



**PROTECT WHAT
MATTERS MOST**



ABOUT US



Cemar Auto DMCC is the R&D and innovation arm of Cemar Group, focused on developing tailored solutions for armored mobility and materials engineering.

Here at CAD, we invest in technologies that address real-world challenges, enhance performance, and support global market demands. By leveraging industry partner ships and staying ahead of trends, we deliver solutions that set us apart in the defense and mobility sectors.

We integrate advanced design tools like Siemens NX, CypNest, Autodesk AutoCAD, SolidWorks, and Almacam to deliver precision-engineered solutions for armored vehicles. Our focus includes lightweight armor integration, modular cabin design, and efficient semi-automated fabrication. We also provide training and support to ensure smooth implementation on client platforms.

CAD collaborates with internationally accredited labs for full prototyping, ballistic testing, and performance validation of its vehicles and armor systems. We ensure full compliance with global standards such as STANAG, VPAM, and NIJ.

We provide support across prototyping, documentation, and on-site validation to help clients meet technical and regulatory requirements.



SERVICES



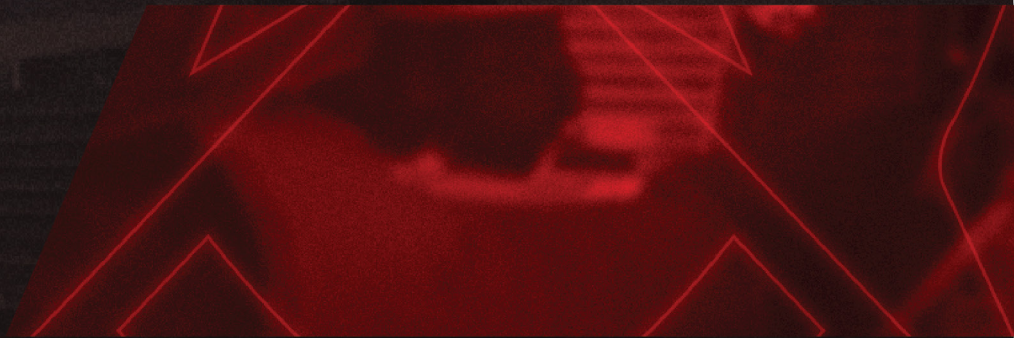
**Military Chassis
Provider**



**Robotic Fabrication
of Armored Cabins**



**Complete Military Chassis
And Full Armoring Kits With
Design & Manufacturing
Support**



MODULAR MILITARY CHASSIS PLATFORMS

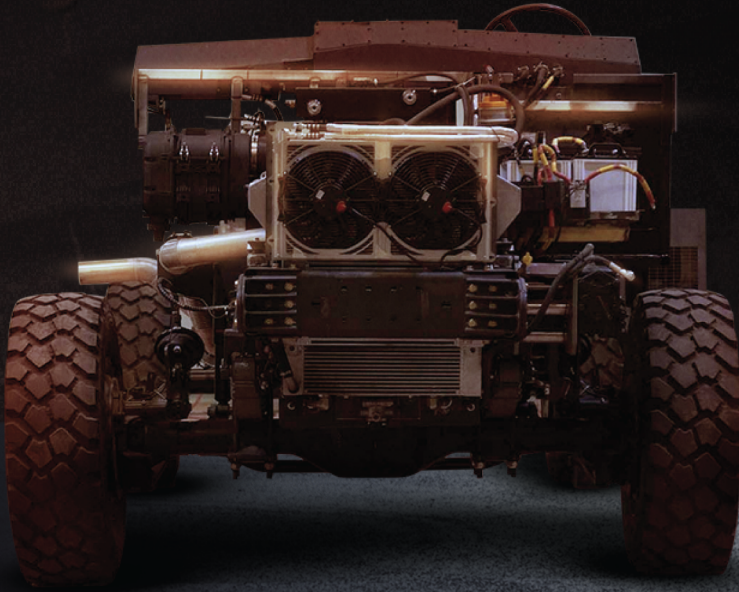


Military Chassis Platforms are the structural backbone of armored and tactical vehicles. Designed to handle extreme terrains and high payloads, these chassis are engineered for durability, adaptability, and mission-critical performance.

At CAD, we offer a complete range of military grade chassis from light-duty to heavy-duty customized for integration with various defense systems and armored body configurations.

CEMCHAS 10/TITRA

Midweight Modular Platform Built for Mission Use



SPECIFICATIONS

DIMENSIONS (mm)

Wheelbase	3300
Overall Chassis Length	4842
Front Overhang	1160
Rear Overhang	1542
Front & Rear Track	2044
Chassis Height	953
Ground Clearance	363
Departure Angle	38°
Approach Angle	40°
Overall Chassis Width	2380

WEIGHT (kg)

Est. Kerb Weight	4920
Front Axle Kerb Weight	3080
Rear Axle Kerb Weight	1840
Payload	5780
Max. Permissible Total Wt. Front	4280
Max Permissible Total Wt. Rear	6420
Gross Vehicle Weight	10700

GEAR BOX

Allison Fully Automatic 2500 SP Series
Forward: 6
Reverse: 1

STEERING

Integral Hydraulic Servo Powered
Steering Angle (In Tire): 35°
Kerb to Kerb (m) R: 7.7
Wall to Wall (m) R: 8.4

TORQUE CONVERTER

Fully Automatic
Transmission with Torque Converter
TC-413 Stall Ratio: 2,44

PERFORMANCE

Max Speed: 110 km/h
Gradeability: 60%
Side Slope: 30%
Range (On Road): 600 km
Fording Depth: 700 mm

ENGINE

Cummins ISB 285 HP E3
Displacement 6.7L 6 Cylinders, In-line
Max Power: 285 HP, 2500 rpm
Max Torque: 970 Nm, 1200 rpm
Fuel Tank Capacity: 200L

CHASSIS

Made: High-Resistance Steel Single Rail,
"C" Section, Ladder Type, Bolted

AXLES

Front: Drive, Steer, Rigid
Rear: Drive, Rigid
GAWR: F/R max: 5000/5700 kg
Total Axle Ratio: 6.36:1
Planetary, 100% Air Assist Diff. Lock
335 PCD, 280, 8 Pilot Dia, 10 Studs, M22x1.5
In-Put Flange: 150 KV

SUSPENSION

Front: Coil Spring, Linkage System,
Shock Absorbers, Antiroll Bar
Rear: Parabolic Leaf Spring,
Shock Absorbers, Antiroll Bar

ELECTRICAL SYSTEM

Main System: 24V 120Ah
Battery: 2x12V 120Ah
Alternator: 24V 120A
Black Out Light System

TIRES & RIMS

Tires: 335/80 R20
Rims: 20-11 SDC

OPTIONS

-32° C Cold Working Kit
CTIS
Run Flat
24V Recovery Winch
Wiper Mechanism
Towing Hook

BRAKES

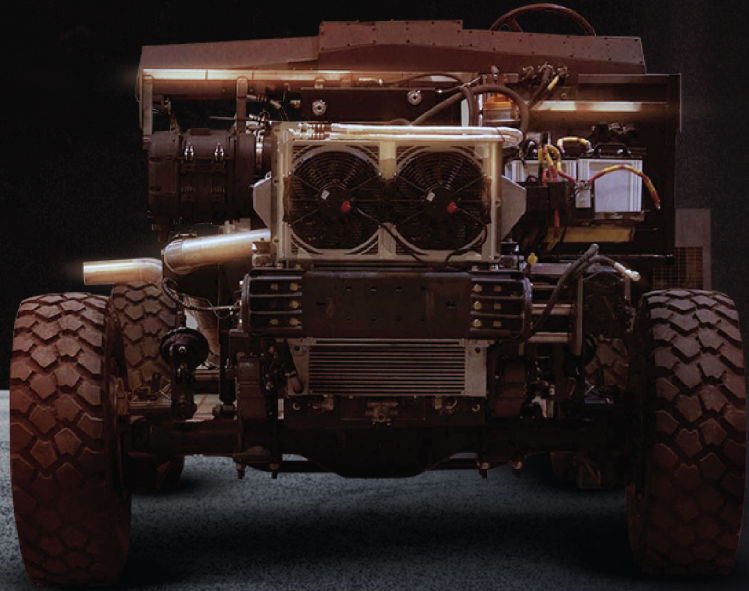
Air Assist Hydraulic System,
Double Circuit, Disc Brake,
Front & Rear ABS

TRANSFER CASE

Model: TDT-50
Ratios: N,L/H 4x4-4x2
Shifting 1:2,5

CEMCHAS 14T RA/ISAS

Agile Military Chassis for Demanding Operational Environments



SPECIFICATIONS

DIMENSIONS (mm)

Wheelbase	3800
Overall Chassis Length	6200
Overall Chassis Width	2600
Ground Clearance	350
Approach Angle	Min 35°
Departure Angle	Min 35°
Front Track	2250
Rear Track	2200

WEIGHT (kg)

Est. Kerb Weight	4000 - 5000
Front Axle Load (Max)	7000
Rear Axle Load (Max)	7000
Payload	8000 - 9000

TUNING CIRCLE DIAMETER (m)

Left Lock	14.75
Right Lock	15.75

CHASSIS

Ladder Frame Chassis

GEAR BOX

Allison Fully Automatic 2500 SP
Allison Fully Automatic 3200 SP

STEERING

Right Hand Side Drive
Left Hand Side Drive
Hydraulic Power Assisted

CONDITIONS

Operating Temperature: -20 °C to +55 °C

PERFORMANCE

Max Speed: 85 - 100 km/h (surface dependent)
Gradeability: 30°
Side Slope: 17°
Trench Crossing: 500 mm
Fording Depth: 700 mm

ENGINE

Cummins ISB 6.7L 285/340 HP
Type: Turbo, Intercooler, Diesel
Displacement: 6700 cc
Max Power: 210 kW / 285/340 HP @ 2500 r/min
Max Torque: 970 Nm @ 1200 to 1700 r/min
Idle Speed: 600 - 800 rpm
Max Over-Speed Capability: 4200 rpm (15s max)

AXLES & SUSPENSION

Front & Rear: Rigid/ISAS
Front Axle Capacity (Max): 7000 kg
Rear Axle Capacity (Max): 7000 kg

PNEUMATIC SYSTEM

Compressor: Engine Mounted
Protection: Air Processing Unit
Operating Pressure: ±8 Bar
Min. Pressure: 5 Bar (low air pressure warning light comes on)

FUEL SYSTEM

200L Fuel Tank Capacity
Fuel Lubricity & Fuel/Water Separator Filter

ELECTRICAL SYSTEM

Nominal Voltage: 24 V
Battery: 2 x 12 V (150 Ah)
Alternator: 28 V / 150 A
Starter: 24 V, 4 Kw

TIRES & RIMS

Tires: 365/80 R20; All-Terrain Tires
Rims: 10 x 20 Aluminum
Run Flat (Optional)
No. of Wheels: 4

BRAKES

Pneumatic Brake System with ABS

TRANSFER CASE

ZF VG 750
Type: Selectable 4x2 & 4x4,
hi/low range, ratio (low/high): 2.1/1.1

SEATING SYSTEM

Quantity: 1
Front Seats Type: Fully Adjustable

DASHBOARD INSTRUMENTS

Speedometer (km/h)
Odometer (km)
Tachometer (rpm)
Fuel Indicator
Engine Temp. Indicator
Air Pressure Indicator
Oil Pressure Indicator
Running Hour Meter
Warning Lights according to chassis functionality

CEMCHAS 17T ISAS

Heavy-Duty Chassis for Demanding Defense Operations



SPECIFICATIONS

DIMENSIONS (mm)

Wheelbase	3300/3800
Overall Chassis Length	5800 (6285)
Overall Chassis Width	2550
Ground Clearance	410
Departure Angle	50°
Approach Angle	40°
Front & Rear Track	2100
Front Overhang	1080 (1485)
Rear Overhang	1000
Chassis Height	1020

WEIGHT (kg)

Est. Kerb Weight	8000
Front Axle Kerb Weight	4750
Rear Axle Kerb Weight	3250
Payload	9000
Max. Permissible Total Wt. Front	8500
Max Permissible Total Wt. Rear	8500
Gross Vehicle Weight	17000

GEAR BOX

Allison Fully Automatic 3200 SP Series
Forward: 6
Reverse: 1

STEERING

Integral Hydraulic Servo Powered
Steering Angle (In Tire): 30°

TORQUE CONVERTER

Fully Automatic
Transmission with Torque Converter

PERFORMANCE

Max Speed: 110 km/h
Gradeability: 60%
Side Slope: 30%
Range (On Road): 600 km
Fording Depth: 800 mm

ENGINE

Cummins ISLeT450
Displacement 8.9L 6 Cylinders, In-line
Max Power: 450 HP, 2200 rpm
Max Torque: 1627 Nm, 1300 rpm
Fuel Tank Capacity: 200L

CHASSIS

Made: High-Resistance Steel Single Rail,
"C" Section, Ladder Type Bolted

AXLES

Front: Drive, Steer, Isas
Rear: Drive, Isas
GAWR: F/R max: 8500/9000 kg
Total Axle Ratio: 6,36:1
Planetary, 100% Air Assist Diff. Lock

SUSPENSION

Front: Double-Wishbone,
Coil Spring, Shock Absorbers
Rear: Double-Wishbone,
Coil Spring, Shock Absorbers

ELECTRICAL SYSTEM

Main System: 24V 240Ah
Battery: 2x12V 120Ah
Black Out Light System

TIRES & RIMS

Tires: 395/85 R20
Rims: 20.00 W-20

OPTIONS

-32° C Cold Working Kit
CTIS
Run Flat
24V Recovery Winch
Wiper Mechanism
Towing Hook

BRAKES

Full Air Brake System,
Double Circuit, Disc Brake,
Front & Rear ABS

TRANSFER CASE

Model: T Series
Ratios: N-H/L Shifting

ARMORED PERSONNEL CARRIERS (APCs)





Armored Personnel Carriers (APCs) are tactical vehicles designed to transport troops safely through hostile environments. Built with Ballistic Steel and well engineered, APC's play a vital role in modern military and security operations.

Here at CAD, we specialize in manufacturing advanced APCs that combine superior protection, mobility, and operational reliability tailored for diverse mission requirements around the world.

CEMAPC 11 RA

Lightweight. Mobile.
Mission-Ready.



CEMAPC 14 RA

Balanced Power.
Full Spectrum Protection.



CEMRAP 17 ISAS

Heavy-Duty Defense.
All-Terrain Dominance.





ENGINE
Cummins ISB 285 HP, E3



PAYLOAD
6 Tons



FUEL CAPACITY
200 Litres



TRANSMISSION
Automatic 6 Speed



WHEELBASE
3300 mm



TYRES
335/80 R20



CREW
2 + 10



CONSTRUCTION
Chassis



ELECTRICAL SYSTEM
24V



KERB WEIGHT
5 Tons



ROAD RANGE
600 km



DIFFERENTIAL LOCKS
Front, Rear & Centre

SPECIFICATIONS



ENGINE
Cummins ISB 285 HP



PAYLOAD
6 Tons



FUEL CAPACITY
200 Litres



TRANSMISSION
Automatic 6 Speed



WHEELBASE
3800 mm



TYRES
365/80 R20



CREW
2 + 10



CONSTRUCTION
Chassis



ELECTRICAL SYSTEM
24V



KERB WEIGHT
8 Tons



ROAD RANGE
600 km



DIFFERENTIAL LOCKS
Front, Rear & Centre

SPECIFICATIONS



ENGINE
Cummins ISL 450 HP



PAYLOAD
5 Tons



FUEL CAPACITY
200 Litres



TRANSMISSION
Automatic 6 Speed



WHEELBASE
3300 mm



TYRES
16.00 R20



CREW
2 + 8



CONSTRUCTION
Monocoque



ELECTRICAL SYSTEM
24V



KERB WEIGHT
12 Tons



ROAD RANGE
500 km



DIFFERENTIAL LOCKS
Front, Rear & Centre

SPECIFICATIONS

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