

Product: New Holland VL5090/VL6040/VM3090/VL6050/VM4090/VN2090/VL6060/VL6070/VL6080/VL6090 Grape harvesti

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REPAIR MANUAL

NEW HOLLAND

VL5090

VL6040 VM3090

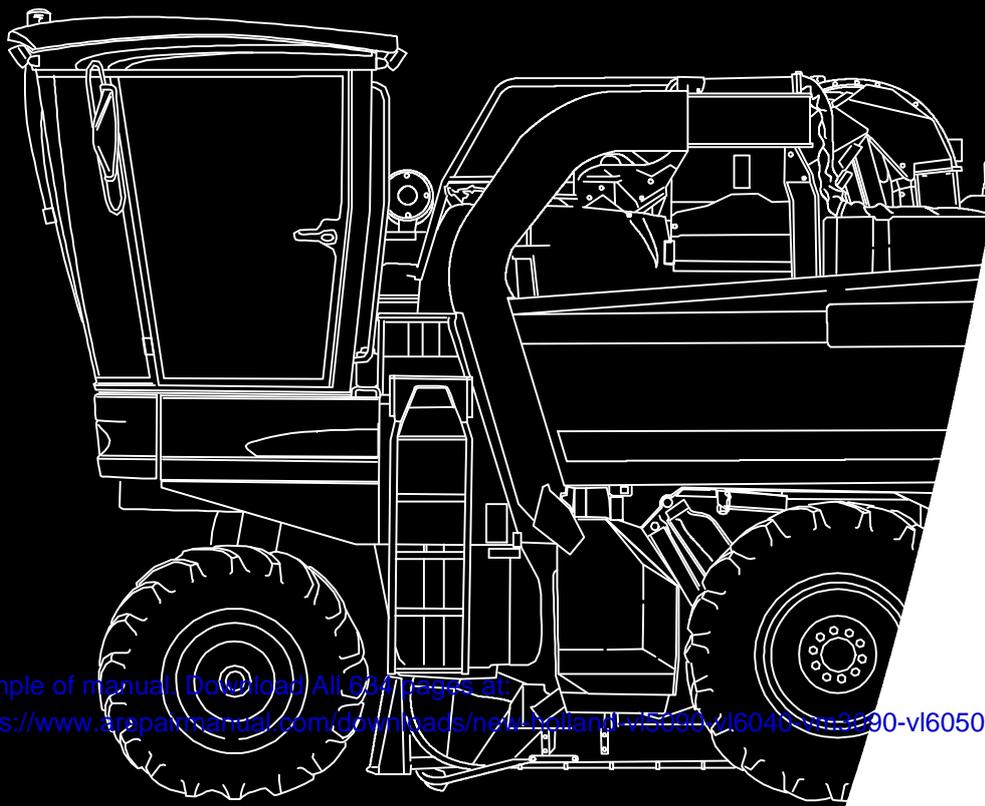
VL6050 VM4090 VN2090

VL6060

VL6070

VL6080

VL6090



NEWHOLLAND

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Machine name change Correspondence

Previous name	New name
VL660 Up to series 024	VL6090 Starting from series 025
VL640 Up to series 022	VL6080 Starting from series 023
VL630 Up to series 022	VL6070 Starting from series 023
VL620 Up to series 021	VL6060 Starting from series 022
VL610 Up to series 021	VL6050 Starting from series 022
VL600 Up to series 004	VL6040 Starting from series 005
VL570 Up to series 008	VL5090 Starting from series 009
VM460 Up to series 008	VL4090 Starting from series 009
VM370 Up to series 008	VL3090 Starting from series 009
VN300 Up to series 003	VL2090 Starting from series 004

REPAIR MANUAL

CONTENTS

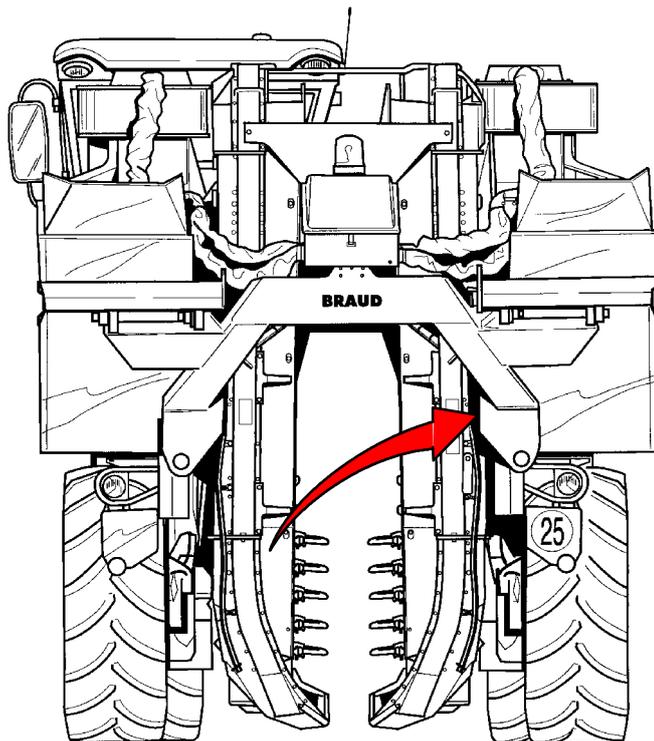
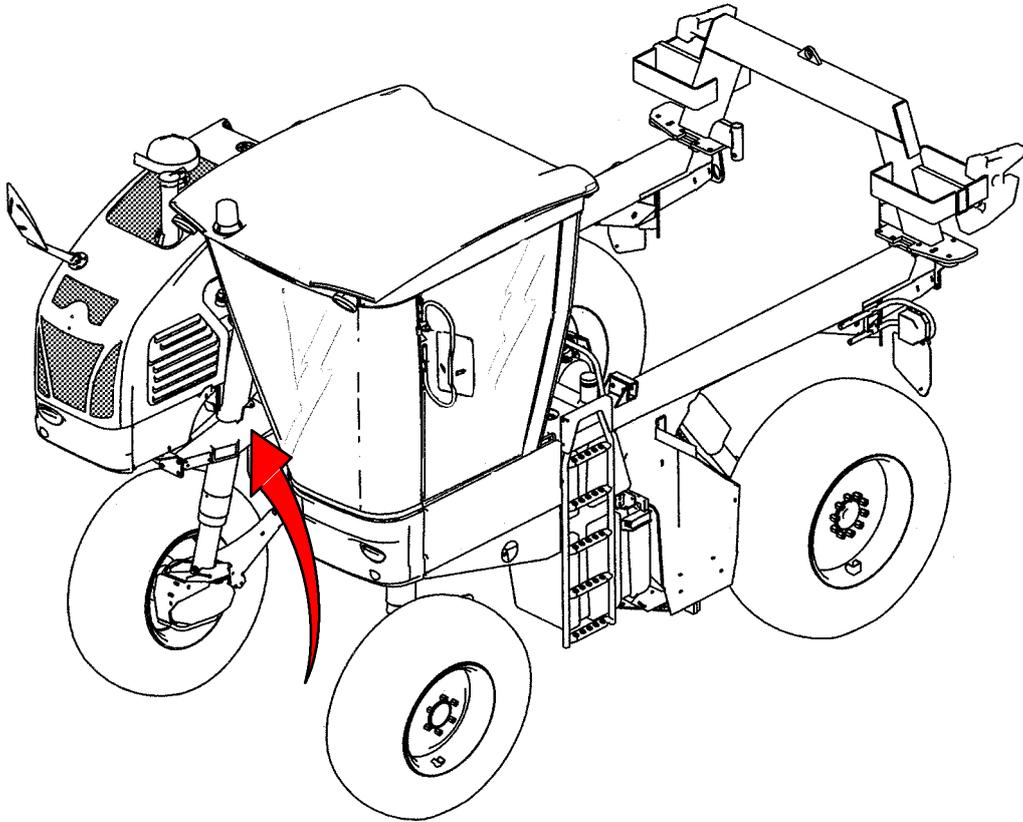
Section	Description
	Specifications
00	Maintenance
05	Machine arrangement
10	Engine
29	Hydrostatic transmission
33	Brakes
35	Hydraulic system
39	Frame
41	Steering
44	Wheels
50	Cab
55	Electrical system
58	Harvesting equipment
60	Product feeding
74	Cleaning
80	Hoppers
88	Accessories

SPECIFICATIONS

Chapter 1

CONTENTS

Section	Description	Page
	Machine identification data	3
	Main specifications, from VL6040 to 6090, VM4090	5
	Main specifications, from VL5090 to VM3090	7
	Main specifications, VN2090	9
	Harvesting equipment main specifications, from VL6040 to 6090, VM4090	10
	Harvesting equipment main specifications, VL6040, VL6050 and VL6090	13
	Harvesting equipment main specifications, VL5090, VM3090, VN2090	17



MACHINE IDENTIFICATION DATA

Model	Type	Serial no.	Machine number
VL6090	664	025	001
VL6080	660	023	001
VL6070	660	023	001
VL6090	656	022	001
VL6050	656	022	001
VL6040	650	004	001
VM4090	636	009	001
VM3090	635	009	001
VL5090	655	009	001
VN2090	643	004	001

Note: the harvesting equipment number is the same as the self-propelled machine one.

A = manufacturer's label

B = stamped frame number

OPERATOR'S MANUAL

From VL6050 to 6090 and VM4090: 87613024 (EN)

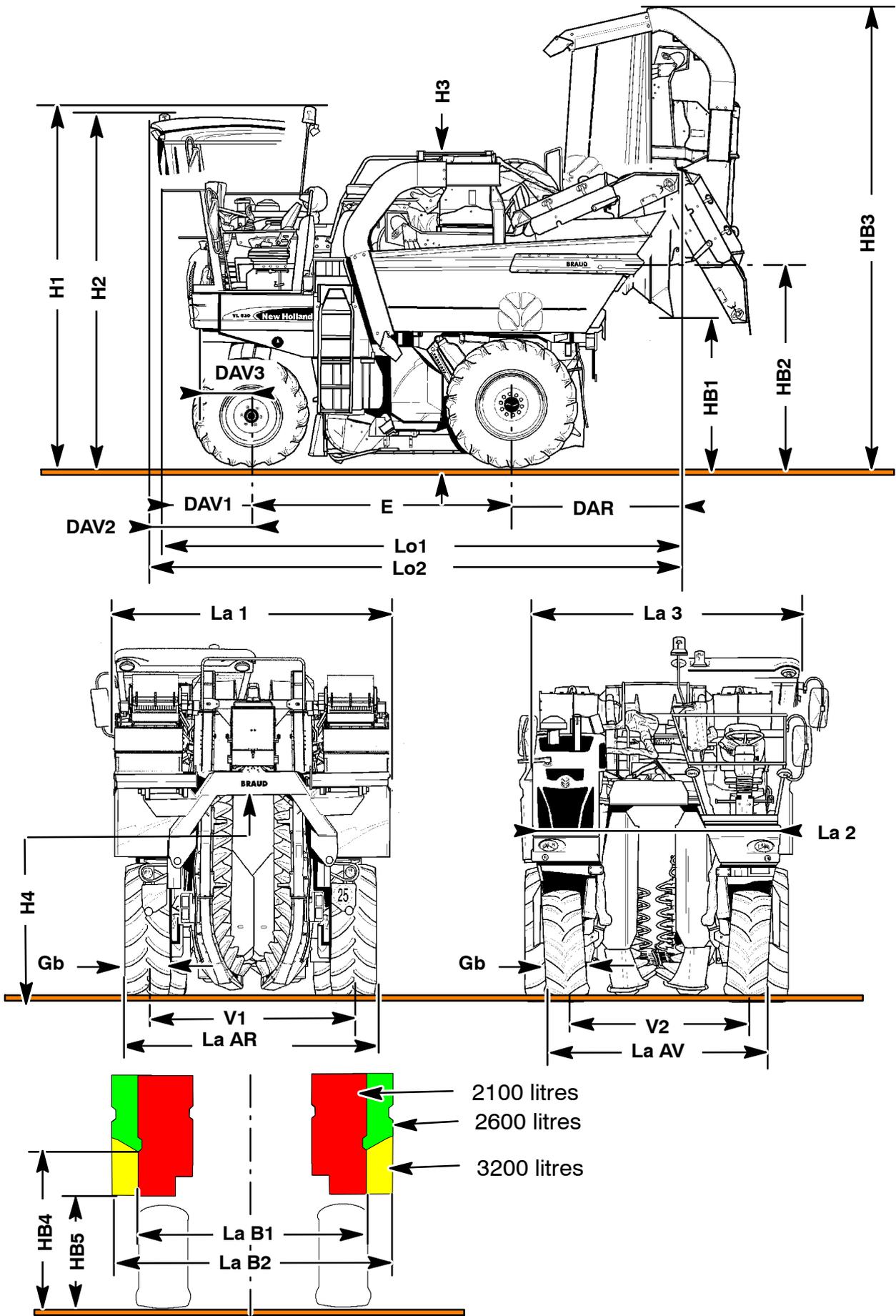
From VL5090 and VM3090: 87613006 (EN)

VL6040: 87613016 (EN)

VN2090:

SPARE PART CATALOGUE

Reference:



COMMERCIAL DESCRIPTION		From VL6040 to 6090	VM4090
Code	DIMENSIONS (mm)		
H1	Height: without cab		
H2	(harvesting equipment on the ground) with/cab at the revolving beacon		3635
H3	Harvesting equipment height at the railings without (with) destemmers		3380 (3520)
H4	Clearance under the harvesting equipment		from 2000 to 2600
HB1	Clearance under tilted up hoppers		1710
HB2	Tilting axle height		2100
HB3	Max. height with lifted hoppers		5150
HB4	Clearance under the frame hoppers, 2600 litres		1840
HB5	Clearance under the frame hoppers, 3200 litres		1415
E	Pitch		2850
La1	Max. width at the hoppers	hoppers, 2100 litres 2100 litres + cab 2600 litres or 3200 litres	2800 (1) 3000 3000
La2	Max. width from cover to cover	Only self-propelled machine	2590 2390
La3	Max. width from cab top to right cover	Only self-propelled machine	2830 2630
LaB1	Hopper width	2100 litres	2530 2330
LaB2		2600 litres 3200 litres	3000 2800
La AR	Outer width at the rear wheels: (V1 + Gb = La AR)	Tyres 420/85 R28 Tyres 480 / 70 R 28 Tyres 540/65 R28 Tyres 600/55-30.5	(*)(3) 2160 + 454 = 2614 2260 + 480 = 2740 2340 + 540 = 2880 2360 + 600 = 2960 (4) 1790 + 454 = 2244 1860 + 480 = 2340
La AV	Outer width at the front wheel level on ground: (V2 + Gb = La AV) (V2 at ground level)	Tyres 420 / 70 R24 Tyres 13.6 R24	1930 + 420 = 2350 1730 + 420 = 2150 1930 + 350 = 2280 1730 + 350 = 2150
Lo1	Max. length without (with) destemmers	without cab with/cab	5360 (5510) 5490 (5650)
DAV1	Front offset	without cab	930
DAV2		with/cab	1070
DAV3	Offset of front supports for multipurpose		277
DAR	Rear offset without (with) destemmers		1570 (1730)

Note: in road position, the noria is at 190 mm from the ground

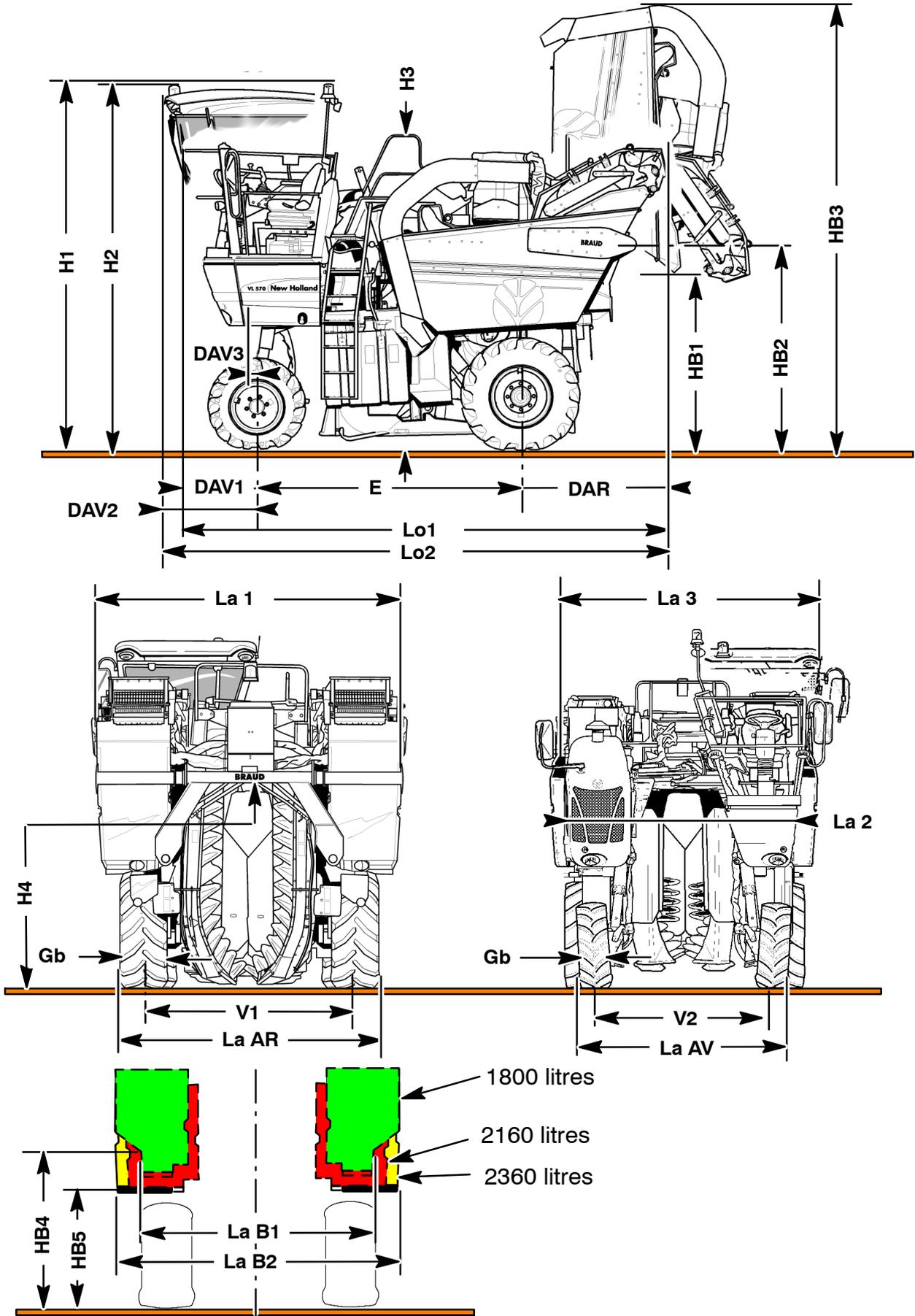
(1) Tyres 420/85 R28

(*) large track = narrow track + 160 mm

(2) Tyres 480/70 R28

(3) Bearings on large track

(4) Bearings on narrow track



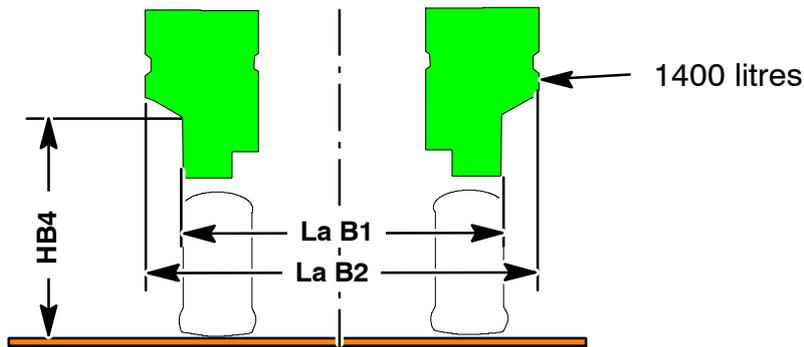
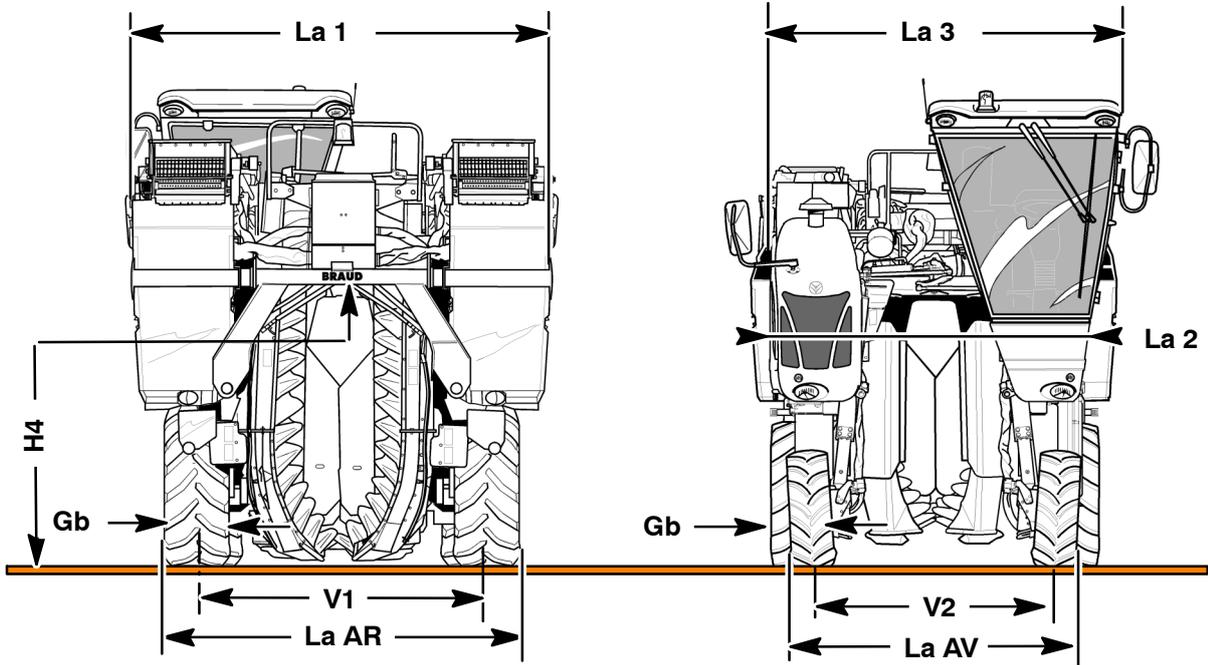
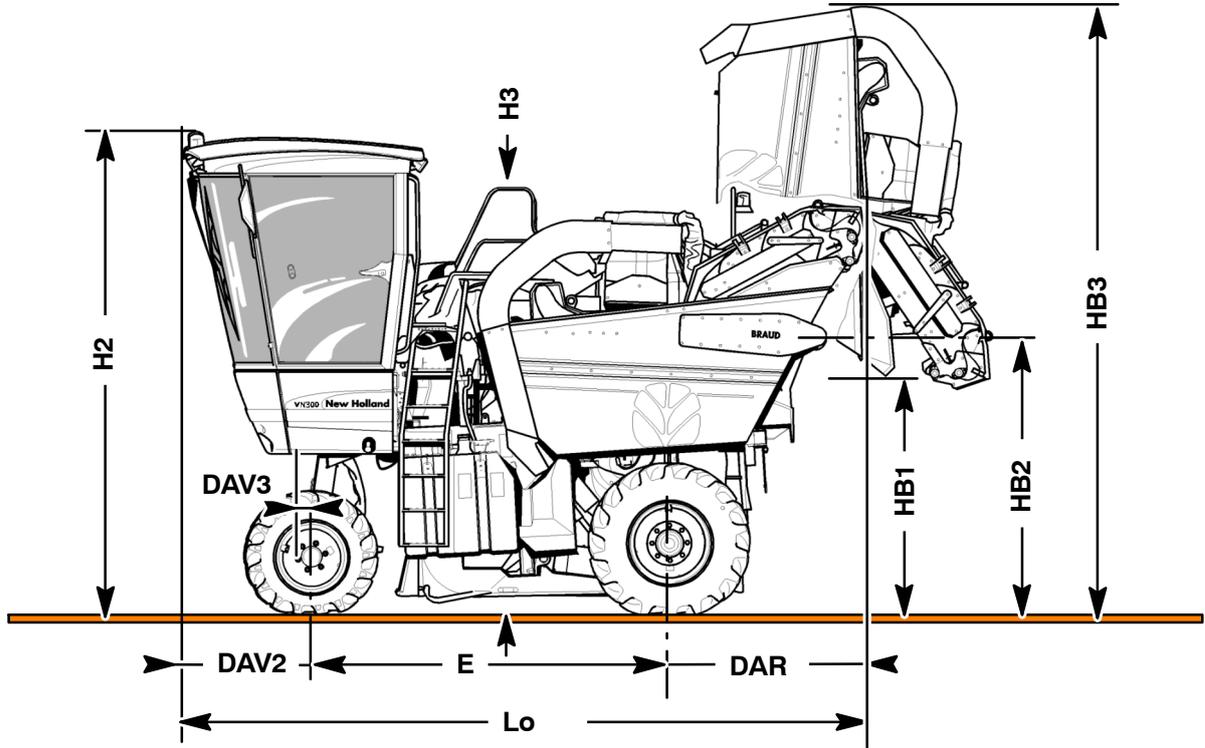
COMMERCIAL DESCRIPTION			VL5090	VM3090
Code	DIMENSIONS (mm)			
H1	Height:	without cab (at the revolving beacon)	3160 (3745)	3040 (3615)
H2	(harvesting equipment on the ground)	with cab at the revolving beacon	3605	3475
H3	Harvesting equipment height at the railings		3285	3185
H4	Clearance under the harvesting equipment		from 1950 to 2450	from 1800 to 2300
HB1	Clearance under tilted up hoppers		1830	1700
HB2	Tilting axle height		2110	1980
HB3	Max. height with lifted hoppers		4620	4490
HB4	Clearance under the frame hoppers, 1800 litres		1700	1550
HB5	Clearance under the frame hoppers, 2160 litres		----	1150
	hoppers, 2360 litres		1150	----
E	Pitch		2760	
La1	Max. width at the hoppers	hoppers, 2360 litres	3000	2800
		2360 litres + cab	3000	2800
La2	Max. width from cover to cover	Only self-propelled machine	2540	2340
La3	Max. width from cab top to right cover	Only self-propelled machine	2750	2540
LaB1	Hopper width	1800 litres	2480	2290
LaB2		2160 litres	----	2800
		2360 litres	3000	----
La AR	Outer width at the rear wheels: (V1 + Gb = La AR)	Tyres 11.2 R 24 (1)	----	1680 + 291 = 1971
		Tyres 11.2-24 T35	----	1680 + 305 = 1985
		Tyres 340/85 R24	----	1780 + 366 = 2146
		Tyres 420 / 70 R24	2090 + 431 = 2521	----
		Tyres 460/70 R24	2120 + 462 = 2582	----
	Tyres 480/65 R24 (2)	2120 + 484 = 2604	----	
La AV	Outer width at the front wheel level on ground: (V2 + Gb = La AV) (V2 at ground level)	Tyres 280/70 R20		1720 + 275 = 1995
		Tyres 320/70 R20	1920 + 315 = 2235	1720 + 315 = 2035
Lo1	Max. length without (with) destemmers	without cab	4900 (5090)	
Lo2		with cab	4990 (5180)	
DAV1	Front offset	without cab	880	
DAV2		with cab	970	
DAV3	Offset of front supports for multipurpose		40	
DAR	Rear offset without (with) destemmers		1260 (1450)	

NOTE:

in road position, the noria is at 200 mm from the ground

(1) not produced anymore

(2) an additional equipment with destemmers on a VL5090 machine equipped with 480 / 65 R 24 tyres is not allowed.



COMMERCIAL DESCRIPTION		VN2090	
Code	DIMENSIONS (mm)		
H1	Height:	without cab	
H2	(harvesting equipment on the ground)	with cab at the revolving beacon	3475
H3	Harvesting equipment height	to the railings	3025
H4	Clearance under the harvesting equipment		from 1500 to 2000
HB1	Clearance under tilted up hoppers (under the destemmers)		1735 (1570)
HB2	Tilting axle height		1965
HB3	Max. height with lifted hoppers		4490
HB4	Clearance under the frame hoppers, 1400 litres		1340
E	Pitch		2740
La1	Max. width at the hoppers		2400
La2	Max. width from cover to cover	Only self-propelled machine	2090
La3	Max. width from cab top to right cover	Only self-propelled machine	2300
LaB1	Hopper width		2017
LaB2			2400
La AR	Outer width at the rear wheels: (V1 + Gb = La AR)	Tyres 340/85 R24	1540 + 365 = 1905
La AV	Outer width at the front wheel level on ground: (V2 + Gb = La AV) (V2 at ground level)	Tyres 320/70 R20	1480 + 315 = 1795
Lo	Max. length	without (with) destemmers with cab	4930 (5210)
DAV1	Front offset	without cab	
DAV2		with cab	980
DAV3	Offset of front supports for multipurpose		40
DAR	Rear offset without (with) destemmers		1210 (1490)

NOTE: in road position, the noria is at 200 mm from the ground

COMMERCIAL DESCRIPTION		From VL6040 to 6090	VM4090
WEIGHTS			
PTAC - Total allowed weight under load (kg) (1) (2)		from 9200 to 10500	from 9200 to 9600
Allowed partition (2)	Front axle (kg)	from 3980 to 4200	from 3980 to 4200
	Rear axle (kg)	from 5380 to 7300	from 5380 to 5540
Empty weight (kg) with harvesting equipment VL6040 (from VL6050 to 6090)		8200 (8660)	8660
- with hoppers (litres), standard wheels and cab, but without destemmers and without lower extractors.		2600	2200
- with destemmers, add ... (kg)		460	460
(1) up to 10000 kg for VL6040 and up to 10500 kg for VL from 6050 to 6090			
(2) depending on the tyres and on the load index			
FEEDING / EXHAUST			
Fuel tank	Used fuel	Diesel fuel	
	Capacity (litres)	250	
Engine (cylinders)		6	4
- ISO power (kW/CV)		VL6050 and 6060 = 107/145	94/128
- Displacement = 1125 cm ³ /cylinder		VL6070 and 6080 = 120/160	
		VL6090 = 129/175	
Empty operating speed +/- 50 (rpm)		2500	2500
Air filter	Make	DONALDSON	
	Type	ELB 12-0265	
Engine cooling	Water capacity (litres)		
	Fan	Sucking	
Cooling fan Ø (mm)		610	584
DRIVE			
Pump for engine fan	Make	SAUER	
	Displacement (cm ³ /rev.)	17	
	Empty operating speed (rpm)	(1.02 x engine speed)	
	Capacity (l/minute), output 0.9	38	
Fan motor	Make	SAUER	
	Displacement (cm ³ /rev.)	12.2	
Variable displacement inch- ing hydraulic pump	Make	REXROTH	
	Type	A4VG	
	Total displacement (cm ³ /rev.)	from 0 to 105	

COMMERCIAL DESCRIPTION		From VL6040 to 6090	VM4090
DRIVE (follows)			
Priming pump	Displacement (cm ³ /rev.)	26	
	Capacity (l/minute), output 0.9	58.5	
Front wheel motor	Make	POCLAIN	
	Type	MS 08	
	Displacement (cm ³ /rev.)	1043	
Rear wheel motor	Make	POCLAIN	
	Type	MSE 18	
	Displacement (cm ³ /rev.)	2636 (1406/1230)	
Max. speed (km/h) in road position		25 km/h	
Max. speed in field position		12	
Hydraulic oil			
Capacity (litres)	Reservoir	65	
Oil type	New Holland	Hydrosystem 68 Hydrosystem 68 BIO S	
Conveyor and extractor pump	Make	REXROTH	
	Displacement (cm ³ /rev.)	"Load sensing" from 0 to 45	
	Empty operating speed (rpm)	2500 (see engine speed)	
	Capacity (l/minute), output 0.9	101.2	
Shaking pump	Make	SAUER	
	Displacement (cm ³ /rev.)	22	
	Empty operating speed (rpm)	2500 (see engine speed)	
	Capacity (l/minute), output 0.9	49.5	
Pump for steering/lifting/hoppers	Make	SAUER	
	Displacement (cm ³ /rev.)	14	
	Empty operating speed (rpm)	(1.02 x engine speed)	
	Capacity (l/minute), output 0.9	32	
STEERING		Hydrostatic	
Type	EATON QAMP 146 cm ³ /rev.		
BRAKING SYSTEM			
Service brake		Supplied by the hydrostatic transmission	
Parking brake (acting on both rear wheels)		Operated by ONE pedal and by the steering	
Park brake		Operated by left manual lever	

COMMERCIAL DESCRIPTION		From VL6040 to 6090	VM4090
TILTING CORRECTION		30%	
PLATFORM CAB			
Heated and A/C cab		Depending on the model	
Activated charcoal filter		Optional	
Board computer		●	
Grand-Luxe seat			
Pneumatic seat		●	
Multifunctional handle		●	
LIGHTING AND WARNING LIGHTS			
High/low beams		2	
Front parking lights		2	
Rear parking lights		2	
Direction indicator warning lights	Front	2	
	Rear	2	
	Side	2	
Stop lights		2	
License plate light		1	
Reflector	Rear	2	
Revolving beacon		2	
Supply voltage	(V)	12	
Alternator	(A)	120	
Battery	(Ah)	180	
Starting presetting	(A)	1000	

COMMERCIAL DESCRIPTION		VL6040	From VL6050 to 6090	VM4090
HARVESTING EQUIPMENT				
HARVESTING HEADER				
Harvesting header hour counter		No	Yes	
Type		Swinging, self-aligning		
System		SDC shaking		
Number of shakers		14		
Straight/elbow connecting rod		13/1		
Shaking start	Motor manufacturer	EATON	SAUER	
	Displacement (cm ³ /rev.)	46	22	
	Control unit:		1/4	
	- ratio		AMBRA GR75MD 1.2 kg	
	- grease			
	Chain:	•		
Toe-in adjustable from the operator's seat		No	yes	
Amplitude settings		4 or 3		
Min. clearance under the frame (mm)		2000		
Grape harvesting useful height (mm)		1650		
Harvesting tunnel width (mm)		500		
Noria system	Buckets per chain	63		61
	Type	XXL		small
	Synchronization	in field speed		
	Drive gears:	16/59		
Width of flexible stake-guides (mm)		from 195 to 265		from 165 to 235
Tightness length (mm)		2100		
Harvesting min. height (mm)		150		
Operation	Motor manufacturer	EATON		
	Displacement (cm ³ /rev.)	500		
Harvesting conveyors	Width (mm)	600		
	Max. operating speed rpm	about 750		
	Reverse	yes		
Single operation	Motor manufacturer	EATON		
	Displacement (cm ³ /rev.)	31.6		

COMMERCIAL DESCRIPTION		From VL6040 to 6090	VM4090
RECEIVING / TRANSPORTATION			
Noria system	Buckets per chain	63	61
	Type	XXL (from 6040 to 6090)	small
	Synchronized Drive gears	in field speed 16/59	in field speed 16/59
Width of flexible stake-guides (mm)		from 195 to 265	from 165 to 235
Tightness length (mm)		2100	
Harvesting min. height (mm)		150	
Operation	Motor manufacturer	EATON	
	Displacement (cm ³ /rev.)	500	
Harvesting conveyors	Width (mm)	600	
	Max. operating speed rpm	about 750	
	Reverse	yes	
Single operation	Motor manufacturer	EATON	
	Displacement (cm ³ /rev.)	31.6	
2 upper extractors with removable stalk choppers	Diameter (mm)	460	
	Operation	hydraulic	
	Motor manufacturer	SAUER	
	Displacement (cm ³ /rev.)	11	
2 lower extractors with	Diameter	430	
	Operation	Hydraulic	
	Motor manufacturer	SAUER	
	Displacement (cm ³ /rev.)	6	
2 independent stalk choppers, enabled by shaking	Operation	Hydraulic	
	Motor manufacturer	EATON	
	Displacement (cm ³ /rev.)	8.2	
	Rotation direction	reverse to the wheels	

COMMERCIAL DESCRIPTION		From VL6040 to 6090	VM4090
RECEIVING / TRANSPORTATION (follows)			
HOPPERS			
Capacity (litres)	2 x 1600		
	2 x 1300		2 x 1300
	2 x 1050		2 x 1050
Electrically-operated distribution auger		Control independent of the grape harvester	
Separating destemmers			
- Belt drive	Motor Displacement (cm ³ /rev.) Speed	EATON 59	
- Distributor drive	Motor Displacement (cm ³ /rev.) Speed	EATON H plus 36	

COMMERCIAL DESCRIPTION		VL5090	VM3090	VN2090
WEIGHTS				
PTAC - Total allowed weight under load (kg) (1)		from 8000 to 8300	7800	7900
Allowed partition	Front axle (kg) (1)	3440	from 3100 to 3400	3400
	Rear axle (kg) (1)	from 4700 to 5200	from 4600 to 4800	4600
Empty weight (kg) with harvesting equipment		7140	6820	6760
- with hoppers (litres), standard wheels and cab, but without destemmers and without lower extractors.		2400	2200	1500
- with destemmers, add (kg)		580	580	460
(1) depending on the tyres and on the load index				
FEEDING / EXHAUST				
Fuel tank	Capacity (litres)	160		
Engine (cylinders)		4		
- Power ISO (kW/CV)		94/128		
- Displacement (cm ³)		4485		
Empty operating speed +/- 50 (rpm)		2500		
Air filter	Make	DONALDSON		
	Type	FPG090225		
Engine cooling	Liquid capacity (litres)			
	Sucking fan	●		
Air/air intercooler		●		

COMMERCIAL DESCRIPTION		VL5090	VM3090	VN2090
DRIVE				
Variable displacement inching hydraulic pump	Make Displacement elimination Operation Total displacement (cm ³ /rev.)	REXROTH A4VG90 ● control 90		
Priming pump	Displacement (cm ³ /rev.) Capacity (l/minute), output 0.9	25 56.25		
Front wheel motor	Make Type Displacement (cm ³ /rev.)	POCLAIN MSE 05 688		
Rear wheel motor	Make Type Displacement (cm ³ /rev.)	POCLAIN MSE 11 843/843		
Double steering valve		●		
Front drive wheels in road position		●		
"Twin lock" antiskid		●		
Torque reduction on front wheels optional		●		
Capacity divider 50/50 right/left optional		NO	NO	●
Max. speed in road position, (km/h)		25	25	20
Max. speed in field position, (km/h)		11		
Hydraulic oil				
Capacity (litres)	Reservoir	65		
Oil type	New Holland	Hydrosystem 68 Hydrosystem 68 BIO S		
Hydraulic filtering (intake/return)		●		

COMMERCIAL DESCRIPTION		VL5090	VM3090	VN2090
DRIVE (follows)				
Conveyor and ex-tractor pump	Make	SAUER		
	Displacement (cm ³ /rev.)	44		
	Empty operating speed (rpm)	engine speed		
	Capacity (l/minute), output 0.9	99		
Double pump - for shaking	Make	SAUER		
	Displacement (cm ³ /rev.)	22		
	Empty operating speed (rpm)	(1.02 x engine speed)		
- for steering/ lifting/hoppers	Capacity (l/minute), output 0.9	50.49		
	Displacement (cm ³ /rev.)	11		
	Empty operating speed (rpm)	(1.02 x engine speed)		
- for steering/ lifting/hoppers	Capacity (l/minute), output 0.9	25.24		
	Displacement (cm ³ /rev.)	11		
	Empty operating speed (rpm)	(1.02 x engine speed)		
STEERING		Hydrostatic		
Type	Make	EATON		
	Displacement (cm ³ /rev.)	100		
BRAKING SYSTEM				
Service brake		Supplied by the hydrostatic transmission		
Parking brake (acting on the two rear wheels)		•		
Park brake		manual control, on the left		
Electrically-operated independent brakes		No		
TILTING CORRECTION				
Max. tilting (%)		25		
Max. tilting in road position (%)		8		
Max. tilting in work position (%) (with destemmers or special implements and front wheels with ballasts)		32		
FRAME				
Harvesting header quick uncoupling		•		
Link fitting possibility		•	No	
Front and rear tracks = see relevant SB		•	No	

COMMERCIAL DESCRIPTION		VL5090	VM3090	VN2090
HARVESTING EQUIPMENT				
HARVESTING HEADER				
Harvesting header hour counter		yes		
Type - swinging, self-aligning		●		
SDC shaking system		●		
Number of shakers		14	12	10
Straight/elbow flexible connecting rod		13/1	11/1	9/1
Shaking start	Motor:	SAUER		EATON
	Displacement (cm ³ /rev.)	22		46
	Reducer control unit:	1/4		
	- ratio	AMBRA GR75MD 1.2 kg		
	- grease			
	Chain:			●
Toe-in adjustable from the operator's seat		●	●	No
Amplitude settings		3	3	1
Removable shakers, optional		●	●	No
Clearance under the frame (min./max. mm)		1950/2450	1800/2300	1500/2000
Grape harvesting useful height (mm)		1200	1100	1050
Harvesting tunnel width (mm)		500		300
RECEIVING / TRANSPORTATION				
Noria system	Large buckets	55		
	Small buckets		53	54
	Fastening by rivets	2 x 2	1 x 3	1 x 3
	Drive gears	17/58	16/59	16/59
Stake-guides width (mm)		flexible 195/265	flexible 165/235	fixed 165
Tightness length (mm)		1750		1900
Harvesting min. height (mm)		150		
Operation	Motor	EATON		
	Displacement (cm ³ /rev.)	395		

COMMERCIAL DESCRIPTION		VL5090	VM3090	VN2090
RECEIVING / TRANSPORTATION (follows)				
Harvesting conveyors Single operation	Width (mm)	450		
	Speed (max. rpm)			
	Reverse	Yes	No	
	Motor	EATON		
	Displacement (cm ³ /rev.)	31.6		
CLEANING				
2 upper extractors with removable stalk choppers	Diameter (mm)	430		
	Motor	SAUER		
	Displacement (cm ³ /rev.) (*)	8/11/14	8/14	8/14
	Speed adjustment	electrically operated		
2 lower extractors (optional)	Diameter (mm)	430		
	Motor	SAUER		
	Displacement (cm ³ /rev.)	6		
	Speed adjustment:	electrically operated		
2 independent stalk choppers, enabled by noria in proportional	Motor	EATON		
	Displacement (cm ³ /rev.)	8.2		
HOPPERS				
Capacity (litres)		2 x 900	2 x 900	2 x 700
		2 x 1180	2 x 1080	
Distribution auger	Motor	EATON		
	Displacement (cm ³ /rev.)	31.6		
	Speed	adaptable		
Separating destemmers	- Belt drive	Motor	EATON	
		Displacement (cm ³ /rev.)	59	
		Speed		
	- Distributor drive	Motor	EATON H plus	
		Displacement (cm ³ /rev.)	36	
		Speed		

(*) (depending on the outfit) (see section 35).

SECTION 00 - MAINTENANCE

Chapter 1

CONTENTS

Section	Description	Page
	Lubricant and liquid capacities	2
	Thermal engine maintenance	3
	Harvesting equipment greasing point location	5
	Machine washing	9
	Hydrostatic and hydraulic system maintenance	13
	Routine maintenance and winter storage	15

LUBRICANT AND LIQUID CAPACITIES

Item to be supplied	Quantity	Recommended product	Corresponding international classification
Self-propelled machine grease fittings		Grease AMBRA GR 9	Lithium-calcium based grease, consistency NLGI 2
Harvesting machine grease fittings		Grease Food type	24 cartridges re. 62777339
Noria ECU	1 kg		
Shaking rear connecting rod articulations		Grease	Teflon silicone grease Sitef degree 3 410-g cartridge, re. 920019780
Shaking ECU	1.2 kg	AMBRA GR 75 MD NH 720 A	Re. 661874 molybdenum bisulfide grease, consistency NLGI 2
Engine sump and filter/s 6-cylinder engine 4-cylinder engine	16 l 9.5 l	Oil AMBRA MASTER GOLD HSP 15W - 40	SAE 15W40 NH 330H API CI - 4 CH4 ACEA E3/E5
Reservoir	65 l	Oil AMBRA HYDROSYSTEM 68	ISO 68 DIN 51524 - part 2
Cooling system	20 l	AMBRA AGRIFLU (50%) + clean water (50%)	

NOTE: the integrated joints of the rear shaking flexible connecting rods do not require greasing.