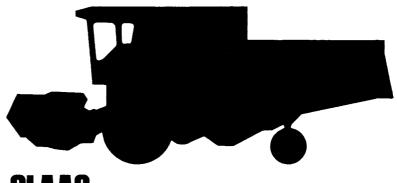


CLHH5



CLAAS-Dominator 106-56

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1 Specifications

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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.

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

Cutting widths 3.90 m + 4.50 m + 5.10 m + 5.70 m + 6.60 m + 7.50 m

(13 ft) (15 ft) (17 ft) (19 ft) (22 ft) (25 ft)

Height adjustment hydraulic

Cutting height range from 360 mm (14 1/4 in) below ground level

to 1300 mm (51 1/4 in) above ground level.

Clearance height under with floatation springs in use 950 mm (37 1/2 in)

cutterbar skid with floatation springs blocked 1100 mm (43 1/2 in)

Reel drive belt-operated variable speed drive

Reel height adjustment hydraulic

Feeder house chain-type feed rake

Cutterbar clutch hydraulic

Threshing Equipment

Stone trap standard equipment

Concave adjustable from operator's platform

rear of concave separately adjustable (2nd lever)

width 1580 mm (62 1/4 in), 12 bars

Disawning plates underneath the concave, two and three

disawning plates can be engaged separately

Threshing drum width 1580 mm (62 1/4 in)

diameter 450 mm (17 3/4 in) six rasp bars, seven drum discs

speed infinitely variable from 650 to 1500 1/min (rpm)

Optional:

a) step pulley drive - 750, 1000, 1200, 1500 1/min (rpm)

b) slow-speed threshing drum drive kit (chain drive)

from 290 to 680 1/min (rpm)

Threshing mechanism clutch hydraulic

DO 106 56

SPECIFICATIONS DOMINATOR 106

Straw Walkers

Type step type walkers and intensive separation system

(crankshaft with tines)

No. of walker racks six
No. of walker crankshafts two

Speed of walker crankshafts 220_5 1/min (rpm)

No. of tine crankshafts two
No. of tines per crankshaft six

Walker area $7.00 \text{ m}^2 \text{ (10 850 sq in)}$ Separating area $7.95 \text{ m}^2 \text{ (12 322 sq in)}$

Cleaning

Type forced air cleaning fan

Wind volume control by infinitely variable fan speed

additional fan shutters (optional)

Total cleaning area 5.10 m² (7 905 sq in)

Grain tank

Capacity 6500 litres (178.75 U.K. bushels, 184.6 U.S. bushels)

Unloading tube hydraulically operated position control

Engines Mercedes OM 401.901
Cubic capacity 10455 cm³ (638 in³)

 Max. speed 1/min (rpm)
 2390

 Idle speed 1/min (rpm)
 1150

 kW (DIN H.P.)
 151 (205)

 Cooling
 water

Fuel tank capacity 300 litres (66 Imp. gal, 79 U.S. gal)

Battery 12 Volt, 143 Ah

Ground drive

hydrostatic, controlled by lever on operator's platform

Transmission

three gear ranges in either forward or reverse

1. and 2. gear range for field operations

3. gear range for road travel

Ground speeds in kilometers per hour

on 23.1-26 R1 / 18.4-34 R1 tyres

Forward travel

Reverse travel

1. from 0 to 6.1 km/h (from 0 to 7.7 km/h)
2. from 0 to 8.9 km/h (from 0 to 11.1 km/h)
3. from 0 to 20.0 km/h (from 0 to 25.5 km/h)

3. 11

3. from 0 to 20.0 km/h (from 0 to 25.5 km/h)
1. from 0 to 4.6 km/h (from 0 to 5.8 km/h)
2. from 0 to 6.6 km/h (from 0 to 8.8 km/h)

3. from 0 to 15.3 km/h (from 0 to 19.0 km/h)

Ground speeds in miles per hour

on 23.1-26 R1 / 18.4-34 R1 tyres

Forward travel

1. from 0 to 3.8 mph (from 0 to 4.8 mph) 2. from 0 to 5.5 mph (from 0 to 6.9 mph) 3. from 0 to 12.4 mph (from 0 to 15.8 mph)

Reverse travel

1. from 0 to 2.9 mph (from 0 to 3.6 mph) 2. from 0 to 4.1 mph (from 0 to 5.5 mph) 3. from 0 to 9.5 mph (from 0 to 11.8 mph)

Figures in brackets are only applicable for certain countries.

In countries with a speed limit of 20 km/h (12.4 mph) for self-propelled machinery of husbandry, the hydrostatic drive system incorporates a device that limits the ground speed

accordingly.

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 brakes

Tyres and Tyre Pressures

	maximum	minimum tyre pressure							
tyre size	tyre	maize picker head		grain cu			tterbar		
	pressure	six-row	five-row	7.50 m	6.60 m	5.70 m	5.10 m	4.50 m	3.90 m
			four-row	(25 ft)	(22 ft)	(19 ft)	(17 ft)	(15 ft)	(13 ft)
	bar (psi)	bar (psi)	bar (psi)		bar (psi)		bar (ı	osi)	bar (psi
18.4-34 14 PR	3.3 (48)	_	3.2 (46)		3.2 (46)		3.0 (43)	2.8 (41
23.1-26 14 PR	2.5 (36)	2.5 (36)	2.3 (33)	1 :	2.3 (33)		2.1 (30)	1.9 (27)
28.1-26 12 PR	1.8 (26)	1.8 (26)	1.7 (25)		1.7 (25)		1.6 (23)	1.5 (22)
30.5-32 12 PR	1.5 (22)	1.2 (17)	1.1 (16)		1.1 (16)		1.1 (16)	1.1 (16
14.5/75-20 8 PR		3.0 (43)	3.0 (43)	;	3.0 (43)		3.0 (43)	3.0 (43

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 Settings of Wheel Bolts and Wheel Nuts

Front wheels wheel nuts with thrust piece H 22

DIN 74361-10 = 860 Nm (622 ft lb)

Rear wheels

wheel bolts M $18 \times 1.5 = 325 \text{ Nm}$ (235 ft lb)

Weights

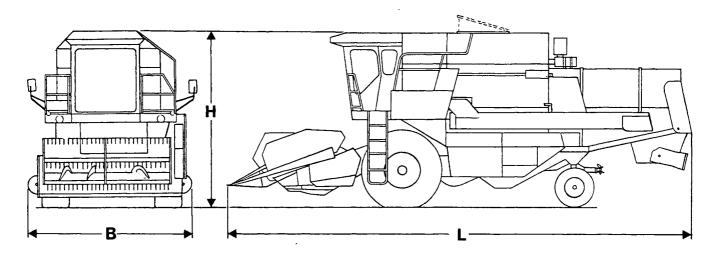
Combine equipped with 18.4-34 R1 and 14.5/75-20 tyres, empty fuel tank and six cylinder engine:

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.

Turning Diameter, conforming to DIN 70020 Specifications

Basic machine (without cutterbar) 9060 kg (19974 I							
With cutterbar and spring tine 3.90 m (13 ft) 4.50 m (15 ft) 5.10 m (17 ft) 5.70 m (19 ft)	add	960 kg (2116 lb) 1040 kg (2292 lb) 1120 kg (2469 lb) 1200 kg (2446 lb)					
With bat-type reel 6.60 m (22 ft) 7.50 m (25 ft) Two cpl. divider assemblies With straw chopper With four-row maize picker he With five-row maize picker he With six-row maize picker he With maize head stalk choppe With wheel weights (one set) With liquid ballast (magnesium With extra weights in compliant	add 1320 kg (2910 lb add 1440 kg (3175 lb add 50 kg (110 lb add 284 kg (626 lb add 1260 kg (2778 lb add 1510 kg (3329 lb add 1740 kg (3836 lb add 250 kg (551 lb add 104 kg (229 lb add 254 kg (560 lb add 300 kg (661 lb						
Combine Dimensions							
Wheel Thread	front	on 18.4-34 tyres on 23.1-26 14 PR tyres and DW 20-26 wheels on 28.1-26 tyres adjustable axle	2550 2780	0 mm (98 3/4 in) 0 mm (100 1/2 in) 0 mm (109 1/2 in) 0 mm (90 1/2 in)			
Width over Tyres		on 23.1-26 14 PR tyres and DW 20-26 wheels 3		0 mm (117 1/4 in) 0 mm (123 1/2 in) 0 mm (137 3/4 in)			
Wheel Base			3650	0 mm (143 3/4 in)			
Ground Clearance			420	0 mm (16 1/2 in)			

16800 mm (661 1/2 in)



Operating Position

WIDTH B	Cutting width	3.90 m (13 ft)		5.10 m (17 ft)			7.50 m (25 ft)
	Overall width						9225 mm (363 1/4 in)
		Overall w	idths are w	ith deflect	tors set ou	t on each s	ide bv

600 mm (23 3/4 in).
With four-row (3 m) maize picker head 3260 mm (128 1/4

With four-row (3 m) maize picker head	3260 mm (128 1/4 in)
With five-row maize picker head	4060 mm (159 3/4 in)
With six-row maize picker head	5200 mm (204 3/4 in)

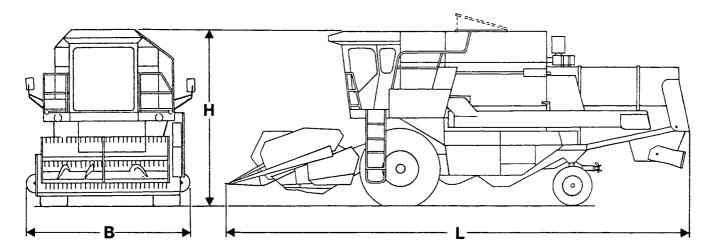
HEIGHT H	To top of grain tank	3760 mm (148 in)
	When grain tank lid is open	add 415 mm (16 3/8 in)
	To top of cab	3720 mm (146 1/2 in)
	To bottom edge of grain tank	
	unloading tube	4020 mm (158 1/4 in)

unloading tube 4020 mm (158 1/4 i On 23.1-26 or 28.1-26 tyres the height dimensions are being

reduced by approx. 40 mm (1 1/2 in).

LENGTH L	Without dividers	9190 mm (361 3/4 in)
	With hoop dividers	9550 mm (376 in)
	With long dividers	10540 mm (415 in)
	With short dividers	10290 mm (405 in)
	Witz maize picker head	10220 mm (402 1/4°in)
	With straw hood back panel	
	adjusted to rearward position	add 300 mm (11 3/4 in)

adjusted to rearward position add 300 mm (11 3/4 in) With straw spreader add 500 mm (19 3/4 in)



Transport Position

WIDTH B	Cutting width	3.90 m (13 ft)	4.50 m (15 ft)	5.10 m (17 ft)		6.60 m (22 ft)	7.50 m (25 ft)
	Overall width		4975 mm (195 3/4)				8025 mm (315 in)
		With four With five-	erbar detad r-row (3 m) row maize row maize) maize pio picker he	ad		1 1
HEIGHT H		To top of To top of	grain tank cab	3760 mm (148 in) 3720 mm (146 1/2 in)			
			26 or 28.1- by approx.	•	-	limensions	are being
LENGTH L		Without o	erbar detad dividers p dividers	ched		7770 mm 9290 mm 9650 mm	(365 3/4 in)
		With long With shor		ead		10640 mm 10390 mm 10320 mm	(419 in) (409 in)

SETTINGS AND CAPACITIES

Hydraulic Oil Pressures

Lift hydraulic system

pressure relief valve

Hydrostatic steering system

pressure relief valve

Hydrostatic ground drive:

(LINDE hydrostatic pump BPV 100 S)

Charge pressure 16 bar (232 psi) 420 bar (6091 psi) Operating pressure

(SAUER hydrostatic pump SPV 23)

Charge pressure 14 bar (203 psi) Operating pressure 420 bar (6091 psi)

Oil Capacities

Transmission gearbox 5 litres (4.4 lmp. qt; 5.28 U.S. qt) SAE 90

> (MIL-L-2105 B) API-GL-5-90 Hypoid Transmission Oil

180 bar (2610 psi)

90⁺⁵ bar (1305^{+72.5} psi)

Final drive gearboxes 4 litres each (3.5 Imp. qt; 4.2 U.S. qt) SAE 90

> (MIL-L-2105 B) API-GL-5-90 Hypoid Transmission Oil

Lift hydraulic system approx. 7 litres (6.2 Imp.qt; 7.4 U.S. qt)

Hydraulic Oil, H-LP Oils conforming to (DIN 51524) ISO-VG 68 Specifications

LINDE hydrostatic approx. 8 litres (7 Imp. qt; 8.5 U.S. qt) Hydraulic Oil, H-LP Oils conforming to ground drive system

(DIN 51524) ISO-VG 68 Specifications

SAUER hydrostatic ground approx. 27 litres (23.76 lmp. qt; 28.5 U.S. qt)

drive system Hydraulic Oil, H-LP Oils conforming to

(DIN 51524) ISO-VG 68 Specifications

consult engine instruction book and combine **Engines**

operator's manual

Slip clutches

200 Nm (145 ft lb) Reel 200 Nm (145 ft lb) Main table auger

220 Nm (159 ft lb) Upper feed rake shaft

Returns elevator adjust ratchet clutch so that no play exists DO 106 56

SPECIFICATIONS DOMINATOR 106

Shear Bolt

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

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 (19/32 in) clearance between auger flights

and bottom of cutterbar

Concave

Control (initial) setting concave entrance: 13 mm (1/2 in)

clearance measured at third concave bar

concave exit: 3 mm (1/8 in)

clearance measured at third last concave

bar

concave main

locked in 3rd hole of quadrant

adjusting lever:

concave rear locked in 1st hole of quadrant

adjusting lever: (e = narrow)

Brakes Foot brake brake must grip when the pedal is depressed through one

third of its total travel

Hand brake brake should be effective with the handle locked in the first

three to four teeth in the segment

Steering with the steering cylinder piston rod fully extended, the

adjustable stop bolts must be contacting the steering arms

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Cutterbar

cutterbar skid

Cutting widths 3.60 m 3.90 m 4.50 m 5.10 m 5.70 m (12 ft) (13 ft) (15 ft) (17 ft) (19 ft)

Height adjustment hydraulic

Cutting height range from 360 mm (14 1/4 in) below ground level

to 1300 mm (51 1/4 in) above ground level

Clearance height under with floatation springs in use 925 mm (36 1/2 in)

with floatation springs blocked 1075 mm (42 1/4 in)

Reel drive belt-operated variable speed drive

Reel height adjustment hydraulic

Feeder house chain-type feed rake

Cutterbar clutch belt-operated

Threshing Equipment

Stone trap standard equipment

Concave adjustable from operator's platform

rear of concave separately adjustable (2nd lever)

width 1320 mm (52 in), 12 bar

Disawning plates underneath the concave, two and

three disawning plates can be engaged separately

Threshing drum width 1320 mm (52 in)

diameter 450 mm (17 3/4 in) six rasp bars, six drum discs

speed infinitely variable from 650 to 1500 1/min (rpm)

Optional:

a) step pulley drive 800, 1000, 1200, 1500 1/min (rpm)

a1) additional speed 650 1/min (rpm)

b) slow speed threshing drum drive kit, 3-speed chain

drive: 300, 430 and 550 1/min (rpm)

Threshing mechanism clutch belt-operated

DO 106 56

SPECIFICATIONS DOMINATOR 96

Straw Walkers

Type step type walkers and intensive separation system

(crankshaft with tines)

No. of walker racks five
No. of walker crankshafts two

Speed of walker crankshafts 220_5 1/min (rpm)

No. of tine crankshafts two
No. of tines per crankshaft five

Walker area $5.80 \text{ m}^2 \text{ (8990 sq in)}$ Separating area $6.60 \text{ m}^2 \text{ (10230 sq in)}$

Cleaning

Type forced air cleaning fan

Wind volume control by infinitely variable fan speed

additional fan shutters (optional)

Total cleaning area 4.25 m² (6588 sq in)

Grain tank

Capacity 5200 litres (143 lmp. bushels, 147.7 U.S. bushels)

Unloading tube hydraulically operated position control

Engine Mercedes OM 352 A

Cubic capacity 5675 cm³ (346 in³)

 Max. speed 1/min (rpm)
 2600

 Idle speed 1/min (rpm)
 1150

 kW (DIN H.P.)
 110 (150)

 Cooling
 water

Fuel tank capacity 300 litres (66 Imp. gal, 79 U.S. gal)

Battery 12 Volt, 110 Ah

Ground Drive

a) Mechanical variable ground speed, hydraulically controlled

Clutch dry single disc clutch

Transmission three forward, one reverse gear

Speed range on 23.1-26 R 1 tyres

1. Gear 1.6 to 4.0 km/h (0.9 to 2.5 mph) 2. Gear 3.5 to 8.6 km/h (2.4 to 5.3 mph) 3. Gear 8.0 to 19.7 km/h (5.0 to 12.2 mph) R.-Gear 2.8 to 6.9 km/h (1.7 to 4.3 mph)



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