Krypton^3

80 V | 90 F | 100 F | 110 SIX



www.same-tractors.com

SAME

Rely on us.

New Krypton^3 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.



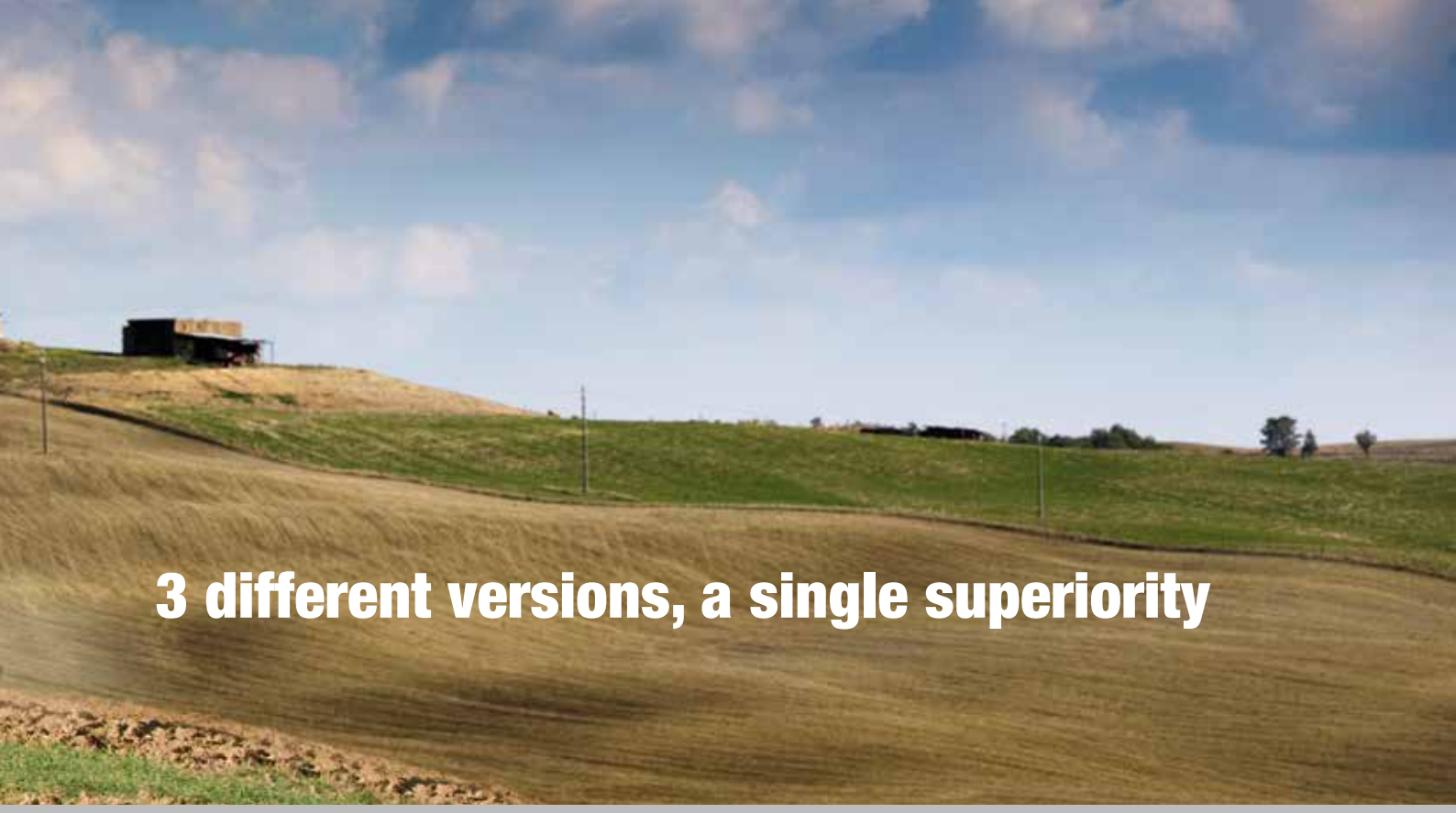
The Krypton³ range includes 3 versions, characterized by specialised engineering techniques that ensure their adaptability to different uses:

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 manoeuverable in all operations, even when working in very tough conditions.

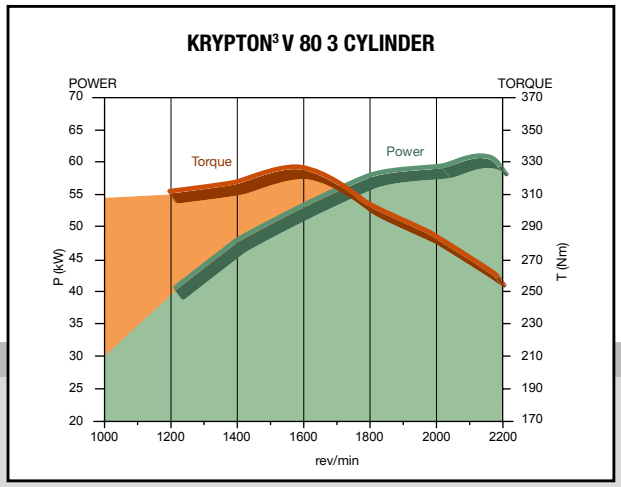


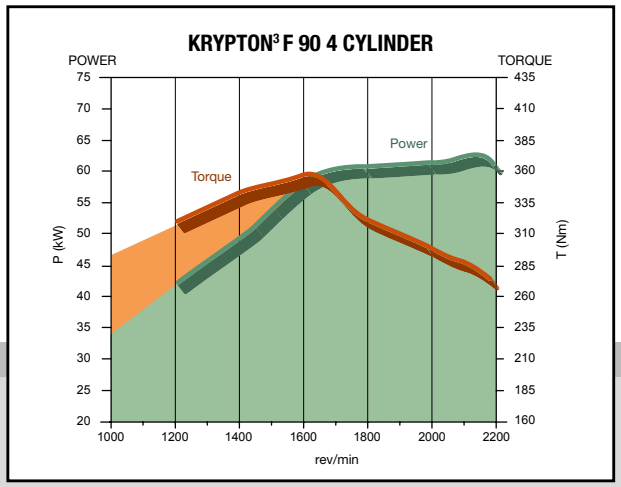
Optimum power, unparalleled comfort

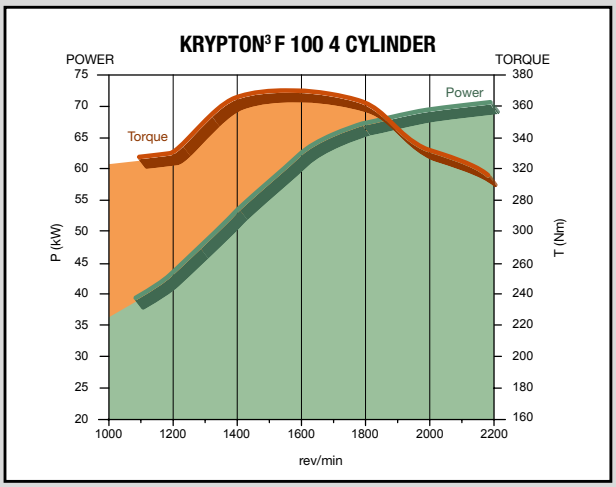
New EURO 3 engines: the perfect combination of power and low emissions

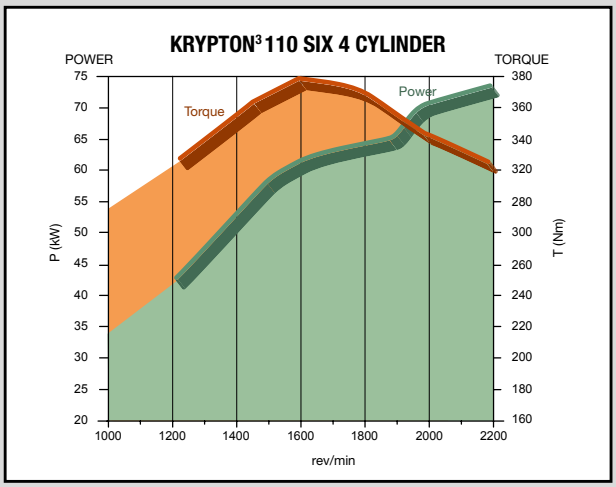
Krypton³ crawlers are powered by new 1000 series water-cooled engines in 3 or 4 cylinder versions, with turbo and intercooler, built to Euro 3 standards and featuring a neat, modern, functional design. These engine specifications translate into high levels of performance, complemented by a high structural strength achieved through the design of cylinder blocks that incorporate stiffening ribs and tappet rod guides fashioned directly in the casting.

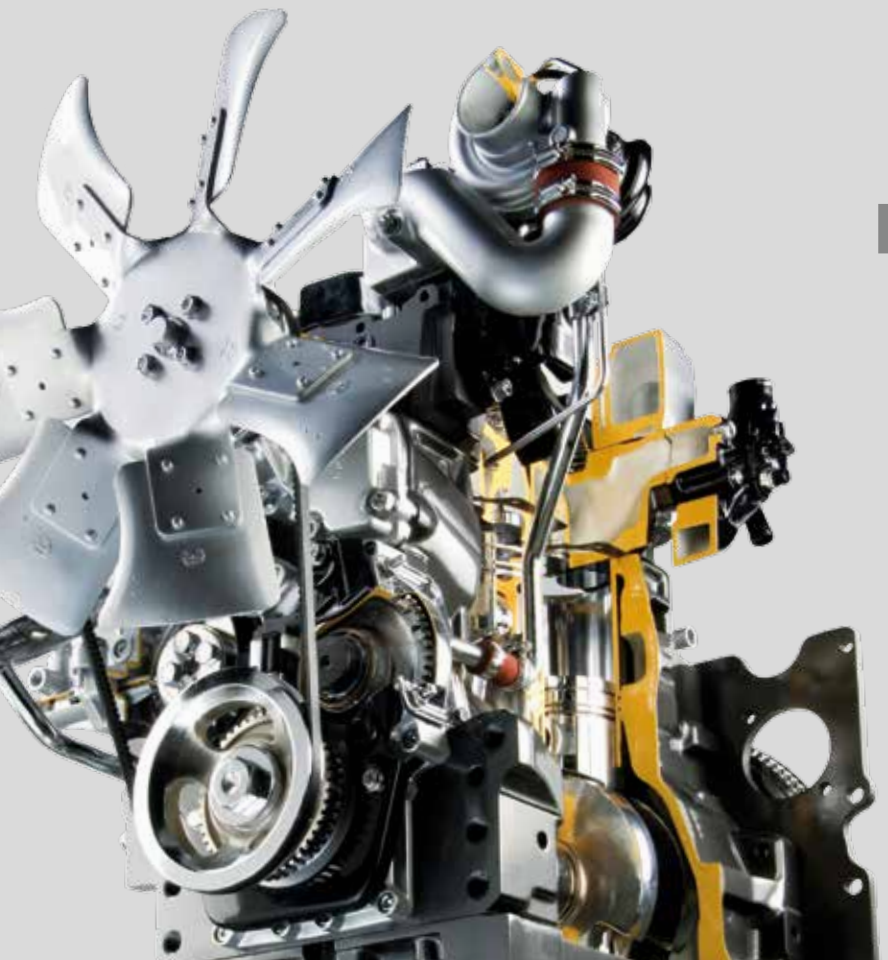
A stiffer crankcase brings multiple advantages: the tractor is able to take on the toughest of duties, and engine noise is also reduced, bringing significant benefits in terms of operator comfort.











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



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 Krypton^3 110 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 Krypton^3 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.

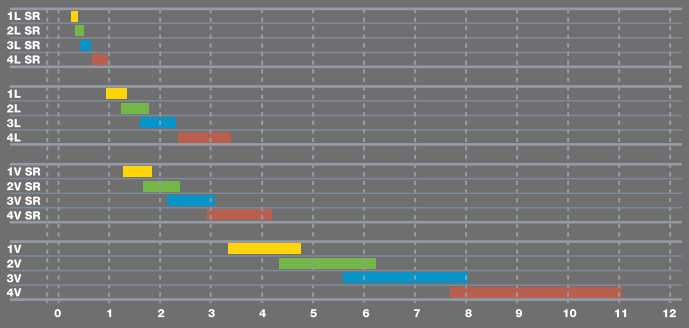
A heavy-duty main clutch (13" diameter on the arable model) complements the mechanical strength of the transmission and is provided with a cooler that will keep the oil at a constant temperature, especially when operating under heavy traction forces.
These are features that enable SAME Krypton³ crawlers to deliver top performance even when taking on the heaviest duties.

Steering clutches: manoeuvres are fast and effortless

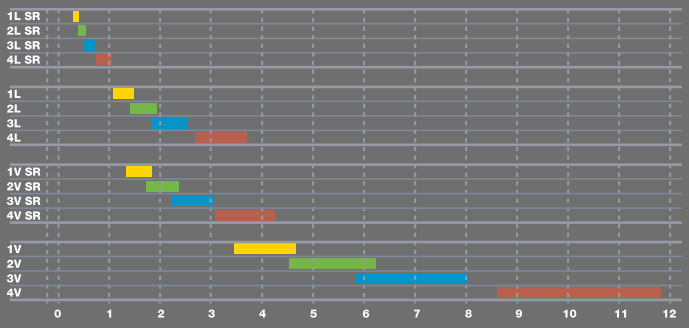
SAME Krypton³ crawlers are equipped with oil-immersed steering clutches and brakes that will ensure maximum safety even in the most hostile working conditions. Both these units operate progressively and independently on each track, controlled by a pair of low-effort levers with hydraulic servo-assist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

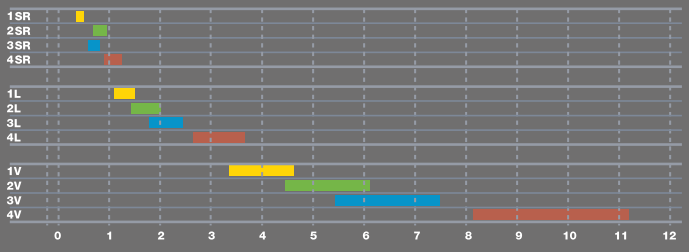
Krypton³ 110 SIX gear range



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.











Krypton^3
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 Krypton^3 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 Krypton^3 110 SIX the ideal crawler for all tasks where tractive 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 Krypton^3 110 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 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.

TECHNICAL DATA

KRYPTON³ V 80

		C	N	M	L
ENGINE			SDF TIER III		
Cylinders / Displacement	n°/cm³		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	cm²	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
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

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

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

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TECHNICAL DATA

		KRYPTON³ F 90			KRYPTON³ F 100	
	Version	C	N	M	N	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				
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	90				
TRACKS						
Track chains		dry				
Rollers and track idlers		semi-lubricated / lubricated				
Bottom rollers	n°	5				
Top rollers	n°	1				
Cleats per track	n°	37				
Track guards		sheet steel				
Cleat width	mm	310	360	400	360	450
Footprint	cm²	8990	10454	11600	10454	13032
Front ballast weights		8 front 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
Track width	mm	1050	1100	1350	1100	1350
Height to seat cushion	mm	1070				
Height to instrument panel	mm	1430				
Ground clearance	mm	250				
Wheelbase	mm	1650				
Weight	kg	4283	4335	4514	4335	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

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

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TECHNICAL DATA

KRYPTON³ 110 SIX

		N
ENGINE		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
Rollover protective structure		with 4 uprights
		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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