

# CASSPIR NG2000B MPV 4 x 4



CASSPIR Mine Protected Vehicles – Missions accomplished world wide for more than 30 years ,its more than just a Legacy it's a CASSPIR – Simplicity, Reliability and Quality – Your MPV of choice suitable for many applications.

It is Time for the Next Generation – CASSPIR NG2000/2000A/2000B - Improved, Better and still trusted Quality based on its Legacy proven success history



DENEL LAND SYSTEMS



## WD10.290E32 Engine

### SPECIFICATIONS

Configuration	Turbo Charged Diesel, Water Cooled 4 stroke direct Injection
Rated Output	213 kW@2200 rpm
Rated Hp	290 Hp
Number of Cylinders	6 In line
Exhaust Emission	Euro 2

### ENGINE SPECIFICATIONS

Steyer (Weichai) WD10.290 Diesel Euro 2 Engine is a lightweight, powerful, high speed diesel engine. Weichai Steyer Engines is known for reliability, very economical and easy to maintain and operate. The engine is well established and very versatile originally under Steyer license in Austria. These Engines is fitted to a wide range of vehicles and specific very suitable for the Military Market and Heavy construction industry. Weichai engines are also the engine of choice for NORINCO Military Vehicle solution Manufactures.

Daimler AG approve Weichai power source of choice to be the prime power drive train in Powerstar Trucks assembled in South Africa.



### GEARBOX

The CASSPIR NG2000B (Powerstar & Beiben) series of heavy duty vehicles utilizes world renowned transmission design concepts. In the CASSPIR NG2000B model the standard transmission used is the ZF series fully synchromesh. These transmissions are of a robust and simple design, being easy to maintain and operate.

### SPECIFICATIONS

Make/Type	ZF 5S-11 GP
Forward Gears	9
Input Torque	1250 Nm



### TRANSFER CASE

CASSPIR NG2000B is fitted with a two range type transfer case for High and low range application. Out of the Mercedes Benz ZF stable a reliable and simple design allows the distribution of torque and drive to the front and rear axles.

### SPECIFICATIONS

Type	ZF VG1400-3W
Ratio -Road	1:1
Ratio – Off road	1:403



### Clutch

Type	GFX 420 Single plate
Operation	Hydraulic Actuation
Disc Diameter	420 mm

### Brakes

Service	Dual Circuit Full-Air, drums all round
Emergency/Parking	Spring Brakes on Rear Wheels
Auxiliary	Remote mounted engine exhaust brake

### WHEELS AND TYRES

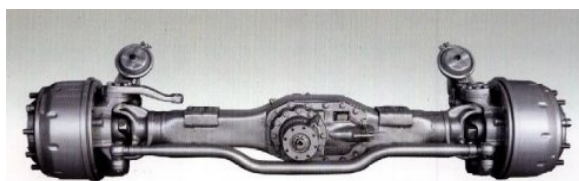
CASSPIR NG2000B is fitted as standard with 4 driving wheels assisted with 2 spare. As option vehicle can be fitted with Run Flat wheels at an additional cost.

SPECIFICATIONS	(Standard)
Rims	10:00 x 20 Single Steel
Tyres Type	M-Type
Tyre Size Front	14:00 x 20 Single
Tyre Size Rear	14:00 x 20 Single
Spare Wheel Qty	2
Spare Wheel Type	As above



### AXLES & SUSPENSION

CASSPIR NG2000B is equipped with the well known MB heavy duty axles, built to original and license specifications in cooperation with Daimler AG and Switzerland. Both axles fitted to CASSPIR NG series is of a high axle load carrying capacity. Where majority MPV's are fitted with a 7000 kg front axle, CASSPIR NG2000B is fitted with a 9000kg load carry capacity axle that allows for upgrade to B7 plus Armour. All materials used in the manufacturing are strictly German DIN compliant and standards.



#### Front Axle

Type	AR7/01 DS-9
Suspension	Semi eleptic steel leaf spring with dual acting telescopic shock absorbers
Axle Load	9000 kg

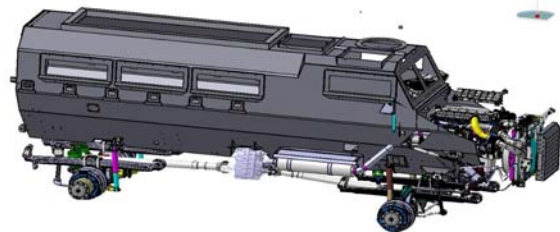


#### Rear Axle

Type	HL7/01DS-13
Suspension	Semi eleptic steel leaf spring with dual acting telescopic shock absorbers
Axle Load	13000 kg

### CHASSIS

CASSPIR design is not on a vehicle chassis concept but adopt the welded V-shape monoqogue design where the drive train is bolted and integrated to the vehicle.



### STEERING

CASSPIR NG2000B can be either Left or right hand drive. Steering is a hydraulic operation .Fitted with a ZF8098 Steering box.

### AIR CLEANER SYSTEM

CASSPIR NG2000B is fitted with a Donaldson dry paper element Air cleaner

### ELECTRICAL EQUIPMENT

Alternator	24 V
Starter	24 V – 5,4 kW
Batteries	2 x 12 V, 120 Ah

### HULL

One piece welded and bend single construction V-shaped Mine protected Hull.

SPECIFICATIONS	(Standard)
Steel Type	ArmoX 500
Thickness	9 mm
Level	B6 (Optional B7 Upgrade)

### BALISTIC AND MINE PROTECTION DATA

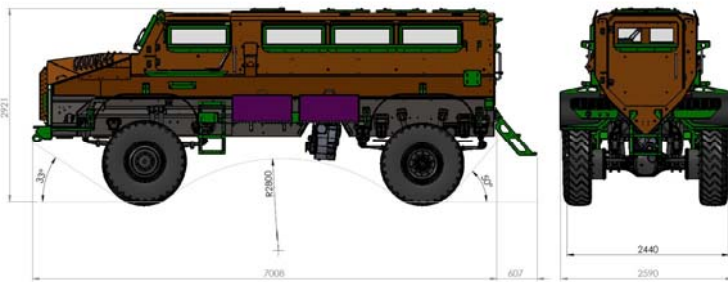
Mine Protection Hull	14 kg Blast under Hull
Mine Protection Wheel	21 Kg blast under any Wheel
Level	B6 7,62 mm x 51
STANAG KE	4569 L3
STANAG BLAST	4569 L4a & L4 b



## INSTRUMENTS

Standard interior vehicle Instruments that include speedo/odometer, revolution counter, fuel, engine, temp and oil pressure gauges.

VEHICLE	DIMENSIONS
Dead Weight	11500 kg
Gross Vehicle Weight	14500 kg*
Towing Capacity	13500 kg
Wheel base	4800 mm
Track width	2440 mm
Overall length	7008 mm
Overall Height	2921 mm*
Overall width	2590 mm
Hump Radius	R2800
Ground Clearance	350 mm
Turning Radius	16 m
Step Height climb	500 mm
Ditch Crossing	800 mm
Fording depth	800 mm
Angle of Approach	33°
Angle of Departure	50°
Tilting Permitted	26°*



## PERFORMANCE DATA

Speed	90 Km/h = 9 spd
Climbing Capability	60%
Road Range	900 Km
Off road Range	600 Km

## WINDOWS

CASSPIR NG2000B is fitted with ballistic tested polycarbonate laminated layered bullet resistant windows. Integrated within the window a gun port encased in a rubber with the complete window fitted to a frame.

## INTERIOR



Large open interior with design features to shift the seat configuration as to client requirement. All seats are of the latest and tested ballistic type fitted with a 4 point safety harness system.

## VEHICLE EXTERIOR

Vehicle is fitted with two side crew door and one passenger rear entry exit door. A drinking water tank, two stowage lockable boxes and a battery box are all fitted to the side of the vehicle.

## STANDARD ACCESSORIES

- Air conditioner
- Toolbox with Tools
- Jack, Wheel-spanner and tyre inflator.
- Spade, Axe and Pick
- Tow bar
- Wheel Hub protection armour plates

## OPTIONAL

- RFI Wheels
- Side Pintle Mounts -7,62 mm LMG NATO
- Main Turret Mount – 12 mm NATO
- Front Mounted Hydraulic Vehicle Winch.
- Additional Armour Kits with a upgraded suspension

## CASSPIR VARIANTS

- CASSPIR Recovery – 4 x 4 Medium
- CASSPIR Recovery Heavy – 6 x 6 Heavy
- CASSPIR Ambulance – 4 Patient Transport
- CASSPIR Command
- CASSPIR Weapon Platform – AA and Indirect
- CASSPIR Logistics – 4 x 4 or 6 x 6 Cargo
- CASSPIR Short – Reconnaissance Vehicle.