

# EXPLORER C 70-80-90 HP

THE CRAWLER OF THE FUTURE. IS ALREADY HERE!



**SAME**

# If you think that comfort is an optional extra for crawlers, then may be you haven't tried the new Explorer.

Just a quick glance at the new Explorer will reveal that this is a machine designed with attention to every detail, and strictly with you the user in mind. Indeed **ergonomics and comfort are the main features of the new Explorer**, giving you the benefits of increased safety and less fatigue at the end of the working day.

Sit yourself down at the controls. With the seat and console mounted to a **platform suspended on silent blocks**, the driving

position is comfortable, and remains unaffected by those persistent vibrations which are so tiring for the occupant of yesterday's crawlers.

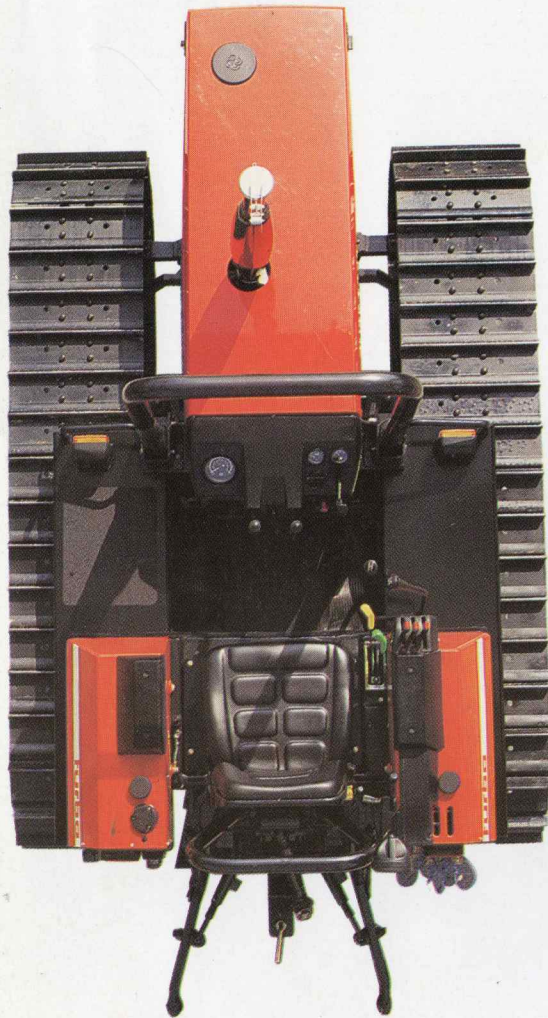
**The seat has excellent springing**, and armrests designed to support you in complete comfort even over the roughest of terrains.

Your feet will find the **pendant pedals** with no difficulty, and the **side shift levers** are always immediately to hand.

As to positioning and accessibility of the controls, the new Explorer is truly a model for others to follow.

The **P.T.O.**, for example, has a **new control located under the instrument panel** which can be operated in an instant, and with the new **Ergomatic power assisted steering controls**, this is a crawler you really can drive with two fingers.

In short, the new Explorer represents a milestone in the development of crawler tractors. And comfortably, in every sense.



# The new Explorer: intelligent power

To have plenty of power is always handy, true enough, and especially when tackling those jobs which are most punishing for the tractor. But the secret lies in having a **generous torque backup**, and knowing how to handle the machine: getting the right amount of power without overworking the engine; exploiting the right r.p.m. for the work in hand at the opportune moment.

Only in this way can **power be converted into high work rates** and low energy consumption.

What we call intelligent power in the new Explorer comes from electronic control, and is the ability of the engine to respond with maximum precision and effectiveness to simple pulses received from the

**potentiometer of the accelerator pedal, or the push buttons of the electronic hand throttle.**

The **rev. counter** advises the set r.p.m. and the hour meter keeps track of the engine hours worked.

Among the other monitoring aids adopted in the new Explorer is an oil temperature sensor ensuring faultless operation of the **triple cooling system**, a familiar air-and-oil combination supplemented by oil jets directed at the underside of the pistons.

But for now, just let yourself be carried along by the muscle of the new Explorer's **4-Cylinder turbo engine (90 HP)**. And you can relax too, the power you need will always be there to call on.



# A transmission made to measure for every kind of job: that's the secret of a good crawler.

In addition to the many novel features you can see and touch, this is one concealed from view, but crucially important in enabling you to work more easily and save time.

■ The **effect of the new SAME transmission** is to extend the Explorer's range of speeds still further, so that new and different types of work can be tackled.

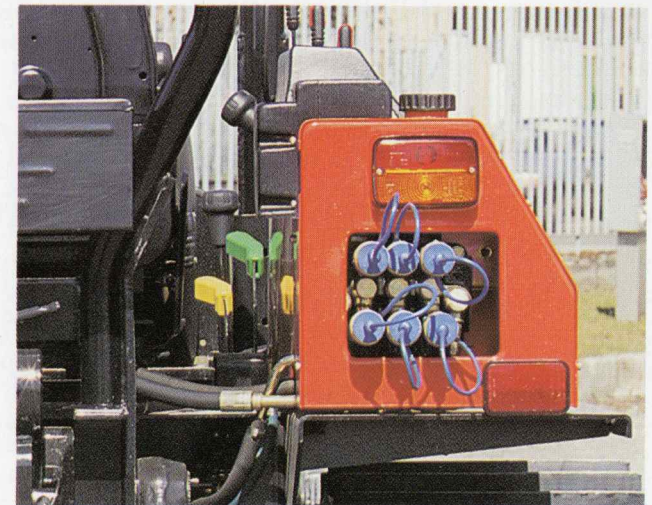
■ The Explorer gives you a **gearbox with underdrive** affording no less than **16 forward ratios, and 16 in reverse**. Selected by a smooth and supple **shuttle**, for ground speeds down to a minimum 1.3 km/h.

■ Or you can have a **gearbox with creeper** (likewise 16 forward + 16 reverse) giving a bottom speed of 600 m/h.

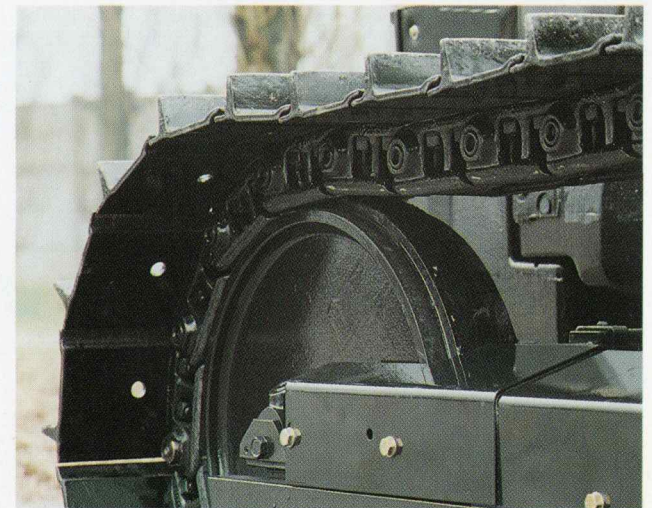
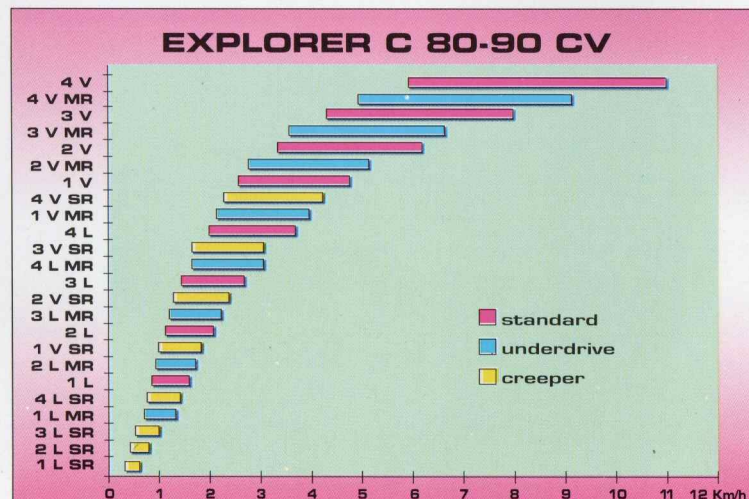
■ The **hydraulic circuit** is equipped with **high capa-**

**city pump** rated 48 litres per minute.

■ The **rear P.T.O. clutch is power assisted** and can be operated on the move thanks to a smooth and supple **hydraulic action**. Yet another product of superior SAME technology. Are the 540 and 1000 rpm P.T.O. speeds. Transmitting confidence on the job is one of the main qualities of the new Explorer. And it shows.



EXPLORER 80-90 C - Chart showing forward speeds with maximum output from engine running at 2500 rev/min.





# Crawler endurance, tractor performance

■ One of the aims pursued with the new Explorer is to make the crawler a **top range machine not least in terms of performance**, and the innovations in this area speak for themselves.

■ The **track chains are lubricated**, and the **3-point linkage** is available with **heavy duty links and reinforcing brackets**, equal

to the toughest of operating conditions.

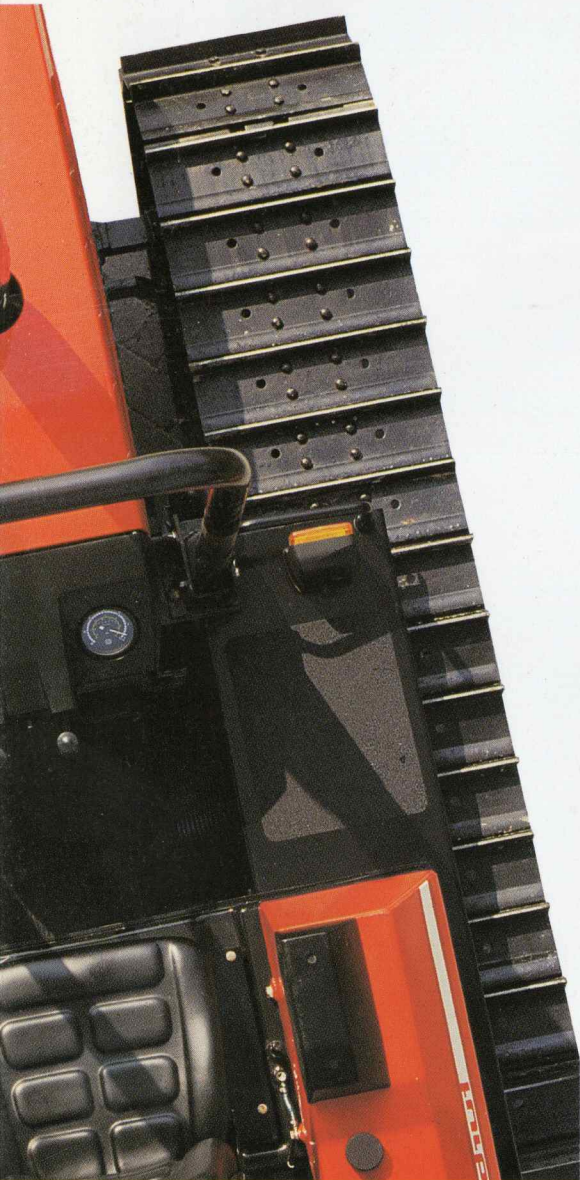
■ **Clutches and brakes are oil-immersed and power assisted** to ensure swift engagement and safe, responsive braking.

■ The **hydraulic track tension adjustment** can be controlled directly from the driving position, enabling the Explorer to adapt in an

instant to changing soil conditions and perform to its maximum potential.

■ **The fuel tank can hold up to 150 litres**, increasing the operational autonomy and versatility of the machine.

Everything in the Explorer has been thought out to **give you the best**, and indeed the most.



# The first crawler with an extra gear: safety.

For SAME, safety in a machine represents an active advantage, as work can be done better, and in less time.

With this in mind, the new Explorer is equipped with a folding roll bar and

an additional rear hoop, affording the driver the maximum possible safety with an easy and practical solution.

Add to this the Explorer's compact dimensions and low centre of gravity

obtained by judicious positioning of the front weights, and the cast iron track carrier cover. We can claim proudly that these are machines with safety designed into them right from the outset.

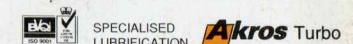


# EXPLORER 70-80-90 C ERGOMATIC

TECHNICAL DATA	EXPLORER 70 ERG.		EXPLORER 80 ERG. H.D.	EXPLORER 90 ERG.
	Normal	Hillside	Hillside	Hillside
Version	Normal	Hillside	Hillside	Hillside
<b>ENGINE</b>				
SAME	1000.4 A	1000.4 A1	1000.4 AT	
Cylinders/displacement (cm³)	4/4000	4/4000	4 turbo/4000	
Maximum rated power (kW/HP/rpm)	51,5/70/2350	59/80/2500	65/88/2500	
Cooling	air-oil	air-oil	air-oil	
ELECTRONIC RPM CONTROL: accelerator pedal and hand throttle plus electronic tachometer	○	○	○	○
Vertical exhaust silencer	●	●	●	●
Exhaust silencer under hood, lateral tail pipe	○	○	○	○
Fuel tank capacity (* 3 connected and separable tanks) (litres)	110	110	110	150*
<b>TRANSMISSION</b>				
Gearshift clutch: dry single disc type, pedal operated	●	●	●	●
P.T.O. clutch: oil-immersed disc pack with hydraulic servo	●	●	●	●
Gearbox: 8 FWD + 8 REV with shuttle	●	●	●	●
Gearbox: 16 FWD + 16 REV with UNDERDRIVE and shuttle	○	○	○	○
Gearbox: 16 FWD + 16 REV with CREEPER and shuttle	○	○	○	○
P.T.O. clutch with hydraulic servo (new control) 540/1000 rpm	●	●	●	●
<b>LATERAL STEERING CLUTCHES</b>				
Oil-immersed disc pack, power-assisted hydrostatic control	●	●	●	●
<b>BRAKES</b>				
Oil-immersed band brakes with power-assist	●	●	●	●
Operated sequentially with steering clutches by same levers	●	●	●	●
<b>HYDRAULIC LIFT SYSTEM</b>				
Draft and position control	●	●	●	●
Max. lifting capacity (kg)	2900	2900	2900	2900
RATED FLOW OF HIGH CAPACITY (l/min.)	48	48	48	48
HEAVY DUTY 3-POINT LINKAGE	●	●	●	●
Auxiliary spool valves, std/opt (n. ways)	6	6	6	8
<b>TRACKS</b>				
LUBRICATED TRACK CHAINS	-	-	○	○
Oil-immersed rollers and idler wheels with Long-life seals	●	●	●	●
Hydraulic track tension adjustment (* automatic take-up)	●	●	●	●*
Strengthened track components (* cast type track carrier cover)	-	-	●	●*
Bottom rollers (n.)	5	5	5	5
Upper roller (n.)	1	1	1	1
Shoe width, std/opt (mm)	360/-	360/-	400/-	450/400
Shoes per track (n.)	35	35	37	37

TECHNICAL DATA	EXPLORER 70 ERG.		EXPLORER 80 ERG. H.D.	EXPLORER 90 ERG.
	Normal	Hillside	Hillside	Hillside
Version	Normal	Hillside	Hillside	Hillside
Track laying area with std/opt shoes (cm²)	11,340	11,340	13,160	14,805/13,160
Ground pressure with std/opt shoes (kg/cm²)	0,310	0,310	0,320	0,330/0,370
<b>BODY AND DRIVING POSITION</b>				
Platform suspended on silent-blocks	●	●	●	●
Gearshift levers to right of driver	●	●	●	●
Lateral steering clutch levers mounted to instrument panel	●	●	●	●
Adjustable sprung seat with armrests	●	●	●	●
Fixed/FOLDING roll bar (type test approved)	●/○	●/○	●/○	●/○
Front weights frame (290 kg)	○	○	●	●
2+2 lateral front weights (160 kg)	-	-	-	●
<b>DIMENSIONS AND WEIGHTS</b>				
Maximum length with links (mm)	3360	3360	3380	3380
Width with std/opt shoes (mm)	1460/-	1660/-	1700/-	1750/1700
Height at seat (mm)	1050	1050	1080	1170
Height at hood (mm)	1270	1270	1290	1290
Ground clearance (mm)	370	370	400	400
Wheelbase (mm)	1575	1575	1650	1650
Machine track width (mm)	1100	1300	1300	1300
Weight (kg)	3420	3710	4200	5140

SPEED RANGES									
Ground speeds in km/h (mph) at maximum engine output									
SPEED	UNDERDRIVE				CREEPER				
	70 HP		80-90 HP		70 HP		80-90 HP		
	FWD	REV	FWD	REV	FWD	REV	FWD	REV	
1 L MR	1,29 (0.80)	1,50 (0.93)	1,32 (0.82)	1,55 (0.96)	1 L SR	0,59 (0.37)	0,69 (0.43)	0,61 (0.38)	0,71 (0.44)
1 L	1,55 (0.96)	1,81 (1.12)	1,59 (0.99)	1,86 (1.16)	2 L SR	0,77 (0.48)	0,90 (0.56)	0,79 (0.49)	0,93 (0.58)
2 L MR	1,67 (1.04)	1,95 (1.21)	1,72 (1.07)	2,00 (1.24)	3 L SR	0,99 (0.62)	1,16 (0.72)	1,03 (0.64)	1,20 (0.75)
2 L	2,07 (1.29)	2,35 (1.46)	2,07 (1.29)	2,41 (1.50)	4 L SR	1,38 (0.86)	1,60 (0.99)	1,41 (0.88)	1,65 (1.03)
3 L MR	2,16 (1.34)	2,52 (1.57)	2,22 (1.38)	2,58 (1.60)	1 L	1,55 (0.96)	1,81 (1.12)	1,59 (0.99)	1,86 (1.16)
3 L	2,60 (1.62)	3,03 (1.88)	2,67 (1.66)	3,11 (1.93)	1 V SR	1,78 (1.11)	2,07 (1.29)	1,83 (1.14)	2,13 (1.32)
4 L MR	2,97 (1.85)	3,46 (2.15)	3,06 (1.90)	3,56 (2.21)	2 L	2,07 (1.29)	2,35 (1.46)	2,07 (1.29)	2,41 (1.50)
4 L	3,58 (2.22)	4,17 (2.59)	3,68 (2.29)	4,29 (2.67)	2 V SR	2,31 (1.44)	2,69 (1.67)	2,37 (1.47)	2,77 (1.72)
1 V MR	3,84 (2.39)	4,48 (2.78)	3,95 (2.45)	4,61 (2.86)	3 L	2,60 (1.62)	3,03 (1.88)	2,67 (1.66)	3,11 (1.93)
1 V	4,62 (2.87)	5,39 (3.35)	4,75 (2.95)	5,55 (3.45)	3 V SR	2,98 (1.85)	3,48 (2.16)	3,06 (1.90)	3,57 (2.22)
2 V MR	4,99 (3.10)	5,82 (3.62)	5,13 (3.19)	5,99 (3.72)	4 L	3,58 (2.22)	4,17 (2.59)	3,68 (2.29)	4,29 (2.67)
2 V	6,07 (3.77)	7,01 (4.36)	6,18 (3.84)	7,21 (4.48)	4 V SR	4,11 (2.55)	4,79 (2.98)	4,22 (2.62)	4,93 (3.06)
3 V MR	6,45 (4.01)	7,52 (4.67)	6,62 (4.11)	7,73 (4.80)	1 V	4,62 (2.87)	5,39 (3.35)	4,75 (2.95)	5,55 (3.45)
3 V	7,76 (4.82)	9,05 (5.62)	7,97 (4.95)	9,30 (5.78)	2 V	6,07 (3.77)	7,01 (4.36)	6,18 (3.84)	7,21 (4.48)
4 V MR	8,88 (5.52)	10,36 (6.44)	9,13 (5.67)	10,66 (6.62)	3 V	7,76 (4.82)	9,05 (5.62)	7,97 (4.95)	9,30 (5.78)
4 V	10,69 (6.64)	12,47 (7.75)	10,99 (6.83)	12,83 (7.97)	4 V	10,69 (6.64)	12,47 (7.75)	10,99 (6.83)	12,83 (7.97)



SAME Trattori - V.le F. Cassani 15 - 24047 Treviglio (BG)  
Telefono (0363) 4211 - Telefax (0363) 421638



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