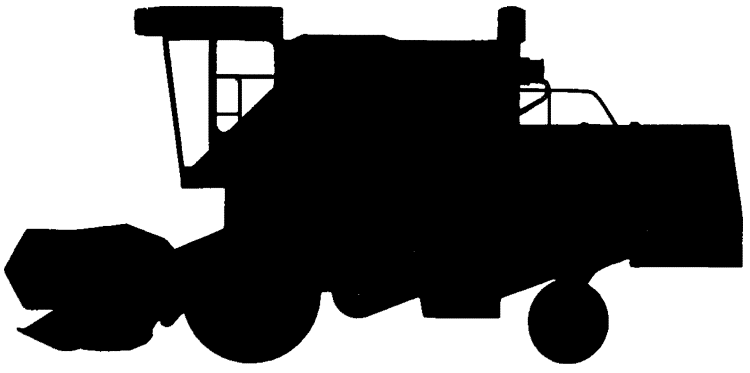
BETRIEBSANLEITUNG
OPERATOR'S MANUAL
NOTICE D'UTILISATION
BRUGSANVISNING
INSTRUKTIONSBOK
KÄYTTÖOHJE
INSTRUKSJONSBOK
MANUAL DE INSTRUCCIONES
LIBRETTO D'USO
MANUAL DE INSTRUCÕES
GEBRUIKSAANWIJZING
HASZNÁLATI UTASITÁS

CLAAS



CLAAS
DOMINATOR 68 S

INTRODUCTION

The DOMINATOR 68 S belongs to the wide range of combine harvesters manufactured by the CLAAS OHG.

This manual is intended to give the machine driver information on setting, using and servicing the combine.

Text and pictures in this manual are general, except where specified by reference to a particular version.

Operation and maintenance of important auxiliary equipment is also covered by this manual. Please read the instructions which apply to the appropriate auxiliary equipment on your combine.

Provided you follow the advice on the care and servicing of your machine you will be rewarded with reliable and long service from your combine harvester.

We recommend that you allow your authorized CLAAS dealer to carry out the regular maintenance. Omissions of parts of the maintenance schedule or incorrect operation lead to a drop in performance and cost valuable time. By correct servicing and operation you can make full use of our sound experience and of the latest technical knowledge in combine harvesting with which your combine has been designed and thereby insure reliability of your combine harvester.

This Operator's Book can be ordered from your CLAAS dealer as well as the manuals listed below:

- Threshing Instructions for special crops.
- Fitting and Operating Instructions for auxiliary equipment.

CLAAS Service Department

IMPORTANT

The instructions contained in this manual should be carefully read and observed by all persons who are concerned with the operation, maintenance and inspection of this machine, in order to prevent accidents. Especially the SAFETY RULES in this manual should be read with the utmost care and adhered to.

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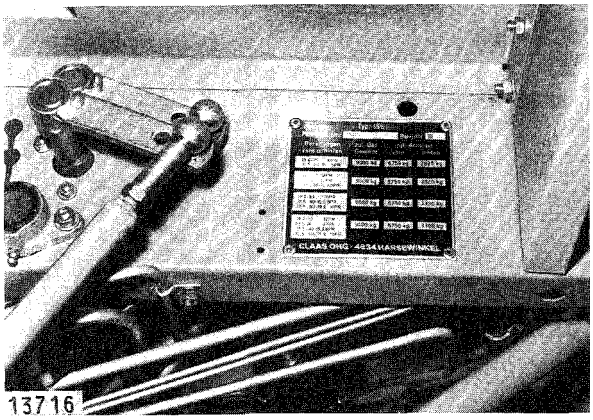
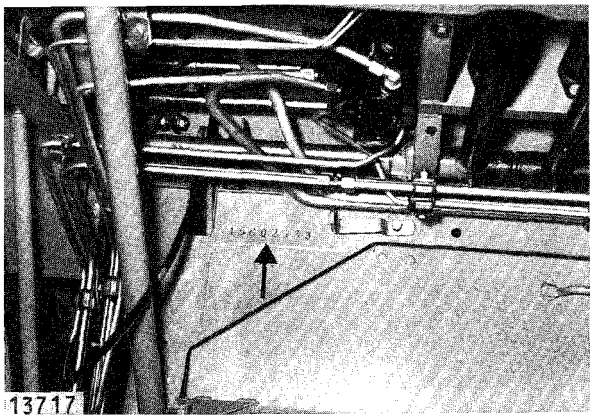


1

Identification plate

The identification plate is located on the right hand side of the operator's platform (Fig. 1).

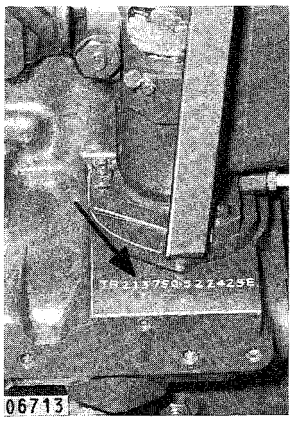


2

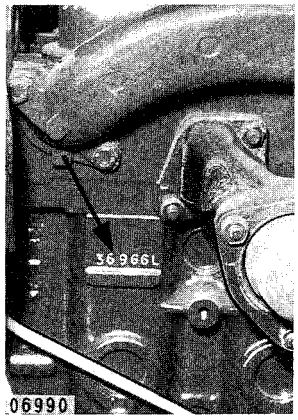
Combine serial number

The combine serial number is stamped on the combine frame underneath the operator's platform on the right hand side of the machine (Fig. 2).

Perkins 6.3544



Perkins 4.248



3

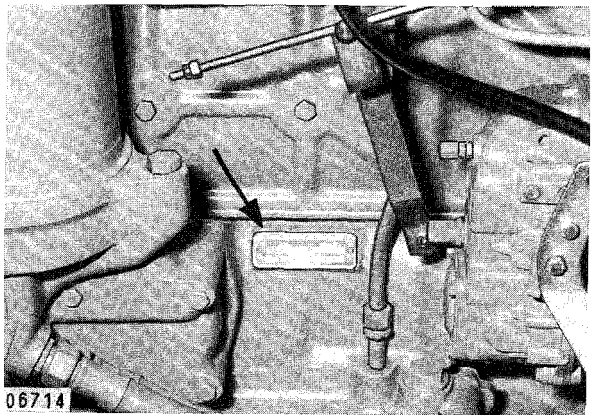
Engine serial number PERKINS 6.3544

The engine serial number is stamped on the injection pump base.

Engine serial number PERKINS 4.248

The engine serial number is stamped on the engine block next to the exhaust manifold (Fig. 3).

Mercedes OM 352



4

Engine serial number MERCEDES OM 352

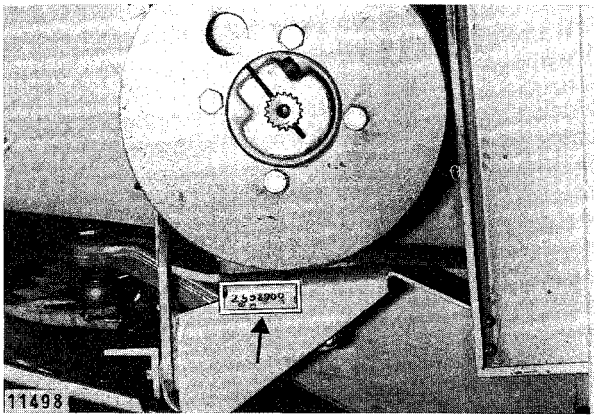
The identification plate showing the engine serial number is attached between the oil filter and injection pump on the engine block (Fig. 4).

SERIAL NUMBERS OF AUXILIARY EQUIPMENT

Cutterbars

The serial number of the cutterbar is stamped on the left hand end of the cutterbar below the knive drive casing.

(Fig. 5)

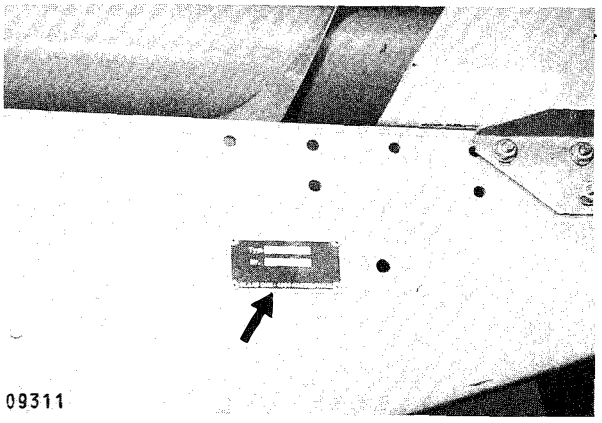


5 11498

Maize picker head

The identification plate with the picker serial number is attached to the right hand end of the picker cross plate.

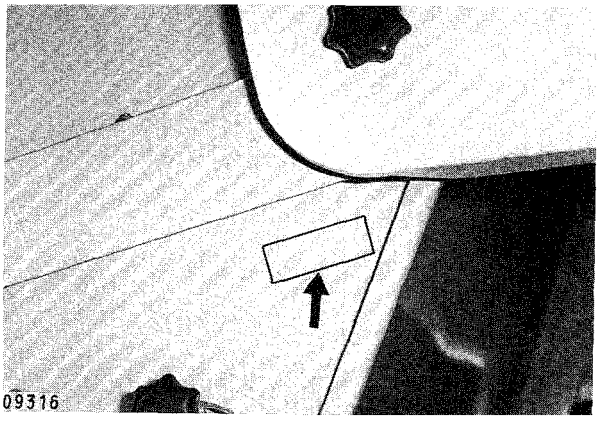
(Fig. 6)



6 09311

Straw chopper

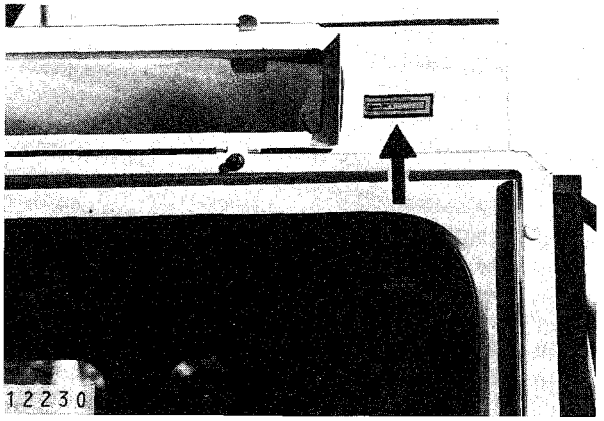
The chopper serial number is stamped on the l. h. chopper side plate (Fig. 7).



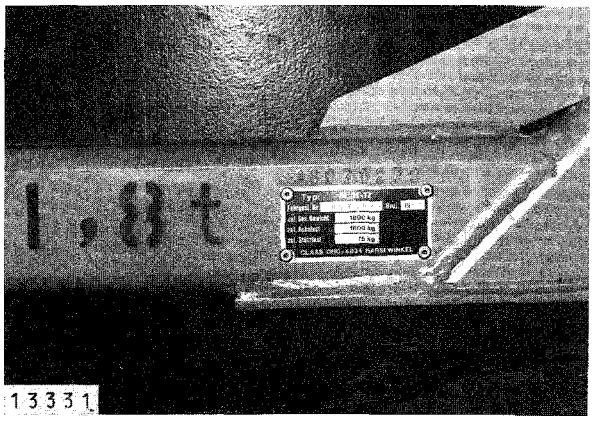
7 09316

Cab

The cab serial number is located on the left hand side frame at the top towards the rear (Fig. 8).



8 12230



9

Cutterbar trailer

The trailer serial number is stamped in the r. h. side of the main tube towards the front. The identification plate is located at the same place (Fig. 9).

Safety rules

1. Do not misuse the machine. No warranty applies to damage that results from improper use of the machine.
2. Wear tightly fitting clothing when working with the combine.
3. Sound the horn before starting the combine and make sure that everyone is clear of the machine.
4. Before operating the machine, check cutterbar, grain tank, straw walkers and sieve pan to be sure that no loose parts are present.
5. **When working on or around the combine stop the engine and remove the ignition key, move all operating levers to neutral position and make sure that hydraulic lines are not under pressure.**
6. When working on the engine and on the electrical system, always disconnect the negative (–) cable from the battery.
7. When the engine is hot, the radiator is under pressure and care must be taken when removing the radiator cap.
8. Keep all safety shields and covers in place when operating the combine. The shields and covers must be securely locked.
9. Block cutterbar or maize head securely before doing work underneath it.
10. The spring-loaded variable speed pulleys must be safely locked before removing the belts (see group »Maintenance«).
11. To avoid fire hazards, thoroughly clean the engine compartment and especially the exhaust system. The brakes, gearbox, transmissions, hydrostatic ground drive unit and their adjacent areas must also be thoroughly cleaned. When combining extreme dry material and in severe dust conditions, these areas must be checked at shorter intervals and collected dirt, dust and trash cleaned off as necessary.
12. It is forbidden to take passengers on the combine.
13. Remove or fold back projecting parts such as dividers, grain tank unloading tube and platform ladder when driving on public roads. Move out the light brackets at the rear of the machine and lock them. Close the grain tank lid. Existing traffic regulations must be observed.
14. Before leaving the combine stop the engine, remove the ignition key, put the transmission in gear, set the handbrake and, if necessary, chock the wheels to prevent the combine from moving.
15. **Make sure to shift into second gear when driving with the combine on gradients of more than 7 % slope (brake-action of engine).**
16. Inspect the brake linings periodically and fit new brake linings as necessary. Under no circumstances should the brake linings be allowed to wear down to the level of the rivets, as this would result in damage to the brake drums.

    Be sure to lock the brake pedals together before moving the combine on roads.
17. Every time that a wheel has been mounted, the wheel nuts or bolts must be retightened after the first ten hours of operation, thereafter check the nuts or bolts every 50 hours of operation for tight fit. For torque settings refer to »Specifications«.
18. For mounting the wheels always use correct lifting equipment. Check the total weight of the machine to make sure that the weight of the machine to be lifted does not exceed the lifting capacity of the lifting equipment. Aids to mounting may be obtained from the CLAAS Spare Parts Service.
19. The grain tank incorporates augers which can not be fully shielded. Suitable tools must be used, for instance a ram or a ladle, when clogging occurs or when taking a sample.
20. Removing and fitting knives involves a great risk of personal injury. Beware of accident – especially when the finger bar, knife and fingers are misaligned and covered with dirt.
21. Cutterbar, main table auger, reel and other components can not be fully shielded by integrated safety features or machine design, owing to the function of these mechanisms; therefore, do not get near these moving parts while they are running.
22. The handling of a combine is influenced by, for instance, the road or field surface, the load and attachments. Therefore, the handling of the machine must be adapted to existing terrain and ground conditions. It must be insisted that particular care is taken when operating and turning on a slope and when the grain tank is loaded.
23. The warning and instruction signs placed on the combine provide recommendations for safe operation. These instructions involve your safety – observe them at all times.

ON-ROAD OPERATION

Ensure that all traffic regulations in your country are complied with.

CONVERSION FACTORS

Length

millimetres (mm)	x	0.03937	= inches (in)
millimetres (mm)	x	0.00328	= feet (ft)
centimetres (cm)	x	0.3937	= inches (in)
metres (m)	x	3.2808	= feet (ft)
kilometres (km)	x	0.6214	= miles

Area

square metres (m^2)	x	1550	= square inches (sq in)
square metres (m^2)	x	10.764	= square feet (sq ft)
hectare (ha)	x	2.4710	= acres

Weight

kilogrammes (kg)	x	2.2046	= pounds (lb)

Torque

metre kilopond (mkp)	x	7.233	= foot pounds (ft lb)
newton metres (Nm)	x	0.7376	= foot pounds (ft lb)
metre kilopond (mkp)	x	9.81	= newton metre (Nm)

Pressure

bar	x	14.504	= pounds per square inch (psi)
kg/sq cm (at)	x	0.980665*	= bar
kg/sq cm (at)	x	14.223	= pounds per square inch (psi)

* Where feasible and for practical reasons, this factor is rounded to a whole unit to equal kg/sq cm (at) and bars.

Volume and capacities

cubic centimetres (cm^3)	x	0.06102	= cubic inches (cu in)
liters (l)	x	0.2201	= Imperial gallons (Imp. gal)
liters (l)	x	0.8798	= Imperial quarts (Imp. qt)
liters (l)	x	0.2642	= U.S. gallons (U.S. gal)
liters (l)	x	1.05668	= U.S. quarts (U.S. qt)
liters (l)	x	0.0275	= Imp. bushels
liters (l)	x	0.02838	= U.S. bushels

Velocity

kilometres/hour (km/h)	x	0.6215	= miles per hour (mph)

Temperature

To convert Celsius (Centigrade) temperature into Fahrenheit: multiply by 9, divide the result by 5 and add 32.

$$+27^\circ C = \frac{9 \times 27}{5} = 48.6 + 32 = 80.6^\circ F$$

$-24^\circ C = -11.2^\circ F$
$+\ 2^\circ C = +35.6^\circ F$
$+\ 1^\circ C = +33.8^\circ F$

Whilst great care has been taken to ensure accuracy in the compilation of the conversion factors, CLAAS cannot be held responsible for any errors or ormissions.

1

General information

SPECIFICATIONS DOMINATOR 68 S

Note: Front, rear, right and left refer to the direction of travel. Technical data, dimensions and weights are given as an indication only. Responsibility for errors or omissions not accepted.

Cutterbar

Cutting widths	3.00 m (10 ft)	3.60 m (12 ft)	3.90 m (13 ft)	4.20 m (14 ft)	4.50 m (15 ft)	5.10 m (17 ft)
Height adjustment	hydraulic					
Cutting height range	from 413 mm below ground level to 1585 mm above ground level					
Clearance height under cutterbar skid	on 18.4 - 30 tyres = 1140 mm / on 23.1 - 26 tyres = 1200 mm					
Reel drive	belt-operated variable speed drive adjustable from 12 to 48 1/min (rpm)					
Reel height adjustment	hydraulic					
Feeder housing	chain-type feed rake					
Cutterbar clutch	belt-operated					

Threshing Equipment

Stone trap	standard
Concave	adjustable from operator's platform, width 1060 mm, 12 bars
Disawning	disawning plates underneath the concave, two and three disawning plates can be engaged separately
Threshing drum	width 1060 mm diameter 450 mm six raps bars, five drum discs speed infinitely variable from 650 to 1500 1/min (rpm) and optional speed adjustment from 500 to 1400 1/min (rpm) Option: Slow speed threshing drum drive kit provides speeds of 300, 430 and 550 1/min (rpm) and one additional speed of 260 1/min (rpm) with extra sprocket

Straw Walkers

Type	step-type walkers
No. of walker racks	4
No. of walker shafts	2
Speed of walker shafts	220_{-5} 1/min (rpm)
No. of tine crankshafts	1
No. of tines per crankshaft	4
Walker area	4.13 m^2
Separation area	4.80 m^2

Cleaning

Type	forced air cleaning fan
Wind volume control	by infinitely variable fan speed
Total cleaning area	3.00 m^2

Grain Tank

Capacity	3200 litres (app. 2.5 tonnes of wheat)	2700 litres (app. 2.1 tonnes of wheat)
Unload auger swing	hydraulic	mechanical

SPECIFICATIONS DOMINATOR 68 S

Engines	Perkins 4.248	Perkins 6.3544	Mercedes OM 352
Cubic capacity	4060 cm^3	5800 cm^3	5675 cm^3
Maximum speed – no load 1/min (rpm)	2600	2600	2600
Maximum speed – full load	2500	2500	2500
Slow idle speed 1/min (rpm)	1150	1150	1150
kW (DIN H. P.)	63 (85)	74 (102)	74 (102)
Cooling	water (approx. 15 litres)	water (approx. 24 litres)	water (approx. 22 litres)

Fuel Tank Capacity 200 litres

Battery 12 Volts, 110 Ah

Mechanical Ground Drive variable ground speed, hydraulically controlled

Clutch dry single disc clutch

Transmission three forward, one reverse gear

Speed range **on 18.4 - 30 R1 tyres / 23.1 - 26 R1**

1. Gear 1.6 to 4.7 km/h
2. Gear 4.0 to 12.3 km/h
3. Gear 6.5 to 19.9 km/h

R.-Gear 3.1 to 9.5 km/h

Traction Wheel Drive via final drive gears in oil bath

Steering hydrostatic

Brakes

Foot brake: hydraulic, designed to work independently when the pedal lock is removed

Hand brake: mechanical, independent of foot brake

Tyres and Tyre Pressure

tyre sizes	maximum tyre pressure	maize picker head four-row	minimum tyre pressure grain cutterbar 5.10 m (17 ft)	4.50 m (15 ft)	4.20 m (14 ft)	3.90 m (13 ft)	3.60 m (12 ft)	3.00 m (10 ft)
18.4-30 10 PR	2.3 bar	2.3 bar	2.2 bar	2.1 bar		2.0 bar		1.8 bar
18.4-30 12 PR	2.9 bar	2.3 bar	2.2 bar	2.1 bar		2.0 bar		1.8 bar
23.1-26 12 PR	2.1 bar	1.4 bar	1.4 bar	1.4 bar		1.2 bar		1.1 bar
11.5/80-15.3 6 PR	—	—	2.0 bar	2.0 bar		2.0 bar		2.0 bar
11.5/80-15.3 8 PR	—	2.3 bar	2.0 bar	2.0 bar		2.0 bar		2.0 bar
12.5/80-18 6 PR	—	1.5 bar	1.5 bar	1.5 bar		1.5 bar		1.5 bar
12.5/80-18 10 PR	—	1.5 bar	1.5 bar	1.5 bar		1.5 bar		1.5 bar

Torque Setting of Wheel Bolts and Wheel Nuts

Front wheels: with flange nuts M 22 × 1.5 and special washer (Limes) C 22.5 DIN 74361 = 520 Nm (376 ft lb)

Rear wheels: M 18 × 1.5 wheel bolts = 325 Nm (235 ft lb)

SPECIFICATIONS DOMINATOR 68 S

Weights

Combine equipped with 18.4 - 30 R1 and 11.5/80 - 15.3 Impl. tyres, full fuel tank, 6-cylinder engine.

Determine the total weight of the machine by adding the weights of the options used on the machine to the weight of the basic machine.

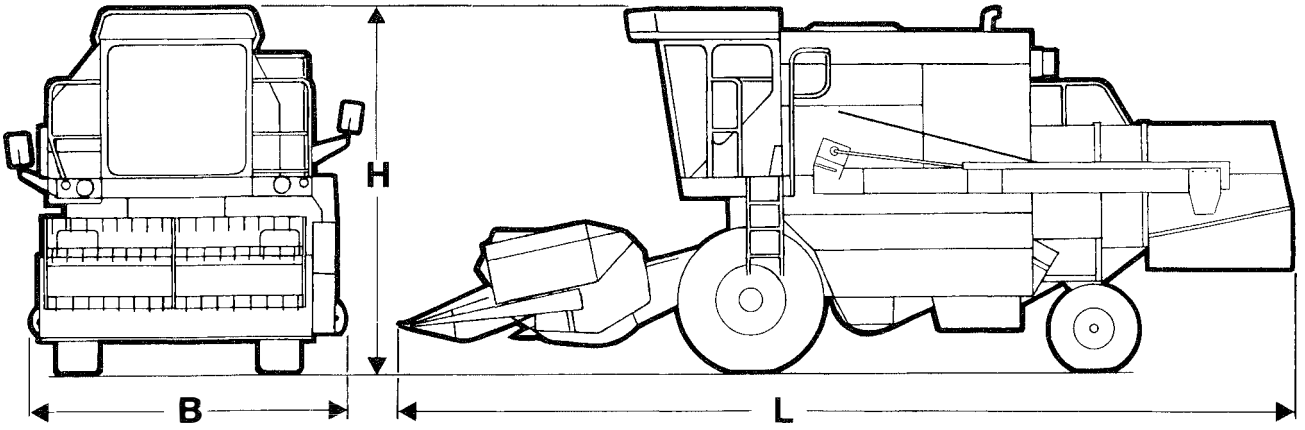
Basic machine without cutterbar	6080 kg
Cutterbar and spring-tine reel:	
3.00 m (10 ft)	+ 800 kg
3.60 m (12 ft)	+ 910 kg
3.90 m (13 ft)	+ 950 kg
4.20 m (14 ft)	+ 1000 kg
4.50 m (15 ft)	+ 1080 kg
5.10 m (17 ft)	+ 1120 kg
Two complete short divider assemblies	+ 37 kg
Two complete long divider assemblies	+ 45 kg
Two special divider assemblies	+ 10 kg
With straw chopper	+ 290 kg
With cab and ventilating system	+ 260 kg
With 4-row maize picker head	+ 1300 kg
With set of wheel weights	+ 104 kg
With liquid ballast (magnesium chloride solution) filled into	
11.5/80-15.3 rear tyres	+ 140 kg
12.5/80-18 rear tyres	+ 210 kg
With compulsory weights as required by law (not for all countries)	+ 300 kg

SPECIFICATIONS DOMINATOR 68 S

Combine Dimensions

Wheel Tread	front	on 23.1 - 26 12 PR tyres	
		wheel disc DW 20 - 25 reversed	2405 mm
		on 18.4 - 30 10 PR tyres	2153 mm
		rim reversed	2437 mm
		on 23.1 - 26 12 PR tyres and	
		wheel disc DW 16 - 26	2243 mm
		rim reversed	2349 mm
	rear	narrow rear axle	1650 mm
		wide rear axle	
		with 11.5/80 - 15.3 6 PR tyres	2050 mm
		with 12.5/80 - 18 10 PR tyres	2060 mm
		adjustable rear axle	
		with 12.5/80 - 18 18 PR tyres	2310 mm
			2510 mm
			2710 mm
Width over Tyres		on 18.4 - 30 tyres	2620 mm
		rim reversed	2900 mm
		on 23.1 - 26 12 PR tyres and	
		wheel disc DW 16 - 26	2790 mm
		rim reversed	2900 mm
		on 23.1 - 26 12 PR tyres	
		wheel disc DW 20 - 26 reversed	2995 mm
Wheel Base			3435 mm
Ground Clearance		on 18.4 - 26 18 PR and	
		11.5/80 - 15.3 6 PR tyres	
		to elevator boot	435 mm
		to fan housing	460 mm
		on 23.1 - 26 12 PR and	
		12.5/80 - 18 10 PR tyres	
		to elevator boot	455 mm
		to fan housing	490 mm
Turning Diameter		left	15150 mm
conforming to DIN 70020 specifications		right	15250 mm

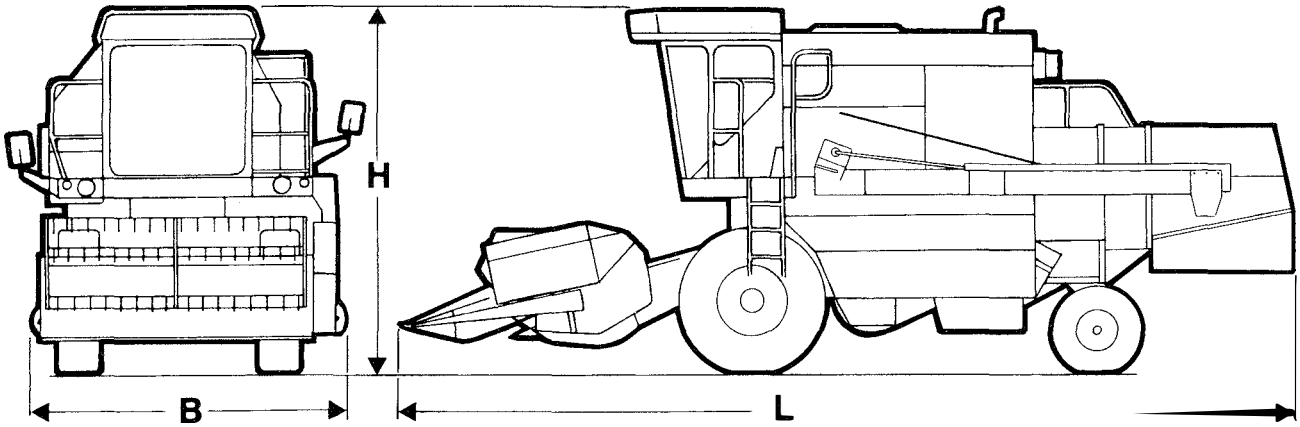
SPECIFICATIONS DOMINATOR 68 S



Operating Position

WIDTH B	Cutting width	3.00 m (10 ft)	3.60 m (12 ft)	3.90 m (13 ft)	4.20 m (14 ft)	4.50 m (15 ft)	5.10 m (17 ft)
	Overall width	4590 mm	5190 mm	5565 mm	5900 mm	6175 mm	6785 mm
	Overall widths are with deflectors set out 600 mm on each side of the cutterbar						
	with four-row maize picker head, 80 cm						3260 mm
HEIGHT H	to top edge of 2700 litre grain tank						3310 mm
	to top edge of 3200 litre grain tank						3480 mm
	when grain tank lid is open						+ 330 mm
	to top end of silencer tail pipe (6-cylinder engine)						3545 mm
	to top end of silencer tail pipe (4-cylinder engine)						3330 mm
	to bottom edge of grain tank unloading tube (3200 litre-grain tank)						3440 mm
	to bottom edge of grain tank unloading tube (2700 litre-grain tank)						from 2470 mm to 2920 mm
LENGTH L	without dividers						8610 mm
	with long dividers						9600 mm
	with short dividers						9325 mm
	with special dividers						8890 mm
	with straw chopper						+ 250 mm
	with maize picker head						9550 mm

SPECIFICATIONS DOMINATOR 68 S



Transport Position

WIDTH B	Cutting widths	3.00 m (10 ft)	3.60 m (12 ft)	3.90 m (13 ft)	4.20 m (14 ft)	4.50 m (15 ft)	5.10 m (17 ft)
	Overall widths	3390 mm	3990 mm	4365 mm	4700 mm	4975 mm	5585 mm
	with cutterbar detached						3000 mm
	with four-row maize picker head						3000 mm
HEIGHT H	to top edge of 2700 litre-grain tank						3310 mm
	to top edge of 3200 litre-grain tank						3480 mm
	to top end of silencer tail pipe (6-cylinder engine)						3545 mm
	to top end of silencer tail pipe (4-cylinder engine)						3330 mm
	to top edge of cab (on 18.4 - 30 tyres)						3700 mm
	to top edge of air cleaner intake screen (with dust extractor unit)						3820 mm
LENGTH L	with cutterbar detached						7050 mm
	without dividers						8645 mm
	with long dividers						9700 mm
	with short dividers						9425 mm
	with special dividers						8990 mm
	with maize picker head						9700 mm