

Krypton³

80 V | 90 F | 100 F | 110 SIX



**New Krypton³ range.
Strength and comfort in complete safety**





Innovative in appearance and performance, easy to use and particularly comfortable, the new SAME Krypton³ crawlers are ready to take on any soil conditions or operating application, be it arable or specialist cultivation, level ground or hillside.

Modern styling with smooth rounded contours and low profile improves forward visibility and reduces the possibility of crop damage. Furthermore, with their low centre of gravity SAME Krypton³ models are designed for safe operation even when negotiating steep slopes.



The Krypton³ range includes 3 versions, characterized by specialised engineering techniques that ensure their adaptability to different uses:

Krypton³ 110 SIX

Designed to give maximum performance in the difficult conditions on hillsides and sloping terrain. The wheel base of 1850 mm and innovative undercarriage with 6 heavy duty track rollers ensure greater stability and increased drawbar pulling power.



3 different versions, a single superiority

Krypton³ F

Krypton³ F models are designed primarily for specialist inter-row cultivation, with their compact structure, low-slung driving position, and narrow track chains keeping the overall width of the machine to within 1460 mm. But these are general purpose tractors too, built for strength and can be equipped with wider tracks when required.



KRYPTON³ V

The all-round compact design of KRYPTON³V tractors makes them highly manoeuvrable in all operations, even when working in very tough conditions.



Optimum power, unparalleled comfort

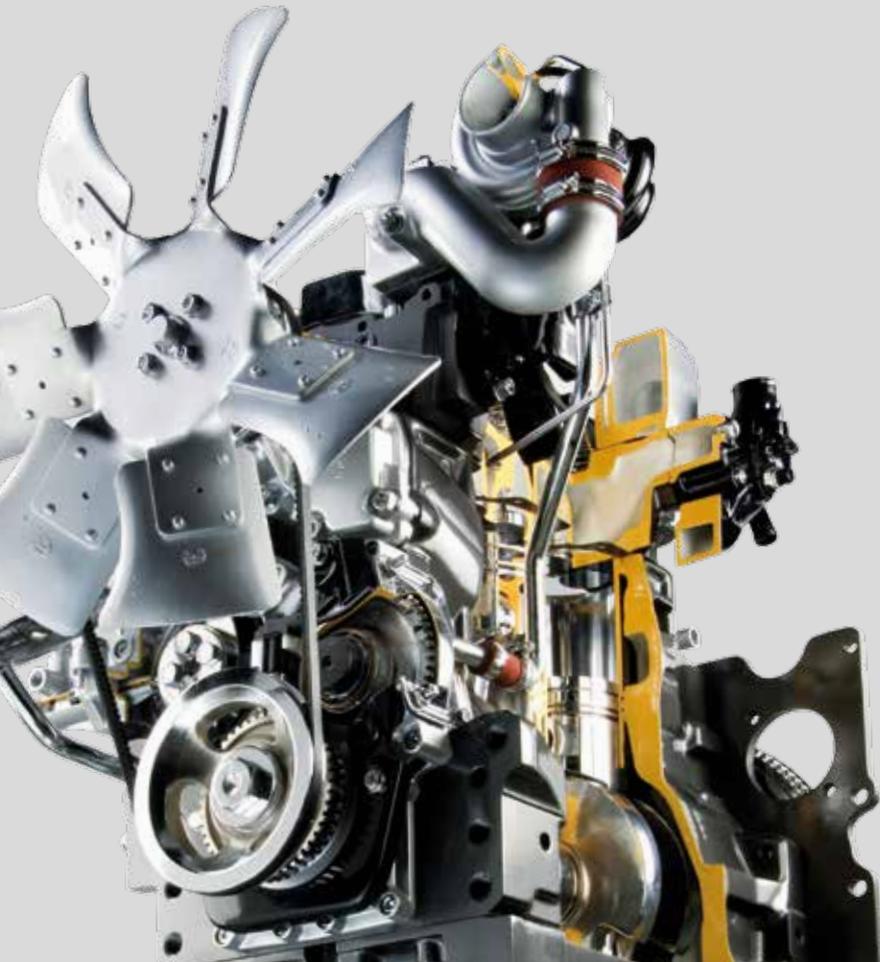
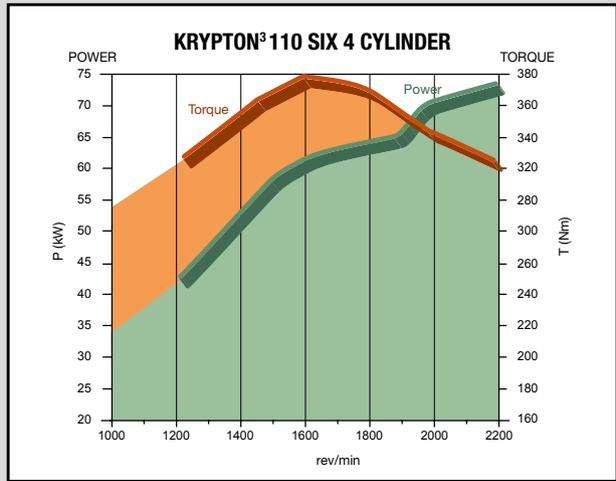
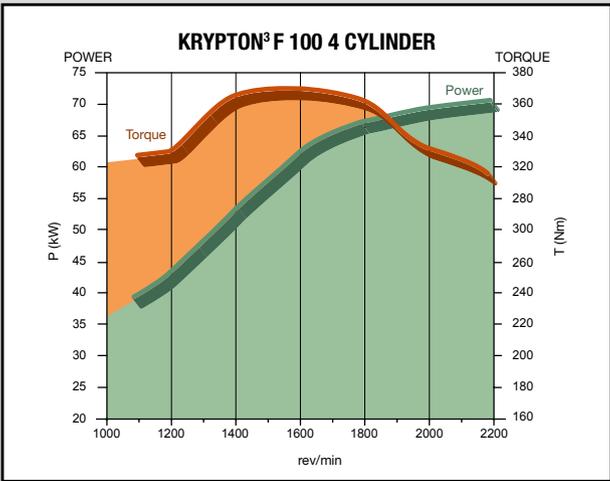
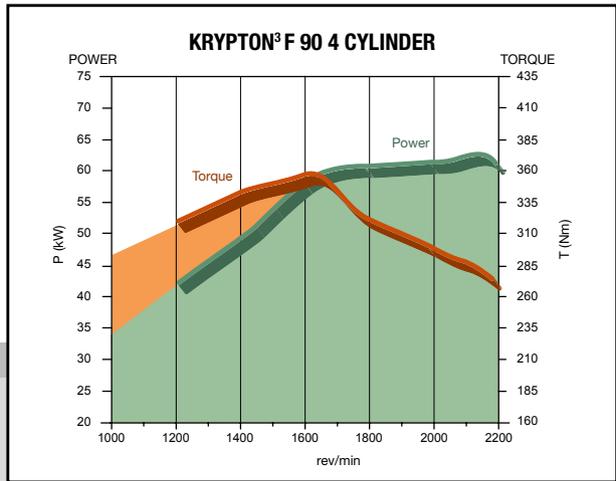
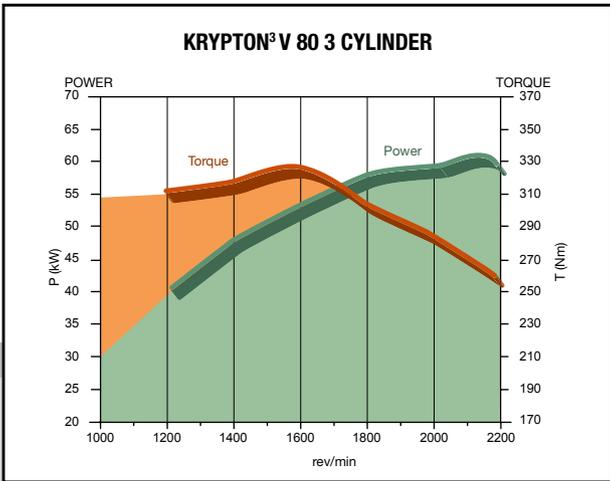
New EURO 3 engines: the perfect combination of power and low emissions

Krypton³ crawlers are powered by new 1000 series water-cooled engines in 3 or 4 cylinder versions, with turbo and intercooler, built to Euro 3 standards and

featuring a neat, modern, functional design. These engine specifications translate into high levels of performance, complemented by a high structural strength achieved through the design of cylinder blocks that incorporate stiffening ribs and tappet rod guides fashioned directly in the casting.

A stiffer crankcase brings multiple advantages: the tractor is able to take on the toughest of duties, and engine noise is also reduced, bringing significant benefits in terms of operator comfort.





**New water-cooled
Euro 3 engines,
1000 cc, 3 or 4
cylinders,
turbo, intercooler.**

High pressure fuel injection and electronic engine management. The best of SDF technology



**Fuel consumption
down, efficiency up**

Electronic engine management

Optimum comfort levels and productivity are delivered consistently by the Krypton³ engine, thanks to its modern electronic management system, which always guarantees an instant response and a more reliable P.T.O. speed control. All engine operating parameters are monitored constantly by dedicated

sensors and optimised by means of injection system control.

Besides optimum fuel metering, the electronic engine management system ensures stable and consistent performance, with swift, direct and exact response to the different travel and load conditions encountered.



Optimized energy consumption

The exclusive SDF fuel injection system — unique, and among the most technologically advanced on the market — features the use of an individual injection pump for each cylinder. The SDF system guarantees a high operating pressure (1400 bar) and instant injection, which is governed by a load-responsive electronic control unit, optimizing performance and fuel consumption. The operator can also save a chosen engine speed at the touch of a button, which will be maintained constant by the control unit, even under changing load conditions, for a reliable and uniform work rate.

A special feature of the Krypton³ 110 SIX is the VISCOSTATIC cooling fan, which regulates the flow of cooling air according to the actual need, further improving engine efficiency with power consumption savings of up to 4 hp and a consequent reduction in fuel consumption.



SDF engines: 100% Biodiesel

Thanks to their unique design features and quality materials, the engines of Krypton³ crawlers are not just extremely functional but also totally compatible with biodiesel, allowing blend ratios of up to 100% (biodiesel to EN 14214:2003 specifications). Biodiesel typically has a higher viscosity than other engine fuels and is chemically more aggressive, but SDF engines are equipped with a special fuel injection system utilizing wet pumps — one to each injector — and a fuel feed circuit with components manufactured from special materials, and consequently able to run on these new fuels without difficulty.





A transmission capable of adapting to any type of use

A transmission to cover every need

For maximum all-round capability, Krypton³ SIX and Krypton³ F machines are specified with a 16+16 speed mechanical transmission, available both with underdrive and with a creeper range for ultra low speed applications (minimum speed 0.61 km/h).

A synchronized shuttle ensures that manoeuvres will always be swift and smooth.

Two transmission options are offered for Krypton³ V crawlers: 8+8 speeds or 12+8 speeds.

A heavy-duty main clutch (13" diameter on the arable model) complements the mechanical strength of the trans-

mission and is provided with a cooler that will keep the oil at a constant temperature, especially when operating under heavy traction forces.

These are features that enable SAME Krypton³ crawlers to deliver top performance even when taking on the heaviest duties.

Steering clutches: manoeuvres are fast and effortless

SAME Krypton³ crawlers are equipped with oil-immersed steering clutches and brakes that will ensure maximum safety even in the most hostile working conditions. Both these units operate progressively and independently on each track, controlled by a pair of low-effort levers with hydraulic servo-

assist incorporated conveniently into the instrument panel.

Steering and braking manoeuvres are simple and precise: when the lever is pulled to half-travel, it will activate the corresponding clutch, and beyond this point, the brakes come into operation as well. The brakes can also be operated mechanically, using the pedals.

Safety is absolute, accompanied by simplicity of use and minimal maintenance.

Ground speed in km/h

Krypton³ 110 SIX gear range



Krypton³ F gear range



Krypton³ V gear range





Different PTO options to suit all kinds of implements

To enable operation with implements of every description, Krypton³ machines offer a choice of two rear PTO speed options: 540/540 Eco or 540/540 Eco/1000.

The PTO clutch on Krypton³ 110 SIX and Krypton³ F models is an oil-immersed multi-disc hydraulic type, operated electrohydraulically by push-button for soft engagement. This is a feature found normally on big-horsepower wheeled tractors and will guarantee

optimum reliability and durability when using the PTO, even for even heavy duty applications.

In addition, the speed selection gears are cut with helical teeth, for greater efficiency and smooth, noiseless operation.

And to emphasize the versatility of SAME crawlers still further, the PTO output shaft is also interchangeable.





Krypton³
Maximum reliability
with any implement





Hydraulic system: split in 2 to guarantee constant power and performance

Two separate circuits for total efficiency

The hydraulic system of Krypton³ crawlers incorporates two separate circuits and a dual pump: a main pump serving the lift and auxiliary spool valves, and a secondary pump serving the steering clutches, brakes, PTO and transmission lube system — especially important when the tractor is operating on steep slopes.

With this type of system, power is always evenly distributed, and hydraulically operated implements are unaffected by the demands of the vehicle hydraulics.

For example, the steering clutches stay light to the touch and quick to respond even when the implement needs to be lifted on the linkage during the course of manoeuvres.

Efficiency is always high, whatever the working conditions.

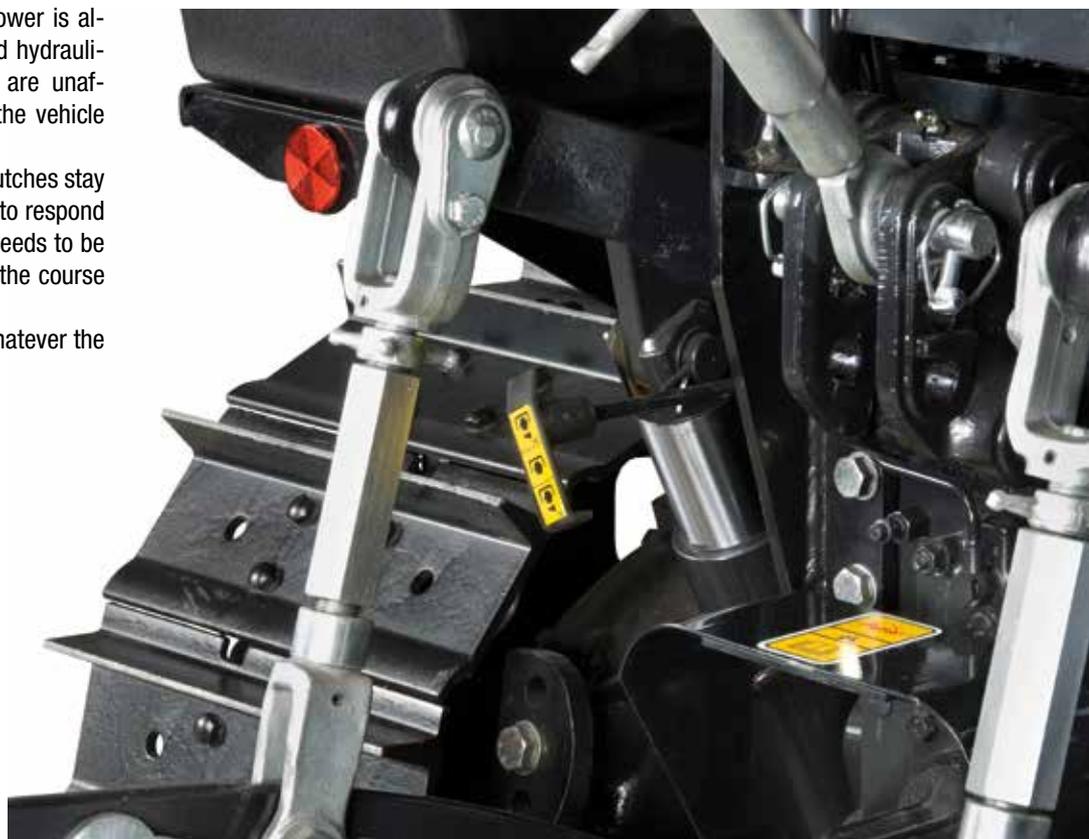
Auxiliary spool valves

Krypton³ SIX crawlers are equipped with 3 double acting spool valves or, optionally, with 5 double acting valves and a total of 10 external ports, to which hydraulically operated implements can be connected. Changeovers from one implement to another will always be quick and easy, as the external ports are designed to accept push-pull quick couplers that

can be connected and disconnected in seconds, even with the oil lines under pressure.

Krypton³ F models can also be equipped with duplicate ports on the forward right hand side, for greater convenience when coupling mid and front mounted implements.

This is particularly useful when operating a pruner attachment, vine shoot cutter, post driver or other implements com-





monly used in specialist cultivation. The mechanically-controlled rear lift has draft, position, mixed and float control functions and all versions have a generous lifting capacity of 3000 kg, more than enough to meet the all operating requirements for a machine in this category. The Krypton³ V, is also available in a “Heavy duty” version, specially designed to cope with exceptionally heavy

implements requiring plenty of tractive power. At work, adjustable draft control and lift arm lowering speed complete the specifications of a crawler supplying a superior class of performance and safety. The innovative undercarriage design with 6 track rollers and a 1850 mm wheelbase render the Krypton³ 110 SIX the ideal crawler for all tasks where trac-

tive power and stability are paramount. The track rollers are of the flanged long-life type, designed to withstand high axial loads. The longer wheelbase and greater number of track plates ensures the Krypton³ 110 SIX makes a larger footprint and reduces soil compaction.



High level comfort and safety.

SAME Krypton³ tractors are genuinely exclusive — remarkably so, for crawlers. In effect, the driving position is designed to offer comfort levels similar to those of a wheeled tractor, completely isolated from sources of vibration.

To achieve this, the platform of the Krypton³ is mounted on four silent block bushes to absorb vibration, while the driving seat (available with a choice of air or mechanical suspension) is very comfortable.

Comfort is also enhanced considerably by the layout of the controls: these are grouped together by functionality on the instrument panel and the right hand console, conveniently positioned and leaving plenty of room for the operator. The instrument panel has an anti-reflective screen and well defined warning lights, to remain clearly visible and easy to read in all light conditions. Simple and convenient management of the tractor functions is also guaranteed



by the modulating brake and transmission clutch pedals, and steering and PTO clutches with hydraulic servo. Work will always be effortless, and your productivity benefits as a result.

Also available on request for the Krypton³ SIX, are lubricated track chains, which not only reduce power demand and the effects of wear, but also attenuate noise considerably.

All these features combine to create a comfortable, stress-free work environment, which in turn means that productivity increases.

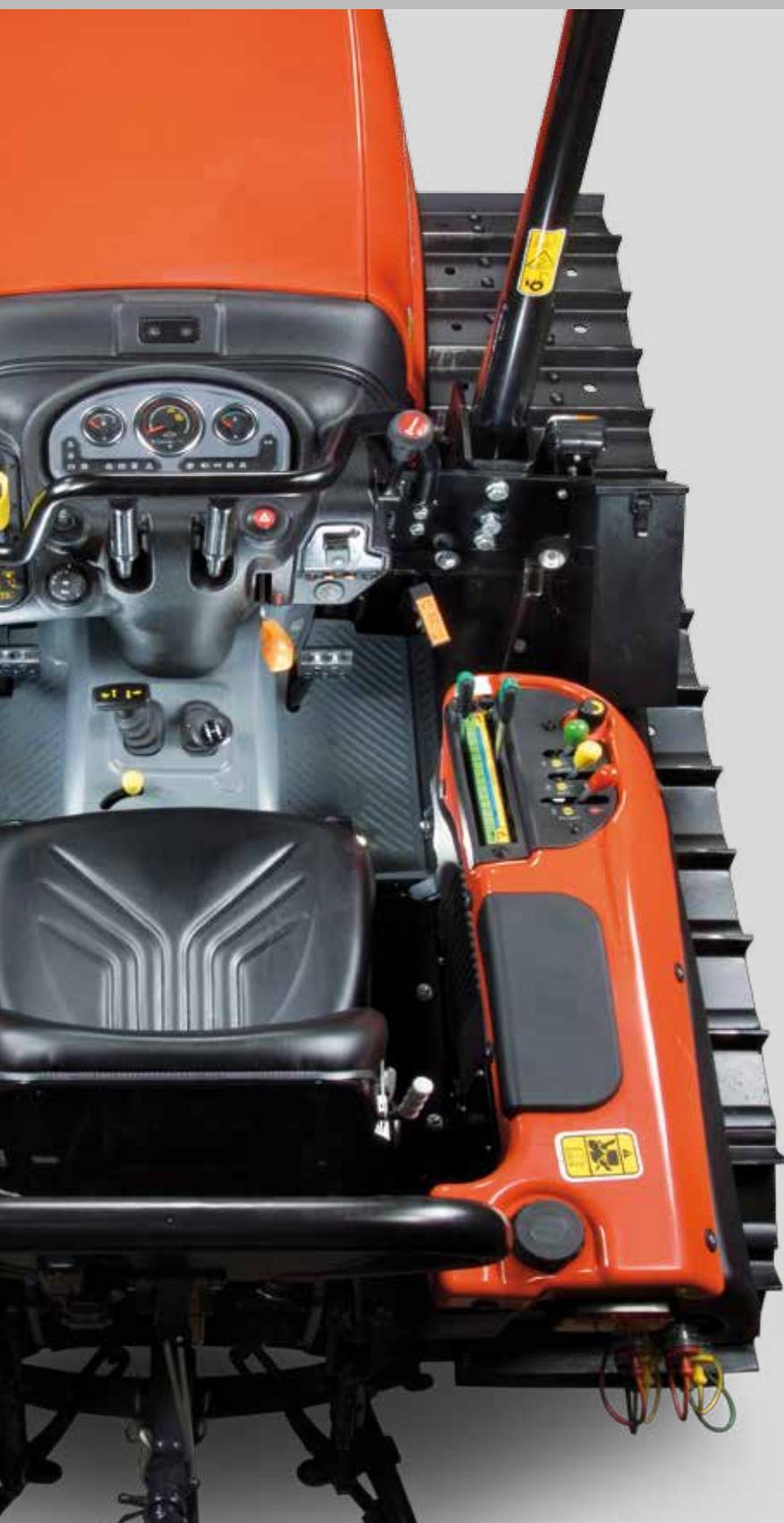
Total safety

Particularly close attention is given to the aspect of safety on SAME Krypton³ machines, as reflected in the introduction of a new crossbar and stronger track tension springs, which help to eliminate any risk of the track chains jumping off.

As a result, the stability of the tractor is guaranteed even when working on steep gradients.

In addition, the driving position is protected by a fixed four post ROPS on Krypton³ SIX models, and by a folding roll bar on Krypton³ F and V versions.





Simple to maintain

Maintenance has never been simpler

Krypton³ SIX tractors are simple to drive, and just as simple to maintain and service: the one-piece tip-up hood is lifted with minimal effort and held in the raised position by a special hinge mechanism.

This gives easy and immediate access to the engine and to the cooling pack, which are equipped with a fly screen that traps dust and other foreign matter, making general maintenance much simpler.

On the right hand side are the engine service points, all easily accessible, whilst the steering clutches incorporate a self-adjusting take-up mechanism and are virtually maintenance-free. SAME design engineers have been able to specify long oil change intervals (300 hours for engine oil, 1200 hours for transmission oil), which will save the operator a considerable amount of time.

TECHNICAL DATA

KRYPTON³ V 80

		C	N	M	L
ENGINE		SDF TIER III			
Cylinders / Displacement	n°/cm ³	3/3000			
Air intake		Turbo/Intercooler			
Maximum power, Homologated (2000/25/EC)	(HP/kW)	82/60			
Maximum power (2000/25/EC)	(HP/kW)	82/60			
Rated engine speed	rpm	2200			
Maximum torque	Nm	310			
Revs at maximum torque	rpm	1600			
Torque rise	%	15.8			
Cooling		liquid-oil			
Engine control (governor)		electronic			
Air cleaner		dry type with safety element and dust unloader			
Silencer under hood		with side exhaust under footstep			
Fuel tank capacity	litres	73			

TRACKS					
Track chains		dry			
Rollers and track idlers		oil-immersed			
Bottom rollers	n°	4			5
Top rollers	n°		1		
Cleats per track	n°	36	33		35
Track guards		sheet steel			
Cleat width	mm	280	310	310/360 opt	360
Footprint	cm ²	7252	8370		11340
Ballast		Heavy duty front ballast support 2+2 side weights, 40 kg each			

DIMENSIONS AND WEIGHTS					
Length	mm	3065			
Width	mm	1180	1279	1434	1602
Max. height to hood	mm	1212		1230	
Ground clearance	mm	232		250	
Wheelbase	mm	1410	1430		1575
Track width	mm	900	969	1124	1242
Weight with ROPS	kg	3160	3330	3476	3490

TRANSMISSION	
Gearshift clutch	dry single-plate
4-speed box, mechanical shift with 2 ranges (min. speed: 1.57 km/h)	8 FWD+8 REV
4-speed box, mechanical shift with 2 ranges +creeper (min. speed: 0.52 km/h)	12 FWD + 8 REV
Shuttle	mechanical

HYDRAULIC LIFT	
Rear lift	mechanical with draft, position and mix control
Maximum lifting capacity	kg 2500
Pump flow rate	l/min. 42 + 18 with dual pump
Auxiliary spool valves	n° ports 6/8 with flow divider
Heavy Duty three point linkage (lift links and top link)	with fixed hitch ends

DRIVING POSITION	
Rollover protective structure	folding
Instrumentation	analogue
Driving seat	mechanically adjustable with seat belt
Shift levers	central
Shuttle lever	to side of instrument panel

REAR PTO	
Clutch	dry single-plate
Speeds	rpm 540-540 ECO-1000
Operation	mechanical

BRAKES AND STEERING	
Steering clutches	oil-immersed multi-disc with hydraulic servo
Steering brakes	oil-immersed band type with hydraulic servo
Brake clutch operation	sequential, via levers under the instrument panel
Service brakes	pedal operated

8 FWD + 8 REV TRANSMISSION - SPEEDS IN KM/H AT 2350 RPM							
1L	2L	3L	4L	1 H	2 H	3 H	4 H
1.51	2.01	2.46	3.67	4.61	6.12	7.50	11.20

N.B.: REVERSE SPEEDS ARE LOWER THAN THE CORRESPONDING FORWARD SPEEDS

12 FWD + 8 REV TRANSMISSION - SPEEDS IN KM/H AT 2350 RPM											
1 CRP	2 CRP	3 CRP	4 CRP	1 L	2 L	3 L	4 L	1 H	2 H	3 H	4 H
0.52	0.69	0.84	1.25	1.51	2.01	2.46	3.67	4.61	6.12	7.50	11.20

The above specifications refer to the highest available equipment package. For standard equipment and options, refer to the current price list and ask your local dealer for details.

Technical data and pictures are guideline only. Committed to delivering a product more and more in line with your needs, SAME reserves the right to update the specifications of its machines at any time without notice.

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TECHNICAL DATA

	Version	KRYPTON ³ F 90			KRYPTON ³ F 100		
		C	N	M	N	M	M
ENGINE		SDF TIER III			SDF TIER III		
Cylinders / Displacement	n°/cm³	4/4000			4/4000		
Air intake		Turbo/Intercooler			Turbo/Intercooler		
Maximum power, Homologated (2000/25/EC)	(HP/kW)	85/62.5			95/70		
Maximum power (2000/25/EC)	(HP/kW)	85/62.5			95/70		
Rated engine speed	rpm	2200			2200		
Maximum torque	Nm	345			373		
Revs at maximum torque	rpm	1600			1600		
Torque rise	%	27.2			23.1		
Cooling		liquid-oil			liquid-oil		
Engine control (governor)		electronic			electronic		
Air cleaner		dry type with safety element and dust unloader			dry type with safety element and dust unloader		
Silencer under hood		with side exhaust under footstep			with side exhaust under footstep		
Fuel tank capacity	litres	90			90		
TRACKS							
Track chains		dry			dry		
Rollers and track idlers		semi-lubricated / lubricated			semi-lubricated / lubricated		
Bottom rollers	n°	5			5		
Top rollers	n°	1			1		
Cleats per track	n°	37			37		
Track guards		sheet steel			sheet steel		
Cleat width	mm	310	360	400	360	450	450
Footprint	cm²	8990	10454	11600	10454	13032	13032
Front ballast weights		8 front weights, 40 kg each			8 front weights, 40 kg each		
		2+2 side weights, 40 kg each			2+2 side weights, 40 kg each		
DIMENSIONS AND WEIGHTS							
Length	mm	3445			3407		
Width	mm	1360	1460	1750	1460	1800	1800
Track width	mm	1050	1100	1350	1100	1350	1350
Height to seat cushion	mm	1070			1070		
Height to instrument panel	mm	1430			1430		
Ground clearance	mm	250			250		
Wheelbase	mm	1650			1650		
Weight	kg	4283	4335	4514	4335	4630	4630

TRANSMISSION	
Gearshift clutch	dry single-plate
4-speed, mechanical shift synchromesh gearbox with 2 ranges + Underdrive (minimum speed: 1.33 km/h)	16 FWD + 16 REV
4-speed, mechanical shift synchromesh gearbox with 2 ranges + creeper (minimum speed: 0.61 km/h)	16 FWD + 16 REV
Shuttle	mechanical, synchronized
REAR PTO	
Clutch	dry single-plate
Speeds	rpm 540-540 ECO
Operation	hydraulic servo
BRAKES AND STEERING	
Steering clutches	oil-immersed multi-disc with hydrostatic servo
Steering brakes	oil-immersed band type with hydraulic servo
Brake clutch operation	sequential, via levers under the instrument panel
Service brakes	pedal operated

HYDRAULIC LIFT	
Rear lift	mechanical with draft, position and mix control
Maximum lifting capacity	kg 3000
Rated flow of pumps	l/min. 50 + 24 with dual pump
Auxiliary spool valves	n° ports 6/8 with flow control, duplicated at front
Heavy Duty three point linkage (lift links and top link)	with fixed hitch ends with auto hitch ends
DRIVING POSITION	
Platform	mounted on silent-block isomounts
Rollover protective structure	folding
Shift levers	right of driving seat
Shuttle lever	to right of driving seat
Driving seat	mechanically adjustable with seat belt air suspension with seat belt

°16 FWD + 16 REV TRANSMISSION WITH SHUTTLE AND HI-LO - SPEEDS IN KM/H AT 2200 RPM ENGINE															
1 L Lo	1 L	2 L Lo	2 L	3 L Lo	3 L	4 L Lo	4 L	1 H Lo	1 H	2 H Lo	2 H	3 H Lo	3 H	4 H Lo	4 H
1.25	1.50	1.62	1.95	2.09	2.52	3.07	3.70	3.97	4.78	5.17	6.22	6.67	8.03	9.82	11.82

16 FWD + 16 REV TRANSMISSION WITH SHUTTLE AND AND UNDERDRIVE - SPEEDS IN KM/H AT 2200 RPM ENGINE															
1 L Cr	2 L Cr	3 L Cr	4 L Cr	1 L	1 H Cr	2 L	2 H Cr	3 L	3 H Cr	4 L	4 H Cr	1 H	2 H	3 H	4 H
0.43	0.56	0.73	1.07	1.50	1.84	1.95	2.39	2.52	3.08	3.70	4.25	4.78	6.22	8.03	11.82

The above specifications refer to the highest available equipment package. For standard equipment and options, refer to the current price list and ask your local dealer for details.

N.B.: REVERSE SPEEDS ARE SLIGHTLY HIGHER THAN THE CORRESPONDING FORWARD SPEEDS

TECHNICAL DATA

KRYPTON³ 110 SIX

ENGINE		N	SDF TIER III
Cylinders / Displacement	n°/cm³	4/4000	
Air intake		Turbo/Intercooler	
Maximum power, Homologated (2000/25/EC)	(HP/kW)	102/75	
Maximum power (2000/25/EC)	(HP/kW)	102/75	
Rated engine speed	rpm	2300	
Maximum torque	Nm	376	
Revs at maximum torque	rpm	1600	
Torque rise	%	21.3	
Cooling		liquid-oil	
Engine control (governor)		electronic	
Air cleaner		dry type with safety element and dust unloader	
Silencer under hood		with vertical exhaust adjacent to ROPS upright	
Fuel tank capacity	litres	130	
TRACKS			
Track chains		dry	
		lubricated	
Rollers and track idlers		oil-immersed	
Bottom rollers	n°	6	
Top rollers	n°	1	
Cleats per track	n°	40	
Track guards	type	cast	
Cleat width	mm	450	
Footprint	cm²	14,292	
Front ballast weights	n°	8 front weights, 40 kg each 2+2 side weights, 40 kg each	
DIMENSIONS AND WEIGHTS			
Length	mm	3472	
Width	mm	1800	
Track width	mm	1350	
Ground clearance	mm	400	
Wheelbase	mm	1850	
Weight	kg	5470*	

TRANSMISSION	
Gearshift clutch	pedal operated
4-speed, mechanical shift synchromesh gearbox with 2 ranges + Underdrive (minimum speed: 1.33 km/h)	16 FWD+16 REV
4-speed, mechanical shift synchromesh gearbox with 2 ranges + creeper (minimum speed: 0.61 km/h)	16 FWD+16 REV
Shuttle	mechanical, synchronized
Lubrication	pressure circuit + transmission oil cooler
REAR P.T.O. REAR P.T.O.	
Clutch	oil-immersed multi-disc
Speeds	rpm 540-540 ECO-1000
Operation	hydraulic servo
BRAKES AND STEERING	
Steering clutches	oil-immersed multi-disc with hydrostatic servo
Steering brakes	oil-immersed band type with hydraulic servo
Clutch-brake control	sequential, via levers under the instrument panel
Service brakes	pedal operated

HYDRAULIC LIFT	
Rear lift	mechanical with draft, position and mix control
Maximum lifting capacity	kg 3000
Rated flow of pumps	l/min. 52 + 25 with dual pump
Auxiliary spool valves	n° ports 6/10 with flow control
Heavy Duty three point linkage (lift links and top link)	with fixed link ends with auto hitch ends
DRIVING POSITION	
Platform	mounted on silent-block isomounts with 4 uprights
Rollover protective structure	sunshade roof and 4 work lights
Shift levers	right of driving seat
Shuttle lever	right of driving seat
Accelerator	hand throttle and decelerator pedal
Driving seat	mechanically adjustable with seat belt air suspension with seat belt

°16 FWD + 16 REV TRANSMISSION WITH SHUTTLE AND HI-LO - SPEEDS IN KM/H AT 2500 RPM ENGINE															
1 L Lo	1 L	2 L Lo	2 L	3 L Lo	3 L	4 L Lo	4 L	1 H Lo	1 H	2 H Lo	2 H	3 H Lo	3 H	4 H Lo	4 H
1.15	1.38	1.49	1.79	1.92	2.32	2.83	3.40	3.66	4.40	4.76	5.76	6.14	7.39	9.04	11.07

16 FWD + 16 REV TRANSMISSION WITH SHUTTLE AND AND UNDERDRIVE - SPEEDS IN KM/H AT 2500 RPM ENGINE															
1 L Cr	2 L Cr	3 L Cr	4 L Cr	1 L	1 H Cr	2 L	2 H Cr	3 L	3 H Cr	4 L	4 H Cr	1 H	2 H	3 H	4 H
0.40	0.52	0.66	0.98	1.38	1.84	1.79	2.39	2.31	3.08	3.40	4.20	4.78	6.22	8.03	11.07

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*= WITH CAST TRACK GUARD
N.B.: REVERSE SPEEDS ARE SLIGHTLY HIGHER THAN THE CORRESPONDING FORWARD SPEEDS

DEALER CONTACT

SAME

Rely on us.

We recommend the use of SDF Lubricants and Coolant 

Company with Quality System Certified
in compliance with ISO 9001:2000

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