



RENAULT



Ares 500 series

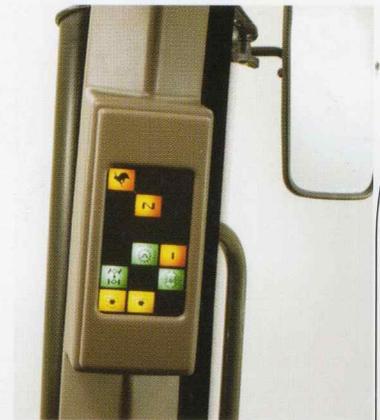
Your comfort comes first

Take the controls of an ARES and enter a new world of driving comfort... with the most spacious cab on the market, ARES' wrap-round glazed area gives you perfect visibility and makes it easier for you to keep control of your work. The 4-point Hydrostable cab suspension provides you with unparalleled comfort. Its control layout, the quality of its finish, its internal environment ...

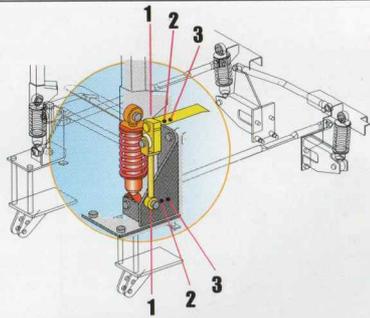
Now you understand what RENAULT comfort is.

Information where you need it

Forward gears, transmission, power take-off ...all the vital information is grouped together on a single display unit fitted into the front right hand cab pillar.



The cab has slender pillars, an impressive glazed area : perfect visibility whichever way you look. All the controls located on the right hand console are within reach and colour coded : ensuring efficient operation. Enjoy car-like levels of comfort in your tractor. You can set the air conditioning or heating to suit your preference. At 1.55 m wide, your ARES cab is the most spacious on the market and its low sound levels will allow you to keep working for long hours without tiring.



Customise your comfort

It takes just a few minutes to adjust the anti-roll bar in your Hydrostable cab. It's 3 possible positions ensure that you will always have a suspension setting appropriate to your working conditions.



PROACTIV, safety at high speeds

Perfectly complementing the Hydrostable cab in terms of comfort, the PROACTIV front axle, with independent suspension units, ensures precise and safe driving conditions at high speeds. For field work at speed, it offers essential protection to both tractor and implements.



The Hydrostable cab, a feature exclusive to RENAULT, represents the very best in agricultural tractor comfort. Wholly suspended on 4 adjustable spring-damper units, it affords protection against jarring and vibration. Whether used for transport purposes or in the field, this exceptional cab safeguards your health and your back. Its technology, the result of RENAULT expertise in truck comfort, is the perfect answer to the stresses of modern agricultural practice.

Wide doors for ease of access and exit.

The cab of your ARES has been designed to allow easy movement in and out. Its doors open wide and the driver's seat swivels left by 20° making it even easier for you to get in or out of the cab. The handrails on each side and the non-slip steps ensure that you can enter and leave the cab in complete safety.



8 SHOCK ABSORBERS

4 on the cab
2 on the front axle*

1 on the linkage
1 on the seat

*with Proactiv front axle

ARES: reliability and strength

With ARES, RENAULT confirms its reputation for reliability and strength. Never has a tractor undergone such stringent testing. RENAULT technicians have spent thousands of hours developing, testing and proving the qualities of the ARES range. With RENAULT, you benefit from a combination of expertise and state-of-the-art technology informed with feedback from farmers.

A wealth of experience

The Hydrostable cab has been tested under extreme conditions. However, don't take our word for it. Just ask one of the 25,000 farmers who have chosen RENAULT's unique suspended cab since the launch of its first version.



All ARES have undergone stringent tests. They are subjected to the most extreme stresses on the test bed and in the field, where experienced farmers subject the tractors to a demanding trial programme. Fierce acceleration and deceleration, transporting heavy implements, difficult terrain, nothing deters ARES. This reliability is your safety, and the toughness of ARES ensures that yours is a cost-effective and durable investment.



Attention to detail

Each unit in your ARES is thoroughly inspected by our quality department. This meticulous approach is also to be found on the assembly lines, at each stage in the customized preparation of the ARES that you have ordered.



Technocentre, architectes Chaix et Morel © G. Fessy

The RENAULT group has one of the most modern research centres in the world. This TECHNOCENTRE is at the heart of the development of all our products. Ergonomics and safety engineers, technicians and specialists all strive to ensure that your RENAULT exceeds your expectations. Today, more than 20,000 ARES are used in thousands of farms throughout Europe.



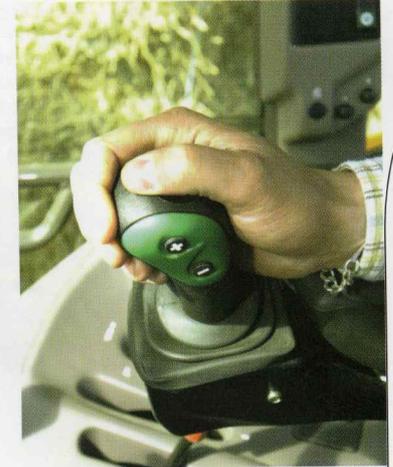
Metadiag diagnostic system: saving time

All tractors in the ARES range are fitted with a dedicated Metadiag electronic diagnostic connector. This allows our after sales department to save a considerable amount of time when called out to you by connecting a computerised diagnostic system directly to your tractor. Reducing your tractor's down time to an absolute minimum, RENAULT helps you to improve your productivity.

Your everyday assistant

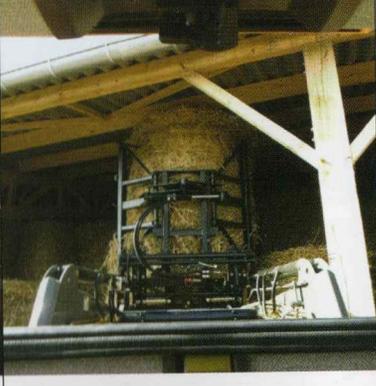
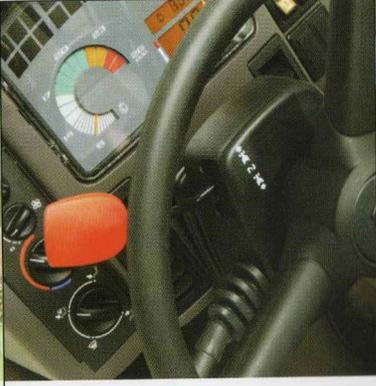
The ARES 500 series are true multipurpose tractors, ideally suited to livestock farms. You will appreciate their exceptional handling as you go about your daily tasks. With the best performing shuttle reverser on the market, the hydraulic power of the Load Sensing circuit and the ELECTROPILOT, your loader's natural partner, you will be working with a real specialist.

ELECTROPILOT, your loader's partner
With ELECTROPILOT, you have an electro-hydraulic cross control joystick fitted into the end of your right armrest. It is positioned to provide a natural driving position, for effortless control, ensuring that you can carry out a complete day's work without feeling tired. That's ergonomics.



The difference will become obvious as soon as you start working. With a 4.10 m turning circle, the 500 series ARES have outstanding handling characteristics and are comfortable in all routine situations. Handling, silage making, bedding down... you can be certain that it will be done efficiently. You won't waste any time, you will be working in total safety.





ELECTROPILOT adapts to all your needs

Use the control unit mounted in the right hand cab pillar to accurately set the output from the 2 electro-hydraulic spool valves, ELECTROPILOT means total control over the progressive changes and over the accuracy of your implements.

A true under-load reverser

The Revershift clutchless shuttle reverser, fitted as standard to all ARES tractors, will reverse the tractor in any of the possible gears (32 forward and 32 reverse with Quadrishift II). No surprises when you operate the reverser. The tractor takes off at the same speed in reverse gear. That's a true reverser!

Good high level visibility

Your ARES is fitted with a big opening roof. When loading, you will always have a good view of your work, even when working at high level, giving increased precision and safety.

The Revershift clutchless shuttle reverser, fitted as standard on all ARES tractors, is a model of flexibility and efficiency. Just a simple gesture provides you with fingertip control of the inverter while keeping your hand on the steering wheel. The progressive direction change is exemplary. Judder-free, Revershift automatically adapts the inversion time to the tractor's speed. The task is carried out quickly and safely.

The powerful hydraulic system with its 2 separate pumps maintains full driving flexibility without interrupting the load at the implements. The Load Sensing circuit allows you to use several spool valves at the same time (eg : a hydraulic motor in continuous mode, hydraulic cylinder and front linkage) and provides accurate flow control to each system. High flow rates are available from relatively low engine speeds (1,500 rpm).



A heavy duty workhorse

Fitted with modern 4 turbo cylinder engines, the ARES 500 have all the familiar RENAULT qualities. Endowed with legendary grip and an excellent power/weight ratio, they have all the attributes of the bigger ARES. Hard working and tough, they absorb loads effortlessly. To control the powerful linkage system capable of lifting 8.5 tonnes, you can select the TCE management system that best meets your requirements.

Excellent torque backup

With the latest reduced pollution Powertech engines, your ARES has enhanced torque backup. You can go through heavy ground without changing gear. The lower rated engine speed means less noise in the cab.



ARES engines absorb loads without reducing engine speed. Even in difficult conditions, full power remains available for implements, especially at the power take off. With full power as soon as you reach 1900 rpm, your ARES is a reliable and cost effective working tool.

Working with ARES means improved productivity and increased output.



engine



Use all your implements

A forward power take off is available as an option. The power take off's clutch is electro-hydraulically controlled. This ensures a smooth start, reducing driveline wear on powered implements.

Completely safe power transmission

The engine's output is efficiently transmitted to the power take off. From your cab, just a single movement is all it takes to select the right speed. The PTO clutch is automatically disengaged when starting up the tractor, or if an implement is overloaded or jammed, ensuring your safety as well as that of the tractor and implement.

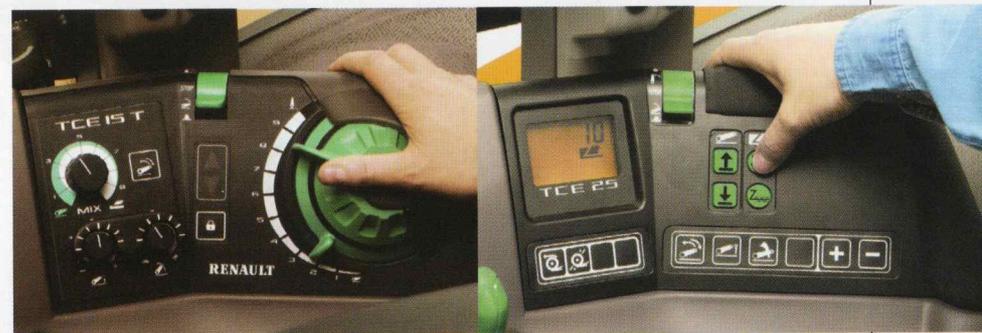


Over half of the weight is forward. With this balance, the four drive wheels always grip the ground, even under the heavy weight of the implements it carries. ARES never rears up and provides you with its full traction capacity.



ARES 566

With its 115 HP, the new ARES 566 is the multipurpose tractor par excellence. It still has all the advantages of a 4-cylinder machine (lightweight, compact, and easy to handle) and offers you the benefits of a 6-cylinder tractor. This is the ideal tractor for heavy grassland work calling for power and in a lightweight package.



Choice of linkage control

With the introduction of the new TCE 15 T, there is now a choice of 3 linkage control systems, giving you more scope to specify a system to suit your needs. The TCE 15 T with its star-wheel position adjustment has been specially designed to meet the requirements of the stock farmer. Two other options are offered, the digital display and push-button control TCE 15, and the TCE 25 that also offers active wheel-slip control for maximum tractive performance.

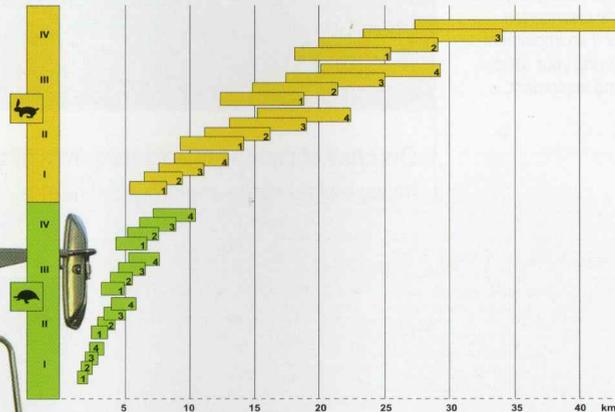
A wide range of transmissions

Working with an ARES allows you to choose between different transmission options. Each user has his own requirements.

Opt for the simplicity of the TWINSHIFT hydraulic two speed splitter, the output of the QUADRISHIFT II second generation four speed splitter, or the tremendous comfort of the new QUADRATIV transmission that automatically manages splitter speed changes depending on the load.

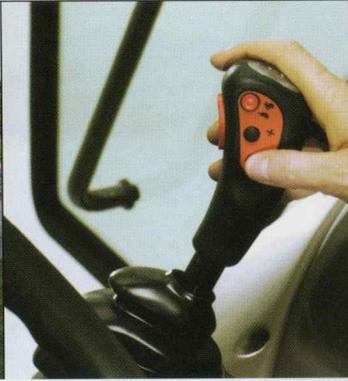
It's the details that count

With duplicated splitter controls on the right hand cab pillar, just above the lift console, you will always remain in control of your work. You only need a minimum of movement to operate both transmission and linkage.



Excellent gear spacing

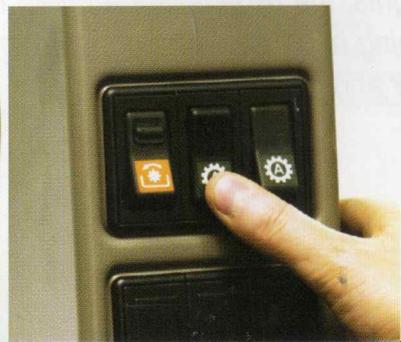
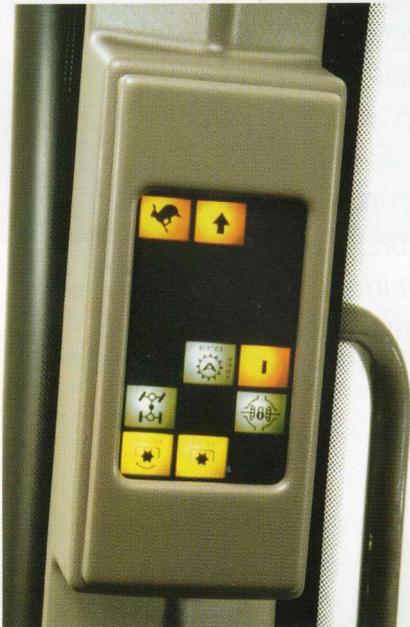
With the four speed splitter, you have 19 gears between 2 and 12 km/hr. The display unit fitted in the front right hand cab pillar always keeps you informed of the gear you are working in. By simply pressing the \oplus and \ominus buttons on the gear shift lever, you can change gear instantly, without declutching. Your ARES responds flexibly, the task proceeds smoothly.



QUADRISHIFT II, the second generation four speed splitter

In transport mode, when you change the synchronised gear, QUADRISHIFT II automatically selects the splitter ratio that best suits the tractor's true speed. You no longer run the risk of having the engine revs drop too low when you are operating at full load and go up a gear, nor of over-revving the engine, when changing down with a trailer or carrying heavy implements.

When sowing or applying treatments, the work must be carried out smoothly to ensure quality and productivity. With the different transmission control options, you can operate the entire transmission from one single lever. Engaging synchronized gears, changing splitter ratio, shift gear range, declutch... The whole transmission is at your finger tips. No matter what the implement or the terrain profile, your speed remain constant and you can be sure of your tractor's performance.



QUADRACTIV, the outstanding comfort of an automatic splitter

With QUADRACTIV, RENAULT has taken transmission control to another level. Available as an option, QUADRACTIV automatically changes the four splitter ratios according to load. The Economy mode is used to save fuel by changing gears at 1700 rpm, the Power mode always ensures that you have maximum power. You concentrate on the implement and let ARES take care of the transmission.

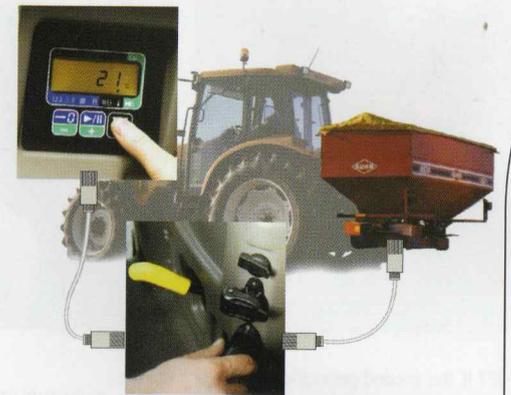
RENAULT : designed for you



ARES talks to your implements

In the cab, coupled to the Infotrac, an ISO connector provides the implements with information generated by the tractor.

With a sprayer or muck spreader, you can ensure that delivery will be proportional to the tractor's progress. There is also a saving to be made when purchasing the implement: there is no longer any need to measure the forward speed at the implement.



With ARES, you have all the advantages. You save time with the completely uncluttered coupling area. The hydraulic couplings, easily accessible and at hand height, are of the "break away" type for quick connection and complete safety. The generous external rear view mirrors, the powerful work lights, the two inside rear view mirrors, everything has been throughout to increase your visibility and working comfort.

**Power take off under control**

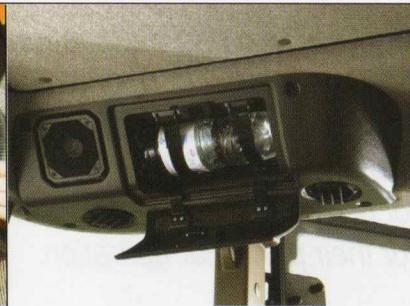
In addition to the instant "punch to stop" type control in the cab, you can instantly disengage the power take off using one of the buttons mounted on either wing. In the event of an emergency, you can act quickly. You no longer need to climb back into the cab to disengage the power take off when carrying out tasks at a standstill (pumping, filling...).

**Inside rear view mirrors for safety**

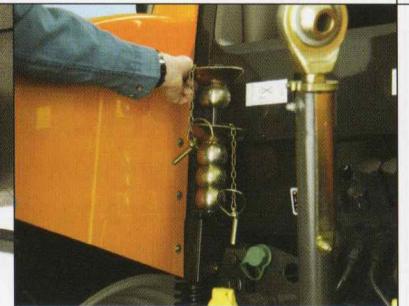
To make manoeuvring easier and to improve your visibility, we have added a generous rear view mirror as well as another on the rear view. You can see better and work better.

**Easy refuelling**

Easily accessible, the tank is at a convenient height, near the left step. It can be filled easily, without any risk of overflowing. Generously sized (170 l), it allows you to work for long hours without having to refuel.

**Another touch of comfort**

With air conditioning, you can work in comfort throughout the year. It also allows you to keep a one and a half litre bottle cool in a compartment designed for this purpose which is easily accessible from your seat.

**Your equipment within easy reach**

The ball joints are stored on a special and very practical bracket at the rear. They are always clean and to hand. This will make your implement changes even more efficient.

**Hitching up in safety**

Buttons located on each of the rear wings can be used to raise the linkage in 10 cm steps. Extremely accessible, overriding cab controls, they guarantee your safety and also that of those around you while you are hitching up.

**Pivoting front mudguards**

To maintain their excellent turning circle, the wings pivot so that the front wheels can reach the full lock position. For maintenance requirements or when opening up the bonnet, the wings pivot easily round their axis.

**Routine maintenance is very simple**

The bonnet does not need to be removed for routine maintenance. By lifting the hinged bonnet nose, you can access the air filter, the radiator and the air conditioning condenser. You save time and your task is made easier.

ARES : an exceptional range

With the ARES range, RENAULT covers all large and medium size farm requirements. The 500 series with its compact 4 cylinders is more naturally suited to livestock operations or tasks calling for a lighter tractor (pasture work, spraying...), whilst the other two series allow all farmers to find a tractor of between 115 and 210 HP, having the right power and functionality for their particular operation.



ARES 600 series



ARES 800 series

The 600 series, with its 6-cylinder engines and features that are ideally suited to average size farms, offers four versions: 120, 130, 140 and 160 HP. They make ideal second tractors on large farms because of their grip, balance and handling qualities.

The 800 series is the top of the ARES range. Designed for use on larger holdings by farmers and contractors seeking high outputs, these tractors come in 3 versions: 165, 185 and 210 HP. These tractors are designed to provide long-term reliability and to work large areas in the least possible time.

Technical specification

	ARES 546 RZ	ARES 556 RZ	ARES 566 RZ
ENGINE			
Maximum power	95 HP	105 HP	115 HP
Rated engine speed	2 200 rpm	2 200 rpm	2 200 rpm
Number of cylinders / aspiration	4 turbo	4 turbo	4 turbo
Capacity	4 525 cm ³	4 525 cm ³	4 525 cm ³
Torque backup	32%	29%	26%
Fuel tank capacity	170 l	170 l	170 l
TRANSMISSION			
QUADRACTIV	.....Automatic shift hydraulic quadrupler 32 FWD / 32 REV gears.....		
Gearbox with creep range	.....Available.....		
REVERSHIFT clutchless shuttle reverser	.....Standard.....		
HYDRAULICS			
Maximum flow rate with open centre Load Sensing	90 l/min	90 l/min	90 l/min
Max pump pressure	200 bars	200 bars	200 bars
Maximum number of spool valves	4	4	4
ELECTROPILOT, (only with L/S hydraulic)	2 electrohydraulic spool valves operated by the joystick on the end of the arm rest + adjustment unit		
LINKAGE			
TCE 15 T electronic linkage control system	.....Starwheel control.....		
TCE 25 electronic linkage control system (optional)	.....Digital display and with control buttons + active wheel slip management.....		
Max linkage capability	8 470 kg	8 470 kg	8 470 kg
Front linkage (2,8 t)	.....Available.....		
POWER TAKE OFF			
540 + 540 Eco + 1000 + 1000 rpm Eco	.....Standard.....		
Front PTO	.....Available.....		
FRONT AXLE			
Turning circle without brakes	4.10 m	4.10 m	4.10 m
PROACTIV axle with independent suspension units	.....Available.....		
DRIVING POSITION			
Cab	.....RZ with Hydrostable suspension and 4 dampers.....		
Display unit (front right hand cab pillar)	.....Forward gears, transmission, ratio, power, economy.....		
INFOTRAC onboard computer + ISO socket	.....Available.....		
DIMENSIONS			
Factory fitted REAR tyres	540/65R34	540/65R38	540/65R38
Overall cab height RZ	2.79 m	2.84 m	2.84 m
Wheelbase	2.49 m	2.49 m	2.49 m
Max overall width FRONT/REAR with basic layout	2.48 m / 2.57 m	2.48 m / 2.57 m	2.48 m / 2.57 m
RZ gross operating weight	5 170 kg	5 330 kg	5470 kg

An entire network at your service

You can always count on RENAULT Agriculture for service and availability. The men and women who make up the RENAULT Agriculture team in our receptions, sales and technical departments, workshops, shops and maintenance departments are all there for you. Our tractors are distributed by hundreds of dealers throughout the world. Your local representative is familiar with your region and your farming practice. Whether it's for maintenance and service or for renewing your fleet of machines, they are at your service all year round.

Maintenance and servicing

RENAULT technicians come to you to maintain and service your tractor. The META system, developed by RENAULT, gives them high performance computerised aids for diagnosis, parts selection or making accurate adjustments to the hydraulics and the engine.

Parts

Your RENAULT tractor is designed to be long lasting and to retain a high resale value. Wearing parts should however be replaced regularly. All original parts are available for 15 years after a model goes out of production. Spare parts are delivered the next day to your dealer by the RENAULT logistics team.

Training

Every year, over 1,200 mechanics and technicians come for technical training or to refresh their knowledge of RENAULT tractors. Our training centres in Evreux (France) and Shipston on Stour (UK) ensures that you are always welcomed by competent experts with the right mechanical, hydraulics, electrical and electronics skills to give you the service you expect.



RENAULT

RENAULT recommends Elf

Visit our websites
www.agricultr.com.au
www.nzag.co.nz

Your dealer