

# ***Workshop Manual for 9380 DELTA Combine Series***

*MF 9380 DELTA + Auto Level*



# Workshop Manual for 9380 DELTA Combine Series

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## 1.1 Using the manual

### 1.1.1 Using the manual

T008027

#### 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

Example: [see §3.1.3, page 89](#)

This manual is divided into chapters and sections. In the example the figures show:

First figure = Chapter

Second figure = Section

Third figure = Consecutive number in the section in question

69 = Page number in manual

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 catalogue.

1

## 1.2 General specifications

### 1.2.1 Dimensions and specifications

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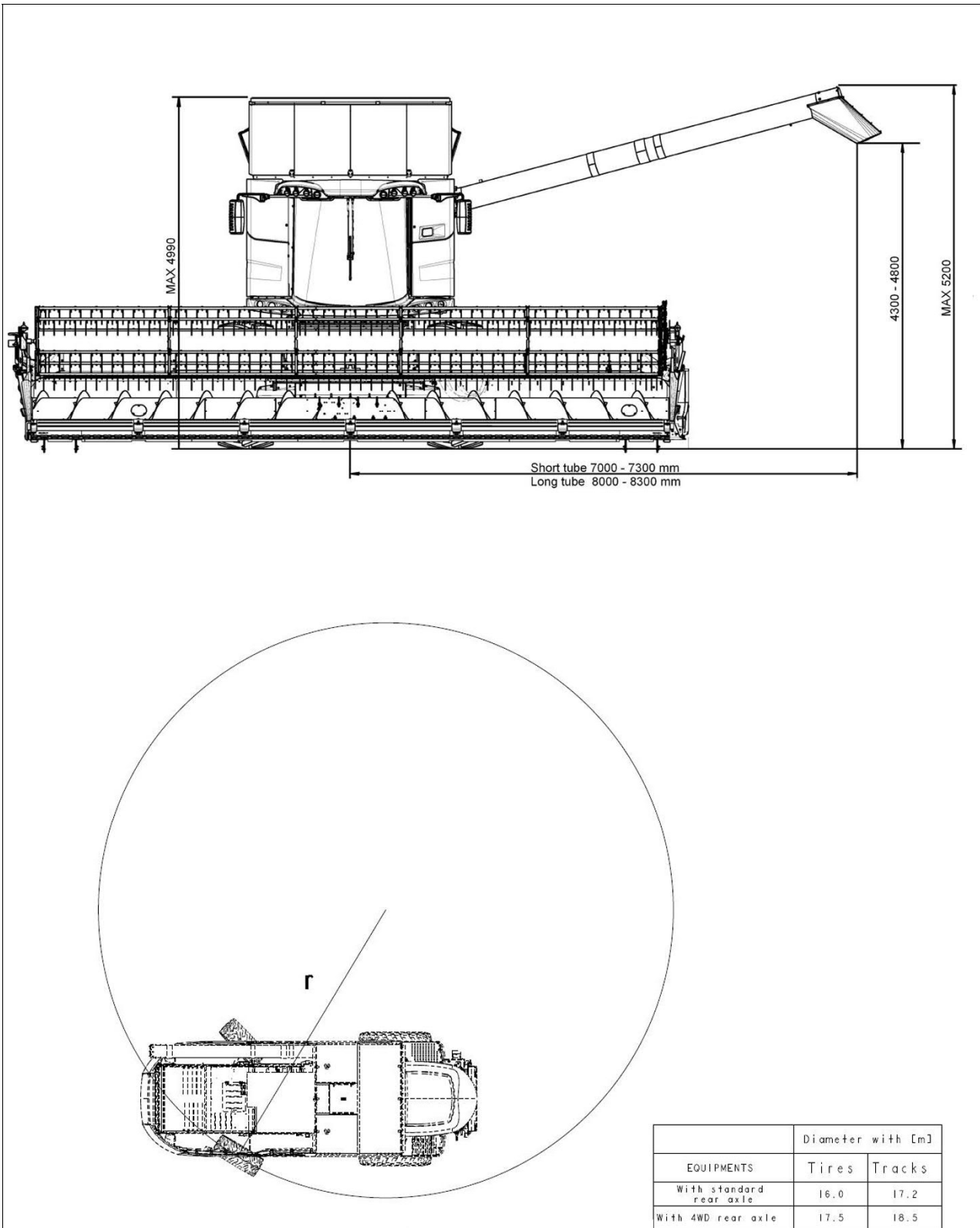


Fig. 1. Dimensions with cutting table and active unloading tube; dimensions for turning circle

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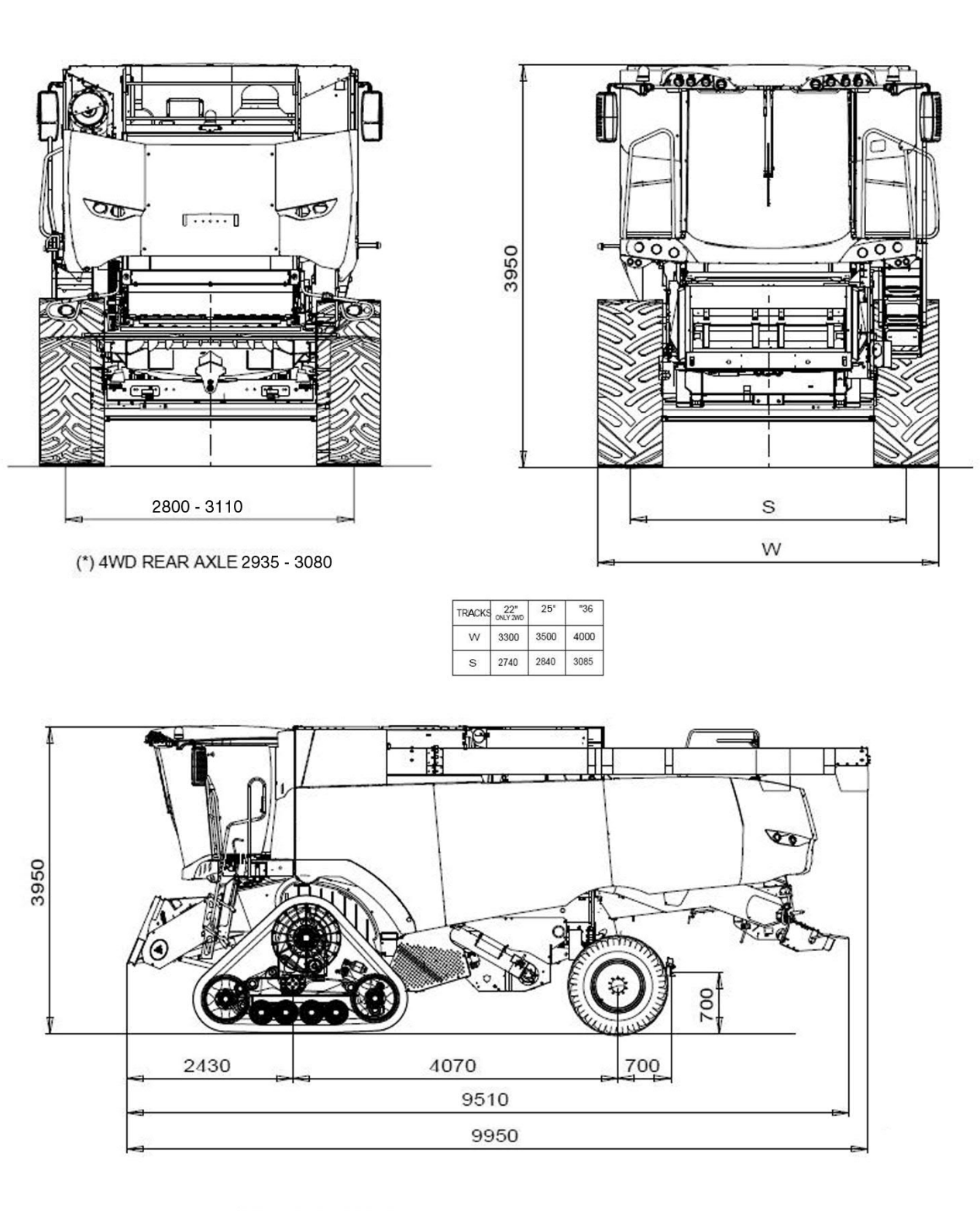
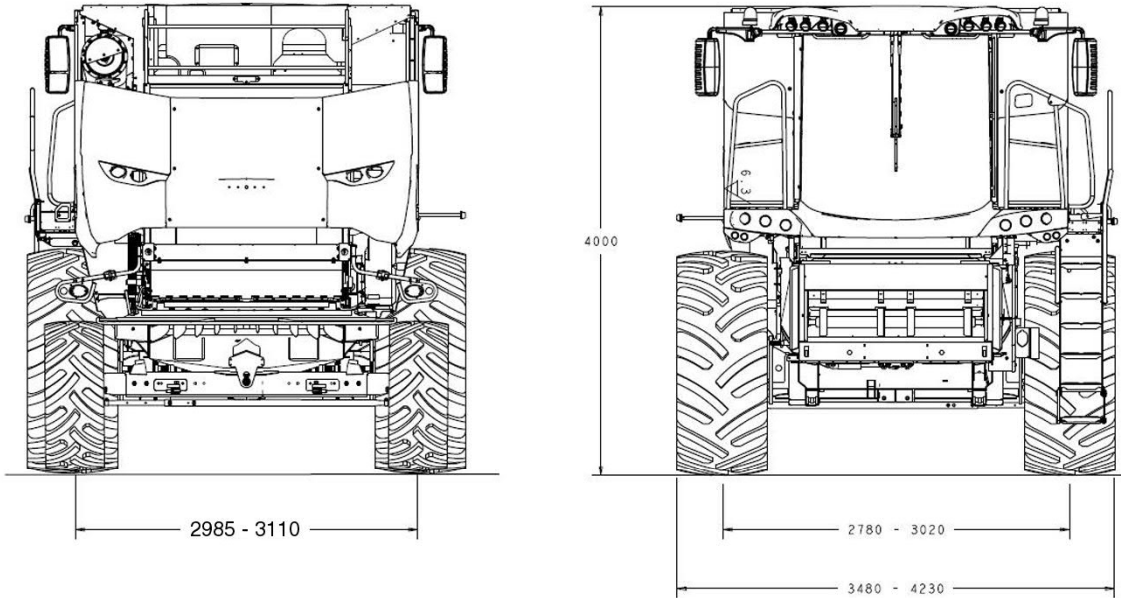


Fig. 2. Dimensions for tracked machines; front, rear, side

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1



(\*) 4WD REAR AXLE 2935 - 3080

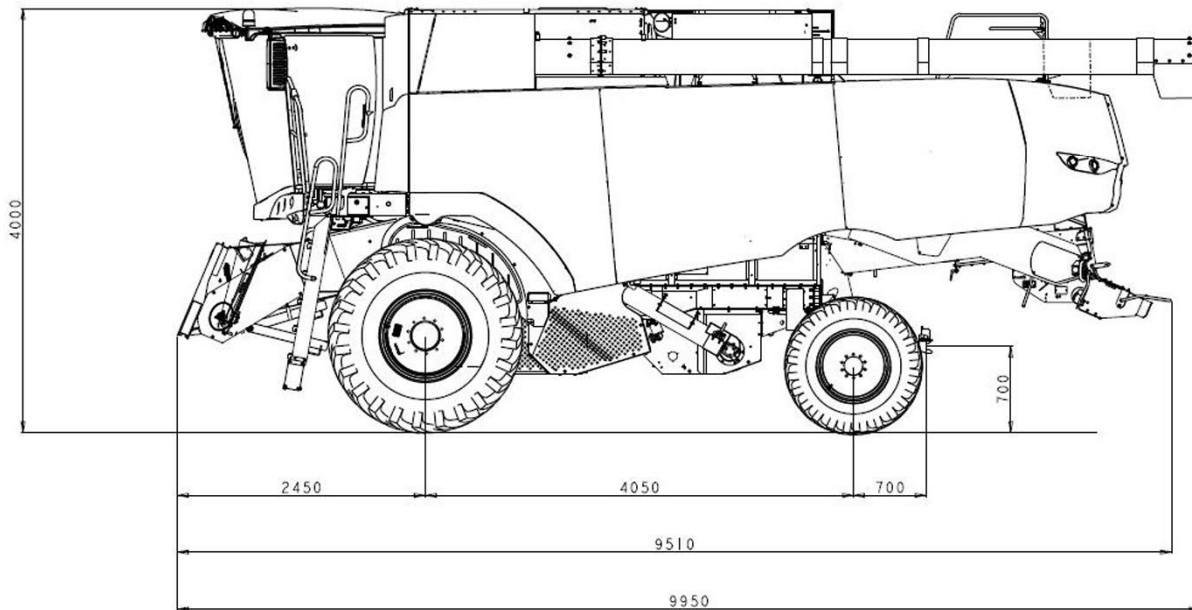


Fig. 3. Dimensions for machines with tyres; front, rear, side

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FEEDING DEVICE	Unit	MF 9380 DELTA + Auto Level
<b>CUTTING TABLE</b>	-	PowerFlow
<b>MAIN CROP ELEVATOR</b>	-	Universal type
- Elevator chain front shaft	-	Spring-loaded
- Chains with slats	units	4
- Slats	units	21

<b>FEEDING DEVICE</b>	<b>Unit</b>	<b>MF 9380 DELTA + Auto Level</b>
- Overload cutout	-	Spring-loaded slip clutch
- Top shaft speed	rpm	500
- Front shaft speed	rpm	620
- Main crop elevator drive belt	-	Powerband belt

<b>THRESHING UNIT</b>	<b>Unit</b>	<b>MF 9380 DELTA + Auto Level</b>
- Stone trap	-	Fitted
<b>CYLINDER</b>	-	-
- Type: Grain/maize	-	Med 8 rasp bars
- Cylinder housing width	mm	1680
- Cylinder width	mm	1660
- Diameter	mm	600
- Variator	-	With one drive belt
- Variator control	-	Electro-hydraulic
- Speed	rpm	370 - 1080
<b>CONCAVE</b>	-	-
- System	-	Adjustable from operator seat
- Area	m <sup>2</sup>	1.06
Grain type:	-	-
- Clearance (between wire centres)	mm	15
- Wire location	mm	Alternating 350 and 700
- Wrap angle	degrees	- 117°
- Wire diameter	mm	3.5
- Total number of wires	units	110
- Rub bars	-	12
Maize type:	-	-
- Distance	mm	25
- Wrap angle	degrees	117°
- Wire diameter	mm	6
- Rub bars	units	12
<b>ROTOR FEEDER</b>	-	-
- Speed, normal	rpm	950
- Speed, low gear	rpm	515
- Diameter	mm	500
- Width	mm	1680
<b>ROTOR</b>	-	-
- Quantity	units	2
- Diameter	mm	475
- Length	mm	4150
- Area with Rotor Feeder	m <sup>2</sup>	0.35
- Separator area	m <sup>2</sup>	3.54
- Wrap angle, rotor grate	degrees	150°

1

THRESHING UNIT	Unit	MF 9380 DELTA + Auto Level
- Speed	rpm	360 - 1000
Rotor fingers (per rotor)	units	38
- Hatch in straw hood for cleaning rotor discharge	-	Yes
<b>REAR BEATER</b>	-	-
- Drive	-	Powerband belt
- Speed	rpm	945
- Wrap angle, concave	degrees	44°
- Concave area	m <sup>2</sup>	0.34
- Rub bars	units	6
- Distance	mm	75
- Wire diameter	mm	6

CLEANING DEVICE	Unit	MF 9380 DELTA + Auto Level
<b>FANNING MILL</b>	-	-
- Speed, normal	rpm	460 - 1150
- Speed, low gear	rpm	310 - 790
- Drive	-	Variator belt
<b>MAIN GRAIN PAN</b>	-	-
- Type	-	Stepped plates, removable for cleaning
- Movement	-	Alternating, opposite bottom shaker shoe
- Connecting rod	strokes/min.	295
- Drive	-	Double V-belts
- Main grain pan, width	mm	1660
- Main grain pan, length	mm	1680
- Main grain pan, area	m <sup>2</sup>	2.79
- Rake extension	m <sup>2</sup>	0.4
<b>TOP SIEVE</b>	units	2
- Top sieve, width	mm	813
- Top sieve, length	mm	1811
- Top sieve, area	m <sup>2</sup>	1.47
<b>BOTTOM SIEVE</b>	units	2
- Bottom sieve, width	mm	813
- Bottom sieve, length	mm	1400
- Bottom sieve, area	m <sup>2</sup>	1.14
<b>RETURNS SYSTEM</b>	-	-
- Type	-	Optional rethreshing
- Material transport	-	Via returns auger
- Speed, returns auger	rpm	450 - 800

<b>GRAIN TANK</b>	<b>Unit</b>	<b>MF 9380 DELTA + Auto Level</b>
- Material transport	-	Via tank filling elevator and auger to the centre of the grain tank
- Speed, tank filling elevator	rpm	450
- Capacity	l	12500 (AL 10500)
- Draw, unloading auger	-	Powerband belt, chain and angle gear
- Overload cutout	-	Locking bolt
- Length, unloading auger	mm	5765 - 6865
- Unloading speed	l/sec.	120
- Unloading height	mm	4300 - 4800

<b>HYDRAULIC SYSTEM</b>	<b>Unit</b>	<b>MF 9380 DELTA + Auto Level</b>
- Capacity, oil tank (combined)	l	36
- Capacity, hydraulic pump for cutting table	l/min.	68
- Max. pressure for valve block, cutting table	bar	185
- Capacity, auxiliary hydraulic pump	l/min.	68
- Max. pressure for valve block, auxiliary hydraulics	bar	185
- Hydrostatic control pump, volume	cm <sup>3</sup> /rev.	11
- Capacity, hydrostatic control	cm <sup>3</sup>	260
- Max. pressure	bar	140
- Choke valve, max. pressure	bar	200
- Return filter	micron	16

<b>HYDROSTATIC SYSTEM</b>	<b>Unit</b>	<b>MF 9380 DELTA + Auto Level</b>
- Capacity, oil tank (combined)	l	36
- Pump stroke volume	cm <sup>3</sup> /rev.	145
- Pump	rpm	2620
- Settings, pressure relief valve	bar	450
- Engine stroke volume	cm <sup>3</sup> /rev.	107
- Return filter	micron	16

<b>ENGINE</b>	<b>Unit</b>	<b>MF 9380 DELTA + Auto Level</b>
- Make	-	AGCO POWER
- Type	-	98AWF953
- Cylinders	units	7
- Stroke volume	cm <sup>3</sup>	9822
- Bore	mm	111
- Stroke length	mm	145
- Turn direction (from flywheel)	-	Anti-clockwise
- Speed, idling	rpm	2100 ± 50
- Speed, fully loaded	rpm	2100

1

ENGINE	Unit	MF 9380 DELTA + Auto Level
- RPM at max. torque	rpm	1950
- Maximum power (ECE R 120)	kW	360
- Maximum power (ECE R 120 with Power Boost)	kW	365
- Nominal power (at 2100 rpm)	kW	343
- Nominal power (with Power Boost)	kW	364
- Capacity, engine oil	l	33
- Capacity, DEF tank	l	115
- Capacity, fuel tank	l	1000
<b>RADIATOR</b>	-	-
- Capacity, circuit	l	56

ELECTRICAL COMPONENTS	Unit	MF 9380 DELTA + Auto Level
<b>BATTERY</b>	-	-
- Type 12V	A/h	200
- Peak current	A	1200
<b>STARTER MOTOR</b>	-	-
- Type	-	12V
<b>ALTERNATOR</b>	-	-
- Type	-	12V
- Charge capacity	A	150

GEAR OIL	Unit	MF 9380 DELTA + Auto Level
Gearbox contains	litres	9.5
Coupler housing for oil motor	litres	1.5
Final drives contain	litres	6
The rotor gear has a capacity of	litres	1.5

TRANSMISSION	Unit	MF 9380 DELTA + Auto Level
- Gear type	-	With normal gearshift
- Gear	units	4
<b>TYRE</b>	-	-
Speed (forward and reverse) with tyres 710/75R34	-	-
- 1st gear (work)	km/h	0 - 6.80
- 2nd gear (work)	km/h	0 - 11.70
- 3rd gear (work)	km/h	0 - 17
- 4th gear (work)	km/h	-
- 4th gear (driving on roads)	km/h	30 (*)
<b>TRACKS</b>	-	-
- 1st gear (work)	km/h	0 - 6.10
- 2nd gear (work)	km/h	0 - 10.50
- 3rd gear (work)	km/h	0 - 17

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