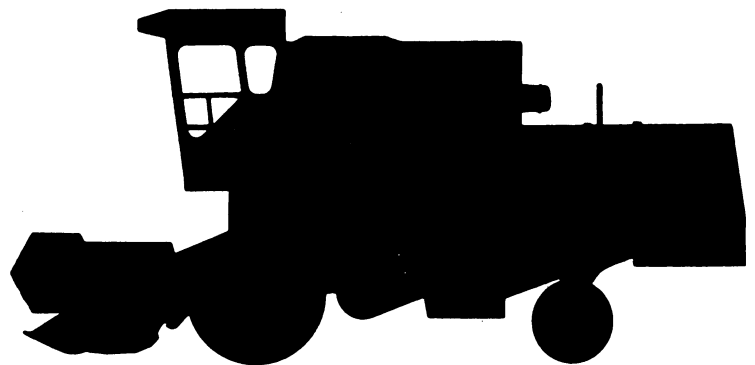


**REPAIR
MANUAL**

CLAAS



**CLAAS-
DOMINATOR 68-38**

GROUP INDEX

- 1 Specifications
- 2 Sectional View of Machine
- 3 Drive Schematic
- 4 Cutterbar
- 5 Threshing Mechanism
- 6 Elevators and Crop Delivery
- 7 Engine and Drives
- 8 Transmission and Chassis
- 9 Hydraulic System
- 10 Steering and Rear Axle
- 11 Electrical System
- 12 Auxiliary Equipment

1

Specifications

1 SPECIFICATIONS

DOMINATOR 68

Technical data	1. 1
Weights	1. 4
Dimensions	1. 5
Settings and capacities	1. 7

DOMINATOR 58

Technical data	1. 9
Weights	1.12
Dimensions	1.13
Settings and capacities	1.15

DOMINATOR 48

Technical data	1.17
Weights	1.20
Dimensions	1.21
Settings and capacities	1.23

DOMINATOR 38

Technical data	1.25
Weights	1.28
Dimensions	1.29
Settings and capacities	1.31

SPECIFICATIONS DOMINATOR 68

Technical data, dimensions and weights are given as an indication only. CLAAS reserve the right to make changes in design and specifications at any time without previous notice and rejects all responsibility in case of errors.

To be sure, always compare settings and filling capacities with specifications stated in the appropriate Operator's Manual for the machine concerned.

NOTE: Front, rear, right and left refer to direction of travel.

Cutterbar	strong pressure springs provide automatic cutterbar float as ground contours change
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)
Height adjustment	hydraulic, a gauge indicates cutting height
Cutting height range	from 413 mm below ground level to 1585 mm above ground level (on 18.4-30 tyres)
Clearance height under cutterbar	on 18.4-30 R 1 tyres = 1140 mm on 23.1-26 R 1 tyres = 1200 mm
Spring tine reel:	
Speed control	belt-operated variable speed drive
Speed	from 14 to 55 1/min (rpm)
Height adjustment	hydraulic
Feeder housing	chain-type feed rake
Cutterbar clutch	belt-operated
Threshing Unit	
Stone trap	standard
Concave	adjustable from operator's platform width 1060 mm 12 bars
Disawning	two and three disawning plates underneath the concave can be engaged separately
Threshing drum	width 1060 mm diameter 450 mm six rasp bars, five spiders speed infinitely variable from 650 to 1550 1/min (rpm) by variable speed drive
Option:	
Slow speed threshing drum drive kit	chain drive, 300, 430, 550 1/min (rpm) and one additional speed of 260 1/min (rpm) with extra sprocket
Threshing unit clutch	belt-operated

SPECIFICATIONS DOMINATOR 68**Straw Walkers**

Type	stepped walkers and intensive separation system (crankshaft with tines)
No. of walker racks	four
No. of walker crankshafts	two
Speed of walker crankshafts	220 ₋₅ 1/min (rpm)
No. of tine crankshafts	one
No. of tines per crankshafts	four
Straw walker dimensions	1060 x 3900 mm
Walker area	4.13 m ² (6401.5 sq in)
Separating area	4.80 m ² (7440 sq in)

Cleaning

Type	forced air, barrel type cleaning fan
Wind volume control	by infinitely variable speed drive
Option	additional fan shutters
Direction of wind	adjustable from outside
Preparation floor	one-piece construction with hillside risers
Uppers sieve	frogmouth sieve with long lips
Lower sieve	frogmouth sieve with short lips
Optional flat sieves	a selection of sieves of various hole sizes is available on request
Total sieve area	3.00 m ² (4650 sq in)
Returns	delivered to threshing drum

Grain Tank

Capacity	3200 litres = 88 Imp. bushels; 91 U.S. bushels (approx. 2.5 metric tons of wheat)
Capacity	2700 litres = 74 Imp. bushels; 77 U.S. bushels (approx. 2.1 metric tons of wheat)
Unloader swing	with 3200 litre tank – hydraulic with 2700 litre tank – mechanical

SPECIFICATIONS DOMINATOR 68

Engines	Perkins 4.248	Perkins 6.3544	Mercedes OM 352
Cubic capacity	4060 cm ³ (248 in ³)	5800 cm ³ (354 in ³)	5675 cm ³ (346 in ³)
Fast idle speed 1/min (rpm)	2600	2600	2600
Full-load speed 1/min (rpm)	2500	2500	2500
Slow idle speed 1/min (rpm)	1150	1150	1150
kW (DIN HP)	62 (85)	75 (102)	75 (102)
Cooling	water, about 15 litres (13.2 Imp. qt; 15.8 U.S. qt)	water, about 24 litres (21 Imp. qt; 25.3 U.S. qt)	water, about 22 litres 19.3 Imp. qt; 23.2 U.S. qt)
Fuel Tank Capacity	200 litres (176 Imp. qt; 211 U.S. qt)		
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 R 1 tyres / 23.1-26 R 1 tyres		
	1. Gear 1.6 to 4.7 km/h (1.0 to 2.9 mph)		
	2. Gear 4.0 to 12.3 km/h (2.5 to 7.6 mph)		
	3. Gear 6.5 to 19.9 km/h (4.0 to 12.3 mph)		
	R. Gear 3.1 to 9.5 km/h (1.9 to 5.9 mph)		
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				
			4.50 m (15 ft)	4.20 m (14 ft)	grain cutterbar 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	2.1 bar	2.0 bar	2.0 bar		1.8 bar
18.4-30 12 PR	2.9 bar	2.3 bar	2.1 bar	2.0 bar	2.0 bar		1.8 bar
23.1-26 12 PR	2.1 bar	1.4 bar	1.4 bar	1.2 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

Where ground conditions allow maximum tyre pressure, the maximum tyre pressure should be maintained in order to obtain the longest possible service life of the tyre.

Torque Setting of Wheel Bolts and Wheel Nuts	Front wheels	with flange nuts M 22 x 1.5 and special washer (Limes) C 22.5 DIN 74361 = 520 Nm (376 ft lb)
	Rear wheels	M 18 x 1.5 wheels bolts = 325 Nm (235 ft lb)

SPECIFICATIONS DOMINATOR 68**Weights**

Combine equipped with 18.4-30 R 1 and 11.5/80-15.3 tyres, empty fuel tank, six cylinder engine.

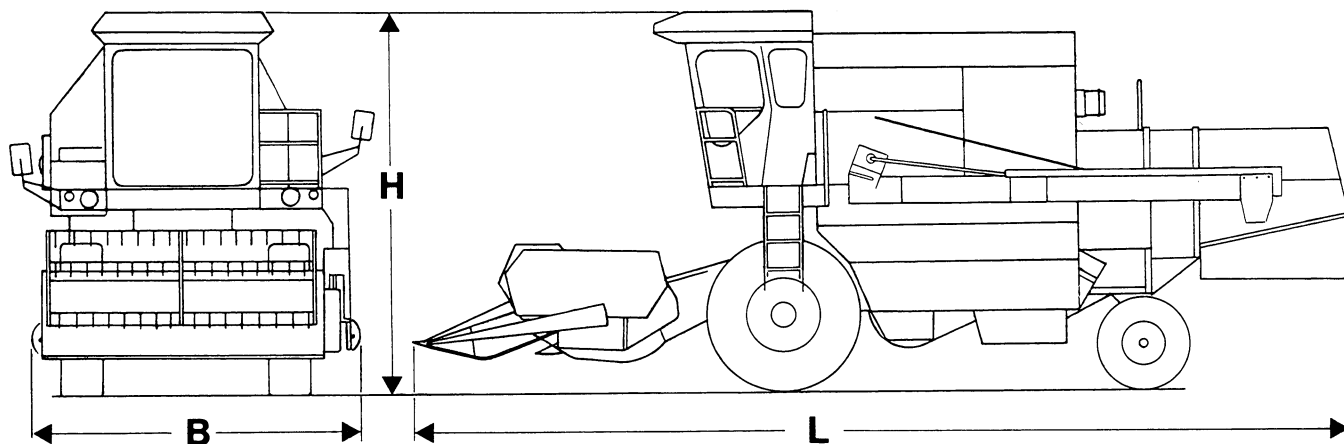
Determine the total weight of the machine by adding the weight of the equipment used on the combine to the weight of the basic machine.

Basic machine (without cutterbar)	5770 kg
With long lip cutterbar and spring tine reel	
3.00 m (10 ft)	add 810 kg
3.60 m (12 ft)	add 880 kg
3.90 m (13 ft)	add 920 kg
4.20 m (14 ft)	add 1000 kg
4.50 m (15 ft)	add 1020 kg
Two complete divider assemblies	add 41 kg
With straw chopper	add 226 kg
With cab and ventilating system	add 260 kg
With four-row maize (corn) picker head	add 1295 kg
With four-row stalk chopper	add 305 kg
With wheel weights (one set)	add 104 kg
With liquid ballast (magnesium chloride solution) filled into	
11.5/80-15.3 rear tyres	add 140 kg
12.5/80-18 rear tyres	add 210 kg
With extra road travel weights in compliance with road regulations (not for all countries)	add 300 kg

Combine Dimensions

Wheel Tread	front	on 18.4-30 tyres	2155 mm
		with rims reversed	2435 mm
		on 23.1-26 tyres	—
	rear	with rims reversed	2405 mm
		wide rear axle	
		on 12.5/80-18 tyres	2060 mm
Width over Tyres	front	on 11.5/80-15.3 tyres	2050 mm
		adjustable rear axle	
	rear	12.5/80-18	2310 mm
			2510 mm
			2710 mm
Wheel Base	front	on 18.4-30 R 1 tyres	2630 mm
		with rims reversed	2915 mm
	rear	on 23.1-26 R 1 tyres	—
		with rims reversed	2995 mm
Ground Clearance	front	on 18.4-30 R 1 and 11.5/80-15.3 tyres	3435 mm
		a) to elevator boot	435 mm
	rear	b) to fan housing	460 mm
		on 23.1-26 R 1 and 12.5/80-18 tyres	
	front	a) to elevator boot	455 mm
		b) to fan housing	490 mm
Turning Diameter Conforming to DIN 70020 Specifications	a) left	15150 mm	
	b) right	15250 mm	

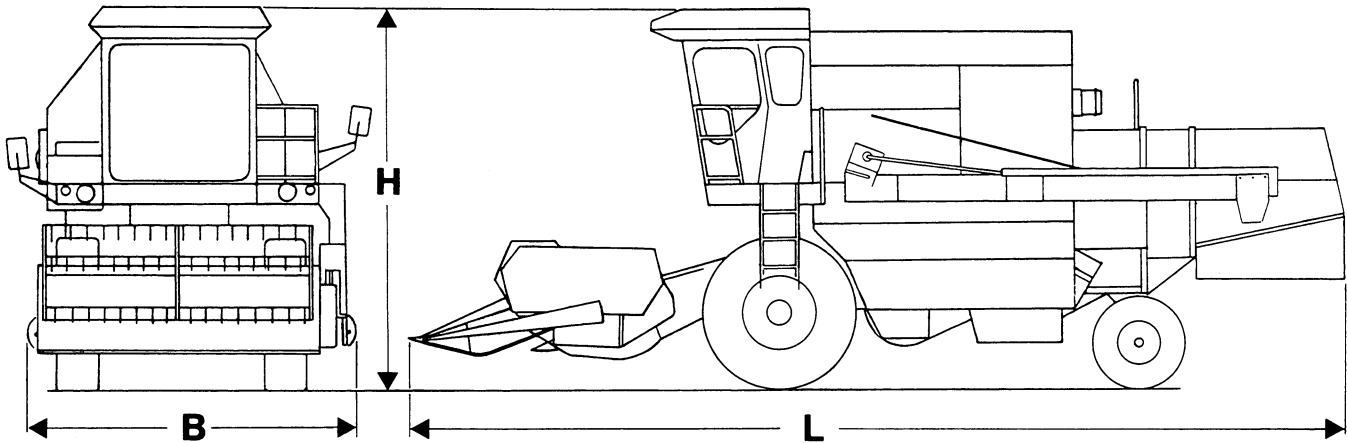
SPECIFICATIONS DOMINATOR 68



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)	
	Overall width	4585 mm	5290 mm	5595 mm	5900 mm	6205 mm	
Overall widths are with deflectors set out 600 mm on each side of the cutterbar							
with four-row maize picker head – 80 cm (32 in)							
						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						add 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 top edge of comfort cab						3700 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 hoop dividers						8930 mm
	with straw chopper						add 250 mm
	with maize picker head						9550 mm

SPECIFICATIONS DOMINATOR 68



Transport 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)
	Overall width	3385 mm	4090 mm	4395 mm	4700 mm	5005 mm
HEIGHT H		with cutterbar detached				3000 mm
		with four-row maize picker head – 80 cm (32 in)				3000 mm
		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
LENGTH L		to top end of silencer tail pipe (4 cylinder engine)				3330 mm
		to top edge of comfort cab				3700 mm
		with cutterbar detached				7050 mm
		without dividers				8645 mm
		with long dividers				9700 mm
	with short dividers				9425 mm	
	with hoop dividers				8975 mm	
	with maize picker head				9700 mm	

SPECIFICATIONS DOMINATOR 68**SETTINGS AND CAPACITIES****Hydraulic Oil Pressures**

Lift hydraulic system pressure relief valve	180 bar (2610 psi)
Hydrostatic steering system pressure relief valve	90 ⁺⁵ bar (1305 ^{+72.5} psi)

Oil Capacities

Transmission gearbox	6 litres (5.3 Imp. qt; 6.3 U.S. qt) SAE 90 (MIL-L-2105) API-GL-4-90 Transmission Oil
Final drive gearboxes	3 litres each (2.6 Imp. qt; 3.2 U.S. qt) SAE 90 (MIL-L-2105) API-GL-4-90 Transmission Oil
Lift hydraulic system	approx. 6 litres (5.3 Imp. qt; 6.3 U.S. qt) hydraulic oil conforming to DIN specifications 51524 part 2 – H-LP 68, ISO VG 68
Engines	refer to the appropriate engine operator's instruction book and to the combine operator's manual

Slip Clutches

Reel, 3.60 m (12 ft) and wider	200 Nm (145 ft lb)
Main table auger, 3.60 m (12 ft) and wider	200 Nm (145 ft lb)
Main table auger, up to 3.00 m (10 ft)	240 Nm (173 ft lb)
Upper feed rake shaft	220 Nm (159 ft lb)

Shear Bolt

Grain tank unloading system	M 10 x 45 DIN 931-8.8
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Knife Register

The center of the knife sections should line up with the center of the cutterbar fingers at each end of the knife stroke

Reel

Basic setting	reel drive shaft placed vertically over the knife. The tines should be adjusted to vertical position.
---------------	---

Main Table Auger

Basic setting	approx. 15 mm clearance between auger flights and bottom of cutterbar
---------------	---

SPECIFICATIONS DOMINATOR 68**Concave**

Reference (initial) setting: Grain concave Universal concave	concave entrance: concave exit: concave adjusting lever:	13 mm clearance measured at third concave bar 3 mm clearance measured at third last concave bar locked in second hole of quadrant
Reference (initial) setting: Maize (corn) concave (for shelling corn)	concave entrance: concave exit: concave adjusting lever:	40 mm clearance measured at second concave bar 20 mm clearance measured at last concave bar locked in eighth hole of quadrant
Reference (initial) setting: Round bar concave (CORN COB MIX)	concave entrance: concave exit: concave adjusting lever:	40 mm clearance measured at first concave bar 5 mm clearance measured at last concave bar locked in second hole of quadrant
Reference (initial) setting: Spike tooth concave (rice threshing)	concave entrance: concave exit: concave adjusting lever:	15 mm clearance measured at first tooth bar 5 mm clearance measured at end bar locked in second hole of quadrant

Brakes

Foot brake	brake must fully grip when the pedal is depressed through one third of its total travel
Hand brake	brake must be effective with the handle locked in the first three to four teeth in the segment

Steering

with the steering cylinder rod fully extended, the adjustable stop bolts must be contacting the steering arms

SPECIFICATIONS DOMINATOR 58

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NOTE: Front, rear, right and left refer to direction of travel.

To be sure, always compare settings and filling capacities with specifications stated in the appropriate Operator's Manual for the machine concerned.

Cutterbar	strong pressure springs provide automatic cutterbar float as ground contours change
Cutting widths	3.00 m (10 ft), 3.60 m (12 ft)
Height adjustment	hydraulic, a gauge indicates cutting height
Cutting height range	from 84 mm below ground level to 864 mm above ground level (on 18.4-26 tyres)
Clearance height under cutterbar:	590 mm on 18.4-26 R 1 tyres
Spring tine reel:	
Speed control	belt-operated variable speed drive
Speed	from 21 to 45 1/min (rpm)
Height adjustment	hydraulic
Feeder housing	chain type feed rake
Cutterbar clutch	belt-operated
Threshing unit	
Stone trap	standard
Concave	adjustable from operator's platform width 1060 mm 12 bars
Disawning	two and three disawning plates underneath the concave can be engaged separately
Threshing drum	width 1060 mm diameter 450 mm six rasp bars, five spiders speed infinitely variable from 650 to 1550 1/min (rpm) by variable speed drive
Option:	
Slow speed threshing drum drive kit	chain drive, 300, 430, 550 1/min (rpm) and one additional speed of 260 1/min (rpm) with extra sprocket
Threshing unit clutch	belt-operated

SPECIFICATIONS DOMINATOR 58**Straw Walkers**

Type	stepped walkers and intensive separation system (crankshaft with tines)
No. of walker racks	four
No. of walker crankshafts	two
Speed of walker crankshafts	220_5 1/min (rpm)
No. of tine crankshafts	one
No. of tines per crankshafts	four
Straw walker dimensions	1060 x 3900 mm
Walker area	4.13 m ² (6401.5 sq in)
Separating area	4.80 m ² (7440 sq in)

Cleaning

Type	forced air, barrel type cleaning fan
Wind volume control	by infinitely variable speed drive
Option	additional fan shutters
Direction of wind	adjustable from outside
Preparation floor	one-piece construction with hillside risers
Uppers sieve	frogmouth sieve with long lips
Lower sieve	frogmouth sieve with short lips
Optional flat sieves	a selection of sieves of various hole sizes is available on request
Total sieve area	3.00 m ² (4650 sq in)
Returns	delivered to threshing drum

Grain Tank

Capacity	2700 litres = 74 Imp. bushels; 77 U.S. bushels (approx. 2.1 metric tons of wheat)
Unloader swing	mechanical

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