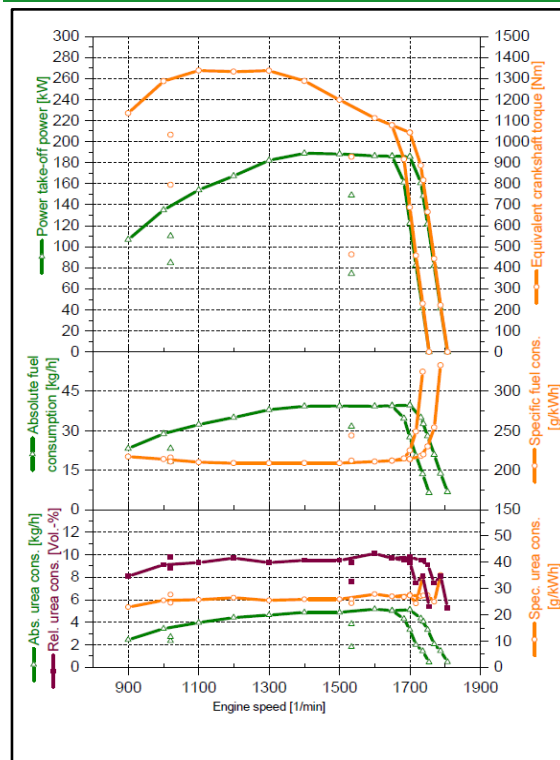


Power Take-Off Power according to OECD Code 2

Measuring point	Engine speed	PTO power	Equiv. Torque	Absolute consumption				Ratio AdBlue to Diesel	specific consumption	
				Diesel		AdBlue			Diesel	AdBlue
	1/min	kW	Nm	kg/h	l/h	kg/h	l/h	Vol-%	g/kWh	
Rated power										
Boost	1700	185,7	1.043	39,8	47,4	5,1	4,7	9,8	214	27,5
Standard	-	-	-	-	-	-	-	-	-	-
Maximum power										
Boost	1400	188,9	1.288	39,4	47,0	4,9	4,5	9,5	209	25,9
Standard	-	-	-	-	-	-	-	-	-	-
Maximum torque										
Boost	1100	154,1	1.338	32,4	38,6	4,0	3,6	9,3	210	25,7
Standard	-	-	-	-	-	-	-	-	-	-
1000 PTO shaft rotation										
Boost	1649	186,2	1.078	39,5	47,1	5,0	4,6	9,7	212	27,0
Standard	-	-	-	-	-	-	-	-	-	-
Part loads at full throttle										
80 % of boost rated pw.	1738	148,6	816	32,6	38,9	4,1	3,7	9,5	220	27,3
80 % of standard rated pw.	-	-	-	-	-	-	-	-	-	-
Part loads with governor control set to 90% of rated engine speed										
80 % of boost rated pw.	1534	149,0	927	31,6	37,7	3,9	3,5	9,3	212	25,9
80 % of standard rated pw.	-	-	-	-	-	-	-	-	-	-
40 % of boost rated pw.	1534	74,4	463	18,2	21,7	1,8	1,7	7,6	244	24,4
40 % of standard rated pw.	-	-	-	-	-	-	-	-	-	-
Part loads with governor control set to 60% of rated engine speed										
60 % of boost rated pw.	1020	110,3	1.033	23,3	27,8	2,7	2,5	8,8	211	24,5
60 % of standard rated pw.	-	-	-	-	-	-	-	-	-	-
40 % of boost rated pw.	1020	84,8	794	18,3	21,9	2,4	2,1	9,8	216	27,7
40 % of standard rated pw.	-	-	-	-	-	-	-	-	-	-

Standard

Boost



Technical Data

Engine*			
Manufacturer	AGCO Fendt		
Stage of exhaust emission	V		
Rated engine speed	1700 min ⁻¹		
Motor power according to			
ECE-R120	Standard	Boost	
Rated power*	- kW	208	kW
Maximum power*	- kW	208	kW
at engine speed*	-	1700	min ⁻¹
Boost activation Prerequisites			

variable (DynamicPerformance)

Exhaust aftertreatment device			
Nitrous gaseous emission	Selective Catalytic Reduction (SCR) catalysator		
Particulate emission	Diesel particulate filter (DPF), Diesel oxidation catalyst (DOC)		
Time for regeneration (average)	38	min	
Regeneration interval:			
- maximum*	500	h	
Replacement intervals	-		
Exhaust gas recuperation	-		
Exhaust-gas turbocharger	VTG		
Number of cylinders	6		
Bore	110	mm	
Stroke	139	mm	
Displacement	7926	cm³	
Main fan			
Diameter	560	mm	
Number of fan blades	9		
Fan Type	hyd. Fan		
Tank volume			
Diesel / AdBlue	540 l	/	65 l

Transmission			
Manufacturer	Fendt		
Type of contruction	CVT, VarioDrive TA250		
Number of ranges	1		
Number of gears	-		
Forward	0,02 km/h bis 60 km/h		
Reverse	0,02 km/h bis 33 km/h		
Design-related maximum speed	60	km/h	

Chassis*			
Front axle			
Manufacturer	DANA		
Type	planetary steering drive axle		
Axle load	Front	Rear	Total
Unladen masses	3910 kg	5990 kg	9900 kg
Permissible	7300 kg	11500 kg	17500 kg ²
Technically permissible	7300 kg	11500 kg	17500 kg

Dimensions*			
Length w/o front linkage	5650	mm	
Width	2751	mm	
Height	3330	mm	
Wheelbase	3020	mm	

Distance hitch points to PTO shaft (lower links horizontal)	Front		Rear	
	560	mm	705	mm

Distance axle to hitch points (lower links horizontal)	Front		Rear	
	1163	mm	1327	mm

Turning circle	11350	mm	
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Rear PTO Shaft*	
Profile	6 Keil (1 3/4")
Transmission ratio	

PTO mode	540	540E	1000	1000E
Engine speed [min ⁻¹]	1618	1405	1649	1432

Front PTO Shaft*	
Profile	6 Keil (1 3/8")
Transmission ratio	

PTO mode	540	540E	1000	1000E
Engine speed [min-1]	-	-	1647	-

Hydraulic power lift*	Front	Rear	
Categorie	3N	3N/3	
Lifting force at the hitch points exerted through full range	32,0 kN	93,4	kN

Hydraulic power*			
System	CCLS (Closed Centre Load Sensing System)		
Hydraulic oil	independant hydraulic oil circuit		
Total capacity	108	l	
Removable	86	l	
Hydraulic flow			

Maximum delivery	165	l/min	
Optional	220	l/min	
Max. flow at one rear remote	170	l/min	
Maximum pressure	200	bar	

* Manufacturer data

² up to 50 km/h



Additional information

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DLG-Testframe

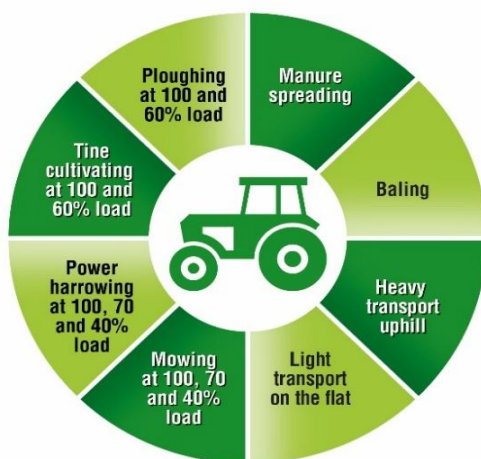
DLG-PowerMix_2.0 (Stand 01/2025)

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>

Internal check number DLG: 2605-0024

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