

Serie **A** STAGE V



ECCELLENZA ITALIANA



AV | AVL

A Series:

the range of specialized tractors is widening

The new A Series, with 6 models and 48 basic versions, widens Antonio Carraro's range of specialized tractors for vineyards.

Reliability and quality are always at the heart of Antonio Carraro's product offering, and feature in this new range with a design delivering optimal solutions for intended applications. A robust combination, for operators that work in sectors which are often challenging and with increasingly sophisticated equipment, that call for power, hydraulic capacity, excellent handling and comfort.

Powerful yet compact models, designed to reduce the hood height, for easier work under low-hanging branches or between rows.



The AV models

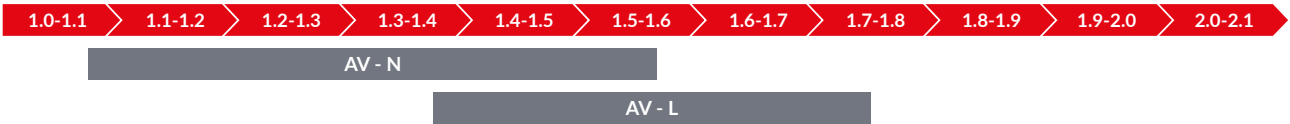


AV - N



AV - L

Overall widths



A professional performance

- › **AV-N** and **AV-L** are the two models designed to offer an outstanding professional performance in a sector with continually evolving equipment and apparatus.
- › From the narrowest rows of vines to sloping vineyards, regardless of the terrain, tractors have to deliver a best-in-class performance. That's why two cab-only models, with different-width axles, have been designed.
- › While keeping the characteristic tunnel configuration, the AV-N and AV-L tractors of the A Series offer all the benefits of a tractor with a low centre of gravity - stability, excellent visibility and superb handling. 6 basic configurations are available for each model, which can all be customised with a wide choice of options.
- › An extensive range of 24" and 28" tyre combinations, with adjustable rims, mean the customer can choose the best configuration for their farming conditions. The hydraulic system,

with a 2 or 3-pump configuration, is a strong point of the A Series, making it possible to combine use with the most demanding equipment, guaranteeing a highly professional performance.

- › The cab and its profile have been designed to move easily between narrow rows, while ensuring a comfortable, ergonomic position - to make the tractor a pleasure to drive.

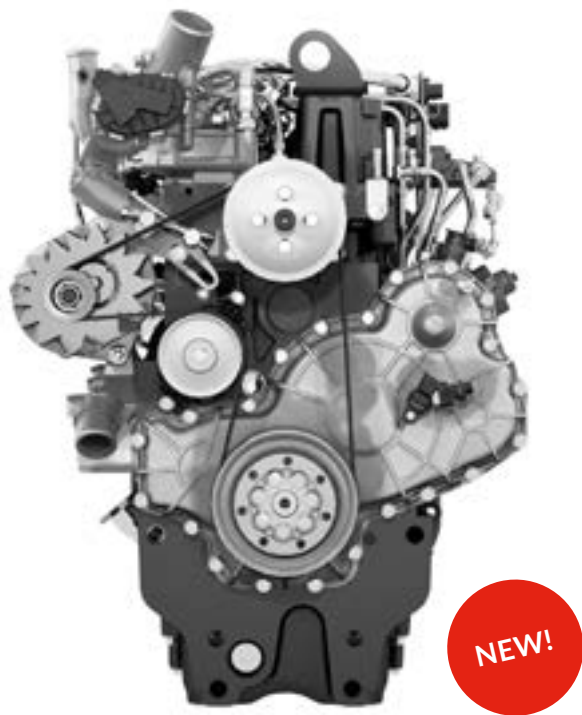
FPT F28 engine

Specialist agricultural operators want an ever-better performance which takes into account size constraints. So, engines must rise to the challenge of delivering the best performance while guaranteeing compact layouts.

An integrated Egr and smaller Liner Bridge have made it possible to create an extremely compact product. The post-working system, with dimensions reduced to the minimum, guarantees a modular installation, with a single packaging for Stage V.

The FPT F28 engine combines performance with size. The F28 STAGE V is a unique solution, featuring a system that is 5% smaller on average than competitors, to meet demand for high-performance applications.

This new engine has also been chosen for its focus on sustainability, thanks to an optimised combustion efficiency.



55kW 2.85
DOC DPF 4.33 below the hood

67kW 2.95
75kW 2.105
SCRT below the hood

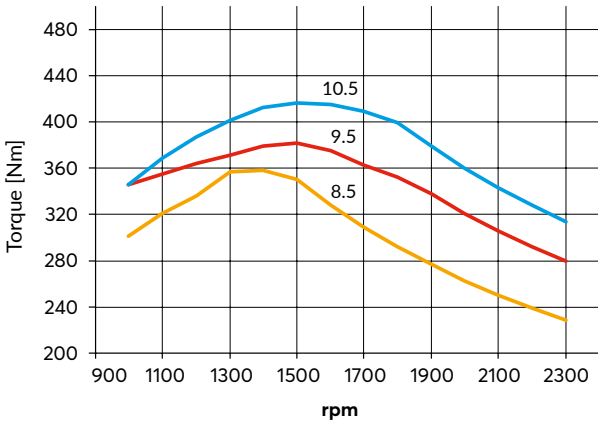
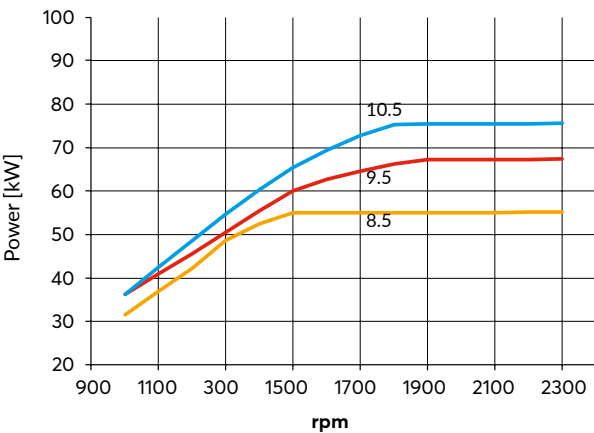


FPT F28 engine

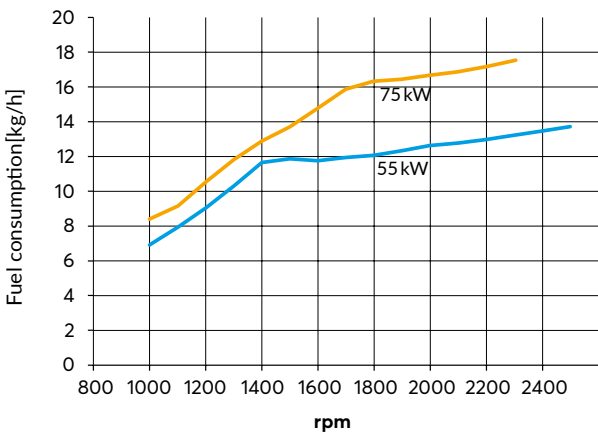
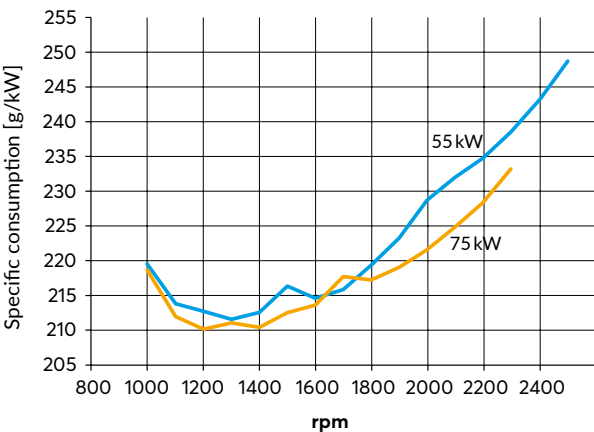
Specifications

| FPT F28 | | AV 2.85 N, AV 2.85 L, AV 2.85 LB, AF 2.85 N, AF 2.85 L, AF 2.85 B | | AV 2.95 N, AV 2.95 L, AV 2.95 LB, AF 2.95 N, AF 2.95 L, AF 2.95 B | | AV 2.105 N, AV 2.105 L, AV 2.105 LB, AF 2.105 N, AF 2.105 L, AF 2.105 B | |
|---------------|--------|---|------|---|------|---|-------|
| | | kW | hp | kW | hp | kW | hp |
| Power rating | | 55 | 74,8 | 67,1 | 91,3 | 75,3 | 102,4 |
| Maximum power | | 55 | 74,8 | 67,9 | 92,3 | 75,7 | 103,0 |
| Torque | Nm Max | 358 | | 382 | | 416 | |

Power curves

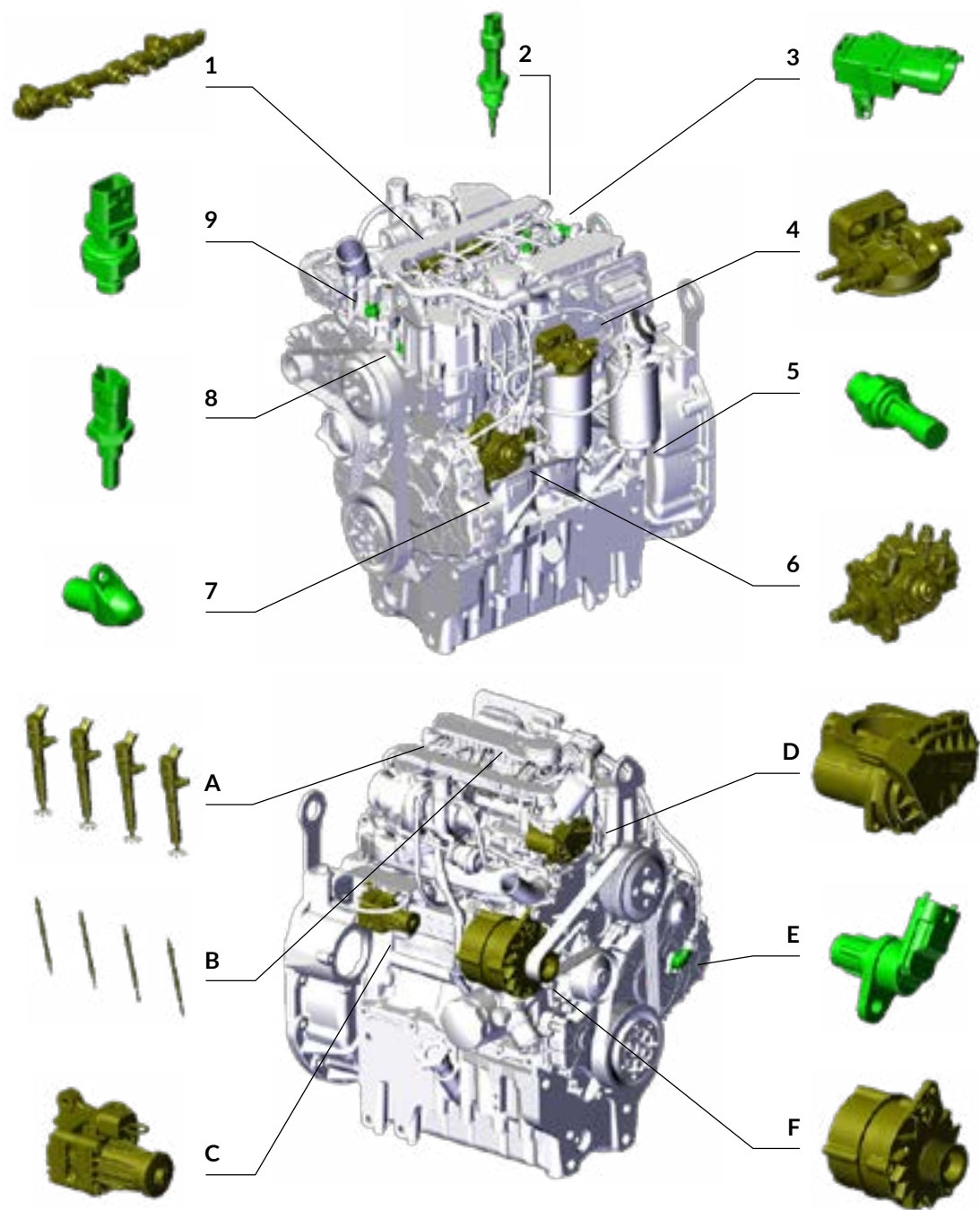


Specific consumption



FPT F28 engine

Sensors



Position of components

- 1. Rail pressure sensor
- 2. Inlet manifold temperature sensor
- 3. Inlet manifold pressure sensor
- 4. Fuel temperature sensor
- 5. Oil pressure sensor
- 6. Pump fuel throttle valve
- 7. Oil pressure sensor
- 8. Engine water temperature sensor
- 9. Outlet manifold pressure sensor (absolute)

- A. Electromagnetic injectors
- B. Pre-heating glow plugs
- C. EGR Valve
- D. Intake valve
- E. Phase sensor
- F. Alternator

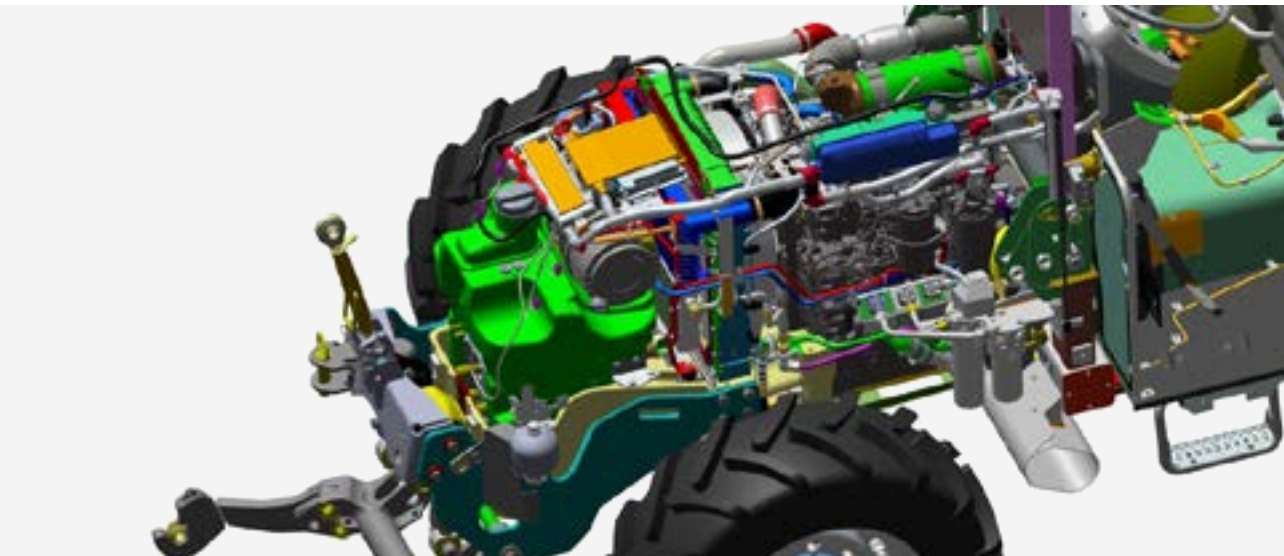
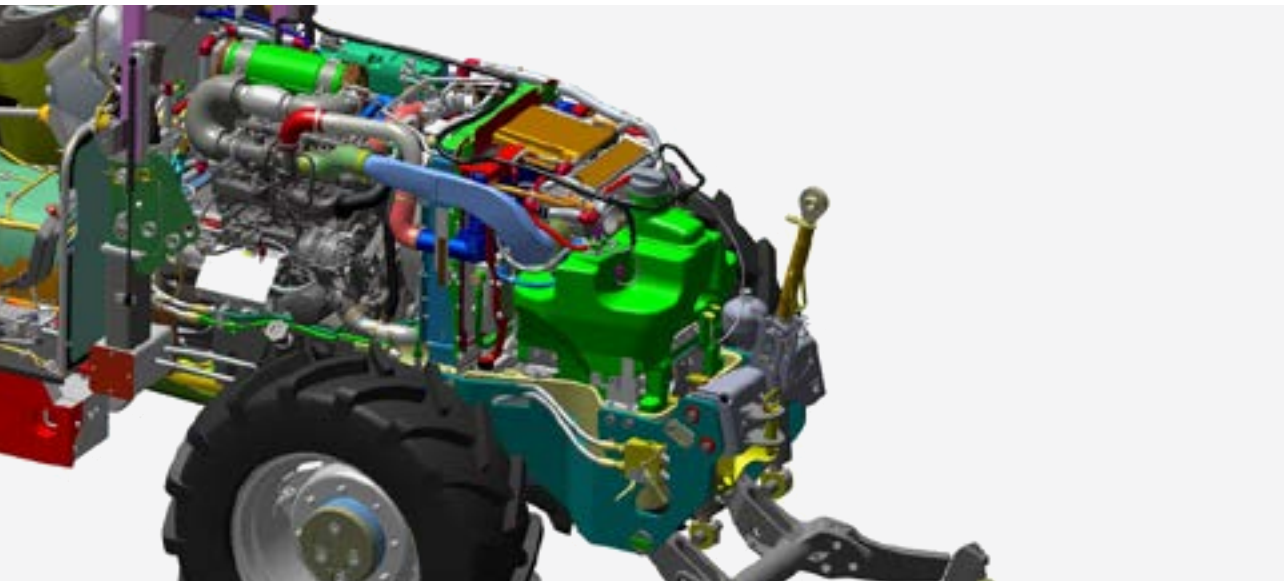
FPT F28 engine

Installation of the F28 55kW



DOC DPF 4.33 ,Below the hood

Right side free



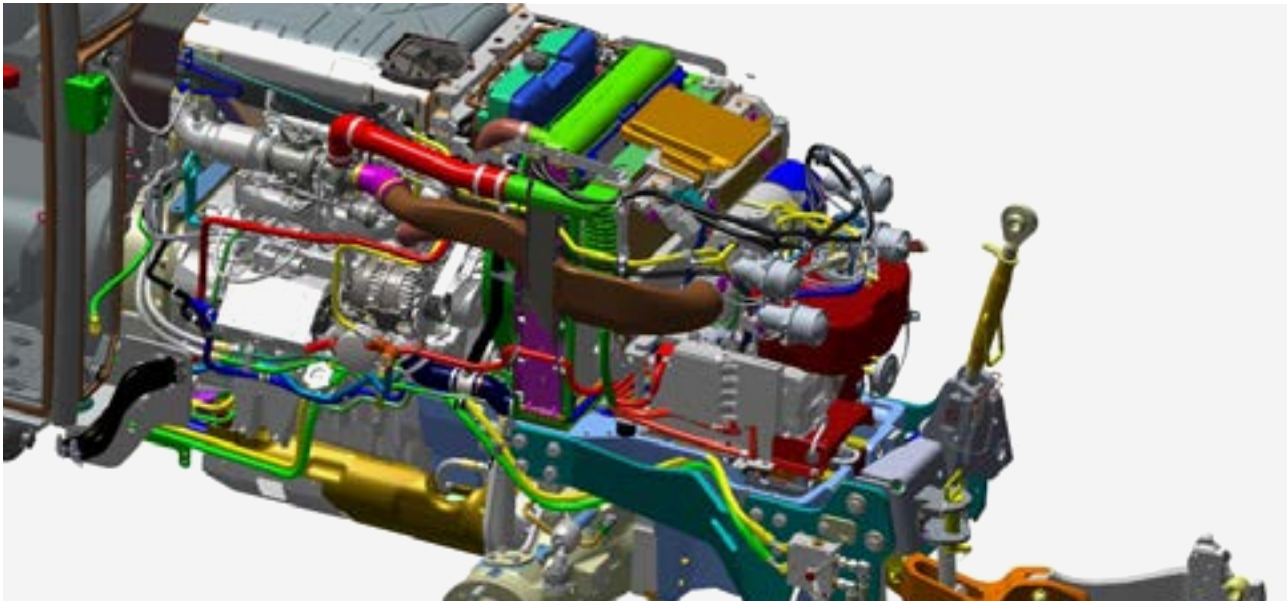
Horizontal outlet left side

Installation

F28 67kW-75kW



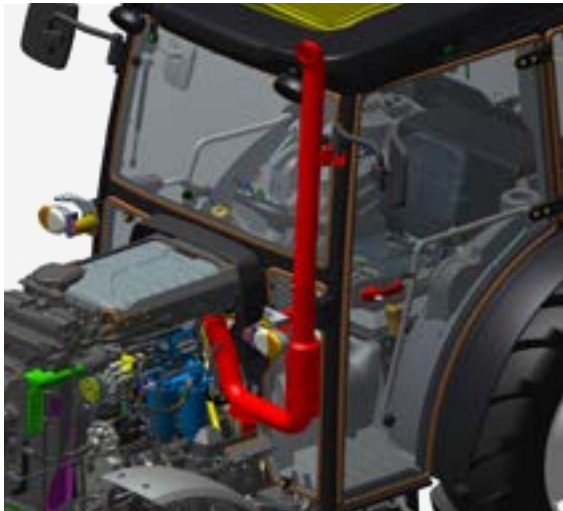
SCRT , Below the hood



Right side free



Horizontal outlet left side



Vertical outlet left side

Pumps

| CONFIG. | DISPLACEMENT | PUMP 1 | PUMP 2 | PUMP 3 |
|---------|--------------|----------------|----------------------|--------|
| 2 pumps | 26+11 | Steering + aux | Hitch + distributors | - |
| 3 pumps | 26+11+11 | Steering + aux | Distributors | Hitch |

| DISPLACEMENT | | | FLOW RATE (l/min) | |
|----------------------|----------|----------|-------------------|----------|
| | | @1000RPM | @1500RPM | @2300RPM |
| 2 pumps | | | | |
| Steering + aux | 26+11 | 11,7 | 17,6 | 27,0 |
| Hitch + distributors | 26+11 | 26,0 | 39,1 | 60,0 |
| 3 pumps | | | | |
| Steering + aux | 26+11+11 | 11,7 | 17,6 | 27,0 |
| Distributors | 26+11+11 | 26,0 | 39,1 | 60,0 |
| Hitch | 26+11+11 | 11,7 | 17,6 | 27,0 |

Hydraulics

Without side intakes

| | | AV-LB | AF-B |
|-------|--|-------|------|
| Code | Description | OOS | OOS |
| 04300 | 2 hydraulic pumps / 2 mechanical flow dividers SCV | s | s |
| 04310 | 2 hydraulic pumps / 3 mechanical flow dividers SCV | o | o |
| 04320 | 2 hydraulic pumps / 3 mechanical flow dividers SCV | o | o |
| 04350 | 3 hydraulic pumps / 3 mechanical flow dividers SCV | o | o |

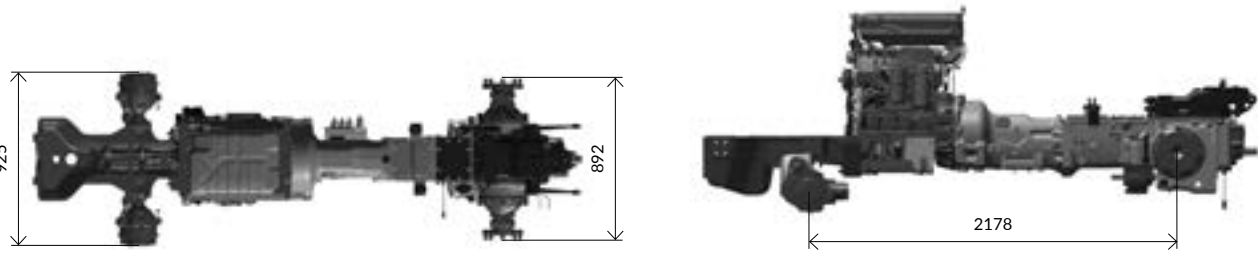
S BASIC O OPTION

Axles

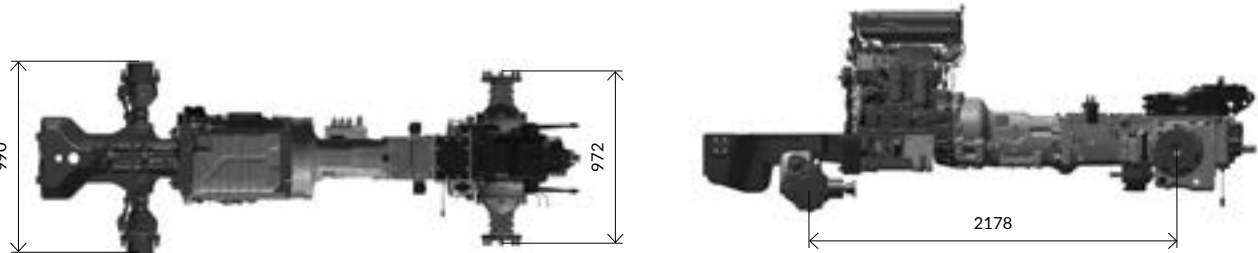
Besides the traditional axle, the AV-N and A-VL models feature a suspended IFAS axle, which is increasingly requested due to the benefits it offers.

| | | AV-N | AV-L |
|-------------------------------|----|------|------|
| Front axle (flange-to-flange) | mm | 925 | 990 |
| Rear axle (flange-to-flange) | mm | 892 | 972 |

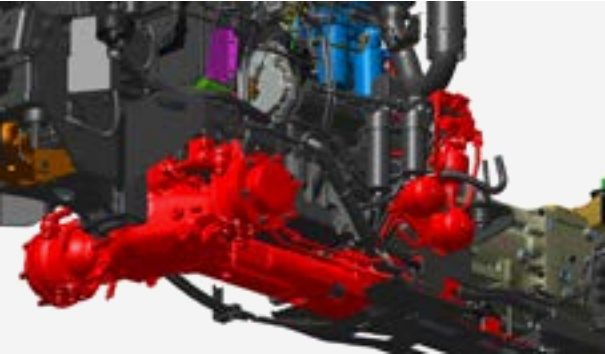
AV - N



AV - L



Suspended IFAS axle



- The suspended axle works in three ways using a push button control in the cab:
- › automatic: axle suspension is operated autonomously;
 - › manual: the suspension is not activated, but the operator can use an electro-hydraulic control to set and manually adjust the height by +/- 40 mm. This function is extremely useful for assembling equipment;
 - › locked: the suspension is locked, in the lowest position, but still free to move around the pin. This option is useful above all for precision work.

A Series 2.85 - 2.95 - 2.105 Technical datasheets

| | | | 2.85 | | 2.95 | | 2.105 | |
|---------------------------------------|----------|---|-------------|-------------|-------------------|-------------------|-------------------|-------------------|
| s STANDARD o OPTION | | | AV-N | AV-L | AV-N | AV-L | AV-N | AV-L |
| Engine | | | | | | | | |
| Manufacturer & model | s | | FPT F28 | FPT F28 | FPT F28 | FPT F28 | FPT F28 | FPT F28 |
| Engine | | | F28 DOC DPF | F28 DOC DPF | F28 SCRT (Adblue) | F28 SCRT (Adblue) | F28 SCRT (Adblue) | F28 SCRT (Adblue) |
| Cylinders/valves | No | s | 4/ 2 | 4/ 2 | 4/ 2 | 4/ 2 | 4/ 2 | 4/ 2 |
| Cubic capacity | cm3 | s | 2800 | 2800 | 2800 | 2800 | 2800 | 2800 |
| Injection | | s | Common rail | Common rail | Common rail | Common rail | Common rail | Common rail |
| Certification | | s | Stage V | Stage V | Stage V | Stage V | Stage V | Stage V |
| Power rating (ISO) | kW/hp | s | 55/ 74.8 | 55/ 74.8 | 67.4/ 91.3 | 67.4/ 91.3 | 75.6/ 102.4 | 75.6/ 102.4 |
| Maximum power (ISO) | kW/hp | s | 55/ 74.8 | 55/ 74.8 | 67.9/ 92.3 | 67.9/ 92.3 | 75.7/ 103.0 | 75.7/ 103.0 |
| Maximum torque | Nm @ rpm | s | 358 @ 1500 | 358 @ 1500 | 382 @ 1500 | 382 @ 1500 | 416 @ 1500 | 416 @ 1500 |
| Nominal speed | rpm | s | 2300 | 2300 | 2300 | 2300 | 2300 | 2300 |
| Tank capacity (below the hood) | litres | s | 72 | 72 | - | - | - | - |
| Tank capacity with front PTO | litres | o | 52 | 52 | - | - | - | - |
| Optional tank capacity with front PTO | litres | o | 34 | 34 | - | - | - | - |
| ADBlue tank capacity | litres | s | - | - | 10 | 10 | 10 | 10 |
| LH side tank capacity | litres | s | - | - | 34 | 34 | 34 | 34 |
| Rear tank capacity | litres | s | - | - | 41 | 41 | 41 | 41 |
| Total tank capacity | litres | s | - | - | 75 | 75 | 75 | 75 |
| LH side horizontal muffler | | s | s | s | s | s | s | s |
| LH side vertical muffler (cab) | | o | o | o | o | o | o | o |
| DOC / DPF below the hood | | s | s | s | - | - | - | - |
| SCRT ADBLue below the hood | | s | - | - | s | s | s | s |

Electrical system

| | | | | | | | | |
|---------------|----|---|-----|-----|-----|-----|-----|-----|
| Battery | Ah | s | 80 | 80 | 80 | 80 | 80 | 80 |
| Alternator | A | s | 100 | 100 | 100 | 100 | 100 | 100 |
| Starter motor | kW | s | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |

Transmission

| | | | | | | | | |
|---|---|--|------------------|------------------|------------------|------------------|------------------|------------------|
| Manufacturer & model | s | | Carraro/ T100+30 | Carraro/ T100+30 | Carraro/ T100+30 | Carraro/ T100+30 | Carraro/ T100+30 | Carraro/ T100+30 |
| Front & rear gears, mechanical HI-LO, mechanical reverser | o | | 24+24 | 24+24 | 24+24 | 24+24 | 24+24 | 24+24 |

| | | | 2.85 | 2.95 | | 2.105 | | |
|--|------|---|-----------|-----------|-----------|-----------|-----------|-----------|
| s STANDARD o OPTION | | | AV-N | AV-L | AV-N | AV-L | AV-N | AV-L |
| Front & rear gears, hydraulic HI-LO, mechanical reverser | | o | 24+12 | 24+12 | 24+12 | 24+12 | 24+12 | 24+12 |
| Gears | | s | 4 synchro | 4 synchro | 4 synchro | 4 synchro | 4 synchro | 4 synchro |
| Ranges | | s | 3 H/M/L | 3 H/M/L | 3 H/M/L | 3 H/M/L | 3 H/M/L | 3 H/M/L |
| Speed range | km/h | s | 0.5-40 | 0.5-40 | 0.5-40 | 0.5-40 | 0.5-40 | 0.5-40 |
| Rear PTO | | | | | | | | |
| Mechanical (with 24+24) | | o | 540/540E | 540/540E | 540/540E | 540/540E | 540/540E | 540/540E |
| Mechanical (with 24+24) | | o | 540/1000 | 540/1000 | 540/1000 | 540/1000 | 540/1000 | 540/1000 |
| Electro-hydraulic (with 24+12) | | o | 540/540E | 540/540E | 540/540E | 540/540E | 540/540E | 540/540E |
| Electro-hydraulic (with 24+12) | | o | 540/1000 | 540/1000 | 540/1000 | 540/1000 | 540/1000 | 540/1000 |
| Synchro | | o | o | o | o | o | o | o |
| Clutch | | | | | | | | |
| Independent, dry, 12" in cerametalik | | s | s | s | s | s | s | s |
| Brakes | | | | | | | | |
| Mechanical and hydraulic, 10 discs in oil bath | | s | s | s | s | s | s | s |
| Rear differential gear lock | | | | | | | | |
| Mechanical with electro-hydraulic engagement | | s | s | s | s | s | s | s |
| Front axle | | | | | | | | |
| Manufacturer | | s | Carraro | Carraro | Carraro | Carraro | Carraro | Carraro |
| 4RM | | s | s | s | s | s | s | s |
| Suspended axle (for the cab) | | o | o | o | o | o | o | o |
| Maximum steering angle | ° | s | 55 | 55 | 55 | 55 | 55 | 55 |
| Swing angle - base (mud guards) | ° | s | 8 (6) | 8 (6) | 8 (6) | 8 (6) | 8 (6) | 8 (6) |
| Flange-to-flange cab | mm | s | 925 | 990 | 925 | 990 | 925 | 990 |
| Mechanical engagement | | s | s | s | s | s | s | s |
| Hydraulic engagement | | o | o | o | o | o | o | o |
| Angular steering sensor for automatic 4WD engagement | | o | o | o | o | o | o | o |
| Rear flange-to-flange | mm | s | 892 | 972 | 892 | 972 | 892 | 972 |
| Driver's seat | | | | | | | | |
| Air-conditioned cab, 4 uprights, on silent block CAT2 | | o | o | o | o | o | o | o |
| Fixed-column steering wheel | | s | s | s | s | s | s | s |
| Adjustable, telescopic-column steering wheel | | o | o | o | o | o | o | o |

| | | | 2.85 | 2.95 | | 2.105 | | |
|---|-----------------|---|--------------|--------------|--------------|--------------|--------------|--------------|
| S STANDARD O OPTION | | | AV-N | AV-L | AV-N | AV-L | AV-N | AV-L |
| Rear windscreen wipers (cab) | | | S | S | S | S | S | S |
| Inner cab mirror | | | S | S | S | S | S | S |
| Left and Right side outer mirrors | | | S | S | S | S | S | S |
| Engine 1 memory / Engine 2 memory | | | S | S | S | S | S | S |
| Lights | | | | | | | | |
| 2 halogen front oval operating lights + 2 halogen rear oval operating lights | | | S | S | S | S | S | S |
| H3 operating lights (cab) | | | O | O | O | O | O | O |
| H4 road lights (cab) | | | O | O | O | O | O | O |
| Rotating security light | | | O | O | O | O | O | O |
| Hydraulics | | | | | | | | |
| 2 hydraulic pumps | lt/min @2300rpm | S | 60 + 27 | 60 + 27 | 60 + 27 | 60 + 27 | 60 + 27 | 60 + 27 |
| 3 hydraulic pumps (optional) | lt/min @2300rpm | O | 60 + 27 + 27 | 60 + 27 + 27 | 60 + 27 + 27 | 60 + 27 + 27 | 60 + 27 + 27 | 60 + 27 + 27 |
| 2 mechanical distributors: 1SE/DE detent + 1SE/DE floating | | S | S | S | S | S | S | S |
| 3 mechanical distributors 1SE/DE detent + 1SE/DE floating + 1 SE/DE | | O | O | O | O | O | O | O |
| 3 mechanical distributors: 1SE/DE floating + 1SE/DE floating + CF+ 1SE/DE detent | | O | O | O | O | O | O | O |
| 4 mechanical distributors: 1SE/DE floating + 1SE/DE floating + 1SE/DE detent+ CF+ 1SE/DE detent | | O | O | O | O | O | O | O |
| 4 electro-hydraulic distributors (cab): offset and proportional | | O | O | O | O | O | O | O |
| 4 side intakes | | O | O | O | O | O | O | O |
| 6 side intakes | | O | O | O | O | O | O | O |
| Free oil flow | | S | S | S | S | S | S | S |
| Drip collector | | O | O | O | O | O | O | O |
| Vertical mechanical tie rod | | S | S | S | S | S | S | S |
| Vertical hydraulic tie rod with filter | | O | O | O | O | O | O | O |
| Pressure filter for distributors | | S | S | S | S | S | S | S |
| Three-point hitch | | | | | | | | |
| Fixed parallel blocks with rollers (CAT2) | | O | - | O | - | O | - | O |

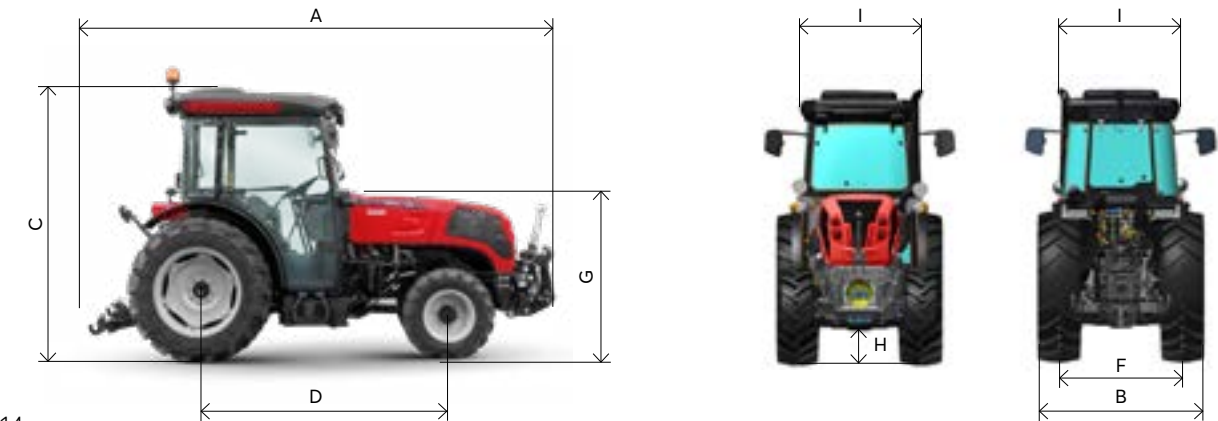
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| | | 2.85 | | 2.95 | | 2.105 | |
|--|---|---------|---------|---------|---------|---------|---------|
| S STANDARD O OPTION | | AV-N | AV-L | AV-N | AV-L | AV-N | AV-L |
| Adjustable, rapid engagement parallel blocks (CAT1 and CAT2) | O | O | O | O | O | O | O |
| Adjustable parallel blocks with rollers (CAT1 and CAT2) | O | O | O | O | O | O | O |
| Rear hitch | | | | | | | |
| Mechanical hitch | S | S | S | S | S | S | S |
| Electronic hitch | O | O | O | O | O | O | O |
| Maximum lifting capacity at the rollers - base | S | 2600 kg | 2600 kg | 2600 kg | 2600 kg | 2600 kg | 2600 kg |
| 3-ton hitch jack | O | - | O | - | O | - | O |
| Deport and electro-hydraulic control of the parallel blocks | O | O | O | O | O | O | O |

Wheels and dimensions

| | | 2.85 | | 2.95 | | 2.105 | |
|----------------------------|----|-------------|-------------|-------------|-------------|-------------|-------------|
| S STANDARD O OPTION | | AV-N | AV-L | AV-N | AV-L | AV-N | AV-L |
| Standard front wheels | S | 240/70R16 | 280/70R18 | 240/70R16 | 280/70R18 | 240/70R16 | 280/70R18 |
| Standard rear wheels | S | 320/85R24 | 380/70R28 | 320/85R24 | 380/70R28 | 320/85R24 | 380/70R28 |
| Other options possible 24" | O | O | O | O | O | O | O |
| Other options possible 28" | O | O | O | O | O | O | O |
| Wheels for transportation | O | O | O | O | O | O | O |
| Dimensions | | | | | | | |
| Length | mm | 3980 | 3980 | 3980 | 3980 | 3980 | 3980 |
| B Overall size (min/max) | mm | 1181 / 1462 | 1436 / 1604 | 1181 / 1462 | 1436 / 1604 | 1181 / 1462 | 1436 / 1604 |
| D Wheelbase | mm | 2178 | 2178 | 2178 | 2178 | 2178 | 2178 |
| H Front and rear clearance | mm | 210 / 230 | 210 / 230 | 210 / 230 | 210 / 230 | 210 / 230 | 210 / 230 |
| C Cab height | mm | 2390 | 2396 | 2390 | 2396 | 2390 | 2396 |
| G Height at hood | mm | 1350 | 1350 | 1400 | 1400 | 1400 | 1400 |
| I Cab width | mm | 1040 | 1040 | 1040 | 1040 | 1040 | 1040 |

CAB



Weights

| | | 2.85 | | 2.95 | | 2.105 | |
|--|----------|------|------|------|------|-------|------|
| S STANDARD O OPTION | | AV-N | AV-L | AV-N | AV-L | AV-N | AV-L |
| Weights | | | | | | | |
| Weight without ballasts (cab tractor, without driver, full tank) | lbs (kg) | 2880 | 2940 | 2880 | 2940 | 2880 | 2940 |
| Maximum permitted weight | lbs (kg) | 4400 | 4400 | 4400 | 4400 | 4400 | 4400 |

SAT:
una squadra al servizio del cliente

ANTONIO CARRARO® ORIGINAL SPARE PARTS AND ASSISTANCE

The AC dealer network utilizes modern equipment and instruments that have been especially designed and built for maintenance work on AC tractors. The technicians at every authorised dealership periodically attend technical training courses at the Parent Company's facilities. Each authorised workshop employs highly qualified staff and provides an extensive range of services in order to offer its Customers maximum peace of mind and total protection. AC dealers can give their Customers information on all the services related to the care of AC tractors.

EXG MAXIMUM PROTECTION:
4 years without worries!

As proof of the reliability of its products, Antonio Carraro, in addition to the standard 24-month warranty, offers warranty options extended **EXG2+2 or EXG 2+3**. The Customer, at the time of purchasing the tractor or within the first 24 months of the vehicle's life (carrying out all the scheduled maintenance services provided for in the AC Use and Maintenance Manual) can sign up for an extension of warranty coverage, choosing the option most suitable for you. The important thing is that you rely on the assistance of the Authorized Workshops of the AC Dealer Network which only use Original AC Spare Parts and certified workforce. Ask your local authorized dealer for further information (www.antoniocarraro.it).





ECCELLENZA ITALIANA

ANTONIO CARRARO SPA
Via Caltana, 24
35011 Campodarsego Padova ITALY
info@antoniocarraro.it
antoniocarraro.it

DEALER:



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