

OPERATOR'S MANUAL

Original instructions



6135 G AGROTRON -> WSXDU10200LD50001
6145 G AGROTRON -> WSXLD00200LD10001
6155 G AGROTRON -> WSXDU20200LD10001
6165 G AGROTRON -> WSXLD10200LD10001
6175 G AGROTRON -> WSXDU30200LD50001
6185 G AGROTRON -> WSXDU40200LD50001
6205 G AGROTRON -> WSXDU50200LD10001



1.3 - GLOSSARY

1.3.1 - Technical terms used in this manual

Some of the terms used in this manual with which the operator may not be familiar are listed as follows.

Table 3 - Glossary: technical terms

| TERM | DEFINITION |
|-------------------------------|--|
| Hand throttle | Engine speed control device consisting of lever or slider. |
| Pressure accumulator | Tank which absorbs pressure spikes. |
| Tyre combinations | Combination of front and rear tyres. |
| Autodrop | Function which continuously calculates the average vertical movement of the implement attached to the lift. Once it reaches a certain height, the lift drops freely under gravity, optimising performance and reducing fuel consumption. |
| Differential lock | Device that forces both wheels on the same axle to rotate at the same speed. |
| Track width | Distance between the centres of two wheels on the same axle. |
| Rolling circumference | The circumference of the tyre, defined as the distance the tyre travels in one complete revolution. |
| Rated current | The maximum amount of electrical current that can flow through an electronic device without damaging it. |
| Differential | Mechanism that allows the drive wheels of a vehicle to rotate at different speeds (e.g. when cornering). |
| Double acting | Mode of implement operation in which both raising and lowering movements are controlled by hydraulic pressure. |
| Universal joint | Mechanical coupling transmitting rotary motion; used to connect the PTO shaft to an implement. |
| Heavy Duty | Transmission range used for demanding applications, which reduces speed but increased torque. |
| iMonitor | On-board computer used to monitor and set various operating parameters of the tractor. |
| Load index | The maximum load a tyre is permitted to carry under the service conditions specified by the tyre manufacture. |
| Intercooler | Device which cools the compressed air to the optimum temperature for combustion before it enters the cylinder. |
| Shuttle | Control lever used to select the drive direction. |
| Joystick | Hand-operated device used to control the tractor and attached implements. |
| Load Sensing | Hydraulic system in which the flow of oil is controlled automatically. |
| Towing eye | Ring shaped towing fitting mounted on the front of the trailed vehicle into which the towing hook of the towing vehicle is inserted. |
| Authorised service centre | A service centre with suitably trained and qualified personnel that is authorised to carry out maintenance and repair operations using original replacement parts. |
| Park Brake | Parking brake control system that acts on all four wheels of the tractor. |
| Dry weight | Weight of the vehicle without the operator and without any liquids. |
| Kerb weight | Weight of the vehicle with an operator on board and all liquids at full capacity. |
| Power Beyond | Supplementary hydraulic system, used for implements with high oil flow demands. |
| Powershift | Type of transmission allowing the operator to change work ranges without using the clutch and without having to stop the vehicle. |
| Mechanical transmission ratio | Ratio between the revolutions of the front wheels and the rear wheels. |
| Trailer | An unpowered vehicle supported on its own chassis. It is not hitched to the 3-point linkage but to a tow hook. |
| Vehicle outline markers | Marker lights warning other road users of the oversized dimensions of the implement. |
| Single action | Hydraulic lift operating mode in which the link arms are raised by hydraulic pressure and lowered by gravity. |
| Lateral stabiliser | Lateral stabiliser bar that control and limits the lateral swinging movement of the lower link arms. |
| Stop&Go | Device that allows the operator to stop the tractor using the brake pedals only, without having to press the clutch pedal. |
| Voltage rating | Voltage that a transformer can withstand without overloading. |
| Thermostarter | Auxiliary device facilitating engine starting in cold temperatures. |
| Trailer Stretch | Device that facilitates braking under load and when travelling downhill. |
| Selector valve | Hydraulic halve that opens or shuts off the flow of oil to the front lift. |
| Work Display | Control panel used to set and monitor the main operating parameters of the tractor. |

IDENTIFICATION



1.3.2 - Acronyms used in this manual

The acronyms used in this manual are listed as follows:

Table 4 - Glossary: acronyms

| ACRONYM | DEFINITION |
|---------|--|
| ASM/SBA | (Axle System Management) System for automatic control of front wheel drive and differential lock engagement. |
| AUS | (Aqueous Urea Solution) Used to reduce the levels of nitrogen oxides in diesel engine exhaust. |
| EEC | European Economic Community. |
| PPE | Personal Protective Equipment. |
| ETRTO | European Tyre and Rim Technical Organisation. |
| FOPS | (Falling Object Protective Structures) Devices that protect the operator from falling objects. |
| HEB | (Hydraulic Engine Brake) Engine retarder system |
| PEL | (Personal Exposure Level) Average level of noise exposure for a single working day. |
| OECD | Organisation for Economic Co-operation and Development. |
| OPS | (Operator Protective Structures) Devices that protect the operator from an object penetrating the driver's area. |
| PTO | (Power Take Off) Shaft transmitting drive directly from the engine to an implement attached to the tractor. Also known as power take off unit. |
| ROPS | (Roll Over Protective Structures) Devices that protect the operator in the case of an overturn. |
| SCR | (Selective Catalytic Reduction) Chemical process that reduces the levels of NOx in exhaust gas. |
| SDD | (Steering Double Displacement) Rapid steer system. |
| SDS | Sequential Drive System. |
| SMV | Slow Moving Vehicle. |
| VIN | (Vehicle Identification Number) Unique code including a serial number, used by the automotive industry to identify individual vehicles. |

1.3.3 - Units of measurement used in this manual and conversion factors

Note: contact an authorised service centre if the units of measurement in use in your country are not included in the following tables.

Table 5 - Glossary: units of measurement conversion factors

| UNIT OF MEASUREMENT USED IN MANUAL | DESCRIPTION OF UNIT OF MEASUREMENT USED IN MANUAL | OTHER UNITS OF MEASUREMENT | DESCRIPTION OF OTHER UNITS OF MEASUREMENT | CONVERSION FACTOR |
|------------------------------------|---|----------------------------|---|----------------------|
| Length | | | | |
| mm | Millimetres | in | Inches | 0,0394 |
| cm | Centimetres | in | Inches | 0,3937 |
| m | Metres | ft | Feet | 3,2808 |
| Surface area | | | | |
| mm ² | Square millimetres | in ² | square inches | 0,0015 |
| cm ² | Square centimetres | in ² | square inches | 0,1550 |
| m ² | Square metres | ft ² | square feet | 10,7640 |
| Volume | | | | |
| mm ³ | Cubic millimetres | in ³ | cubic inches | 0,6102 |
| cm ³ | Cubic centimetres | in ³ | cubic inches | 0,0610 |
| m ³ | Cubic metres | ft ³ | cubic feet | 35,315 |
| Ground | | | | |
| g | Grammes | oz | ounce | 0,0353 |
| kg | Kilograms | lb | pound | 2,2046 |
| Liquids | | | | |
| l | Litres | US gal | US gallons | 0,2641 |
| | | UK gal | Imperial gallons | 0,2199 |
| Temperature | | | | |
| °C | Degrees centigrade | °F | Fahrenheit | = (°C × 1.8) + 32 |
| | | K | Kelvin | °C+273,15 |
| Speed | | | | |
| km/h | Kilometres per hour | mph | miles per hour | 0,6214 |
| Force | | | | |
| Kgm | Kilogram-metres | Nm | Newton metres | 9,8066 |
| | | lbf in | Pound force inch | 86,7962 |

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| UNIT OF MEASURE- MENT USED IN MANUAL | DESCRIPTION OF UNIT OF MEASUREMENT USED IN MANUAL | OTHER UNITS OF MEASURE- MENT | DESCRIPTION OF OTHER UNITS OF MEA- SUREMENT | CONVER- SION FAC- TOR |
|--|--|---------------------------------------|--|-----------------------------|
| Nm | Newton metres | Kgm | Kilogram-metres | 0,1019 |
| | | lbf in | Pound force inch | 8,8507 |
| Pressure | | | | |
| Bar | Bar | Pa | Pascals | 100000 |
| | | psi | Pounds per square inch | 14,504 |
| | | atm | Atmosphere | 0,9869 |
| Electrical current | | | | |
| A | Amperes | - | - | - |
| V | Volts | - | - | - |
| W | Watts | - | - | - |
| kW | Kilowatts | - | - | - |
| Weather | | | | |
| s | Seconds | - | - | - |
| min | Minute | - | - | - |
| h | Time | - | - | - |
| Noise | | | | |
| dB(A) | Decibels | - | - | - |
| Other | | | | |
| rpm | Revolutions per minute | - | - | - |

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SAFETY



2.3 - SAFETY PRESCRIPTIONS

2.3.1 - Danger areas

Tractor hazard zones

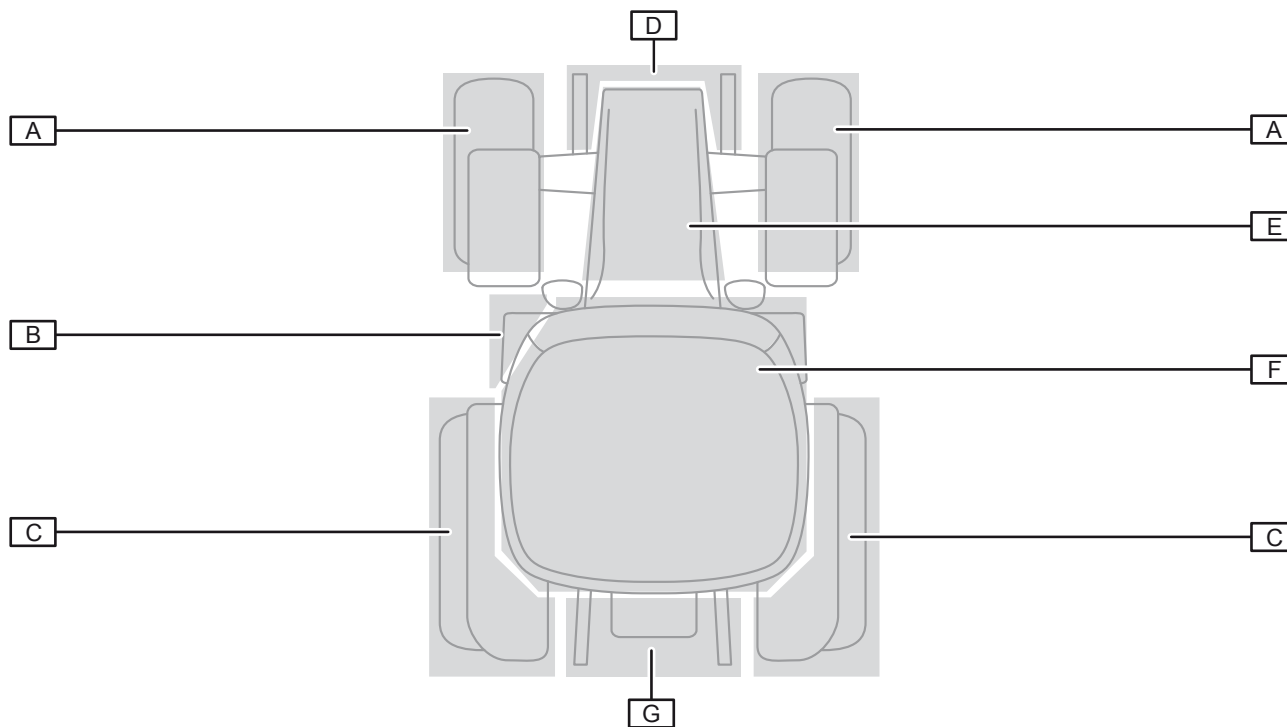


Fig. 11

Table 9 - Tractor: description of hazards

| TURN INDICATOR | ZONE | HAZARDS | TURN INDICATOR | ZONE | HAZARDS |
|--------------------------------------|-------------------------------------|--|----------------|--------------------------------------|--|
| A | Front Wheels | run over by moving tractor | B | Access and re-fuelling | fall |
| | | crushing by tyre | | | fire risk from fuel spilt from tank |
| | | explosion of tyre | | | contact with hot components |
| C | Rear wheels | run over by moving tractor | D | Front PTO, linkage and remote valves | entanglement in moving parts |
| | | crushing by tyre | | | crushing by attached machinery |
| | | explosion of tyre | | | falling of suspended loads |
| E | Cowl | contact with hot components | F | Cab | unexpected movement of attached implements/equipment |
| | | contact with irritants | | | high pressure fluid injection injury |
| | | contact with sharp edges | | | infiltration of toxic substances |
| G | rear PTO, linkage and remote valves | contact with live parts | | | crushing by falling objects |
| | | entanglement in moving parts | | | penetration by flying objects |
| | | crushing by attached machinery | | | distraction while driving |
| | | falling of suspended loads | | | incorrect operation of controls |
| | | unexpected movement of attached implements/equipment | | | failure to use the seat belt |
| high pressure fluid injection injury | restricted field of view | | | | |

Do not stand between the tractor and the implement

The tractor or the implement can suddenly start moving.

Table 18 - Indicator lamps: descriptions and colours

| INDICATOR LAMP | DESCRIPTION | COLOUR | INDICATOR LAMP | DESCRIPTION | COLOUR |
|----------------|--|--------|----------------|--|-----------|
| | Sidelights and low beam headlights on | Green | | 1st trailer turn indicators on or hazard warning lights on | Green |
| | Turn indicators on or hazard warning lights on | Green | | Front axle suspension on | Orange |
| | 2nd trailer turn indicators on or hazard warning lights on | Green | | High beam headlights on | Dark blue |
| | Low brake oil level | Red | | Parking and emergency brake applied | Red |
| | Alternator not charging | Red | | PTO clutch engaged | Red |
| | Rapid steer system on | Orange | | Trailer brake fault | Red |
| | General fault | Orange | | High level fault | Red |
| | Air filter clogged | Red | | Transmission oil filter clogged | Red |
| | Low engine oil pressure | Red | | Low oil pressure | Red |
| | Hydraulic system unlocked | Orange | | Hydraulic filter clogged | Red |
| | Differentials locked | Orange | | Front wheel drive engaged | Orange |
| | Engine preheat on | Orange | | ASM system on | Orange |
| | Stop&Go on | Orange | | Engine memory on | Orange |
| | Manual transmission mode | Orange | | Semiautomatic transmission mode | Orange |
| | Automatic transmission mode | Orange | | High coolant temperature | Red |
| | Rear PTO in automatic mode | | | PTO unlocked | Orange |

10.1 - MAIN TECHNICAL DATA

10.1.1 - Introduction

The following technical data are described below:

- Tractor data
- Operator cab data
- Noise data
- Vibration data
- Power delivered by the front and rear PTOs
- Maximum towable mass

Note: the values indicated in the following tables may vary depending on the configuration of the tractor.

Note: the values indicated in the following tables may vary depending on how the measurement is made.

Note: see the section "Units of measurement used in this manual and conversion factors" to convert the values indicated in this table into other units of measurement.

10.1.2 - Tractor technical data

Note: 'X' indicates that the characteristic is standard, 'O' that it is optional.

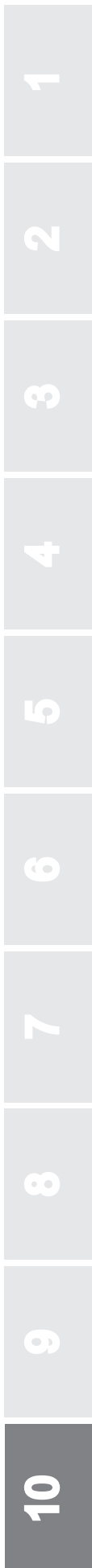
Table 233 - Technical data

| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|-----------------------------------|---|---|---|---|
| 01 - ENGINE | | | | |
| Engine model | TCD 2012 L06 2V | TCD 2012 L06 2V | TCD 2012 L06 2V | TCD 2012 L06 2V |
| Cylinders/Displacement | 6/6057 | 6/6057 | 6/6057 | 6/6057 |
| No./cc | | | | |
| Aspiration Turbo Intercooler | X | X | X | X |
| Maximum torque Nm/kgm | 599/61,1 | 659/67,2 | 730/74,4 | 770/78,5 |
| Maximum torque speed (rpm) | 1400 | 1600 | 1600 | 1600 |
| Torque increase | 36 | 30 | 26 | 30 |
| Maximum power engine speed | 1800 | 1900 | 1970 | 2050 |
| Maximum speed in rpm (nominal) | 2100 | 2100 | 2100 | 2200 |
| Electronic engine regulator | X | X | X | X |
| Air cleaner with dust ejector | X | X | X | X |
| Rated power (ECE R 120) kW/hp | 97/131 | 111/152 | 127/173 | 134/183 |
| Maximum power (ECE R 120) kW/hp | 104/141 | 120/163 | 130/177 | 140/190 |
| 03 - TRANSMISSION | | | | |
| 4 speed gearbox | X | X | X | X |
| 5 speed gearbox | O | O | O | O |
| Creeper gears | O | O | O | O |
| 04 - REAR PTO | | | | |
| Shaft diameter | 1"3/8 | 1"3/8 | 1"3/8 | 1"3/8 |
| PTO shaft splines | 6/21 | 6/21 | 6/21 | 6/21 |
| 540 PTO – Engine rpm: | 1996 | 1996 | 1996 | 1996 |
| 540ECO PTO – Engine rpm: | 1543 | 1543 | 1543 | 1543 |
| 1000 PTO – Engine rpm: | 1946 | 1946 | 1946 | 1946 |
| 1000ECO PTO – Engine rpm: | 1512 | 1512 | 1512 | 1512 |
| Engine revs/540 PTO revs ratio | 3,6957 | 3,6957 | 3,6957 | 3,6957 |
| Engine revs/540ECO PTO revs ratio | 2,8571 | 2,8571 | 2,8571 | 2,8571 |
| Engine revs/1000 PTO revs ratio | 1,9459 | 1,9459 | 1,9459 | 1,9459 |

TECHNICAL DATA



| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|--|---|---|---|---|
| Engine revs/1000ECO PTO revs ratio | 1,5116 | 1,5116 | 1,5116 | 1,5116 |
| Control on fender | X | X | X | X |
| 05 - FRONT PTO | | | | |
| Front PTO | O | O | O | O |
| Oil-immersed multi-plate clutch with electro-hydraulic control | X | X | X | X |
| Shaft diameter | 1"3/8 | 1"3/8 | 1"3/8 | 1"3/8 |
| PTO shaft splines | 6 | 6 | 6 | 6 |
| 1000 PTO – Engine rpm: | 1930 | 1930 | 1930 | 1930 |
| Engine revs/1000 PTO revs ratio | 1,93 | 1,93 | 1,93 | 1,93 |
| 06 - FRONT AXLE | | | | |
| Electrohydraulically operated front and rear differential lock | X | X | X | X |
| Automatic traction and differential control | X | X | X | X |
| Transmission ratio: front wheel revs. per rear wheel rev. | 1,344 (50 km/h) | 1,344 (50 km/h) | 1,344 (50 km/h) | 1,341 (50km/h) |
| Steering angle / 4WD steering radius | 55° | 55° | 55° | 55° |
| Steering front fenders | O | O | O | O |
| 07 - BRAKES | | | | |
| Hydraulic trailer braking valve | O | O | O | O |
| 09 - REAR HYDRAULIC LIFT | | | | |
| Electrohydraulically controlled rear lift | X | X | X | X |
| Electronically controlled rear lift, maximum lifting capacity without supplementary rams | 6360 | 6360 | 6360 | 6200 |
| Electronically controlled rear lift, maximum lifting capacity with supplementary rams | 9940 | 9940 | 9940 | 9690 |
| 10 - FRONT LIFT | | | | |
| Maximum lifting capacity Kg | 3850 | 3850 | 3850 | 3850 |
| Quick couplers | X | X | X | X |
| 12 - ELECTRICAL SYSTEM | | | | |
| Voltage [V] | 12 | 12 | 12 | 12 |
| Battery, standard [V/Ah/A] | 12/143 | 12/143 | 12/143 | 12/143 |
| Battery for cold climates [V/Ah/A] | 12/180 | 12/180 | 12/180 | 12/180 |
| Alternator [V/Ah] | 14/200 | 14/200 | 14/200 | 14/200 |
| Starter motor [V/kW] | 12/4 | 12/4 | 12/4 | 12/4 |
| Auxiliary power socket | X | X | X | X |
| Electrical socket amperage supp. | X | X | X | X |
| 13 - FUEL TANK | | | | |
| Fuel tank capacity in litres | 250 | 250 | 250 | 345 |
| AUXILIARY TANK | 95 | 95 | 95 | - |



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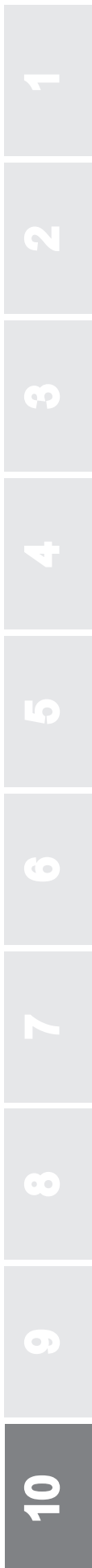
| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|--|---|---|---|---|
| 14 - CAB / ROPS | | | | |
| Cab with mechanical suspension | X | X | X | X |
| Cab with pneumatic suspension | O | O | O | O |
| Air conditioning | X | X | X | X |
| 14 - CAB | | | | |
| Hazardous substances protection category CAB | 2 | 2 | 2 | 2 |
| 03 - GEARBOX | | | | |
| Semi-automatic transmission | O (TPT16) | O (TPT16) | O (TPT16) | O (TPT18/TPT18 RC-SHIFT) |
| Electrohydraulic 6 speed gearbox | O | O | O | O |

| | 6205 G AGROTRON -> WSX- DU50200LD10001 | 6145 G AGROTRON -> WSX- LD00200LD10001 | 6165 G AGROTRON -> WSX- LD10200LD10001 |
|--|---|---|---|
| 01 - ENGINE | | | |
| Engine model | TCD 2012 L06 2V | TCD 2012 L06 2V | TCD 2012 L06 2V |
| Cylinders/Displacement No./cc | 6/6057 | 6/6057 | 6/6057 |
| Aspiration Turbo Intercooler | X | X | X |
| Maximum torque Nm/kgm | 810/82,6 | 605/61,7 | 659/67,2 |
| Maximum torque speed (rpm) | 1600 | 1400 | 1400 |
| Torque increase | 27 | 24 | 30 |
| Maximum power engine speed | 2000 | 2000 | 1900 |
| Maximum speed in rpm (nominal) | 2200 | 2100 | 2100 |
| Electronic engine regulator | X | X | X |
| Air cleaner with dust ejector | X | X | X |
| Rated power (ECE R 120) kW/hp | 147/200 | 102/139 | 111/152 |
| Maximum power (ECE R 120) kW/hp | 149/203 | 108/147 | 120/163 |
| 03 - TRANSMISSION | | | |
| 4 speed gearbox | X | X | X |
| 5 speed gearbox | O | O | O |
| Creeper gears | O | O | O |
| 04 - REAR PTO | | | |
| Shaft diameter | 1"3/8 | 1"3/8 | 1"3/8 |
| PTO shaft splines | 6/21 | 6/21 | 6/21 |
| 540 PTO – Engine rpm: | 1996 | 1996 | 1996 |
| 540ECO PTO – Engine rpm: | 1543 | 1543 | 1543 |
| 1000 PTO – Engine rpm: | 1946 | 1946 | 1946 |
| 1000ECO PTO – Engine rpm: | 1512 | 1512 | 1512 |
| Engine revs/540 PTO revs ratio | 3,6957 | 3,6957 | 3,6957 |
| Engine revs/540ECO PTO revs ratio | 2,8571 | 2,8571 | 2,8571 |
| Engine revs/1000 PTO revs ratio | 1,9459 | 1,9459 | 1,9459 |
| Engine revs/1000ECO PTO revs ratio | 1,5116 | 1,5116 | 1,5116 |
| Control on fender | X | X | X |
| 05 - FRONT PTO | | | |
| Front PTO | O | O | O |
| Oil-immersed multi-plate clutch with electro-hydraulic control | X | X | X |
| Shaft diameter | 1"3/8 | 1"3/8 | 1"3/8 |
| PTO shaft splines | 6 | 6 | 6 |

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| | 6205 G AGROTRON -> WSX-DU50200LD10001 | 6145 G AGROTRON -> WSX-LD00200LD10001 | 6165 G AGROTRON -> WSX-LD10200LD10001 |
|--|---------------------------------------|---------------------------------------|---------------------------------------|
| 1000 PTO – Engine rpm: | 1930 | 1930 | 1930 |
| Engine revs/1000 PTO revs ratio | 1,93 | 1,93 | 1,93 |
| 06 - FRONT AXLE | | | |
| Electrohydraulically operated front and rear differential lock | X | X | X |
| Automatic traction and differential control | X | X | X |
| Transmission ratio: front wheel revs. per rear wheel rev. | 1,341 (50km/h) | 1,344 (50 km/h) | 1,344 (50 km/h) |
| Steering angle / 4WD steering radius | 55° | 55° | 55° |
| Steering front fenders | O | O | O |
| 07 - BRAKES | | | |
| Hydraulic trailer braking valve | O | O | O |
| 09 - REAR HYDRAULIC LIFT | | | |
| Electrohydraulically controlled rear lift | X | X | X |
| Electronically controlled rear lift, maximum lifting capacity without supplementary rams | 6200 | 6360 | 6200 |
| Electronically controlled rear lift, maximum lifting capacity with supplementary rams | 9690 | 9940 | 9690 |
| 10 - FRONT LIFT | | | |
| Maximum lifting capacity Kg | 3850 | 3850 | 3850 |
| Quick couplers | X | X | X |
| 12 - ELECTRICAL SYSTEM | | | |
| Voltage [V] | 12 | 12 | 12 |
| Battery, standard [V/Ah/A] | 12/143 | 12/143 | 12/143 |
| Battery for cold climates [V/Ah/A] | 12/180 | 12/180 | 12/180 |
| Alternator [V/Ah] | 14/200 | 14/200 | 14/200 |
| Starter motor [V/kW] | 12/4 | 12/4 | 12/4 |
| Auxiliary power socket | X | X | X |
| Electrical socket amperage supp. | X | X | X |
| 13 - FUEL TANK | | | |
| Fuel tank capacity in litres | 345 | 250 | 250 |
| AUXILIARY TANK | - | 95 | 95 |
| 14 - CAB / ROPS | | | |
| Cab with mechanical suspension | X | X | X |
| Cab with pneumatic suspension | O | O | O |
| Air conditioning | X | X | X |
| 14 - CAB | | | |
| Hazardous substances protection category CAB | 2 | 2 | 2 |
| 03 - GEARBOX | | | |
| Semi-automatic transmission | O (TPT20/TPT20 RCSHIFT) | O (TPT16) | O (TPT16) |
| Electrohydraulic 6 speed gearbox | O | O | O |



10.1.3 - Operator cab technical data

The cab installed on the tractor provides the following protection:

Table 234 - Technical data

| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|--|---|---|---|---|
| 14 - CAB | | | | |
| Hazardous substances protection category CAB | 2 | 2 | 2 | 2 |

| | 6205 G AGROTRON -> WSX- DU50200LD10001 | 6145 G AGROTRON -> WSX- LD00200LD10001 | 6165 G AGROTRON -> WSX- LD10200LD10001 |
|--|---|---|---|
| 14 - CAB | | | |
| Hazardous substances protection category CAB | 2 | 2 | 2 |

10.1.4 - Noise technical data

To prevent increased noise emissions:

- after maintenance or repairs, refit all the sound insulation panels and materials correctly,
- do not make any modifications to the tractor which may increase noise emissions,
- beware of any anomalous noise or vibration; if you notice anomalous noise or vibration, park the tractor in a safe position and perform the stopping procedure,
- inform maintenance personnel of the situation,
- avoid prolonged operation.

Reference standards for the measurement of noise levels:

- the maximum driver-perceived noise level, with the engine at normal operating temperature and measured in accordance with the test method described in EU Regulation 1322/2014, Annexe XIII”;

As equivalent sound levels (LAeq,i) and, as a result, the daily exposure values of workers (LEX,8h), may vary and depend on a wide number of factors in relation

to use, these values must be evaluated by the employer or by the user, if also the owner, before operation, taking any connected implements into account in the evaluation.

For further information, contact an authorised dealer.

The maximum noise level value for this tractor is not currently available.

The manufacturer cannot influence noise emissions of the tractor in different working conditions.



CAUTION

Noise. Hearing damage. If the noise levels produced while using the tractor and the connected implement/machinery reaches or exceeds the limits prescribed by national legislation, use appropriate personal protective equipment (hearing protectors, helmets etc.).

10.1.5 - Vibrations technical data

To reduce the level of vibration transmitted to the entire body of the operator:

- use the most suitable equipment for the tractor and the task at hand;
- adjust the seat to suit your weight and height;
- periodically check the state of the cab's suspensions and replace them if damaged;
- check tyre inflation pressure;
- when travelling by road, moderate tractor speed to minimise vibration.

The vibration values indicated in the following table are declared to be conformant with by EU Regulation 1322/2014, Annexe XIV and subsequent modifications.

As vibration levels sustained by the HAND/ARM system (ISO 5349-1:2001) and the ENTIRE BODY (ISO 2631-1:1997/Amd 1:2010) and, as a result, the daily personal exposure values of workers, may vary and depend on a wide number of factors in relation to use, these values must be evaluated by the employer or by the user, if also the owner, before operation, taking any connected implements into account in the evaluation.

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For further information, contact an authorised dealer.

Table 235 - Technical data

| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|---|---|---|---|---|
| VIBRATION | | | | |
| Grammer MSG 95A/721 seat - Driver weight kg (Vibration m/s2) | 55 (1,14) / 98 (1,06) | 55 (1,14) / 98 (1,06) | 55 (1,14) / 98 (1,06) | 55 (1,14) / 98 (1,06) |
| Grammer MSG 85/721 seat - Driver weight kg (Vibration m/s2) | 55 (1,01) / 98 (1,24) | 55 (1,01) / 98 (1,24) | 55 (1,01) / 98 (1,24) | 55 (1,01) / 98 (1,24) |
| Grammer MSG 95AL/721 seat - Driver weight kg (Vibration m/s2) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) |
| Grammer MSG 95G/721 seat - Driver weight kg (Vibration m/s2) | 55 (1,20) / 98 (1,14) | 55 (1,20) / 98 (1,14) | 55 (1,20) / 98 (1,14) | 55 (1,20) / 98 (1,14) |
| Grammer MSG 95AL/731 seat - Driver weight kg (Vibration m/s2) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) |

| | 6205 G AGROTRON -> WSX- DU50200LD10001 | 6145 G AGROTRON -> WSX- LD00200LD10001 | 6165 G AGROTRON -> WSX- LD10200LD10001 |
|---|---|---|---|
| VIBRATION | | | |
| Grammer MSG 95A/721 seat - Driver weight kg (Vibration m/s2) | 55 (1,14) / 98 (1,06) | 55 (1,14) / 98 (1,06) | 55 (1,14) / 98 (1,06) |
| Grammer MSG 85/721 seat - Driver weight kg (Vibration m/s2) | 55 (1,01) / 98 (1,24) | 55 (1,01) / 98 (1,24) | 55 (1,01) / 98 (1,24) |
| Grammer MSG 95AL/721 seat - Driver weight kg (Vibration m/s2) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) |
| Grammer MSG 95G/721 seat - Driver weight kg (Vibration m/s2) | 55 (1,20) / 98 (1,14) | 55 (1,20) / 98 (1,14) | 55 (1,20) / 98 (1,14) |
| Grammer MSG 95AL/731 seat - Driver weight kg (Vibration m/s2) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) | 55 (0,85) / 98 (0,70) |

10.1.6 - Power delivered by the front PTO

Maximum power delivered by the front PTO

- 1 3/8" diameter 6-groove output shaft, at 1000 rpm (maximum power)

10.1.7 - Power delivered by the rear PTO

Maximum power delivered by the rear PTO

- 1 3/4" involute splined output shaft, at 1000 rpm - Approx. 15% reduction in maximum power of tractor.
- 1 3/8" involute splined output shaft, at 1000 rpm - Approx. 15% reduction in maximum power of tractor.
- 1 3/8" diameter 6-groove output shaft, 540 rpm, maximum 100 kW (136 HP).

10.1.8 - Maximum towable mass



DANGER

Exceeding maximum towable load limits. Accidents, overturning. Comply with the maximum towable load limits declared by the manufacturer of the tractor and by the manufacturer of the implement or trailer. Note that the permissible limits defined by applicable legislation may be lower than the manufacturer's limits.

Maximum towable mass varies in relation to the trailer braking system used and the type of implement towed.

The maximum towable mass is indicated:

- on the tractor identification plate;
- on the technical attachment to the tractor registration document (permissible maximum towable masses allowed by national legislation).



Table 236 - Technical data

| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|---|---|---|---|---|
| TOWABLE MASS | | | | |
| Maximum towable mass with unbraked trailer, Kg | 3000 | 3000 | 3000 | 3000 |
| Maximum towable mass with inertia-braked trailer, Kg | 16000 | 16000 | 16000 | 16000 |
| Maximum towable mass with hydraulic braking trailer, Kg | 36000 | 36000 | 36000 | 38000 |
| Maximum towable mass with air-braking trailer, Kg | 36000 | 36000 | 36000 | 38000 |

| | 6205 G AGROTRON -> WSX- DU50200LD10001 | 6145 G AGROTRON -> WSX- LD00200LD10001 | 6165 G AGROTRON -> WSX- LD10200LD10001 |
|---|---|---|---|
| TOWABLE MASS | | | |
| Maximum towable mass with unbraked trailer, Kg | 3000 | 3000 | 3000 |
| Maximum towable mass with inertia-braked trailer, Kg | 16000 | 16000 | 16000 |
| Maximum towable mass with hydraulic braking trailer, Kg | 38000 | 36000 | 36000 |
| Maximum towable mass with air-braking trailer, Kg | 38000 | 36000 | 36000 |

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TECHNICAL DATA



10.2 - DIMENSIONS AND WEIGHTS OF THE TRACTOR



DANGER

Exceeding maximum permissible loads. Accidents. The front axle of the tractor must always bear at least 20% of the total tractor load including the weight of any implement and/or ballast.

Tractor dimensions:

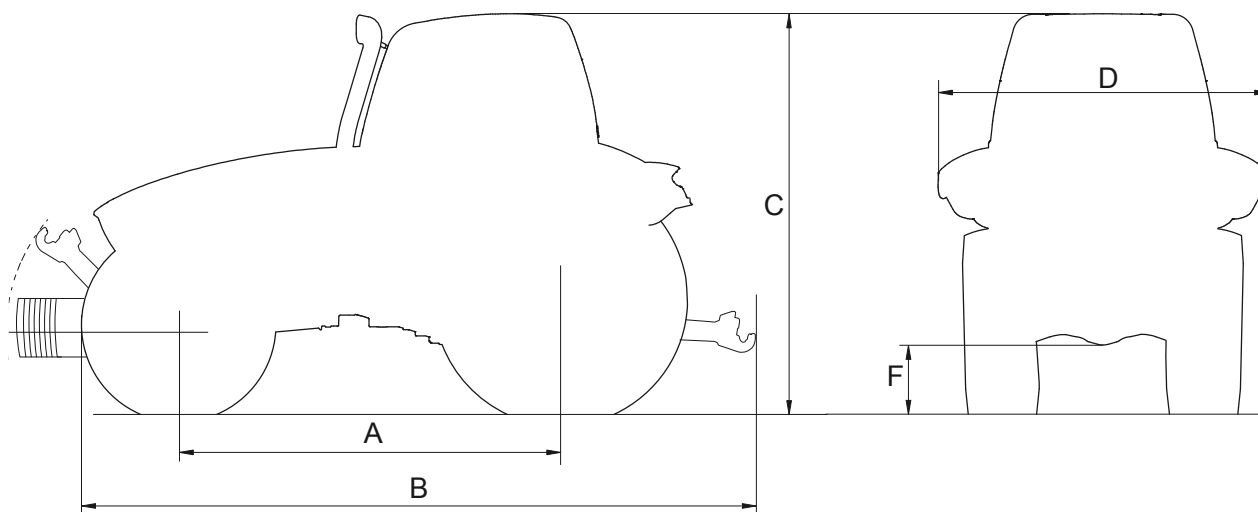


Fig. 493 - Tractor dimensions: measurements

The dimensions and weights of the different tractor variants available are given below:

Note: values in the following table with the symbol "" are for the tractor variant with suspended front axle.*

Table 237 - Technical data

| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|--|---|---|---|---|
| TYRES | | | | |
| With front tyres | 540/65 R28" | 540/65 R28" | 540/65 R28" | 540/65 R30" |
| With rear tyres | 650/65 R38" | 650/65 R38" | 650/65 R38" | 650/65 R42" |
| DIMENSIONS | | | | |
| Wheelbase (A) mm | 2767*/2820 | 2767*/2820 | 2767*/2820 | 2767*/2820 |
| Length (B) mm | 4710 | 4710 | 4710 | 4710 |
| Height (C) mm | 2932/3032 | 2932/3032 | 2932/3032 | 2932/3032 |
| Min-max width (D) | 2543 | 2543 | 2543 | 2541 |
| Ground clearance (F) mm | 654*/722 | 654*/722 | 654*/722 | 704*/772 |
| MAXIMUM PERMISSIBLE WEIGHT | | | | |
| Maximum permissible weight on front axle kg. | 4700 | 4700 | 4700 | 5200 |
| Maximum permissible weight on rear axle kg. | 8400 | 8400 | 8400 | 9200 |
| Total maximum permissible weight kg. | 11500 | 11500 | 11500 | 12500 |
| UNLADEN WEIGHT, 40 KM/H | | | | |
| Unladen weight, front axle, Kg. | (2561-3288)/(2507-3315) | (2561-3288)/(2507-3315) | (2561-3288)/(2507-3315) | (2789-3467)/(2663-3325) |
| Unladen weight, rear axle, Kg. | (3806-4019)/(3760-3892) | (3806-4019)/(3760-3892) | (3806-4019)/(3760-3892) | (4183-4237)/(3994-4064) |
| Total unladen weight, Kg. | (6367-7307)/(6267-7207) | (6367-7307)/(6267-7207) | (6367-7307)/(6267-7207) | (6272-7704)/(6657-7389) |
| UNLADEN WEIGHT, 50 KM/H | | | | |



| | 6135 G AGROTRON -> WSXDU10200LD50001 | 6155 G AGROTRON -> WSXDU20200LD10001 | 6175 G AGROTRON -> WSXDU30200LD50001 | 6185 G AGROTRON -> WSXDU40200LD50001 |
|--|---|---|---|---|
| Unladen weight, front axle, Kg. | (2561-3288)/(2507-3315) | (2561-3288)/(2507-3315) | (2561-3288)/(2507-3315) | (2789-3467)/(2663-3325) |
| DRY WEIGHT, 50 KM/H | | | | |
| Dry weight, rear axle, Kg. | (3806-4019)/(3760-3892) | (3806-4019)/(3760-3892) | (3806-4019)/(3760-3892) | (4183-4237)/(3994-4064) |
| Total unladen weight Kg. | (6367-7307)/(6267-7207) | (6367-7307)/(6267-7207) | (6367-7307)/(6267-7207) | (6272-7704)/(6657-7389) |
| MAXIMUM PERMISSIBLE WEIGHT AT 10 KM/H (FOR VERSIONS WITH 40 KM/H TOP SPEED) | | | | |
| Maximum permissible weight, front axle, Kg. | 6900 | 6900 | 6900 | 6900 |
| Maximum permissible weight, rear axle Kg. | 8400 | 8400 | 8400 | 9200 |
| Maximum permissible total weight, Kg. | 11500 | 11500 | 11500 | 12500 |
| MAXIMUM PERMISSIBLE WEIGHT AT 10 KM/H (FOR VERSIONS WITH 50 KM/H TOP SPEED) | | | | |
| Maximum permissible weight, front axle, Kg. | 6900 | 6900 | 6900 | 6900 |
| Maximum permissible weight, rear axle Kg. | 8400 | 8400 | 8400 | 9200 |
| Maximum permissible total weight, Kg. | 11500 | 11500 | 11500 | 12500 |

| | 6205 G AGROTRON -> WSX- DU50200LD10001 | 6145 G AGROTRON -> WSX- LD00200LD10001 | 6165 G AGROTRON -> WSX- LD10200LD10001 |
|--|---|---|---|
| TYRES | | | |
| With front tyres | 540/65 R30" | 540/65 R28" | 540/65 R28" |
| With rear tyres | 650/65 R42" | 650/65 R38" | 650/65 R38" |
| DIMENSIONS | | | |
| Wheelbase (A) mm | 2767*/2820 | 2767*/2820 | 2767*/2820 |
| Length (B) mm | 4710 | 4710 | 4710 |
| Height (C) mm | 2932/3032 | 2932/3032 | 2932/3032 |
| Min-max width (D) | 2541 | 2543 | 2543 |
| Ground clearance (F) mm | 704*/772 | 654*/722 | 654*/722 |
| MAXIMUM PERMISSIBLE WEIGHT | | | |
| Maximum permissible weight on front axle kg. | 5200 | 4700 | 4700 |
| Maximum permissible weight on rear axle kg. | 9200 | 8400 | 8400 |
| Total maximum permissible weight kg. | 12500 | 11500 | 11500 |
| UNLADEN WEIGHT, 40 KM/H | | | |
| Unladen weight, front axle, Kg. | (2789-3467)/(2663-3325) | (2561-3288)/(2507-3315) | (2561-3288)/(2507-3315) |
| Unladen weight, rear axle, Kg. | (4183-4237)/(3994-4064) | (3806-4019)/(3760-3892) | (3806-4019)/(3760-3892) |
| Total unladen weight, Kg. | (6272-7704)/(6657-7389) | (6367-7307)/(6267-7207) | (6367-7307)/(6267-7207) |
| UNLADEN WEIGHT, 50 KM/H | | | |
| Unladen weight, front axle, Kg. | (2789-3467)/(2663-3325) | (2561-3288)/(2507-3315) | (2561-3288)/(2507-3315) |
| DRY WEIGHT, 50 KM/H | | | |
| Dry weight, rear axle, Kg. | (4183-4237)/(3994-4064) | (3806-4019)/(3760-3892) | (3806-4019)/(3760-3892) |
| Total unladen weight Kg. | (6272-7704)/(6657-7389) | (6367-7307)/(6267-7207) | (6367-7307)/(6267-7207) |
| MAXIMUM PERMISSIBLE WEIGHT AT 10 KM/H (FOR VERSIONS WITH 40 KM/H TOP SPEED) | | | |
| Maximum permissible weight, front axle, Kg. | 6900 | 6900 | 6900 |