



S-Trac

The forward control
Unimog based platform

At South Cave Tractors Ltd, we've been building forward control Unimog based platforms for longer than you might think...

From the original and bullet proof MB-Trac through to the very latest high-tech Unimog based S-Trac we have been building forward control platforms for agriculture for more than 25 years.

As a choice for the driver/operator the latest S-Trac offers a completely redesigned, large and comfortable cab environment with new electronic driver information system. It has improved ergonomics and control layout from an adjustable multi-function steering wheel. A variety of options add even greater comfort and convenience for the operator to ensure they stay alert, comfortable and productive through the working season.

As an economic choice we think S-TRAC is the perfect choice too: With such outstanding residual values our vehicles 'whole-of-life-cost' is extremely low. Speed, economy, safety, reliability, payload, long-service intervals and Mercedes-Benz quality and reliability all add up to high productivity and maximum returns for your business.

As a productivity choice, S-TRAC makes better sense than ever with, still, the best speed and fuel economy in the sector. The all new range of Unimog engines now delivers up to 300 horsepower while at the same time being both cleaner and more fuel efficient. The new load-sensing hydraulics operate faster and with a greater degree of control. The updated Central Tyre inflation system operates more quickly and with simpler 4 stage controls for road and field at the touch of a button. It also delivers improved safety with the new automatic, speed sensitive adjustment.





S-Trac delivers:

- Up to 40% better fuel economy
- Ultra Low emissions from latest Euro VI Mercedes engines
- 1400 hour service intervals
- Tough mechanical all-wheel-drive, not high-maintenance wheel motors
- The highest road speed in the sector
- Your preferred choice of demount spray-pack from across the industry.
- A huge and comfortable air conditioned cab
- The Unimog chassis and drivetrain leaves 'hydrostat' machines floundering on hills
- Coil sprung, long-travel suspension still provides the best response and control over every terrain.
- The Central Tyre Inflation System can get you back in the field hours, even days earlier with minimal impact on the soil.

Same day, same field,
same conditions



The difference is S-Trac with its proven mechanical drive from Mercedes-Benz Unimog. Compared to an hydraulic wheel motor the mechanical drive system delivers continuous and even power delivery across all four wheels with the added reassurance of 3 position locking differential...should you need it.

Compare that to a traditional hydrostatic wheel motor driven sprayer in the same conditions and the difference is obvious: The lighter hydrostat sprayer in the above example caused significant damage and soil compaction in these soft and wet conditions.



Technical Data

Engine

- Turbocharger, intercooler
- 2 control characteristics (driving/implement mode)
- Manual throttle (electronic)
- Hydrostatic fan drive
- Euro IV emissions standard
- 2-stage engine brake (constantly open throttle/throttle valve)
- Air com-pressor 310 litre/min
- Air dryer
- Air filter, moisture separator
- Starter lock
- Cold start down to -16°C
- Maintenance intervals every 1,400 operating hours

Clutch/transmission

- Single-plate dry clutch or lock up fluid clutch
- 8 forward and 6 reverse gears
- Permanent all-wheel drive with lockable inter-axle differential
- Telligent gearshift
- Cruise control/speed limiter
- Max. Speed limiter 60km/hr
- EQR (Electronic Quick Reverse)

Frame/axles

- Continuous, rigid ladder-type frame
- Front towing jaw with pin
- Coil springs with progressive characteristic line
- Front/rear stabilisers
- Telescopic shock absorbers
- Portal axles, i = 6.38
- Differential lock at the rear
- Anti-corrosion underbody protection (Dinol)

Electrical System/lighting

- 24v vehicle power supply
- Electronics box protected in the cab
- 24v outlet
- CAN bus network
- Rear trailer socket, 15 pin
- Battery 115 Ah
- Electronic vehicle management system
- EMC certified
- Three-phase generator 28v/100a
- Free-form headlamps
- Headlamp range adjustment
- Rear fog lamp
- Reversing lights
- End-outline marker lamps
- Additional indicators

Cab

- 2 man cab, 3 point harness (both seats)
- ROPS tested
- Aircon/heating to windows and floors
- 360° view
- Driver information system (FIS) with status displays, event reports and menu-driven on-board diagnostics
- Adjustable steering column
- Opt. driver and passenger seats as heated, airsprung luxury suspension seat

Hydraulics System

- 8 x Proportional hydraulic services for boom operation
- Variable and load sensing for pump or spreader operation, 0- 125 litres (pressure up to 280 Bar if piston motors needed)

Steering

- Hydraulic power steering, type: ZF
- Turning circle Ø short wheelbase from 14.3m lin 4 w/s
- Above with 4W/S
- 4 W/S 4X modes:
 - 2 W/S / 4 W/S / Crab/ Manual set
- Auto-steer option available

Spray Pack Options

- Compatible with any manufacturers demount systems
- 3500-5500 litre tank
- 24-48m booms
- Spreaders up to 8 cubic metres

Braking System

- Pneumatic high-pressure braking system (18 bar)
- Disc brakes on all 4 wheels
- 4-channel ABS, can be deactivated off-road
- Automatic load-sensitive brake pressure control (ALB)
- Compressed air connection for auxiliary loads
- Spring-loaded parking brake
- Tyre inflation connection Brake pad wear indicator

The Central Tyre Inflation System is controlled from the cab, even when on the move



Technical Data

Engines

Engines	936.971	936.972
Emissions class	Euro 5/6	Euro 5/6
Model	OM 936	OM 936
Type	4-stroke diesel direct injection with turbocharger/intercooler	4-stroke diesel direct injection with turbocharger/intercooler
No. of cylinders/ arrangement	6, in-line	6, in-line
Displacement	7,698cc	7,698cc
Max. output	200kW (272Hp)	220kW (299Hp)
Max. torque	1100Nm	1,200Nm
Compression	17.6 : 1	17.6 : 1

Weights

Model	U400	U500	U400	U500
Sprayer tank	Unladen Weight		Laden Weight	
Vehicle	10000	10640	13000	16500
Front Axle	5900	6120	6500	8250
Rear Axle	4100	4520	6500	8250

Wheels/tyres

4 identical tyres; single tyres

Options:

- Michelin 650/65 R34 AXIOBIB
- Michelin 650/65 R34 EVOBIB
- Michelin 380/90 R46 SPRAYBIB
- Michelin 420/90 R50 SPRAYBIB

Other tyres available on request

Optional tyre pressure control system (C.T.I.) to adjust the tyre pressure on/off-road on the move

Options

In addition to this extensive standard equipment, we can also offer you a host of optional equipment and accessories to meet the specific operational need of your S-Trac Sprayer. We will be happy to advise you



There can be few companies that can have done more to develop Mercedes-Benz Unimog for the UK agricultural market than South Cave Tractors Ltd. Since the early days of MB-Trac mounted sprayers, through the development of forward-control Unimog designs, and onward to today's remarkably efficient and productive S-Trac demount platform, the company has established itself as the leading expert in agricultural Unimog applications.

In its latest incarnation the S-Trac demonstrates all of those years of design expertise condensed into what could be the most productive and practical self-propelled spray delivery platform on the market. South Cave Tractors experience with Unimog has allowed us to design and manufacture a range of agricultural accessories for Unimog including front and rear PTO, 3 point linkages, pick-up hitch, larger hydraulic tank, OECD cab frame, dual spring suspension upgrades, the list goes on.

Our long association with quality manufacturers of implements and demountable accessories allow us to provide a one-stop-shop for your mobile, all-terrain working vehicle.



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