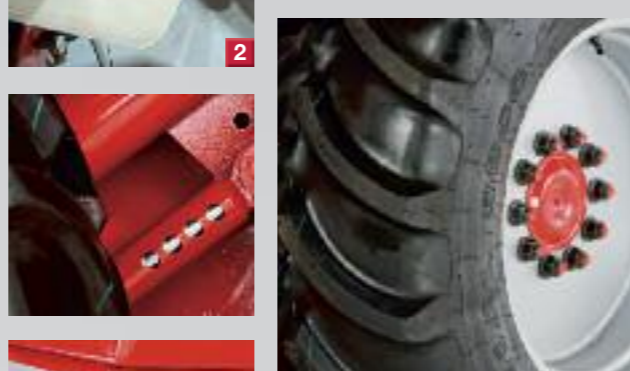


# A90 - 130 - 170

## Comparative table of the range

Key: S = Series – O = Option

|   | A90        | A130       | A170       |
|---|------------|------------|------------|
| <b>ENGINE</b>   | Iveco      | Iveco      | Iveco      |
| Cylinder capacity   | 4.5        | 4.5        | 6.75       |
| Number of cylinders   | 4          | 4          | 6          |
| Water cooling   | S          | S          | S          |
| Air cooling   | -          | S          | S          |
| Torque Nm - RPM   | 397/1400   | 520/1400   | 720/1400   |
| Power HP/KW   | 100/74.5   | 126/94     | 175/130.5  |
| Diesel fuel tank capacity L   | 145        | 145        | 164.5      |
| Alternator V DC – A per hour  | 14/70-120  | 14/70-120  | 14/70-120  |
| Battery A per hour  | 180        | 180        | 180        |
| <b>TRANSMISSION</b>   |            |            |            |
| Poclain Twin-lock transmission  | S          | S          | S          |
| Integral locking  | O          | S          | S          |
| Sauer pump CC/Bars  | 75/450     | 75/450     | 100/450    |
| Raise / lower speed control   | S          | S          | S          |
| <b>POSITIONING</b>  |            |            |            |
| Automatic superelevation correction                                       | O          | S          | S          |
| Superelevation percentage   | 26         | 26         | 26         |
| Attitude correction   | S          | S          | S          |
| Attitude percentage   | 21         | 21         | 21         |
| Elevation mm  | 520        | 520        | 520        |
| Rear height stop  | S          | S          | S          |
| <b>AUTOMATIC GUIDING</b>  |            |            |            |
| Movement 300 mm   | S          | S          | S          |
| <b>TYRES</b>  |            |            |            |
| Front   | 320/70 R20 | 360/70 R20 | 360/70 R24 |
| Rear  | 360/70 R20 | 380/70 R24 | 420/70 R24 |
| Rear tyre option  | 420/65 R20 | 440/65 R24 | 480/65 R24 |
| <b>CONVEYERS</b>  |            |            |            |
| Bucket conveyer – Number of buckets                                       | 2 x 48     | 2 x 52     | 2 x 52     |
| Forward / reverse control adjustable from the cab                         | S          | S          | S          |
| Stainless steel conveyer width 340 mm                                     | S          | S          | S          |
| <b>HOPPERS</b>  |            |            |            |
| Stainless steel hopper capacity HL  | 28         | 38         | 38         |
| Hydraulic equalising screw  | S          | S          | S          |
| <b>SHAKING</b>  |            |            |            |
| Number of VCR type shakers  | 10         | 10         | 10         |
| 2-position amplitude adjustment   | S          | S          | S          |
| Rotation control from the cab   | S          | S          | S          |
| Multi-position gripping adjustment  | S          | S          | S          |
| <b>SUCTION TUBES</b>  |            |            |            |
| 2 flat lower extractors with shredder independently adjusted from the cab | S          | S          | S          |
| 2 extractors on hopper with shredder independently adjusted from the cab  | S          | S          | S          |
| <b>ADJUSTABLE INCLINATION SCALE RAILS</b>                                 |            |            |            |
| Length of scale rail in mm  | 2220       | 2480       | 2480       |
| Number of flexible scales   | 2 x 24     | 2 x 27     | 2 x 27     |
| <b>CENTRALISED LUBRICATION</b>  |            |            |            |
| Manual  | O          | O          | O          |
| Automatic   | O          | O          | O          |
| <b>OPEN CAB</b>   |            |            |            |
| Mechanical seat   | S          | S          | S          |
| <b>CLOSED CAB</b>   |            |            |            |
| With air conditioning, heating  |            |            |            |
| Radio, pneumatic seat,  |            |            |            |
| Suspended on 4 hydraulic cushions   | O          | O          | O          |
| <b>DRIVING STATION</b>  |            |            |            |
| Inclination adjustable steering wheel, with knob                          | S          | S          | S          |
| Control panel with back lighting  | S          | S          | S          |
| Hectare counter   | O          | S          | S          |
| Time and outside temperature  | S          | S          | S          |
| Joystick control  | S          | S          | S          |
| <b>HARVEST HEAD DIMENSIONS</b>  |            |            |            |
| Width of channel in mm  | 620        | 620        | 620        |
| Length of channel in mm   | 2650       | 2910       | 2910       |
| Height of laid channel in mm  | 2070       | 2070       | 2900       |
| <b>DOVERALL DIMENSIONS FOR TRANSPORT</b>                                  |            |            |            |
| Width in mm   | 2550       | 2550       | 2550       |
| Height in mm  | 3250       | 3342       | 3620       |
| Length in mm  | 4970       | 5344       | 5590       |



### 1 Rear view

- The “VCR” (constant vibration during the harvest) shaking ensures high performance progress whilst preserving the vegetation.
- It demands only a low shaking frequency (380 to 420 shakes per minute).
- It comprises two main components (control arm and shakers).

Very wide buckets, like the conveyers, mounted on two gear chains, give whole grains, resistance to foreign bodies and lower maintenance costs.

### 2 Invented by ALMA in 1984

The ALMA acceptance plan, made up of bolted scales, long and flexible, guarantees perfect sealing and preserves yield rates.

### 3 Driving pleasure

The dashboard groups all the driving components, and allows night work by its back lighting – ensuring instant legibility.

### CONSTRUCTEUR MATÉRIEL VITIVINICOLE ARNAUD Frères SA

Z.I. du Bois des Lots  
26130 SAINT-PAUL-TROIS-CHÂTEAUX - France  
**Tél. bureau +33 (0)4 75 04 70 38**  
**Tél. magasin +33 (0)4 75 04 91 10**  
**Fax +33 (0)4 75 04 53 03**  
www.alma-france.com  
Email : alma-france@wanadoo.fr



# ALMA A90 - 130 - 170

Self-propelled grape harvesting machine



**ALMA** has led the market for towed harvesters for thirty years, and is now at the cutting edge of self-propelling machines.

To satisfy a higher number of users, its new machines A90, A130 and A170, compact or multi-purpose, confirm the performance of ALMA in a field where competence, being businesslike and after-sales service have no longer to be proved or demonstrated.

The **A170** is a high performance polyvalent self-propelled machine. Allowing also to harvest olives.



This new range is placed under a sign of excellence and has the advantage of all our experience. It offers machines of the highest level in terms of forward movement, manoeuvrability, comfort and design.

Their quality, both in design and production, and their advanced technological ensure efficiency and reliability.

The main new features are a more spacious and comfortable cabin, access by ladder and safe catwalk and wider high rate conveyers.

There is still the articulated double chassis for automatic guidance.

The harvest quality requirements are guaranteed by double cleaning, vertical shaft lower suction pipes and belt upper suction pipes.

Investing in an ALMA SELF-PROPELLING MACHINE gives a combination of efficiency, know-how and low maintenance costs.

#### ■ Versatility

Models A130 and A170 are modular. The harvester then transforms very quickly into a tool-carrier tractor.

The automatic centring on the row gives perfect alignment of the shaking and the sealing of the scales. It allows the operator to increase forward speed whilst freeing the driver's attention.



**A170**  
POLYVALENT



**A130**  
POLYVALENT



**A90**  
COMPACT



#### ■ Access

Access to the cab and upper catwalks is by ladder. The catwalks allow access to the whole upper part of the machine, with both comfort and protection.

#### ■ Window detail

The left side door has a fixed lower window and an articulated upper window - for better driver comfort (ventilation, visibility, communication, etc.).

#### ■ A haven of silence

Taking full advantage of the layout of the cab separated from the engine, mounted on four anti-vibration cushions, the functional and highly ergonomic driver's cab offers the kind of sound and heat insulation you find in a saloon car, and gives priority to driving efficiency and comfort.

