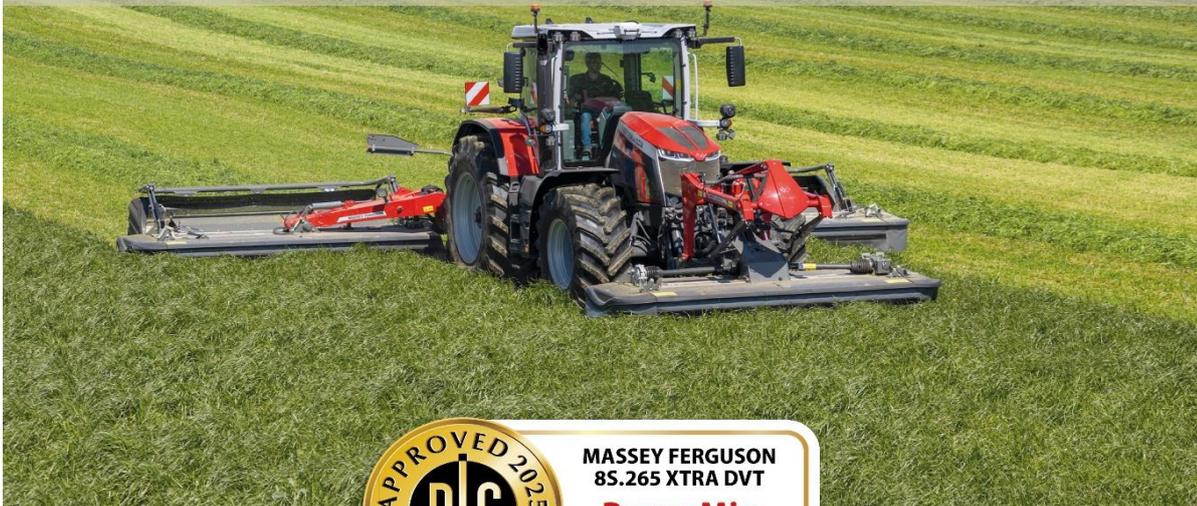


PowerMix Datasheet

DLG TEST REPORT 7582

Performance and fuel consumption
in field and transport operations

Massey Ferguson 8S.265 Xtra Dyna-VT



MASSEY FERGUSON
8S.265 XTRA DVT

PowerMix

DLG Test Report 7582

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

| | Boost | | Standard | |
|---|-------------|-----|----------|--|
| | | | | |
|  Rated power | 176 | 164 | kW | |
| Maximum power | 189 | 177 | kW | |
| According to | OECD Code 2 | | | |

| | Diesel | | AdBlue | |
|---|--------|------|--------|--|
| | | | | |
|  Energy efficiency | 247 | 26.9 | g/kWh | |
| Consumption per hectare | 5.5 | 0.5 | l/ha | |
| Area output | 10.0 | | ha/h | |

| | Diesel | | AdBlue | |
|---|--------|------|----------|--|
| | | | | |
|  Energy efficiency | 361 | 37.5 | g/kWh | |
| Consumption per 100 kilometre per ton | 4.2 | 0.3 | l/100tkm | |
| Haul capacity (40km/h) | 996 | | 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 247 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 361 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 | 1371 | 7.2 | 129 | 32.1 | 38.4 | 8.8 | 248 | 28.6 |
| Z1G ¹ cultivator, disc harrow | 1587 | 9.5 | 142 | 36.0 | 43.1 | 8.4 | 254 | 28.0 |
| Z2P ¹ mech. seed drill, planter | 1414 | 8.8 | 96 | 24.0 | 28.8 | 8.2 | 250 | 27.0 |
| Z2G ¹ stubble working, seed bed combination | 1343 | 11.7 | 109 | 27.6 | 33.0 | 8.6 | 254 | 28.6 |
| Z3K milling, rotary harrows seeding combination | 1633 | 5.8 | 157 | 36.0 | 43.1 | 8.3 | 230 | 24.8 |
| Z3M cut 1. step, cultivator-rotary harrows-seeding combination | 1605 | 14.8 | 159 | 38.4 | 46.0 | 8.5 | 241 | 26.8 |
| Z4K pneumatic seeding drill, milling as plant care, mulch | 1409 | 5.9 | 111 | 25.2 | 30.2 | 8.3 | 226 | 24.6 |
| Z4M cut 2. step, direct seeding machine | 1403 | 16.0 | 119 | 28.7 | 34.3 | 8.5 | 242 | 26.9 |
| Z5K plant protector, mineral fertiliser, tedder, swather | 1425 | 5.9 | 64 | 16.1 | 19.3 | 7.7 | 251 | 25.6 |
| Z5M cut 3. step, airseeder | 1420 | 16.1 | 68 | 18.4 | 22.0 | 8.0 | 269 | 27.9 |
| Z6MS self-loading wagon, manure spreading | 1566 | 6.9 | 127 | 30.9 | 37.0 | 8.4 | 243 | 26.8 |
| Z7PR high pressure baler, round baler or square baler | 1576 | 10.0 | 107 | 26.9 | 32.2 | 8.3 | 252 | 27.3 |
| | | | | | | | 247 | 26.9 |

¹ scaled with PTO Power 179.8 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 | 251 | 28.29 | 11.7 | 1.0 | 4.0 |
| Medium-duty pulling work ¹ | 252 | 27.8 | 7.2 | 0.6 | 5.0 |
| Heavy PTO work | 236 | 25.8 | 4.9 | 0.4 | 13.0 |
| Medium-duty PTO work | 234 | 25.7 | 3.4 | 0.3 | 13.8 |
| Light PTO work | 260 | 26.7 | 2.2 | 0.2 | 13.9 |
| Traction+PTO+hydraulic work | 248 | 27.1 | 3.5 | 0.3 | 10.0 |

| 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 | 5010 | 38 | 8115 | 62 | 13125 | 1.2 | 1.2 | - |
| Medium-duty pulling work | 0 | 0 | 4120 | 40 | 6080 | 60 | 10200 | 1.2 | 1.2 | - |
| Heavy PTO work | 0 | 0 | 4120 | 40 | 6080 | 60 | 10200 | 1.2 | 1.2 | 1000 |
| Medium-duty PTO work | 0 | 0 | 4120 | 40 | 6080 | 60 | 10200 | 1.2 | 1.2 | 1000E |
| Light PTO work | 0 | 0 | 4120 | 40 | 6080 | 60 | 10200 | 1.2 | 1.2 | 1000E |
| Traction+PTO+hydraulic work | 0 | 0 | 4120 | 40 | 6080 | 60 | 10200 | 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 |
|---|-------------------|---------------------------|----------------------|-------------|------------------------------------|------------|-----------------------|
| | min ⁻¹ | kW | Diesel | AdBlue | Diesel | AdBlue | tkm/h |
| | | | g/kWh | | l/100tkm | | |
| Heavy transportation work | 1820 | 124 | 342 | 35.3 | 6.7 | 0.5 | 757 |
| Light transport work at 40 km/h | 1415 | 33 | 494 | 53.5 | 1.6 | 0.1 | 1234 |
| Light transport work at 50 km/h | 1626 | 42 | 522 | 55.9 | 1.7 | 0.1 | 1519 |
| Light transport work at 60 km/h | - | - | - | - | - | - | - |
| Overall result transportation work 40 km/h | | | 361 | 37.5 | 4.2 | 0.3 | 996 |
| Overall result transportation work 50 km/h | | | 365 | 37.8 | 4.2 | 0.3 | 1138 |
| Overall result transportation work 60 km/h | | | - | - | - | - | - |
| Idle consumption | 1.9 | l/h | | | | | |
| Trailer weight | 29800 | kg | | | | | |

| Test conditions Transport use | Ballasting | | Axle load distribution | | | | Total weight | Tire pressure | |
|----------------------------------|------------|------|------------------------|------|------|----|--------------|---------------|-----|
| | Front | Rear | Front | Rear | | kg | Front | Rear | |
| | kg | kg | kg | % | kg | | bar | bar | |
| Transportation work | - | - | 4120 | 40 | 6080 | 60 | 10200 | 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 | |

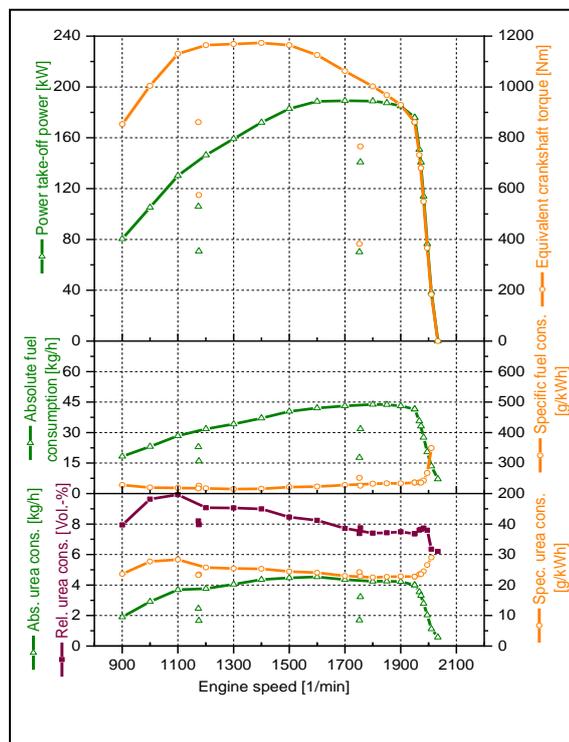
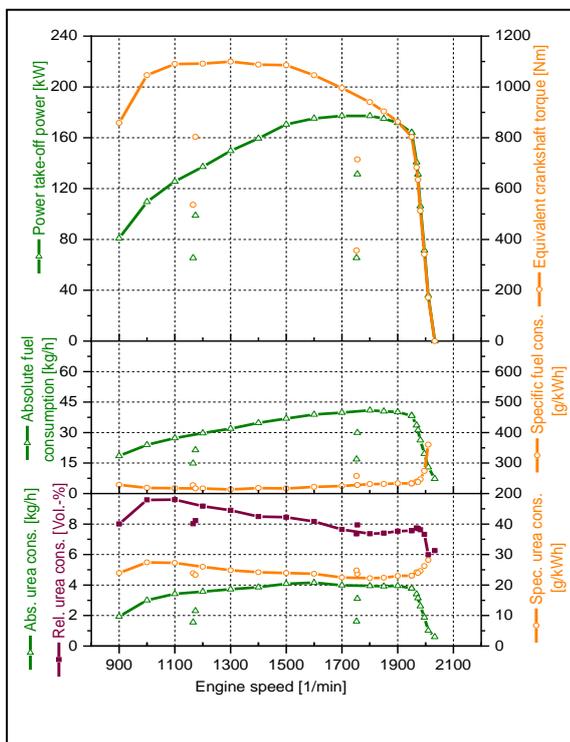


Power Take-Off Power according to OECD Code 2

| 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 | 175.9 | 861 | 41.5 | 49.5 | 4.0 | 3.6 | 7.4 | 236 | 22.7 |
| Standard | 1950 | 164.1 | 804 | 38.3 | 45.6 | 3.8 | 3.5 | 7.6 | 233 | 23.1 |
| Maximum power | | | | | | | | | | |
| Boost | 1700 | 189.2 | 1,062 | 43.1 | 51.3 | 4.4 | 4.0 | 7.7 | 228 | 23.0 |
| Standard | 1800 | 177.2 | 940 | 41.0 | 48.8 | 3.9 | 3.6 | 7.4 | 231 | 22.2 |
| Maximum torque | | | | | | | | | | |
| Boost | 1400 | 172.0 | 1,173 | 37.1 | 44.1 | 4.4 | 4.0 | 9.0 | 215 | 25.3 |
| Standard | 1300 | 149.7 | 1,100 | 32.0 | 38.0 | 3.7 | 3.4 | 8.9 | 213 | 24.9 |
| 1000 PTO shaft rotation | | | | | | | | | | |
| Boost | 1882 | 186.3 | 945 | 43.6 | 51.9 | 4.2 | 3.8 | 7.4 | 234 | 22.6 |
| Standard | 1882 | 172.7 | 876 | 40.2 | 47.9 | 4.0 | 3.6 | 7.5 | 233 | 22.8 |
| Part loads at full throttle | | | | | | | | | | |
| 80 % of boost rated pw. | 1973 | 140.7 | 681 | 33.1 | 39.5 | 3.3 | 3.0 | 7.7 | 236 | 23.6 |
| 80 % of standard rated pw. | 1973 | 131.3 | 635 | 31.2 | 37.2 | 3.1 | 2.9 | 7.7 | 238 | 23.9 |
| Part loads with governor control set to 90% of rated engine speed | | | | | | | | | | |
| 80 % of boost rated pw. | 1756 | 140.8 | 766 | 31.8 | 37.8 | 3.2 | 2.9 | 7.8 | 226 | 22.9 |
| 80 % of standard rated pw. | 1755 | 131.3 | 715 | 29.9 | 35.6 | 3.1 | 2.8 | 7.9 | 228 | 23.7 |
| 40 % of boost rated pw. | 1752 | 70.2 | 383 | 17.6 | 21.0 | 1.7 | 1.6 | 7.4 | 251 | 24.2 |
| 40 % of standard rated pw. | 1752 | 65.5 | 357 | 16.9 | 20.1 | 1.6 | 1.5 | 7.4 | 258 | 24.8 |
| Part loads with governor control set to 60% of rated engine speed | | | | | | | | | | |
| 60 % of boost rated pw. | 1173 | 105.9 | 862 | 23.0 | 27.3 | 2.5 | 2.2 | 8.2 | 217 | 23.2 |
| 60 % of standard rated pw. | 1174 | 98.8 | 804 | 21.4 | 25.5 | 2.3 | 2.1 | 8.2 | 217 | 23.3 |
| 40 % of boost rated pw. | 1175 | 70.7 | 575 | 16.0 | 19.0 | 1.7 | 1.5 | 8.0 | 226 | 23.5 |
| 40 % of standard rated pw. | 1166 | 65.4 | 536 | 14.9 | 17.7 | 1.6 | 1.4 | 8.0 | 227 | 23.8 |

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 cm ³ |
| Main fan | 0 |
| Diameter | 630 mm |
| Number of fan blades | 11 |
| Fan Type | Vistronic |
| Tank volume | |
| Diesel / AdBlue | 500 l / 43 l |

Transmission

| | |
|------------------------------|---------|
| Manufacturer | AGCO |
| Type of construction | ML260 |
| Number of ranges | 2 |
| Number of gears | CVT |
| Forward | 53 |
| Reverse | 30 |
| Design-related maximum speed | 53 km/h |

Chassis*

| | |
|-------------------------|--|
| Front axle | |
| Manufacturer | DANA |
| Type | M50HD 4WD suspended |
| Axle load | Front Rear Total |
| Unladen masses | 4550 kg 5350 kg 9900 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 692 mm Rear 757 mm |
| Distance axle to hitch points (lower links horizontal) | Front 1560 mm Rear 1329 mm |
| Turning circle | 11400 mm |

Rear PTO Shaft*

| | |
|-----------------------------------|-----------------------|
| Profile | 6x 1 3/8", 20x 1 3/4" |
| Transmission ratio | |
| PTO mode | 540 540E 1000 1000E |
| Engine speed [min ⁻¹] | - 1577 1882 1605 |

Front PTO Shaft*

| | |
|-----------------------------------|---------------------|
| Profile | 6x 1 3/8" |
| Transmission ratio | |
| PTO mode | 540 540E 1000 1000E |
| Engine speed [min ⁻¹] | - - 1920 - |

| | | |
|--|--------|------|
| Hydraulic power lift* | Front | Rear |
| Categorie | 3 | 3 |
| Lifting force at the hitch points exerted through full range | 3.5 kN | 8 kN |

Hydraulic power*

| | |
|------------------------------|---|
| System | Load-dependent pressure and flow rate control CCLS (Closed Center Load Sensing System) |
| Hydraulic oil | seperate 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

Applicant

AGCO SAS
2 Rue Charles Tellier
60000 Beauvais
France
www.masseyferguson.com

Test performed by

DLG TestService GmbH
Test center technology and farm inputs
Max-Eyth-Weg 1
64823 Groß-Umstadt
<https://www.dlg-testservice.com>

DLG-Testframe

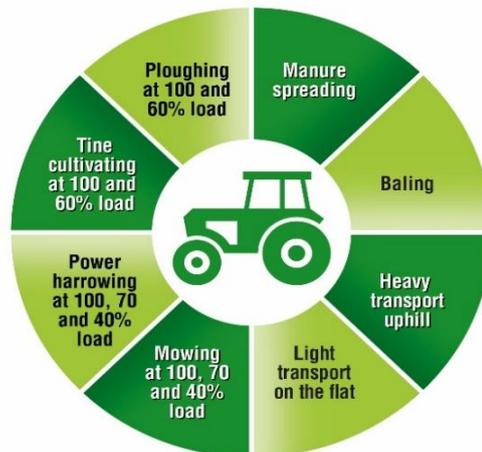
DLG-PowerMix_2.0 (Stand 01/2025)

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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