

MOBILE SERVICE VEHICLES
Measurement van for CP-Services

Document No.: 15-510-R1

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German Cathodic Protection



A wide selection to suit every vehicle

We have worked closely for many years with all major manufactures of commercial vehicles. What ever your choice of vehicle, we can provide the best solution for you and your cathodic corrosion staff.

As an example: Mercedes-Benz Sprinter 310 CDI

Technical engine data for the Sprinter

4x2 drive system	Standard
No. of cylinders	4
Arrangement	in-line
No. of valves per cylinder	4
Displacement (cc)	2,143
Rated output (hp/kW)	95/70
at engine speed (rpm)	3,800
Rated torque (Nm)	250
at engine speed (rpm)	1,400-2,400
Manual transmission	ECO Gear 360 6-speed manual transmission
Automatic transmission	Option
Fuel type	Diesel
Tank capacity (l)	approx. 75
Mixture preparation	Electronically controlled direct injection with common rail, turbocharger and intercooler
Battery (V/Ah)	12/74
Alternator (V/A)	14/120
GVW (kg)	3,500
GCW (kg)	5,500



- Available in 4 vehicle lengths
- A choice of 3 load compartment heights
- Spacious interior
- Choice of 3 wheel bases



- Sliding door sizes up to 1.30 m wide x 1.82 m high (depending on variant)

Module

Modules are contained within a heavy-duty support frame. Starting with a plain, basic unit, end panels and/or tool boards can be added in accordance with individual needs. The self-supporting frame provides the necessary structural strength to carry the required loads.



Module Boxes with windows

The Module Box is a practically designed storage box. It has an handle and can be fitted with a viewing window to maximise storage capacity.

Drawer Units



Drawer units are modular in width, depth and height, and can easily be combined with other products and drawer units in the range. Drawer unit support frames have an integrated, uniquely designed T-track that is used for securing cargo, attaching accessories and for versatile surface mounting. End panels, tool boards and locks can be added as optional accessories. Drawers can be arranged as required and are available in three heights (low, medium and high). Each drawer is fitted with ball bearing runners as standard, and opens fully to give unrestricted access to contents. The maximum load is 30 kg per drawer, with a maximum of 100 kg per drawer unit. For extra heavy loads (max. 50 kg per drawer) medium and high drawers can be fitted with double ball bearing runners.

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Lockers

The range of lockers provides effective storage and can usefully be combined with drawer units and other components.

All vertical, horizontal and gas lockers are modular in width, depth and height. Support frames have an integrated, specially designed T-track that can be used for securing cargo, attaching accessories and for versatile surface mounting. Lockers with a square base are especially versatile as they can be rotated through a full 360 degrees.

Shelves

Shelves in modular widths with a height of 54 mm. Long edges are double-folded to increase load capacity. Cut-outs in front and back for mounting dividers.

Standard shelves

Shelves are available in depths of 216 mm, 324 mm and 486 mm. The 216 mm wide shelf is ideal for use as a top shelf in taller racking systems. Shelves can be combined with Module-Boxes and rubber mats for greater convenience and better practicality.

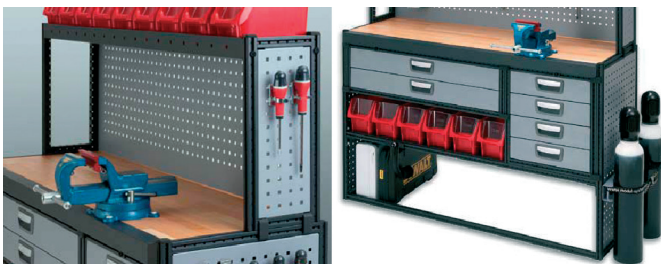


Extendable drawer sections

Extendable drawer sections provide a system that can be used in cars, pickups and vans. The extendable drawer sections can accommodate all of the items you need, from tools and instruments to document files and paper. The units can support a load of up to 70 kilograms and open to 70 per cent of their depth. They are manufactured from aluminium with a natural anodised finish to protect against stains and scratches. The system can be freely combined to suit your cargo and vehicle perfectly. Units are available in two widths, two heights and five depths. They can be stacked on top of one another using stacking profiles. The extendable drawers have ball bearing runners for easy opening and closing. All drawers are equipped with aluminium handles with a catch to keep the drawers closed while in transit. Drawers also have a leaf spring safety catch to prevent them from sliding out fully when opened.

Extendable frames

Practical extendable frames for permanent mounting in vehicle. Designed for use with a separate loading platform of corresponding size. The extendable frame locks automatically in the extended and closed positions. Load capacity approx. 200 kg with an evenly distributed load. The frame consists of a steel structure with runners and fittings, etc.



Work benches and tool boards

Combining module system work benches, tool boards, drawer units, extension frames and shelving creates a practical and convenient work space with plenty of room for storage.

Bench top

Bench top in beech wood with a stop at the rear and steel edging at the front. Available in widths of 972 mm, 1134 mm and 1458 mm. The 1458 mm wide bench top is prepared for easy cutting to a width of 1296 mm. Total height 54 mm.

Angle bracket for bench

Can be fitted to shelf end supports as a support bracket for bench top.

Tool boards

A flexible system for tool storage. The system has 9 mm square holes with a spacing of 34 mm. The tool boards and tool rails can be used in many different ways wherever you need to keep tools in order. Tool boards and rails are made from aluminium.



Equipment and tools for monitoring and maintenance of cathodic corrosion protection systems

Qty.	Description	Chapter	Document No.
1	Portable transformer rectifier 230 V/50 Hz, DC output: 0-50 V, 0-20 A	02	02-109-R1
1	Multifunction instrument MoData 2	11	11-200-R1
3	Current interrupter GPS-Syntakt	11	11-501-R1
2	Datalogger MiniLog 512	11	11-401-R1
1	Soil box, Test cell	11	11-310-R1
2	Digital multimeter FLUKE 175	11	11-106-R1
1	High voltage insulation tester METRISO 5000A	11	11-108-R1
6	Portable reference electrode Cu/CuSO ₄ , Type: RE5 complete	11	11-701-R1
1	Portable reference electrode Cu/CuSO ₄ , Type: CUS-01	11	11-701-R1
1	Electronic pin bracing unit, Type. S30XC complete	09	09-500-R1
1	Ground resistance tester GEOHM C with accessories set 4	11	11-301-R1
1	Pipe and cable locator, Type: RD8000	11	11-601-R1
1	DC Microvoltmeter, Type: 2000	11	11-101-R1
1	Holiday (Pin Hole) detector, Type: Poro Test 7	11	11-620-R1
1	DC AC Inverter, DC 12V / AC 230 V, 50 Hz, 600 VA	---	---
5	Handheld cable reels with 50 m measuring cable 0.75 mm ²	---	---
4	Cable reels BIGSPOOL with 900 m measuring cable 0.75 mm ²	---	---
1	Electrical soldering set, 230 V, 80 W	---	---
1	Blow torch with automatic piezo ignition	---	---
5	Gas cartridges for blow torch	---	---
8	Grounding rods with wooden handle	---	---
2	Professional 186 piece tool set	---	---
1	Set of alligator clips, banana plugs, etc.	---	---
1	Set of test leads	---	---
1	Set of spare batteries	---	---
1	Set of consumables	---	---

Equipment can also be provided in accordance with enduser requirements.

MOBILE SERVICE VEHICLES

Mobile workshop

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Mobile workshops

Supplied fully equipped according to your requirements: for example with work benches and cupboards, welding generator, flame cutter, machines and tools, compressor, power generator, special tools, lifting equipment etc. Door divisions, optional separate generator room and machine configurations designable by your specifications.

A wide range of vehicles suitable for your application

We have worked closely for many years with all major manufactures of commercial vehicles. What ever your choice of vehicle, we can provide the best solution for you and your cathodic corrosion staff.

As example: Daimler Benz Unimog 435/U 1300 L

Technical data

Engine	Direct injected diesel engine
cylinders	6 in series
cylinder bore x stroke	97 x 128 mm
stroke volume	5675 ccm
output	130 PS (96 kW) at 2800 rpm
torque	36.3 mkg at 1800 rpm
compression ratio	1:17
fuel injection pump	Bosch
valves	overhead, side cran shaft, drive trough spur gear
crankshaft bearings	7
cooling	water / pump
lubrication	forced-feed lubrication
battery	2 x 12 V, 125 Ah
generator	3 phase, 55 Ah, 24 V (1540 W)
starter	24 V, 2.9 kW

Power transmission	All-wheel drive
clutch	single-plate dry clutch
gearshift	3 gearshift levers
transmission	8 speed transmission
synchronizer	I - VIII
gear ratio reduction	6.36

Chassis	U-section frame
front suspension	portal axle rigid, coil springs, stabilizer
rear suspension	portal axle rigid, coil springs, and added springs
steering system	recirculating ball, servo 5.5
foot brake	compressed air-hydraulic. 2 circuits
hand brake	accumulator, rear wheels



Double wing rear door. Galv. steel entrance ladder with non-slip steps mounted under truck body.

Window design and arrangement according to enduser requirements.



Roof rack with flood lights for night use

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General data	
wheelbase	3250 mm
tread width front / rear	1860 / 1860 mm
overall dimensions	5540 x 2300 x 2750 mm
cargo area	3150 x 2200 mm
loading height	1230 mm
tires	12.5R20MPT
fording depth	440 mm
turning circle	13.8 m
vehicle weight	5250 kg
total weight (perm.)	7500 kg
total weight	5190 kg
top speed	80 km/h
consumption / 100 km	21 liters



Site use

In most cases, the mobile workshop must be placed as close as possible to the job site. Vehicles carefully selected for best performance on and offroad.

Versatility

The mobile workshop will be equipped with carefully selected multi-purpose tools and all equipment required.

Climate Characteristics

According to enduser specifications, we can provide vehicles, bodies, chassis, tools and equipment for extremely hot, cold, dry and humid working environments.

