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1.1 Using the manual

1.1.1 Information

General

All operations described in this manual relating to repairs and maintenance must only be carried out by trained service personnel. The purpose of the manual is to help dealers and workshops start up, service and repair AGCO's equipment as efficiently and effectively as possible. If the specified procedures are followed and the recommended special tools used where necessary, jobs can be completed within the time indicated in the "Repair Time Schedule" manual.

Pagination

This manual is divided into sections and chapters. The figures show:

First figure = Section

Second figure = Chapter

Third figure = Sequential number of the various components of the chapter

The publication number and version appear at the bottom of the page.

Use

To make it easier to look things up, there is a table of contents at the beginning of every chapter listing the various sections in the chapter.

Modifications

Modified pages have the same section numbering as their predecessors: Only the page number and version number change.

The old pages must be destroyed.

Service tools

In the case of jobs that require service tools, the number of the tool is specified at the point in the text where it is needed.

Repairs and replacing parts

When replacing parts, it is very important to only ever use genuine AGCO spares.

Please pay particular attention to the following points when it comes to repairs and fitting spare parts or other equipment.

Fitting non-genuine spare parts may impair the safety of the machine.

In some countries it is against the law to fit parts that do not conform to the manufacturer's specifications. Torque wrenches must always be adjusted in accordance with the instructions given in the workshop manual. Fit locking devices where specified. If the locking device breaks when removed, fit a new one.

If non-genuine AGCO parts are fitted, the machine will no longer be covered by the right to complain, as the manufacturer provides a warranty on all AGCO components. AGCO dealers are under the obligation to supply genuine parts only.

Repair Time Schedule

The "Repair Time Schedule" manual contains a table of standard time requirements for the commonest repairs on a combine. The manual's sections follow the layout of the spare parts catalog.

1.2 Dimensions

1.2.1 Combine dimensions

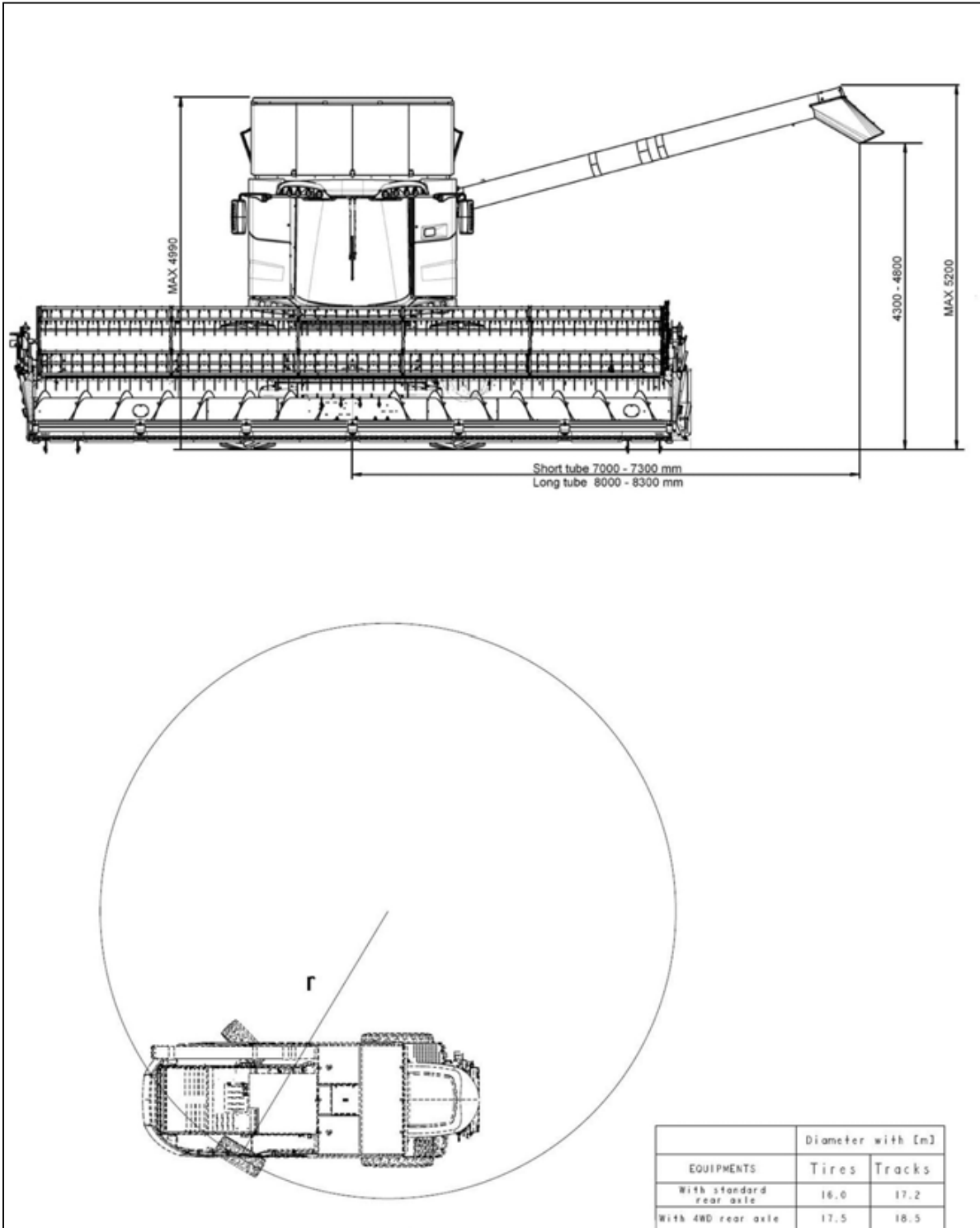


Fig. 1 Dimensions with cutting table and active unloading tube; dimensions of turning radius

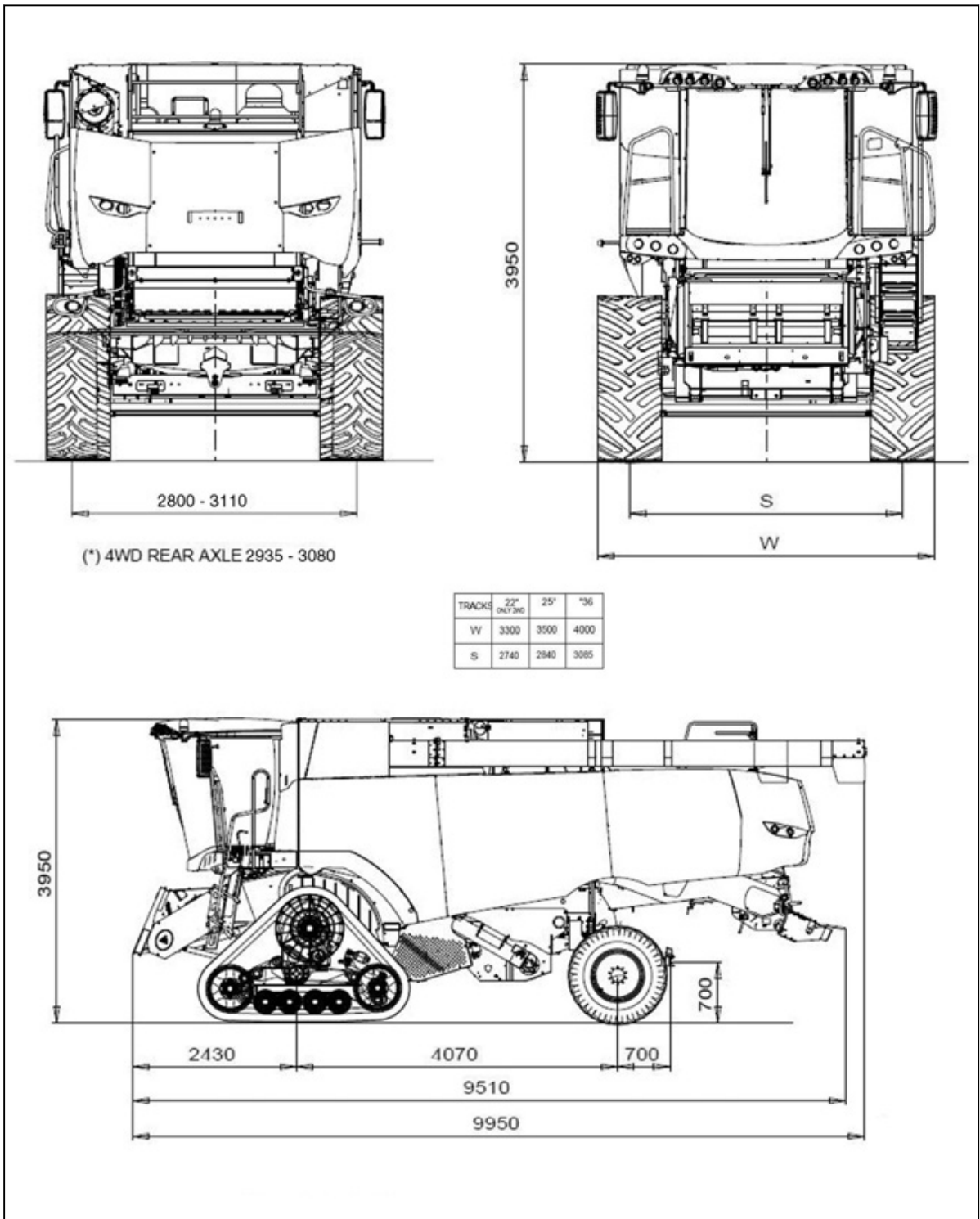


Fig. 2 Dimensions for tracked machines; front, rear, side

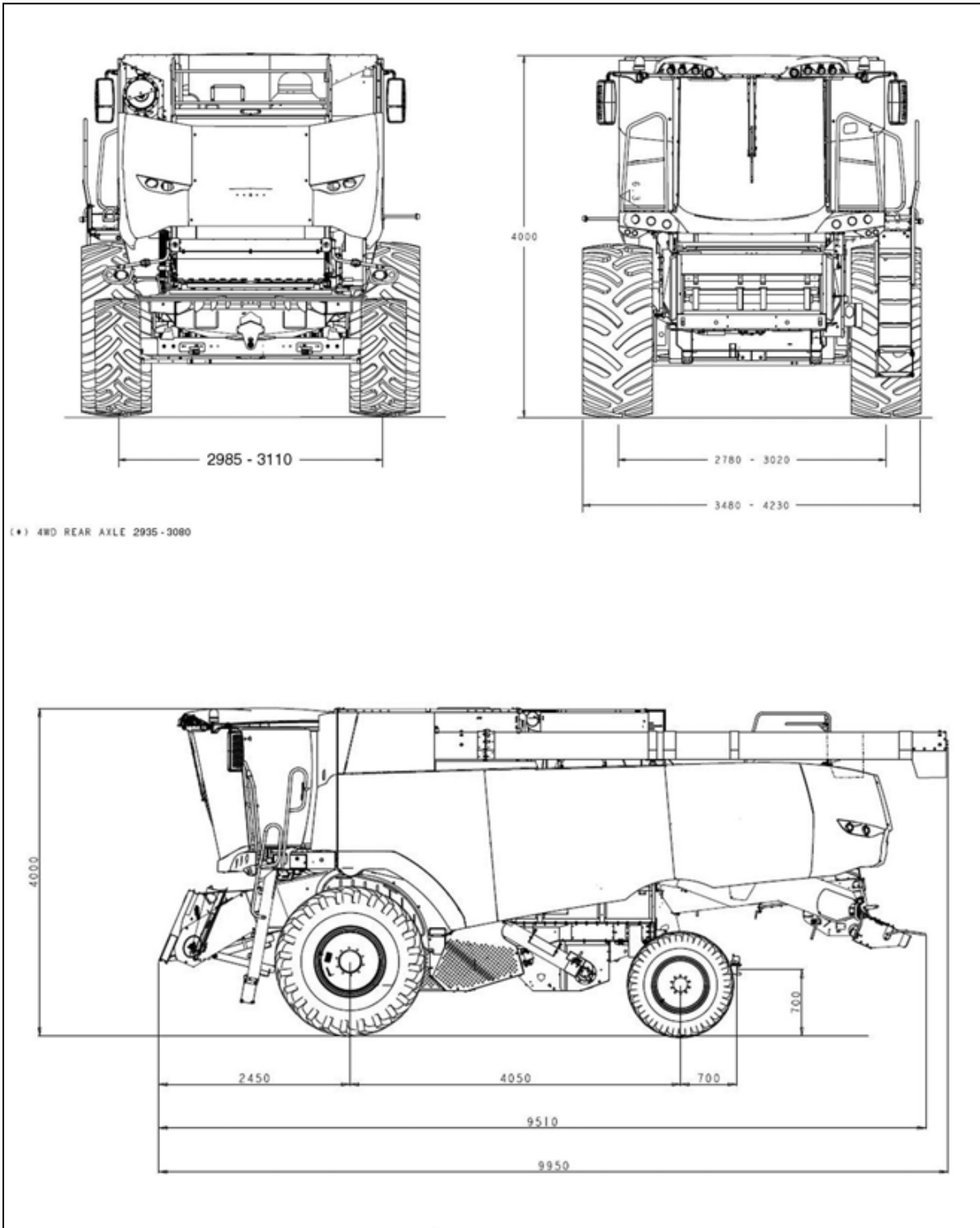


Fig. 3 Dimensions for machines with tires; front, rear, side

1.3 Technical specifications

1.3.1 Feeding unit

Feeding unit	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Cutting table		PowerFlow
Elevator		universal type
Elevator chain front shaft		Spring-loaded
Chains with slats	no.	4
Slats	no.	21
Protection		Spring-loaded safety clutch
Upper shaft speed	rpm	500
Front shaft speed	rpm	620
Elevator drive belt		Powerband belt

1.3.2 Threshing sys.

Threshing sys.	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Stone trap		on the concave inlet
Threshing drum		
Type: Cereal/maize		8 cylinder rasp bars
Cylinder housing width	mm	1680
Cylinder width	mm	1660
Diameter	mm	600
Variator		With one drive belt
Variator control		electrohydraulic
Speed	rpm	370 ÷ 1080
Concave		
Control		Adjustable from operator seat
Area	m ²	1.06
Grain type:		
Clearance (between wire centers)	mm	15
Wire arrangement	mm	Alternating 350 and 700
Wrap angle		117°
Wire diameter	mm	3.5
Total number of wires	no.	110
Bars	no.	12
Maize type:		
Clearance (between wire centers)	mm	25
Wrap angle		117°
Wire diameter	mm	6
Bars	no.	12
Rear beater		
Drive trains		Powerband belt
Speed	rpm	945
Wrap angle, concave		44°
Concave area	m ²	0.34

Threshing sys.	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Bars	no.	6
Clearance	mm	75
Wire diameter	mm	6
Rotary Separator		
Fingers	no.	72
Diameter	mm	500
Width	mm	1660
Speed, normal	rpm	950
Speed, low gear	rpm	515
Drive trains	-	Powerband belt
Rotary separator, concave		
Bars	no.	8
Wire diameter	mm	6
Wrap angle		78°
Area	m ²	0.65
Distance between concave and rotary separator	mm	35 - 44
Straw walkers		
Number of straw walkers	no.	8
Number of steps	no.	5
Length	mm	4000
Separation area	m ²	6.68
Speed	rpm	226

1.3.3 Cleaning unit

Cleaning unit	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Fanning Mill		
Normal speed	rpm	460 ÷ 1150
Reduced speed	rpm	310 ÷ 790
Control		Variator belt
Main grain pan		
Type		Stepped plates, removable for cleaning
Movement		Alternating, opposite to bottom sieve
Con rod	strokes/min	295
Control		Double V-belts
Grain pan width	mm	1660
Grain pan length	mm	1680
Grain pan area	m ²	2.79
Grain pan rake area	m ²	0.4
Top sieve	no.	2
Upper sieve width	mm	813
Upper sieve length		1811
Top sieve area	m ²	1.47
Bottom sieve	no.	2
Lower sieve width	mm	813
Lower sieve length	mm	1400
Bottom sieve area	m ²	1.14
Tailings		
Type		Optional re-threshing
Conveyed by		Via tailings auger
Auger rotation speed	rpm	450 ÷ 800

1.3.4 Grain tank

Grain tank	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Crop conveyed by		tank filling elevator and auger to the centre of the grain tank
Speed, tank filling elevator	rpm	450
Capacity	liters	12500 (AL 10500)
Unloading auger transmission		Powerband belt, chain and angle gear
Overload switch		Locking bolt
Unloading auger length	mm	5765 ÷ 6865
Unloading speed	liters/sec	120
Unloading height	mm	4300 ÷ 4800

1.3.5 Hydraulic system

Hydraulic system	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Oil tank capacity (combined)	liters	36
Auxiliary		
Revolution variator - Grain unloading auger (open/close)		
Flow rate	liters/min	68
Max. pressure	bar	185
Levelling - Shuttle - Table up/down - Reel up/down and fore/aft		
Flow rate	liters/min	68
Max. pressure	bar	185
Filter on hydraulic tank	micron	16
Threshing mechanism engagement- Grain unloading engagement - Feed mechanism engagement		
Flow rate	liters/min	82
Max. pressure	bar	25
Filter on hydraulic tank	micron	16
Reel speed		
Flow rate	liters/min	27
Max. pressure	bar	155
Filter on hydraulic tank	micron	16
Steering		
Flow rate	liters/min	27
Max. pressure	bar	170 - 175
Filter on hydraulic tank	micron	16
Chaff Spreader		
Flow rate	liters/min	24
Max. pressure	bar	150
Filter on hydraulic tank	micron	16
Motor for oil cooler fan		
Flow rate	liters/min	20
Max. pressure	bar	60
Filter on hydraulic tank	micron	16

1.3.6 Hydrostatic system

Hydrostatic system	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Oil tank capacity (combined)	liters	36
Pump displacement	cm ³ /rev	145
Pump	rpm	2620
Pressure relief valve setting	bar	450
Motor displacement	cm ³ /rev	107
Return filter	micron	16

1.3.7 Engine

Engine	Units of measurement	FENDT 8380 P	FENDT 8410 P
		FENDT 8380 P AL	FENDT 8410 P AL
Make		AGCO POWER	
Type		84 AWF	
Cylinders	no.	6	
Cubic capacity	cm ³	8419	
Bore	mm	111	
Stroke	mm	145	
Rotation direction (from the flywheel)		Anti-clockwise	
Speed, idling	rpm	1000	
Speed, fully loaded	rpm	2100	
Speed at max. torque	rpm	1950	
Rated power	kW	256 (at 2100 rpm)	276 (at 2100 rpm)
Rated power with Power Boost (ECE R120)	kW	276 (at 2100 rpm)	
Maximum output capacity	kW	279 (at 1950 rpm)	297 (at 1950 rpm)
Maximum power with Power Boost (ECE R120)	kW	297 (at 1950 rpm)	
Oil sump capacity	liters	25.5	
Catalytic fluid (DEF) tank capacity	liters	115	
Fuel tank capacity	liters	1000	
Radiator			
Circuit capacity	liters	56	



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1.3.8 Electrical components

Electrical components	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Battery		
12 V type	A/h	200
Peak current	A	1200
Starter motor		
Type	V	12
Alternator		
Type	V	12
Charging capacity	A	150

1.3.9 Gear oil

Gear oil	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Gearbox	liters	9.5
Hydraulic motor coupler housing	liters	1.5
Final drives	liters	6

1.3.10 Transmission

Transmission	Units of measurement	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Transmission type		With normal gearshift
Gears	no.	4
Tires		
Speed (moving forward and in reverse) with tires 710/75 R34		
1 st gear (work)	km/h	0 – 6.8
2 nd gear (work)	km/h	0 – 11.7
3 rd gear (work)	km/h	0 – 17
4 th gear (work)	km/h	–
4 th gear (driving on roads)	km/h	30 ⁽¹⁾
Tracks (not available for AL models)		
1 st gear (work)	km/h	0 – 6.10
2 nd gear (work)	km/h	0 – 10.5
3 rd gear (work)	km/h	0 – 17
4 th gear (work)	km/h	–
4 th gear (driving on roads)	km/h	30 ⁽¹⁾
NOTE: When driving on roads, the engine speed is adjusted to 1900 rpm.		

⁽¹⁾ This applies to all countries, except France, where the maximum speed is 25 kph.

1.3.11 Rear axle

Rear axle	FENDT 8380 P – FENDT 8380 P AL FENDT 8410 P – FENDT 8410 P AL
Type	adjustable
Four-Wheel Drive	Option

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