

# SERVICE MANUAL

**VL5060 / VL5080 / VL5090**  
**VL6040 / VL6050 / VL6060 / VL6070 / VL6080 / VL6090**  
**VM3080 / VM3090 / VM4090**  
**VN2090**  
Grape Harvesters

Print No. 84189523B



## Document content

This document contains:

- all documentation for machines VL 6040, 6050, 6060, 6070, 6080, 6090; VL 5090; VM 4090, 3090 and VN 2090
- **Starting only from series 013** for the models VL 5080 and 5060; VM 3080 (these machines are equipped with "ELTEC" panel)
- VM3080H: means high machine (Alsace)
- VL6050, 6070, 6080 high machines (Italy)
- **Only starting from series 664, 660, 656042; 636013; 650011; 655, 653, 633, 635018**, installation of the "ROPS" cab

## Machine name change Correspondence

| Previous name                  | New name                                |
|--------------------------------|-----------------------------------------|
| <b>VL 660</b> Up to series 024 | <b>VL 6090</b> Starting from series 025 |
| <b>VL 640</b> Up to series 022 | <b>VL 6080</b> Starting from series 023 |
| <b>VL 630</b> Up to series 022 | <b>VL 6070</b> Starting from series 023 |
| <b>VL 620</b> Up to series 021 | <b>VL 6060</b> Starting from series 022 |
| <b>VL 610</b> Up to series 021 | <b>VL 6050</b> Starting from series 022 |
| <b>VL 600</b> Up to series 004 | <b>VL 6040</b> Starting from series 005 |
| <b>VL 570</b> Up to series 008 | <b>VL 5090</b> Starting from series 009 |
| <b>VM 460</b> Up to series 008 | <b>VM 4090</b> Starting from series 009 |
| <b>VM 370</b> Up to series 008 | <b>VM 3090</b> Starting from series 009 |
| <b>VN 300</b> Up to series 003 | <b>VN 2090</b> Starting from series 004 |
|                                |                                         |
| <b>VL 550</b> Up to series 008 | <b>VL 5080</b> Starting from series 009 |
| <b>VL 540</b> Up to series 008 | <b>VL 5060</b> Starting from series 009 |
| <b>VL 530</b> Up to series 008 |                                         |
| <b>VM 340</b> Up to series 008 | <b>VM 3080</b> Starting from series 009 |

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# REPAIR MANUAL

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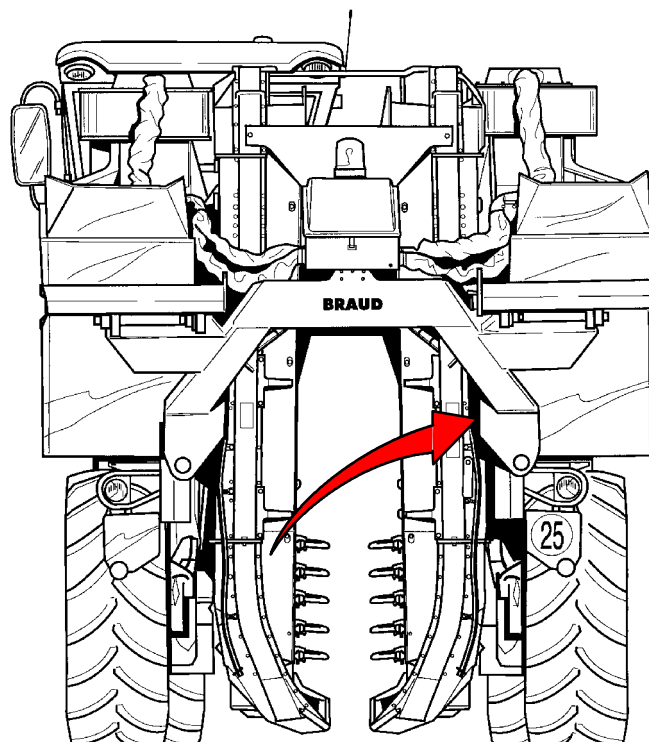
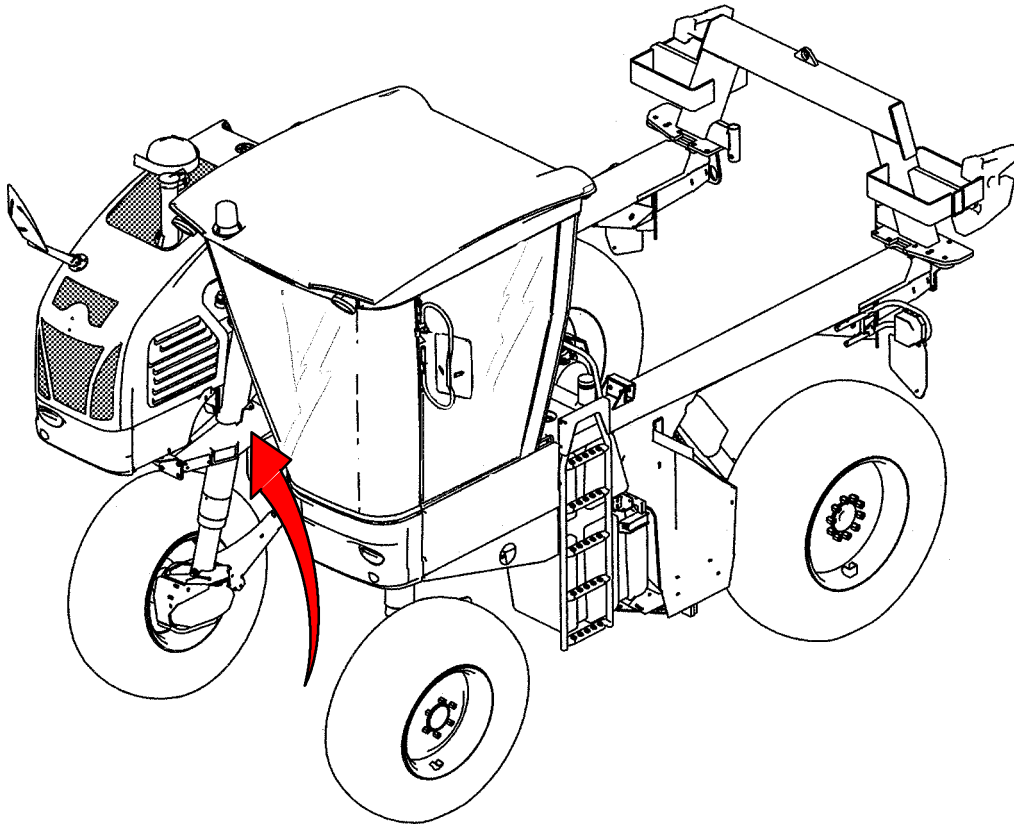
# SPECIFICATIONS

## Chapter 1

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VM 3080H = High version



B 01 /10

## MACHINE IDENTIFICATION DATA

| Model   | Type | Serial no. | Machine number |
|---------|------|------------|----------------|
| VL 6090 | 664  | 025        | 001            |
| VL 6080 | 660  | 023        | 001            |
| VL 6070 | 660  | 023        | 001            |
| VL 6060 | 656  | 022        | 001            |
| VL 6050 | 656  | 022        | 001            |
| VL 6040 | 650  | 004        | 001            |
| VM 4090 | 636  | 009        | 001            |
| VL 5090 | 655  | 009        | 001            |
| VL 5080 | 653  | 013        | 001            |
| VL 5060 | 653  | 013        | 001            |
| VM 3090 | 635  | 009        | 001            |
| VM 3080 | 633  | 013        | 001            |
| VN 2090 | 643  | 001        | 001            |

New numbering starting from the installation of cabs with roll-over-protection structure "ROPS"

|           |           |      |             |      |        |        |
|-----------|-----------|------|-------------|------|--------|--------|
| H A G     | 00        | 664  | E           | 00   | 042    | 001    |
| COEX code | Free = 00 | Type | Code letter | Free | Series | Number |

Models 6080; 6070 and 6050 come in high version as well (for Italy)

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

**A** = manufacturer's label

**B** = stamped frame number. This number is the same as the one of the plate, excluding models VM 3080H (Alsace), that also include the letter H

## OPERATOR'S MANUAL

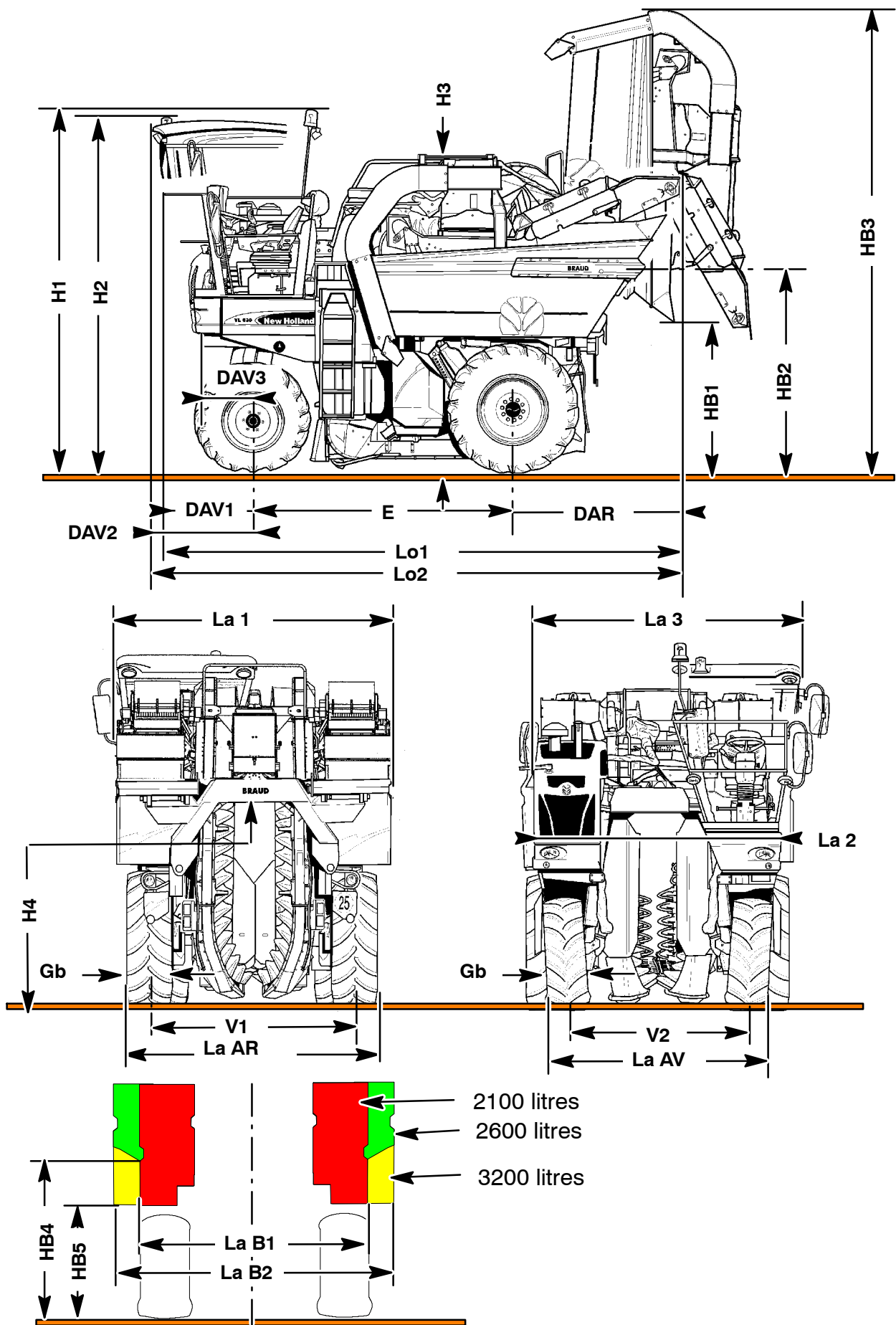
VL 6040, from 6050 to 6090 and VM 4090: 84171520 (F)

VL 5090, 5080, 5060 and VM 3090, 3080: 84155261 (F)

VN 2090: 87612978 (F)

## REPAIR MANUAL

French: 84189524, English: 84189523, Italian: 84189522, Spanish: 84189525, German: 84189526



| COMMERCIAL DESCRIPTION |                                                                          |                                                                                      | From VL6040<br>to 6090                                                                                   | VM4090                                 |
|------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------|
|                        |                                                                          |                                                                                      |                                                                                                          |                                        |
| Code                   | DIMENSIONS (mm)                                                          |                                                                                      |                                                                                                          |                                        |
| H1                     | Height:                                                                  | without cab                                                                          |                                                                                                          |                                        |
| H2                     | (harvesting equipment on<br>the ground)                                  | with/cab<br>at the revolving beacon                                                  |                                                                                                          |                                        |
|                        |                                                                          |                                                                                      | 3635 (3870*)                                                                                             |                                        |
| H3                     | Harvesting equipment height at the railings<br>without (with) destemmers |                                                                                      | 3380 (3520)(3590*)                                                                                       |                                        |
| H4                     | Clearance under the harvesting equipment                                 |                                                                                      | from 2000 to 2600 2260 from 2760*)                                                                       |                                        |
| HB1                    | Clearance under tilted up hoppers                                        |                                                                                      | 1710 (1950*)                                                                                             |                                        |
| HB2                    | Tilting axle height                                                      |                                                                                      | 2100 (2350*)                                                                                             |                                        |
| 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 (1670*)                                                                                             |                                        |
| E                      | Pitch                                                                    |                                                                                      | 2850                                                                                                     |                                        |
| La1                    | Max. width at the hoppers                                                | hoppers, 2100 litres<br>2100 litres + cab<br>2600 litres or 3200 litres              | 2800 (1)<br>3000<br>3000                                                                                 | 2720 (2)<br>2800                       |
| La2                    | Max. width from cover to<br>cover                                        | Only self-propelled<br>machine                                                       | 2590                                                                                                     | 2390                                   |
| La3                    | Max. width from cab top to<br>right cover                                | Only self-propelled<br>machine                                                       | 2830                                                                                                     | 2630                                   |
| LaB1                   | Hopper width                                                             | 2100 litres                                                                          | 2530                                                                                                     | 2330                                   |
| LaB2                   |                                                                          | 2600 litres                                                                          | 3000                                                                                                     | 2800                                   |
|                        |                                                                          | 3200 litres                                                                          | 3000                                                                                                     |                                        |
| La                     | Outer width at the rear                                                  |                                                                                      | (*) (3)                                                                                                  | (4)                                    |
| AR                     | wheels:<br>(V1 + Gb = La AR)                                             | Tyres 420/85 R28<br>Tyres 480 / 70 R 28<br>Tyres 540/65 R28<br><br>Tyres 600/55-30.5 | 2160 + 454 = 2614<br>2260 + 480 = 2740<br>2340 + 540 = 2880<br>(2468 + 540 + 3008*)<br>2360 + 600 = 2960 | 1790 + 454 = 2244<br>1860 + 480 = 2340 |
| La                     | Outer width at the front                                                 | Tyres 420 / 70 R24                                                                   | 1930 + 420 = 2350                                                                                        | 1730 + 420 = 2150                      |
| AV                     | wheel level on ground:<br>(V2 + Gb = La AV)<br>(V2 at ground level)      | Tyres 13.6 R24                                                                       | 1930 + 350 = 2280                                                                                        | 1730 + 350 = 2150                      |
| Lo1                    | Max. length                                                              | without cab                                                                          | 5360 (5510)                                                                                              |                                        |
| Lo2                    | without (with) destemmers                                                | with/cab                                                                             | 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

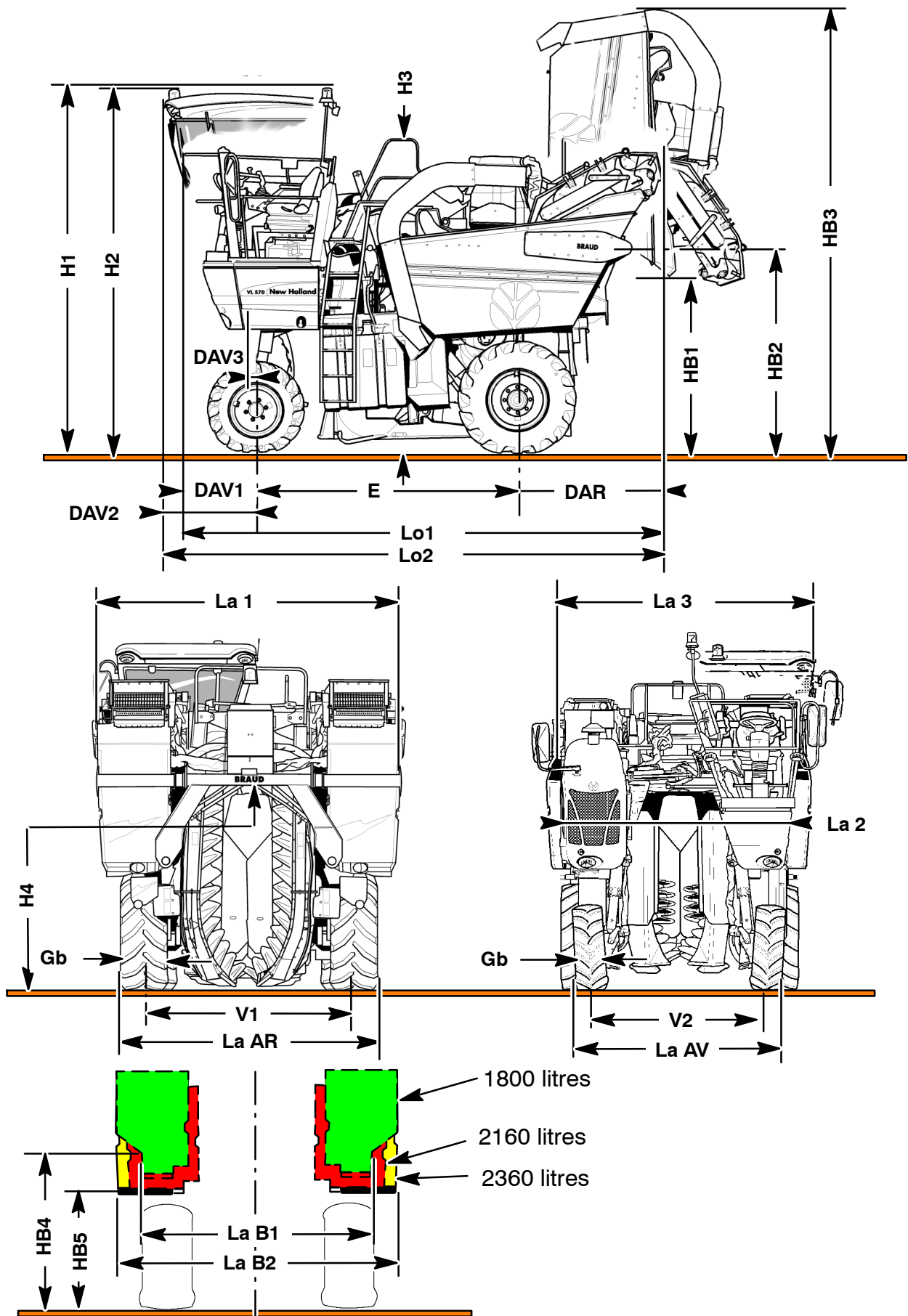
(3) Bearings on large track

(2) Tyres 480/70 R28

(4) Bearings on narrow track

(\*) large track = narrow track + 160 mm

(---\*) values detected for raised VL (Italy)



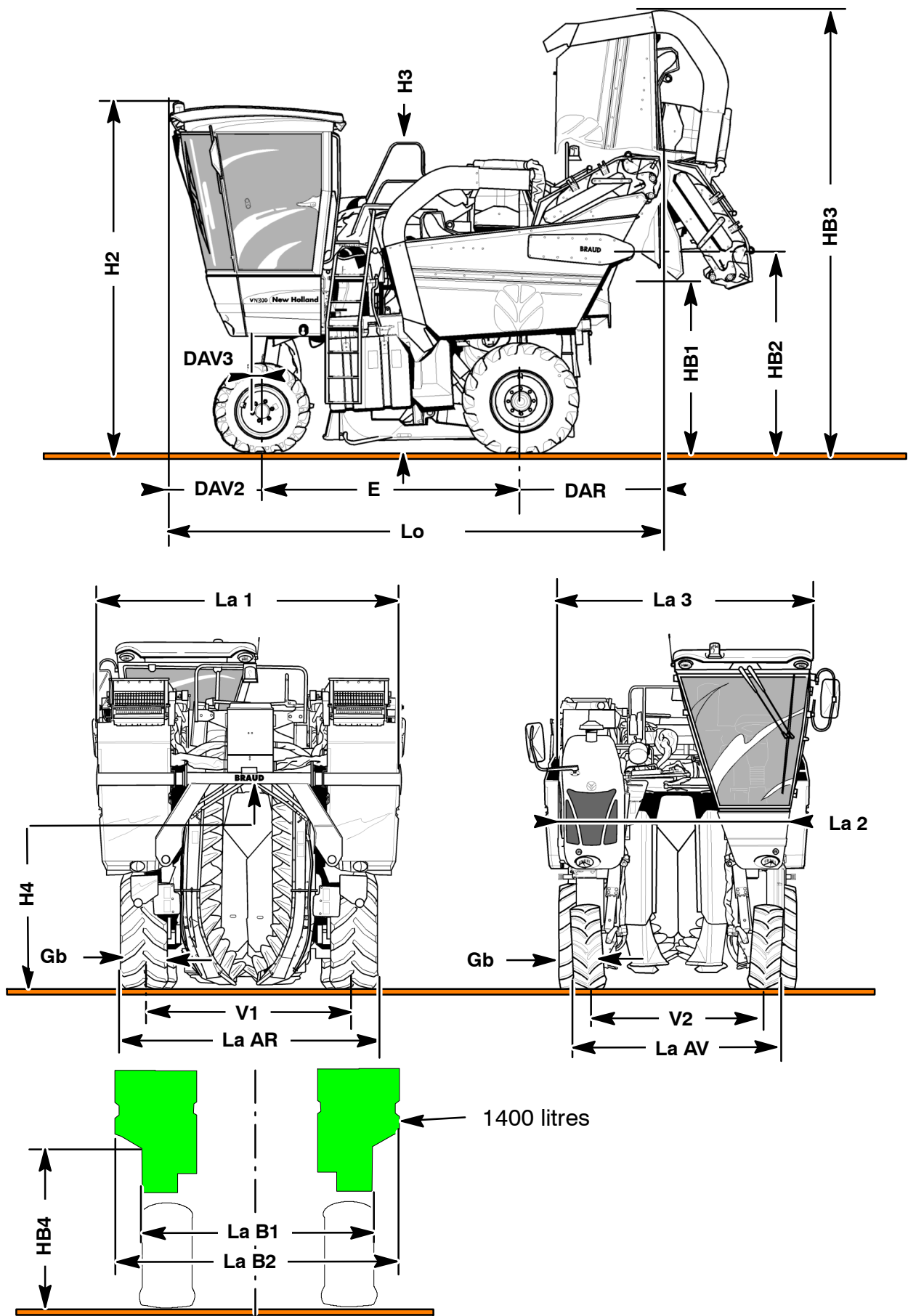
| COMMERCIAL DESCRIPTION |                                                                                              |                                          | VL5090/VL5080,<br>5070, 5060 | VM3090 / 3080     |
|------------------------|----------------------------------------------------------------------------------------------|------------------------------------------|------------------------------|-------------------|
| Code                   | DIMENSIONS (mm)                                                                              |                                          |                              |                   |
| H1                     | Height:                                                                                      | without cab<br>(at the revolving beacon) | 3160<br>(3745)               | 3040<br>(3615)    |
| H2                     | (harvesting equipment on the ground)                                                         | with cab<br>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 / 1730                  | 1700 / 1600       |
| 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:<br>(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:<br>(V2 + Gb = La AV)<br>(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            | VM 3080 H         |
|------------------------|---------------------------------------------------------------------------------------------------------------|-------------------|-------------------|
| Code                   | DIMENSIONS (mm)                                                                                               |                   |                   |
| H1                     | Height: without cab                                                                                           |                   | 3160<br>(3745)    |
| H2                     | (harvesting equipment on the ground) with cab at the revolving beacon                                         | 3475              | 3605              |
| H3                     | Harvesting equipment height to the railings                                                                   | 3025              | 3285              |
| H4                     | Clearance under the harvesting equipment                                                                      | from 1500 to 2000 | 1950 to 2450      |
| HB1                    | Clearance under tilted up hoppers (under the destemmers)                                                      | 1735<br>(1570)    |                   |
| HB2                    | Tilting axle height                                                                                           | 1965              | 2110              |
| HB3                    | Max. height with lifted hoppers                                                                               | 4490              |                   |
| HB4                    | Clearance under the frame hoppers, 1400 litres                                                                | 1340              | 1150              |
| E                      | Pitch                                                                                                         | 2740              | 2760              |
| La1                    | Max. width at the hoppers                                                                                     | 2400              |                   |
| La2                    | Max. width from cover to cover Only self-propelled machine                                                    | 2090              | 2340              |
| La3                    | Max. width from cab top to right cover Only self-propelled machine                                            | 2300              |                   |
| LaB1<br>LaB2           | Hopper width                                                                                                  | 2017<br>2400      |                   |
| La AR                  | Outer width at the rear wheels:<br>(V1 + Gb = La AR) Tyres 340/85 R24                                         | 1540 + 365 = 1905 | 1780 + 366 = 2146 |
| La AV                  | Outer width at the front wheel level on ground:<br>(V2 + Gb = La AV) Tyres 320/70 R20<br>(V2 at ground level) | 1480 + 315 = 1795 | 1720 + 275 = 1995 |
| Lo                     | Max. length without (with) destemmers with cab                                                                | 4930 (5210)       |                   |
| DAV1<br>DAV2           | Front offset without cab 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

VM 3080 H = high machine, without destemmer option

| COMMERCIAL DESCRIPTION                                                                                       |                                                                                                                   | From VL6040 to 6090                        | VM4090            |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|
| <b>WEIGHTS</b>                                                                                               |                                                                                                                   |                                            |                   |
| 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<br>VL6040 (from VL6050 to 6090)                                  |                                                                                                                   | 8200 (8660)                                | 8660              |
| - with hoppers (litres),<br>standard wheels and cab, but without destemmers<br>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                                                             |                                                                                                                   |                                            |                   |
| <b>FEEDING / EXHAUST</b>                                                                                     |                                                                                                                   |                                            |                   |
| Fuel tank                                                                                                    | Used fuel<br>Capacity (litres)                                                                                    | Diesel fuel<br>250                         |                   |
| Engine (cylinders)                                                                                           |                                                                                                                   | 6                                          | 4                 |
| - ISO power (kW/CV)                                                                                          |                                                                                                                   | VL6050 and 6060 = 107/145                  | 94/128            |
| - Displacement = 1125 cm <sup>3</sup> /cylinder                                                              |                                                                                                                   | VL6070 and 6080 = 120/160                  |                   |
|                                                                                                              |                                                                                                                   | VL6090 = 129/175                           |                   |
| Empty operating speed +/- 50 (rpm)                                                                           |                                                                                                                   | 2500                                       | 2500              |
| Air filter                                                                                                   | Make<br>Type                                                                                                      | DONALDSON<br>ELB 12-0265                   |                   |
| Engine cooling                                                                                               | Water capacity (litres)<br>Fan                                                                                    | Sucking                                    |                   |
| Cooling fan Ø (mm)                                                                                           |                                                                                                                   | 610                                        | 584               |
| <b>DRIVE</b>                                                                                                 |                                                                                                                   |                                            |                   |
| Pump for engine fan                                                                                          | Make<br>Displacement (cm <sup>3</sup> /rev.)<br>Empty operating speed (rpm)<br>Capacity (l/minute),<br>output 0.9 | SAUER<br>17<br>(1.02 x engine speed)<br>38 |                   |
| Fan motor                                                                                                    | Make<br>Displacement (cm <sup>3</sup> /rev.)                                                                      | SAUER<br>12.2                              |                   |
| Variable displacement inch-<br>ing hydraulic pump                                                            | Make<br>Type<br>Total displacement<br>(cm <sup>3</sup> /rev.)                                                     | REXROTH<br>A4VG<br>from 0 to 105           |                   |

| COMMERCIAL DESCRIPTION                     |                                 | From VL6040 to 6090                       | VM4090 |
|--------------------------------------------|---------------------------------|-------------------------------------------|--------|
| DRIVE (follows)                            |                                 |                                           |        |
| Priming pump                               | Displacement (cm³/rev.)         | 26                                        |        |
|                                            | Capacity (l/minute), output 0.9 | 58.5                                      |        |
| Front wheel motor                          | Make                            | POCLAIN                                   |        |
|                                            | Type                            | MS 08                                     |        |
|                                            | Displacement (cm³/rev.)         | 1043                                      |        |
| Rear wheel motor                           | Make                            | POCLAIN                                   |        |
|                                            | Type                            | MSE 18                                    |        |
|                                            | Displacement (cm³/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<br>Hydrosystem 68 BIO S    |        |
| Conveyor and extractor pump                | Make                            | REXROTH                                   |        |
|                                            | Displacement (cm³/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 (cm³/rev.)         | 22                                        |        |
|                                            | Empty operating speed (rpm)     | 2500 (see engine speed)                   |        |
|                                            | Capacity (l/minute), output 0.9 | 49.5                                      |        |
| Pump<br>for steering/lifting/hoppers       | Make                            | SAUER                                     |        |
|                                            | Displacement (cm³/rev.)         | 14                                        |        |
|                                            | Empty operating speed (rpm)     | (1.02 x engine speed)                     |        |
|                                            | Capacity (l/minute), output 0.9 | 32                                        |        |
| STEERING                                   |                                 | Hydrostatic                               |        |
| Type                                       |                                 | EATON QAMP 146 cm³/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                   |        |



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| 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 (cm³/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 (cm³/rev.)  | 500                     |                     |                 |
| Harvesting conveyors                       | Width (mm)               | 600                     |                     |                 |
|                                            | Max. operating speed rpm | about 750               |                     |                 |
|                                            | Reverse                  | yes                     |                     |                 |
| Single operation                           | Motor manufacturer       | EATON                   |                     |                 |
|                                            | Displacement (cm³/rev.)  | 31.6                    |                     |                 |

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