

# RUBIN 120-135-150





## THE NEW MASTERPIECE FROM SAME.

SAME. Rely on Us.

Rubin represents the highest standards in design, in performance, and in driver comfort. The fruit of important studies, faithfully reflected in every technical and structural feature: contours, cab, engine, gearshift, hydraulics, power drive systems and easy handling. Innovations that place Rubin ahead of the rest, while ensuring SAME's unequalled reliability, even in the most punishing applications and conditions.

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A totally original, futuristic design born of the creative genius of Giugiaro, to combine function and refinement.

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A proven and reliable engine, with the technological features that ensure optimal use of power and torque.

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A new electronically-controlled gearshift featuring the most advanced PowerShift system currently available: total control of 18 twin-ratio speeds plus 9 creeper speeds at your fingertips.





## QUITE SIMPLY, UNIQUE IN ITS FIELD.

The most modern and reliable electronic drive system, controlled by a minicomputer that automatically selects the speed ratio and diff engagement required by the particular application.

A versatile and powerful hydraulic system, that distributes the right amount of power, right where it's needed.

A standard of personalised comfort that introduces a new dimension to the work routine, where comfort becomes well-being.

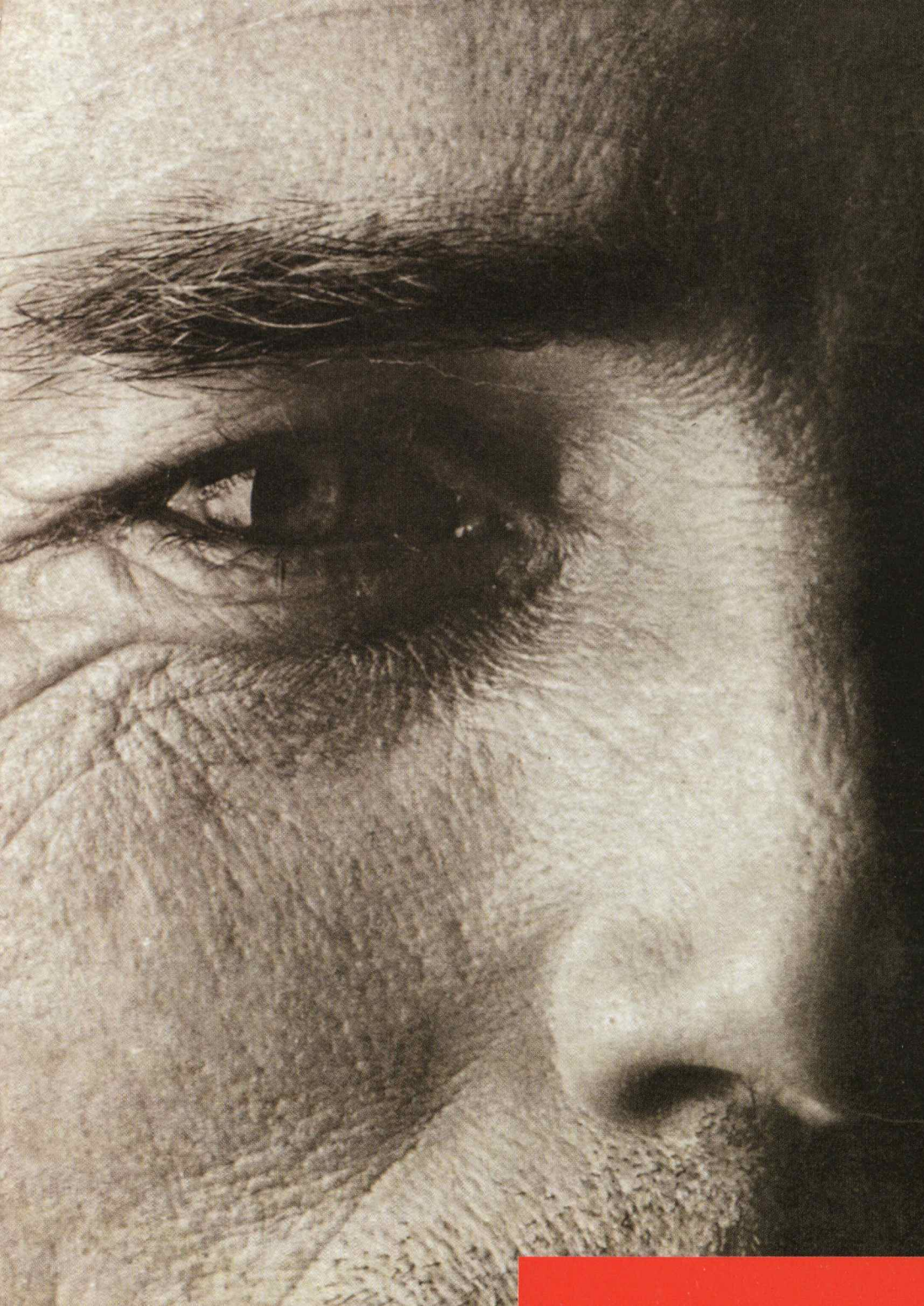
Rubin - breaking new ground in to the future.

Rubin represents the new generation of medium-high power SAME tractors, (120, 135 and 150 HP) the future of technology today.

Innovation that gives an entirely new meaning to the concept of a "tractor". Now conceived as something far more dynamic, comfortable and gratifying than a simple work tool.

A tractor designed to offer not only ideal operating performance, but total, all-round satisfaction.





**ALL NEW**



All it takes is a glance to realise why Rubin is the future. Witness the design: the perfect combination of class and rationality, where Giugiaro's creative genius hallmarks the shape of tomorrow's technology. Smooth, harmonious lines are complemented by dynamic features, such as the tail lights that can only be described as elegantly aggressive. A

## FROM THE GROUND UP.

typical feature of world-famous Italian design, that combines shape and content, elegance and substance, with new lightweight materials, resistant to scratching and the most testing climatic conditions, in eye-catching colours. Rubin has been created with a totally new objective in mind: to go beyond the simple concept of "appearance" with a timeless design, to last as long as the vehicle itself; to go beyond the standard concept of "comfort", offering a new, more thorough degree of well-being to the user. In all senses.

The full satisfaction of driving, controlling and experiencing the very best in the field.





## Comfort and well-being, in all senses.

Rubin, SAME's latest jewel, is designed to guarantee driver comfort in all senses. Starting from the perfect ergonomic

structure of the spacious cab, confirmed then in all the features made to improve interaction between the operator and the tractor, from soundproofing and air-conditioning through to the handy refrigerator/food warmer.

Sheer design quality is the main characteristic of the cab interior, made from "soft touch" anti-reflection material, in the most relaxing tones, with an extremely high sound-absorption capacity. The effect is that of a pleasant sitting room, designed for hours of operator comfort, comparable only to the interior of a high-class automobile.

## More than just a comfortable seat - a made-to-measure armchair.

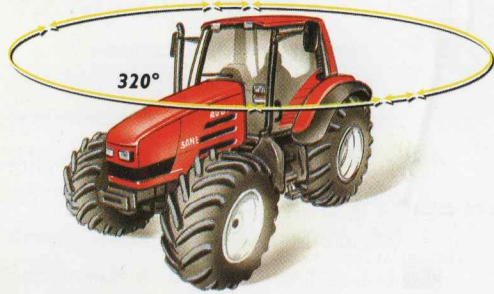
Rubin's vocation for total comfort can be observed in the driving seat, which features a design that sets new standards in ergonomic seating luxury. The seat is equipped with pneumatic suspension that adapts automatically to the weight of the driver, while ensuring

## HARD WORK HAS NEVER BEEN



that the lumbar zone and the backbone are well supported and relaxed. It can also be adjusted in height and position, making it perfect even for the more robust, 20° rotation to the left or right, reduces neck and back fatigue during many tractor operations.

## Limitless visibility.



Thanks to the generous, slightly convex windows, a 320° field of vision opens up over four sides.

Vision is perfect even over critical areas - over front and rear implements and tyres - thanks to the slim cab pillars, the rounded contours of the mudguards and

## Everything in the right place, to keep the situation in hand.

Rubin's new control console is further evidence of the SAME commitment to favouring operator-tractor interaction, now made even easier and comfortable to enhance driver well-being. All major controls are positioned on the right of the driver's seat, and are specially shaped, coloured and arranged according to their function. The entire console can also be adjusted to the needs of each operator, thereby facilitating the speed and precision of control sequences.

The completely adjustable steering



wheel features a series of controls, which the driver can operate without having to take his or her hands off the wheel.

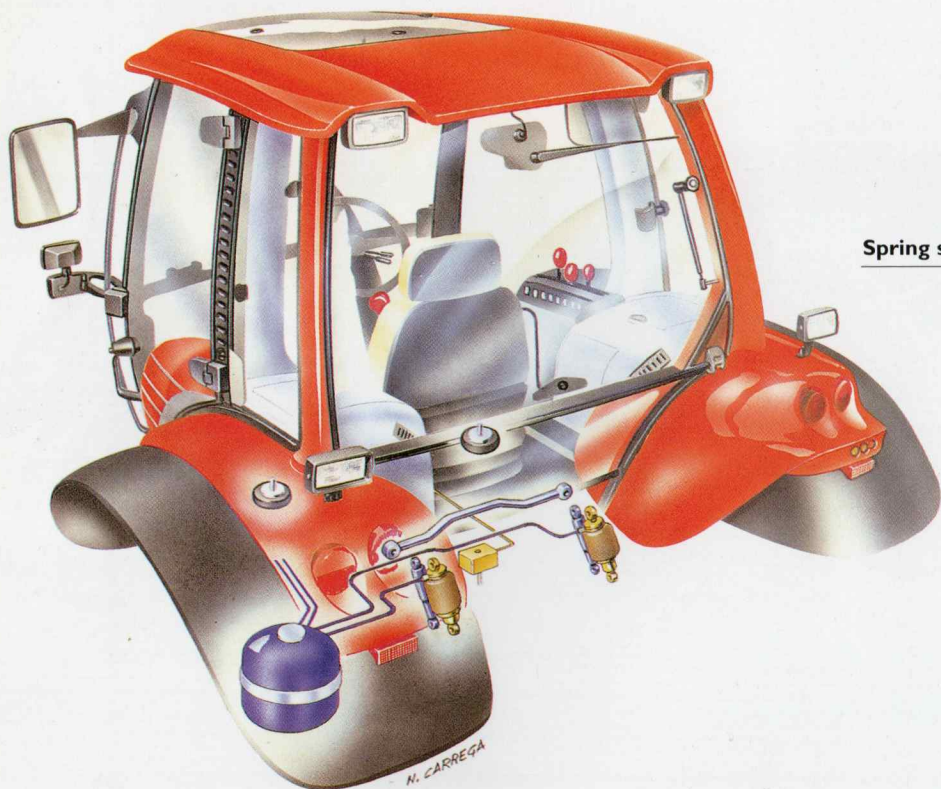
The same rational elegance is a characteristic of the instrument panel, which features easy-to-read analogue and digital instruments.

## SO EASY!

bonnet, interior rear-view mirrors and large, new-design telescopic exterior mirrors.

Just as much care and attention has been paid to catering for night work - with no less than 12 halogen lamps, and a special low intensity internal spot light, to illuminate all tractor controls.





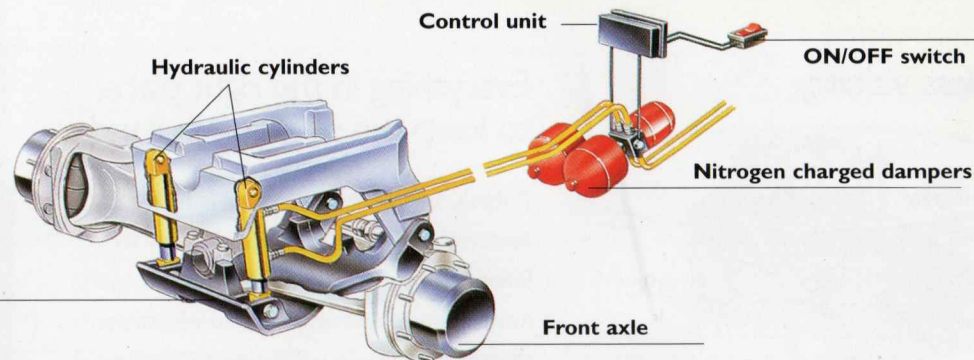
“Suspended module” cab: vibrations are now a thing of the past.

Rubin features an **innovative pneumatic** self-levelling cab suspension system\*, developed by SAME to make the difference between simple comfort and driver well-being. Based on an original system of dampers, anti-roll bars and

silent blocks, the entire tractor cab is suspended at a pre-set level, regardless of the current load conditions. A personalised “cushion of air” automatically adjusts to the best degree of suspension in all operating conditions and all terrain types, with a drastic reduction of vibration felt by the driver.

(\* option)

Spring support

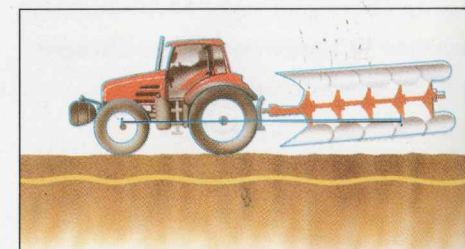
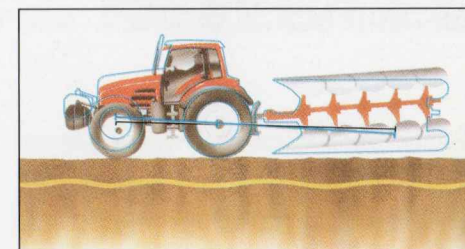


Front axle with electronically-controlled suspension, for the smoothest of rides\*.

A technological breakthrough to enhance driving comfort and operating safety: a sophisticated electronic suspension system that combines the properties of oil and nitrogen, ensuring greater resilience to the front axle in the face of the most demanding weight, load and terrain conditions. Without ever hampering braking efficiency.

This exceptional system guarantees an incredible ride improvement without oscillation or pitching, even with heavy mounted implements. This total comfort is further enhanced by the rear hydraulic lift “active damping” system, which electronically controls the dynamic forces generated by these heavy mounted implements during high speed transport.

## THE PLEASURE



## Climate for comfort, not just for work. (Option)

The technological excellence of the pressurisation, soundproofing and air-conditioning systems featured on the new SAME Rubin range sets new standards in driver comfort. The cab has recorded noise levels down to 72 decibels and comes with a high capacity heating system plus ecological air conditioning as standard equipment. As an option, automatic climate control can be specified, ensuring that cab temperature remains constant regardless of changing ambient temperatures.

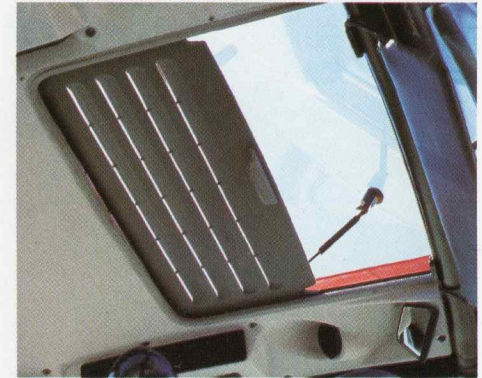
## High class details.

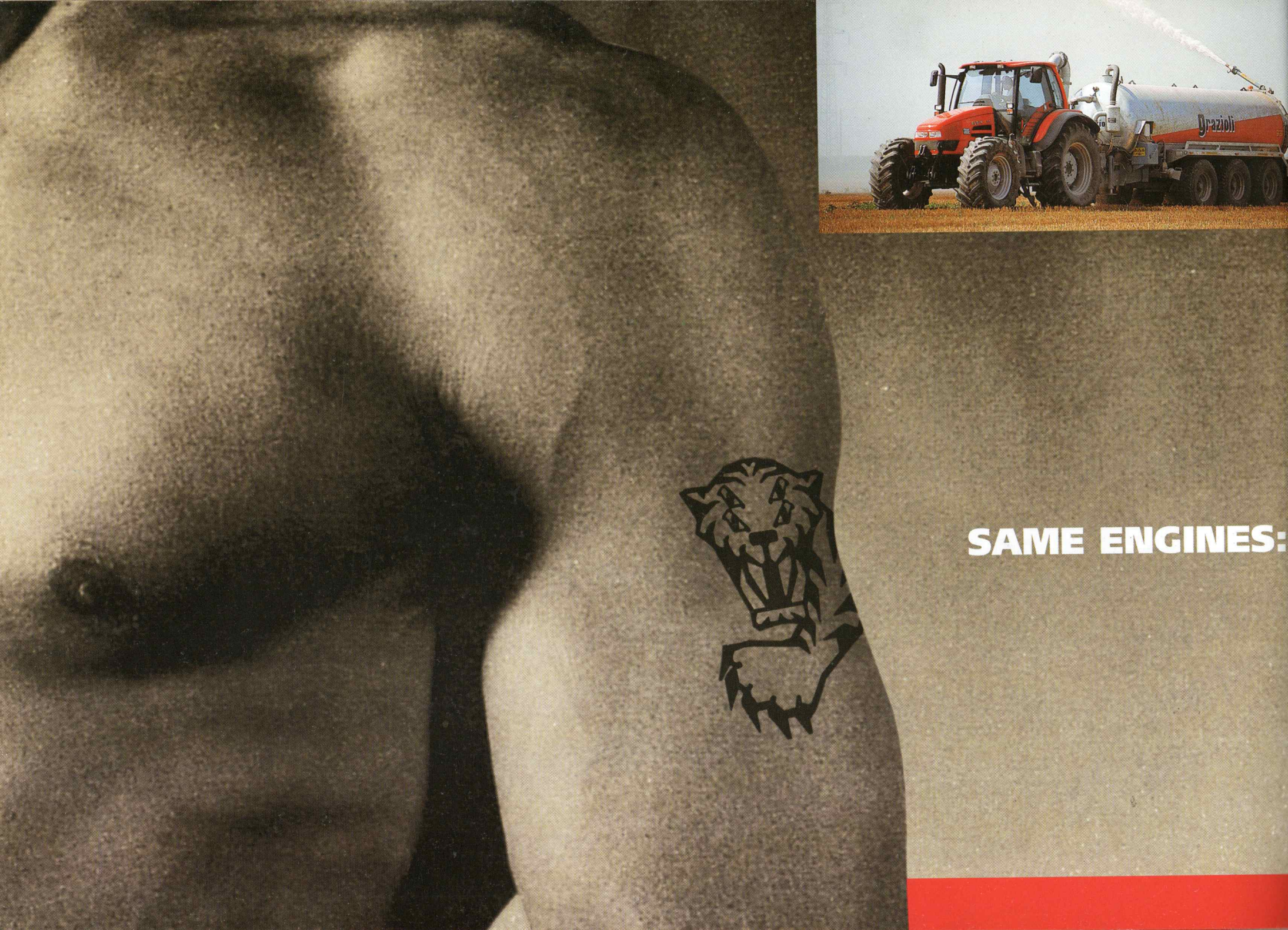
The entire tractor has been designed, logically and intelligently, with the farmer in mind, and based on the experience

that only a company like SAME can boast. Apart from the main structure, just look at the little things that make living with the tractor more acceptable: doors that can be opened from the seat with a simple twist-grip, a single key for doors and ignition, blue tinted glass, sunblinds, a practical refrigerator/food warmer, the power sockets, the clock and even a coat hanger. The little details that enhance driver comfort and well-being even more.



## OF "ACTIVE COMFORT".





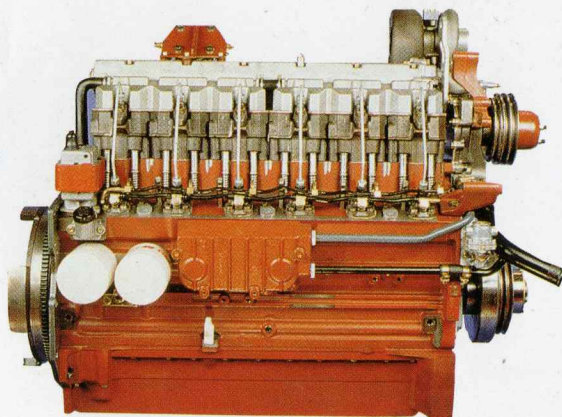
**SAME ENGINES:**



Rubin aims at the best, to give you the most.

The new Rubin air inlet system optimises the air flow in each cylinder from a large air filter featuring dust unloader, original aluminium manifold and special inlet scroll ducts in the engine heads. This design allows a remarkable degree of performance and flexibility even at low engine speeds.

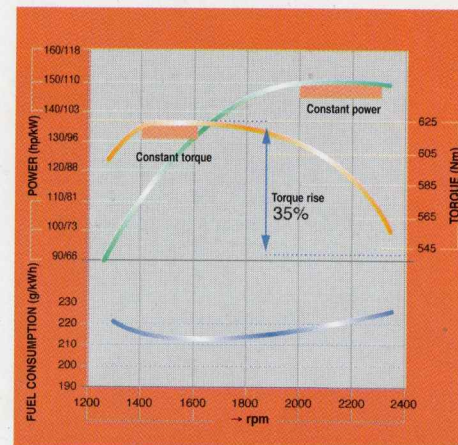
All Rubin engines are turbocharged (and Intercooled in the 150 HP model) improving performance, reducing fuel consumption and minimising emission.



Behind its superb performance lies its constant power and high torque.

The power and torque curves are the key to the secret behind the versatile performance of Ruben engines. Maximum power is at 2350 rpm, but is maintained down to 2000 rpm, thereby ensuring 350 rpm of CONSTANT maximum power. When the load is increased, the amount of power is still high; in fact up to 90% of engine power is already available at 1800 rpm.

A similar situation applies to torque,



which remains constant for over 200 rpm, making for great engine versatility, even with heavy loads at low speeds. This guarantees greater output in all circumstances, and fewer gear changes even when operating with the most demanding implements and machines.

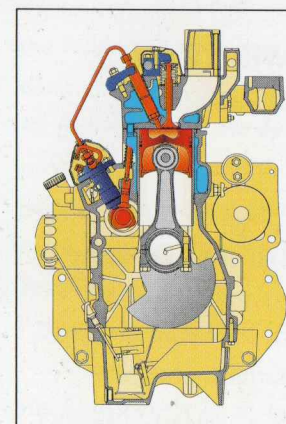
## THE "WORK FORCE" OF THE FUTURE.

Thanks to the totally new mechanical design and the use of selected materials, all Ruben engines give superb performance with SAME's legendary reliability: never has so much power been distributed so smoothly and precisely, with torque curves that make all Ruben models remarkably easy to handle and a real pleasure to drive.

A surprising degree of adaptability that makes this vehicle easy to manage in all

conditions, even the most punishing. Generous engine sizes, which base their power and versatility on important technical innovations, that operating in synergy make up the "work force of the future": more efficient and accessible, to enhance practical operation efficiency while respecting the environment.

The special configuration of the combustion chamber, the inlet air turbulence and the perfect blending with the diesel ensure optimal combustion and "clean" exhaust.





## Rubin's efficient cooling system: dominating the elements.

The entire Rubin range features a liquid/oil cooling system to guarantee maximum efficiency and reliability, whatever the work conditions or season. The twin system ensures precise localised cooling of all parts, to optimise

overall engine performance, safety and durability.

## Fuel injection – just superb

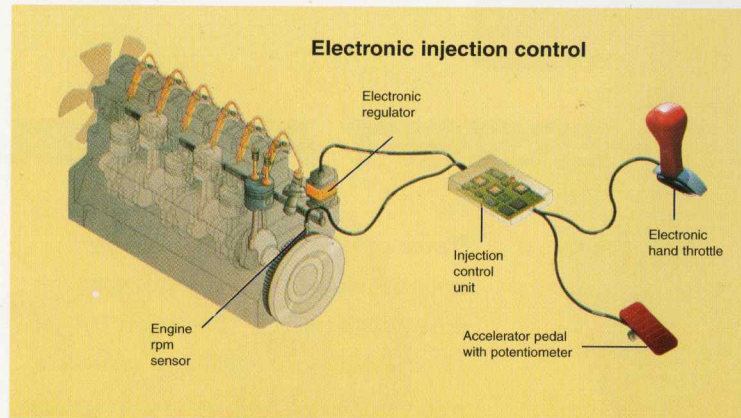
The single immersed injection pumps are directly actuated by the camshaft, thereby eliminating all tolerance play, while high pressure injection ensures even better fuel atomising. The equal length injection

pipes are short to ensure rapid injection in all cylinders. Optimum combustion is further guaranteed by the high inlet air turbulence resulting in a perfect fuel-air mix, made possible by the special combustion chamber design.



## Rubin: making perfection the standard.

Being the specialists in engine electronics, SAME have designed a totally new injection control system that ensures maximum operating efficiency. This exceptional system has been especially adapted to the Rubin range, to ensure ideal performance - power, torque and economy - at all engine speeds, whatever the load or implement application. The "brains" behind the system is the electronic control unit that contains and stores all engine operating parameters (a feature similar to the type mounted on high-tech automobiles), in a split-second able to carry out a thorough diagnostic test of data, and to adjust operating speed to actual application requirements.



Power is supplied by "logic mode", to improve working quality in all conditions. A remarkable degree of smoothness and responsiveness is apparent during acceleration or when increasing power revealing a unique sense of instant response.

The hand throttle not only offers traditional functions, but is also used to

set and memorize manoeuvring and working speeds, which are constantly maintained, even with variable loads.

## Exceptional performance with minimum fuel consumption. And total respect for the environment.

The exclusive SAME injection and combustion systems fitted to the Rubin range combine superb power with a very low fuel consumption figure of around 200 g/kwh.

When combined with a 380 litre tank, the Rubin can keep going through a long working day.

All Rubin engines are designed and constructed in line with European standards governing exhaust emission levels, and can also operate with Biodiesel.

Features that reflect a sense of practical responsibility, for your peace of mind in the future as well.





## THE MOST VERSATILE POWERSHIFT AVAILABLE. YOU'LL NEVER

18 electronically controlled twin-ratio speeds.

This breakthrough places the SAME Rubini range at the head of gearbox technology.

A system designed to revolutionise the PowerShift concept, in terms of operating versatility and handling simplicity. The operator merely selects the required function on the joystick; the electronic power unit automatically engages the necessary speed, depending on the engine operating parameters, without any other movement or clutch operation.

Power progression is incomparably smooth; the electronic control gives the driver the possibility of selecting between 18 progressive speeds in two sequences, with electro-hydraulic shift between 9<sup>th</sup> and 10<sup>th</sup> speeds. And another 9 creeper speeds can also be controlled by the PowerShift joystick.



When “reversing” means a step forward in technology.

The new Rubin transmission with the extra-versatile PowerShift system shows all of its capabilities with a reverse gear for each speed. This electronically controlled function is engaged by a simple press of the button on the joystick.

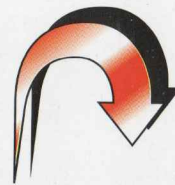
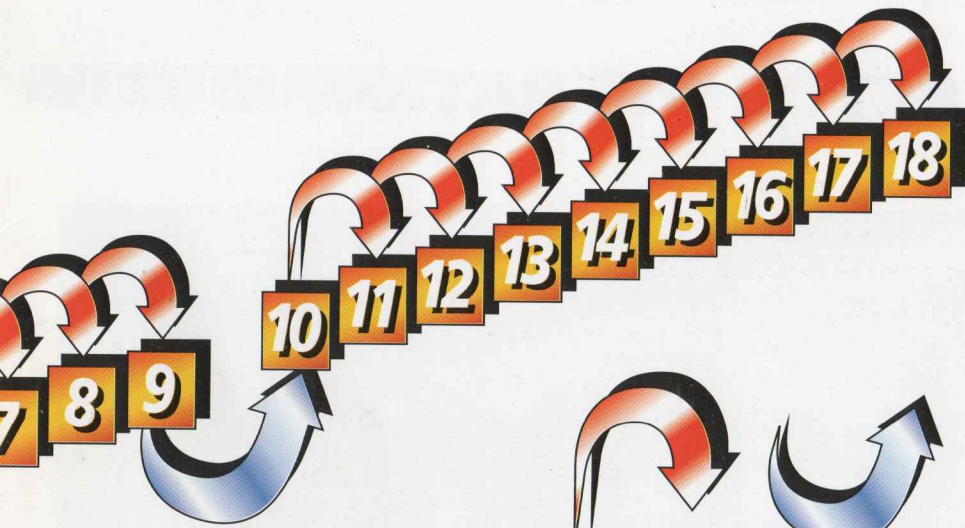
The easy, smooth, clutch-free way to reverse.

The instrument panel display indicates the selected direction, the gear engaged and the programmed gear. And to make speed changes even safer, the joystick also features a “neutral position” button, as well as a “consent” button to avoid unintentional engagement.

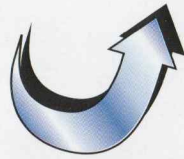
Control at your finger tips.

The Rubin multi-function joystick incorporates memory recall buttons for pre-set engine rpm, selection button for memorized sequences, raising/lowering rocker switch for 3 point linkage as well as all powershift transmission functions. Available at the touch of thumb or finger, the powershift controls allow an operator to select the optimum gear with complete ease.

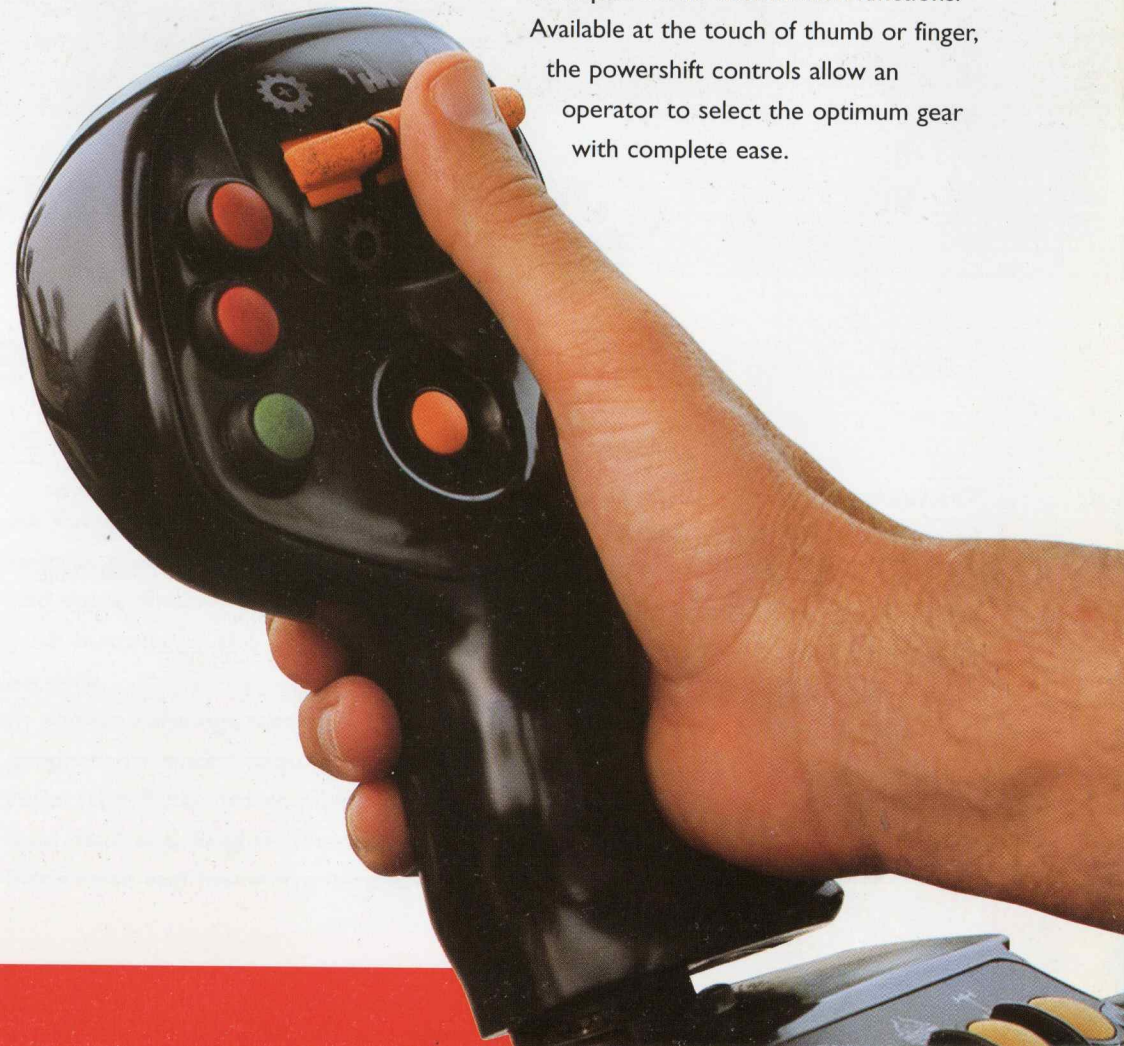
## CHANGE AGAIN.

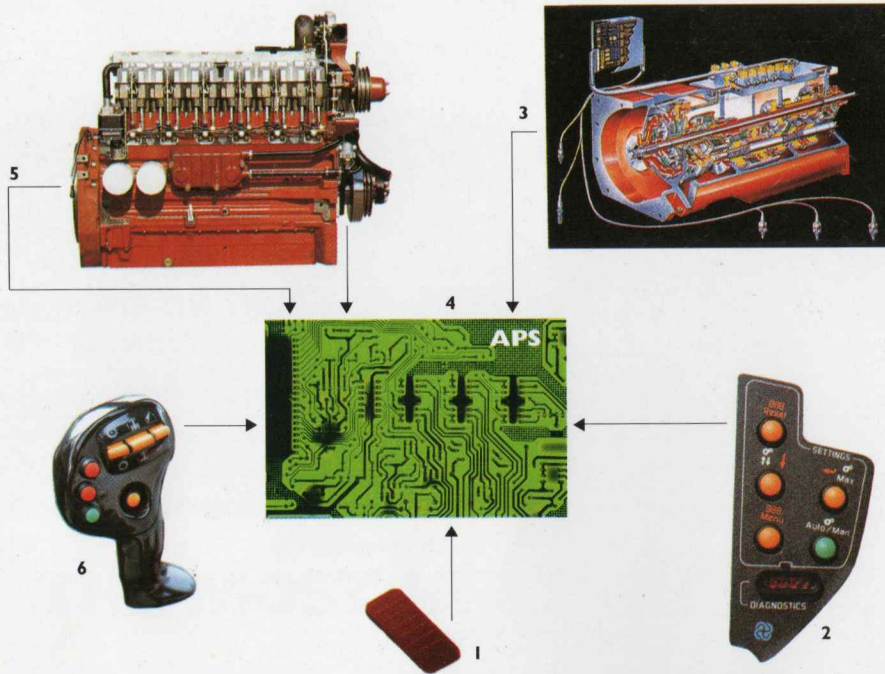


Speed changes under load.



Range change also without having to use the clutch





#### Automatic PowerShift (APS)

- 1 - Accelerator pedal with potentiometer.
- 2 - Operating mode selection: "Performance", "Economical" or "Manual".
- 3 - Automatic PowerShift.
- 4 - Automatic PowerShift electronic unit.
- 5 - Engine control unit for load sensing and available power measurement.
- 6 - Console and multifunction joystick for drive control and programming.



## WORRY-FREE TRACTOR OPERATION IS NOW

The innovative Rubin drive system can be complemented by an automatic gearshift; the driver no longer has to select the required working speed. With the Automatic PowerShift (APS)\*, a control unit selects and engages the optimum gear for each application, depending on the load and the engine

speed, without the possibility of error. APS electronic intelligence rapidly responds to even the most demanding power requirements.



(\* option)



## **AUTOMATIC.**

How electronics reduce stress and fuel consumption.

Using the APS system means concentrating on the job in hand, with the peace of mind that the engine is working at optimum speed. The rapid yet smooth adjustment of operating speed to real conditions improves overall engine performance, as well as reducing operator stress and tractor fuel consumption.

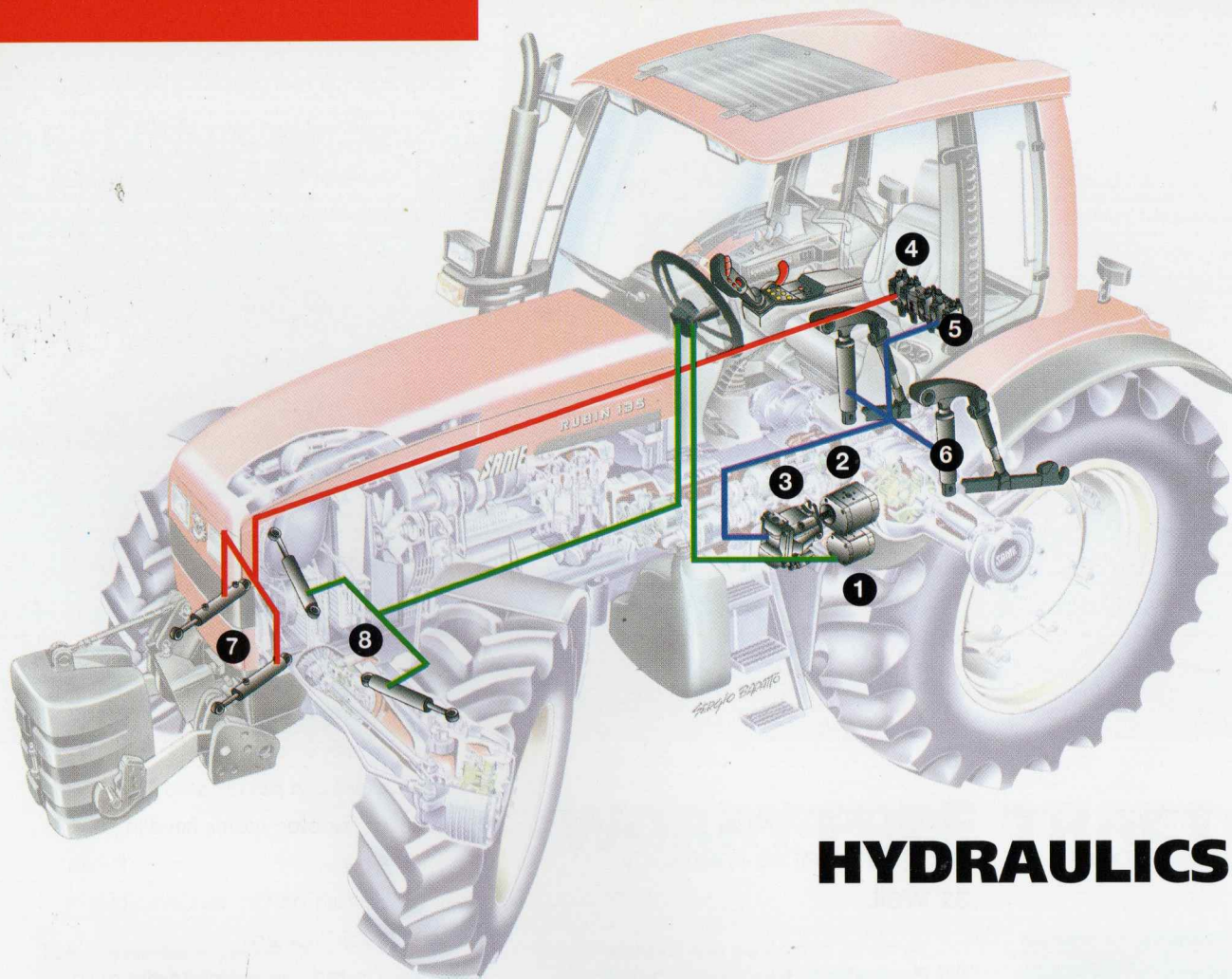
Total control, and programmable memory as well.

**All PowerShift functions, including reverse gears, are easy to program and store directly by means of the push-buttons on the control joystick.**

**In addition the operator can now programme entire sequences of repetitive functions required at the field headland. Engine deceleration, hitch raise and lower, implement**

**rotation and forward/reverse gearchanges. This can be recalled at the touch of a button. The APS system can also be used to set the maximum working gear, and to store the most suitable speeds for each type of terrain and application.**





#### Hydraulic system

- Hydraulic circuit for hydrostatic steering
- Hydraulic circuit for rear lift and auxiliary spool valves
- Hydraulic circuit for front lift

- 1 - Hydrostatic steering hydraulic pump
- 2 - Fixed-capacity load pump
- 3 - Variable displacement pump
- 4 - Eight-way auxiliary spool valve
- 5 - Electronic lift spool valve
- 6 - Auxiliary cylinders
- 7 - Front lift cylinders
- 8 - Steering cylinders

The Rubín hydraulic system confirms and highlights the extraordinary operating efficiency, versatility and reliability of this totally new range of tractors. The “heart” of the system is the optional selection between a fixed-flow open-centre hydraulic circuit, recommended for less sophisticated requirements, and the closed-centre variable-flow circuit, which optimises lift operation in all load conditions, even the most demanding. With an oil flow capacity of 103 l/min and a Load Sensing piston pump with variable

## HYDRAULICS – THE POWER TO LIFT

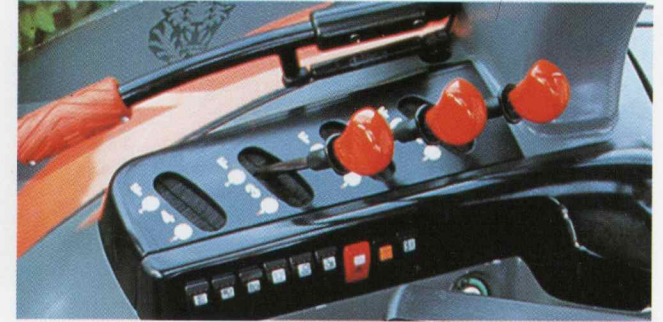
displacement, this powerful and dynamic circuit is capable of actuating 4 double-acting control valves (up to 8 ways) with flow control to each spool valve. Matchless versatility, unprecedented performance.

An abundance of power, and the intelligence to deliver it where it's needed.

The Rubin "closed centre" hydraulic circuit system continually adjusts to application requirements while the pump delivers exactly the amount of oil needed to keep the pressure level constant. Hydraulic power is maintained without loss, components are less subject to wear (especially the pump), but above all an

## YOU OUT OF PROBLEMS.

exceptional responsiveness to controls is guaranteed; reaction speed is virtually immediate.



### Spool valve control.

Each element in the Rubin range is designed to enhance operating performance, and that's why auxiliary spool valve controls are angled towards the driver, with lighter lever control and a lock for each lever position. Two spool valves (4 way) can be actuated by a cross-lever, for even easier handling. Another spool valve is controlled by an ON/OFF switch on the console allowing programmable control. Witness the rational design of the push-pull quick-coupling hydraulic connectors, to prevent oil spillage, even when coupling pipes under pressure. Coupling and uncoupling are simple and the rear of the tractor is kept clean.



Radar-assisted electronic lift:  
greater precision than ever  
before.

All models in the Rubin range can be supplied with the new radar-assisted electronic lift, which automatically and precisely adjusts the position of the implement according to the settings made by the operator. The continuously-operating system is highly sensitive, even to minimum load variations, and can detect and regulate the slip percentages required. Absolute precision and responsiveness combine to ensure total working efficiency. The hydraulic system has a lifting capacity of 7,000 kg, which can be increased to 8,600 kg by means of additional lift rams. The 3-point linkage features quick-hitch link ends and optional hydraulic tie-rod adjustment. The simple and immediately-clear controls to adjust the lift settings to different terrain are grouped on a multifunction console, and can be covered by the operator armrest when not in use.



**THE BEST IN ELECTRONICS,**





## NOW AVAILABLE TO ALL.

### Performance monitor: your complete on-board computer system.

An advanced interactive electronic system, perfectly positioned on the instrument panel aside other operating controls, interfaces between the driver and the tractor. The monitor displays all operating and production data, and can be used to modify parameters as required.

To simplify operations (especially repetitive ones), the computer can also store and recall in order up to 8 operation sequences - an exceptionally beneficial function available for all manner of implements and a wide range of applications.

### Exclusive SAME front linkage: agile and dynamic, and with a 4 tonne lift.

Mounted without brackets, this compact linkage is integrated into the tractor structure, without ever affecting steering efficiency.

The standard front support is designed for subsequent linkage mounting, the lift arms can be folded, while the nitrogen shock absorber assists transport operations even more. The linkage is fitted with double-acting lift cylinders and 4 quick couplings, and has a lifting capacity of 4,000 kg. An electronic position control version for precise and versatile handling of implements on all terrain types is also available. A 600 kg weight can be mounted or removed at the driver's discretion - no extra weight



to carry when it's not needed.

The front PTO, completely independent of the rear PTO, is electro-hydraulically engaged by simply pressing a button. All engine power is immediately available, for easier operation of machines with high power requirements.





## **IMPECCABLE DESIGN - IDEAL OPERATING CAPACITY.**

Such a range of choices, of elements and features that, in logic interaction, optimise the overall control and operative performance of the tractor, making Rubin a proposition that is as advanced as it is reliable. Solutions that underscore SAME's commitment to each dynamic factor, considering Rubin an essential farming partner. The seriousness, the attention to detail, the concern regarding work effectiveness and in that of the operator, Rubin is a real farming jewel, one to rely on. Because it's SAME.



K<sub>9</sub> 600



## Electronic four-wheel drive auto-control.

SAME original technology, made from high-quality components to ensure Rubin's performance even with the heaviest loads, to facilitate handling even in the most trying conditions. The advanced SBA electronic system

automatically engages drive and locks the diffs, depending on speed and turning angle parameters.

Regardless of operating conditions, the system is able to guarantee high power transmission as well as maximum safety and performance, thanks to optimum wheel adherence and the elimination of wheel slip.



### TRANSPORT IN THE FIELD.

At turning angles greater than  $5^\circ$  and speeds above 10 km/h, the diff-locks are released to ensure maximum safety. The diffs can also be released by actuating the brakes.



### TURNING MANOEUVRES.

At turning angles greater than  $20^\circ$ , the diff-locks are automatically released to allow quick safe turns.



### ROAD TRANSPORT

At speeds greater than 15 km/h, the diff-locks are released and the front wheel drive disengaged to reduce front tyre wear.



## Exceptional turning angle.

The Rubin has a turning angle of 55°, optional special articulated and adjustable front mudguards are available, while the hydrostatic power steering with independent hydraulic circuit guarantees smooth, safe handling at all engine speeds.





## Rapid hook-up with the tractor "brain".

The innovative CAN-BUS electronic unit control system sets new standards in tractor-implement interfacing, based on information and an integrated control facility. Thanks to this system, the Rubin operative nerve centre is ideally concentrated in one area - in the rear compartment of the right control panel - to ensure optimal management and connection with electronic units.

CAN-BUS technology marks the beginning of a new era in "self-testing" systems, affording more rapid and logic-based interfacing with Rubin's electronic intelligence, which can now perform an immediate check-up of current attachment status and download all operational data.

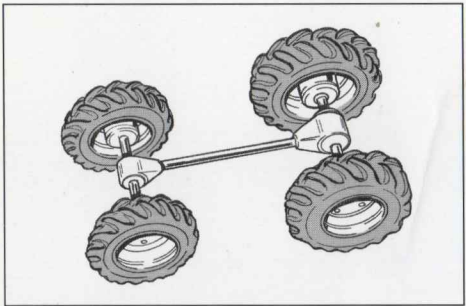
The system can be monitored from a single screen ("Plug and Play"), the same as for other equipment and machinery. CAN-BUS is today the technological basis for truly modern precision farming: rational and precise. The new, indispensable system confirming once again that Rubin is already part of the future.

## Powerful braking in all conditions.

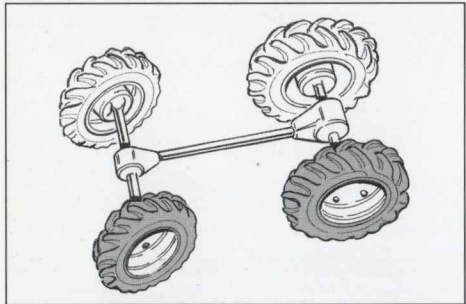
The exclusive SAME hydrostatic braking system, with its oil-immersed disc brakes on all 4 wheels, guarantees braking proportional to the pedal pressure, allowing the driver to account for each driving and working condition. The SAME braking system also features the innovative isolating valve, for even greater braking control.



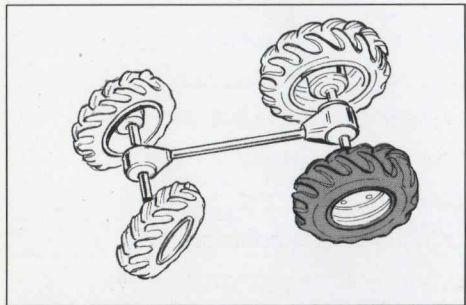
On the right of the driving position, a 25A DIN socket for electronic connection of implements is available, as well as an ISO 11786 socket for transmitting data to tractor attachments (e.g. PTO speed, forward speed etc.).



Braking on all 4 wheels for transport, transfer and work applications on sloping terrain.



Braking on the 2 inner wheels, to absolutely minimise tractor turning radius in tight spaces and manoeuvring time.



Braking on the rear inner wheel, to minimise the tractor turning radius (and reduce soil movement) on ploughed ground.



## Maintenance: reduced and simplified.

Minimal and simplified maintenance are a hallmark of the SAME Rubin range. All parts subject to periodic maintenance are easily accessed, whilst the bonnet now opens up fully at the touch of a button.

This allows superb access to the engine bay and so facilitates inspection and servicing.

The gearbox radiator can be removed for more thorough cleaning.

The on-board computer stores the maintenance schedule in its memory and, in relation to effective tractor use, displays exactly when, how and where maintenance is required.

Rubin's structural design and technological features substantially reduce maintenance requirements of all assemblies to a record minimum, ensuring your peace of mind and real operating economy.



# Technical Data

	RUBIN 120	RUBIN 135	RUBIN 150
<b>ENGINE</b>			
SAME	1000.6 W.T.	1000.6 W.T.	1000.6 W.T.I.
N° of cylinders/Displacement (n°/cc)	6/6000	6/6000	6/6000
Type	Turbo	Turbo	Turbo/Intercooler
Cooling	Water/Oil	Water/Oil	Water/Oil
Visco-fan	●	●	●
Max constant power (kW/hp)	88/120	99/135	110/150
Max. constant power range (rpm)	2000-2350	2000-2350	2000-2350
Max. constant torque (Nm)	450	485	625
Max. constant torque range (rpm)	1400/1600	1400/1600	1400/1600
Torque rise %	35	35	35
Air cleaner with dust extractor	●	●	●
Electronic rpm control	●	●	●
Under-bonnet silencer with cab mounted exhaust	●	●	●
Fuel tank capacity (l)	230 (380)	230 (380)	380
<b>TRANSMISSION</b>			
Oil-immersed disc clutch, hydraulic control	●	●	●
Power Shift with electronic control: 18 gears over two ranges, electrohydraulic operation Super Reduction: 9 gears	●	●	●
Power Shift. Electrohydraulic reverser for all gears	●	●	●
AUTOMATIC POWER SHIFT	○	○	○
Forced lubrication with oil cooler	●	●	●
PTO Clutch-oil cooled multiple wet disc. Electro-Hydraulic actuation	●	●	●
540/1000 rpm rear PTO	●	●	●
540 ECO/1000 rpm rear PTO	○	○	○
1000 rpm front PTO, with electrohydraulic engagement	○	○	○
<b>BRAKES AND STEERING</b>			
4 Wheel oil-immersed disc brakes hydraulic actuation	●	●	●
Hydraulic trailer braking	○(*)	○(*)	●
Hydrostatic reactive steering. Column tilts and telescopes	●	●	●
Steering angle 55°	●	●	●
<b>FRONT AXLE</b>			
Axle with hydraulic suspension	○	○	○
Electro-hydraulic 4WD + Differential lock engagement	●	●	●
SBA: automatic management of front wheel drive and differentials	●	●	●
<b>HYDRAULIC SYSTEM</b>			
Radar-assisted electronic rear lift	●(#)	●(#)	●(#)
Max. lifting capacity without/ with supplementary cylinders (kg)	7000/8600	7000/8600	-/8600
Hydraulic r/h lift rod and top link	○	○	○
Stabilisers with oscillation lock	●	●	●
Hydraulic system: tandem pump with fixed displacement (l/min)	73	73	73
Auxiliary spool valves with flow control on 1 spool (n° ways)	8(#)	8(#)	8(#)
"Load Sensing" hydraulic system: variable displacement pump (l/min)	103	103	103
Auxiliary spool valves for "Load Sensing" system with 4 flow regulators (n° ways)	8(#)	8(#)	8(#)
Front lift with ballast and retractable linkage.	○	○	○
Maximum lifting capacity: 4000 kg	○	○	○

● = Standard    ○ = Optional    (\*) Standard in UK    (#) Optional in UK



SPECIALISED LUBRICATION



	RUBIN 120	RUBIN 135	RUBIN 150		
<b>DRIVING POSITION</b>					
One-piece cab on silent block mountings with "High Visibility" roof	●	●	●		
Digital/Analogue dashboard and PERFORMANCE MONITOR	●	●	●		
Heating and air conditioning	●	●	●		
Driver's seat with pneumatic suspension	●	●	●		
10 Work lights + Rear wiper	●	●	●		
<b>TYRES</b>					
420/70 R 28 front	○	—	—		
420/70 R 30 front	○	○	○		
540/65 R 26 front	○	—	—		
420/70 R 30 front	○	—	—		
540/65 R 26 front	○	—	—		
540/65 R 28 front	—	○	—		
540/65 R 30 front	—	○	○		
480/70 R 30 front	—	○	○		
580/70 R 38 rear	○	●	●		
Steering front fenders	○	●	●		
<b>WEIGHTS AND DIMENSIONS (with 20.8 R 38 rear tyres)</b>					
			520 / 70 R 38		
Maximum length without links/with links (mm)	4320/4670				
Width min/max (mm)	2450/2860				
Overall height to hood/cab (mm)	1560/2880				
Ground clearance (mm)	520				
Whellbase (mm)	2750				
Min/max front track (mm)	1820/2560				
Min/max rear track (mm)	1930/2350				
Min turning radius without brakes (mm)	4800				
Weight including cab (kg)	6100				
<b>SPEED RANGE</b> Ground speed in km/h at 2350 rpm engine speed with 520/70 R 38 tyres (18.4 R 38)					
<b>18 FWD + 18 REV with electronic control</b>	<b>FWD</b>	<b>REV</b>	<b>SuperReduction</b>	<b>FWD</b>	<b>REV</b>
1°	2,39	2,54	1 SR	0,55	0,58
2°	2,89	3,06	2 SR	0,66	0,70
3°	3,48	3,69	3 SR	0,80	0,85
4°	4,12	4,37	4 SR	0,95	1,00
5°	4,97	5,27	5 SR	1,14	1,21
6°	5,98	6,34	6 SR	1,37	1,46
7°	7,13	7,56	7 SR	1,64	1,74
8°	8,60	9,12	8 SR	1,98	2,10
10°	9,05	9,59	9 SR	2,38	2,52
9°	10,35	10,98			
11°	10,92	11,59			
12°	13,14	13,93			
13°	15,56	16,50			
14°	18,77	19,91			
15°	22,63	24,00			
16°	26,91	28,54			
17°	32,58	34,55			
18°	39,06	40,00			