



**RENAULT**



**Ares** 600 series

# Your comfort comes first

Take the controls of an ARES and enter a new world of exceptional 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 ...

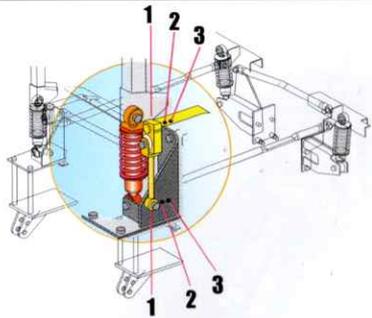
Now you understand what RENAULT comfort is.

## 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 the tractor is 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 agriculture.*



**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 component 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, and technicians 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.

# ***ARES: power at work***

*Equipped with modern 6-cylinder engines, the ARES 600 series has been designed for heavy work. Producing up to 160 HP in the case of the biggest model (ARES 696 RZ), they have exceptional tractive capacity. To control the powerful lift capacity of 8.5 tonnes, you can choose the TCE linkage control system that best meets your requirements.*

## **Excellent torque backup**

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



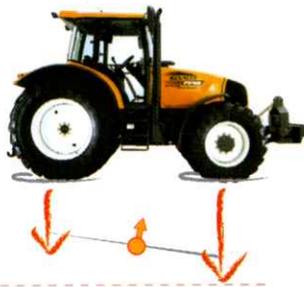
*ARES' engines absorb increased loads without reducing engine speed. Even in difficult conditions, full power remains available for implements, especially at the power take off. With full power as soon as you reach 1800 rpm, your ARES is a reliable and cost effective working tool. Working with ARES means improved productivity and increased output.*





#### 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.



#### An amazing tractive capacity

Your ARES' traction performance comes from its rated power and its ability to transmit all of this power to its wheels. Due to its appropriate and excellent power/weight ratio, ARES sets the benchmark for grip and stability.



*Whether in transport mode or when manoeuvring, the ARES 600 is beautifully balanced, ensuring that you move in total safety, even with the heaviest of implements. The damper incorporated into the linkage system further enhances this safety and your driving comfort.*



#### Choice of linkage control

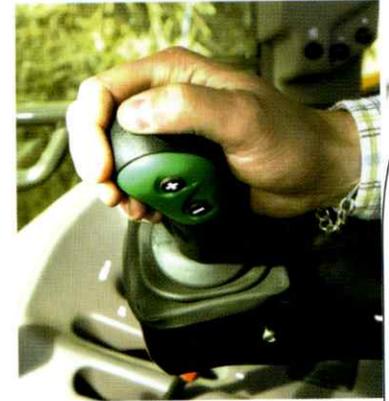
With the introduction of the new TCE 15 T, there is now a choice of 3 linkage control systems, giving you more scope to specify a system to suit your needs. The TCE 15 T with its star-wheel position adjustment is simple and intuitive to operate. With the TCE 15 and TCE 25, you also have the comfort and accuracy of digital display units and push-button controls. In addition, the TCE 25 that also offers active wheel-slip management for maximum tractive performance.

# Efficiency and productivity

*Power is nothing without good handling characteristics. During periods of heavy work, your ARES is always dependable. With power efficiently transmitted to the power take off and the impressive hydraulic output of the Load Sensing circuit, ARES responds to all the stresses of modern farming practice. Combined with outstanding manoeuvrability, these qualities ensure that your ARES 600 keeps on contributing to improved productivity.*

## **ELECTROPILOT, hydraulic power at your fingertips**

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.



*Your ARES 600 is a model of consistent work and efficiency. 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 with a minimum of interference between circuits and provides accurate flow control to each implement. High flow rates are available even at modest engine speeds (1500 rpm).*



**ELECTROPILOT  
adapts to your every need**

Use the adjustment unit fitted into the right hand cab pillar to accurately adjust the output of the two electro hydraulic spool valves. A switch allows you to put one of the spool valves into continuous supply mode, to drive a hydraulic motor, for example.

ELECTROPILOT means total control over the speed of operation and the accuracy of your implements.

**REVERSHIFT  
fingertip declutching**

The clutchless shuttle reverser paddle is used to disengage the transmission without using the clutch pedal. It is simply operated while keeping the hands on the steering wheel. This declutching function is also duplicated by a button on the gearshift lever. With ARES, you can easily change through all the gears while moving without using the clutch pedal.



*The engine's power is efficiently transmitted to the power take off. A simple control in the cab allows you to select your PTO speed. The display unit located in the front right hand cab pillar shows the gear you have selected. 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.*



**Unsurpassed handling characteristics**

The difference will become obvious as soon as you start working. With a 4.53 m turning circle, the ARES 600 series tractors are amongst the most manoeuvrable in their class. They are perfectly happy in all routine situations: manoeuvring in the farmyard, entering and exiting buildings, silage making... You won't waste any time and you will be working in complete safety.

# A wide range of transmissions

Working with an ARES allows you to choose between different transmission options. Each user has their 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 QUADRACTIV 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.



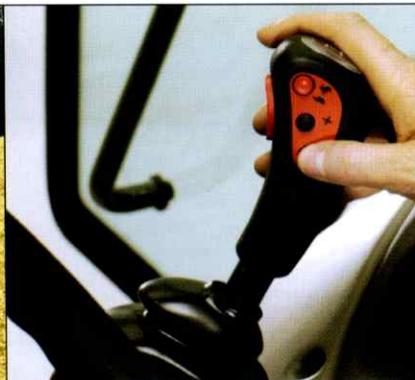
## Excellent gear spacing

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 **+** and **-** buttons on the gear shift lever, you can change gear instantly, without declutching. Your ARES responds flexibly, the task proceeds smoothly.



**A true under-load reverser**

The Revershift clutchless shuttle reverser, fitted as standard to all ARES tractors, is a model of flexibility and efficiency. Its smooth direction changes are exemplary. Judder-free, Revershift automatically adapts the inversion time to the tractor's speed. That's a true reverser!



**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.



*With the different gear box transmission control options, you can operate the entire transmission from one single lever. Engage synchronized gears, change splitter ratio, shift gear range, declutch... The whole transmission system is at your finger tips. Your ARES is easy to use and ensures good performance whatever the situation.*



**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.



# ***ARES: an exceptional range***

*With the ARES range, RENAULT covers all the requirements of the large and medium size farming operations. The 600 series, with its combination of handling characteristics and power, is suited to medium sized holdings or as a second tractor for large scale farming operations, whilst the other two series ensure that all farmers will find a tractor, in the 95 to 210 HP range, with precisely the right power and functions to suit their operation.*



***ARES 500 series***



***ARES 800 series***

*The series 500 tractors, with their 95, 105 and 115 HP 4-cylinder engines, are firm favourites with mixed farmers and livestock breeders.*

*Compact, easy to handle and powerful, they are exceptional for loading, in the field or in transport applications.*

*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 616 RZ	ARES 626 RZ	ARES 636 RZ	ARES 696 RZ
<b>ENGINE</b>				
Maximum power	120 HP	130 HP	140 HP	160 HP
Rated engine speed	2 200 rpm	2 200 rpm	2 200 rpm	2 200 rpm
Number of cylinders / aspiration	6 atmospheric	6 turbo	6 turbo	6 turbo
Capacity	6 788 cm <sup>3</sup>	6 788 cm <sup>3</sup>	6 788 cm <sup>3</sup>	6 788 cm <sup>3</sup>
Torque backup	30%	33%	29%	31%
Fuel tank capacity RZ	210 l	210 l	210 l	210 l
<b>TRANSMISSION</b>				
QUADRACTIV	.....Automatic shift quadrupler with 32 FWD / 32 REV gears.....			
Gearboxes with creep range (Optional)	.....Available.....			
REVERSHIFT clutchless shuttle reverser	.....Standard.....			
<b>HYDRAULICS</b>				
Maximum flow rate with open centre Load Sensing	90 l/min	90 l/min	90 l/min	.....
Maximum flow rate with Load Sensing circuit (Optional)	.....			110 l/min (Standard)
Max pump pressure	200 bars	200 bars	200 bars	200 bars
Max number of spool valves	4	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.....			
<b>LINKAGE</b>				
TCE 15 T electronic linkage control system	.....Starwheel control (Standard).....			
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	8 470 kg
Front linkage (2,8 / 3,8 t)	.....Available.....			
<b>POWER TAKE OFF</b>				
540 + 540 Eco + 1000 + 1000 rpm Eco	Standard	Standard	Standard	No
Front PTO	.....Available.....			
<b>FRONT AXLE</b>				
Turning circle without brakes	4.53 m	4.53 m	4.53 m	4.53 m
PROACTIV axle with independent suspension units	.....Available.....			
<b>DRIVING POSITION</b>				
Cab	.....RZ with Hydrostable suspension and 4 dampers.....			
Display unit (front right hand cab pillar)	.....Forward gears, transmission, power, economy.....			
INFOTRAC onboard computer + ISO socket	.....Available.....			
<b>DIMENSIONS</b>				
Factory fitted REAR tyres	540/65R38	600/65R38	600/65R38	600/65R38
Overall cab height RZ	2.89 m	2.91 m	2.91 m	2.91 m
Wheelbase	2.75 m	2.75 m	2.75 m	2.75 m
Max overall width FRONT/REAR with basic layout	2.48 m / 2.57 m	2.52 m / 2.61 m	2.52 m / 2.61 m	2.56 m / 2.73 m
RZ gross operating weight	5 610 kg	5 960 kg	6 300 kg	6 690 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

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[www.nzag.co.nz](http://www.nzag.co.nz)

Your dealer