



SHIELD

WHAT MATTERS
MOST



*Picture for illustration purposes only

INTRODUCTION

CAD, an R&D and innovation firm, invests in initiatives aimed at driving meaningful change. We focus on researching and developing ideas that align with competitive strategies, hastening global growth, and delivering tailored solutions to our clients.

Our primary objective is to identify and address challenges faced by our clients through innovative R&D efforts. By staying abreast of technology trends, engaging with international platforms, and collaborating with leading entities in our strategic areas, we strive to offer unique solutions that distinguish us in the industry.



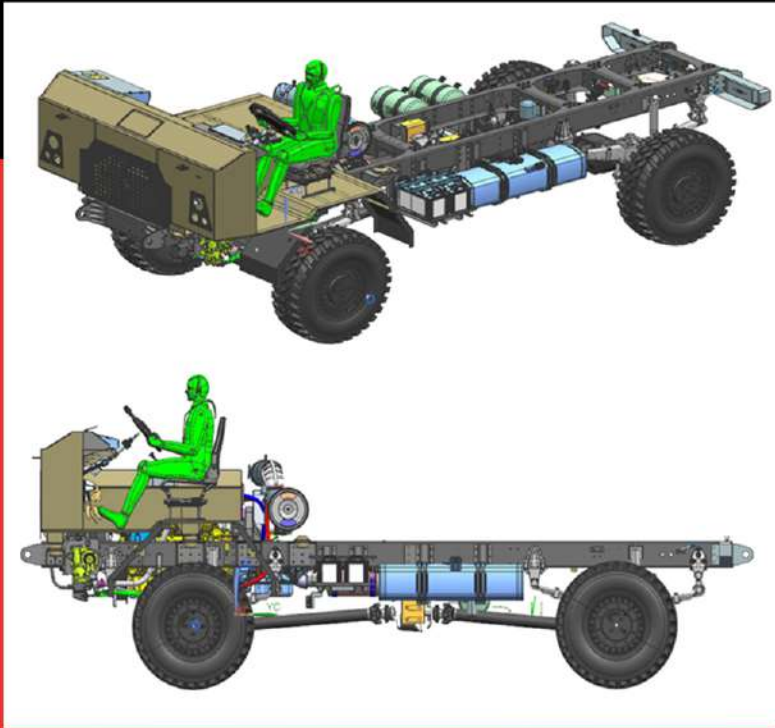
SERVICES

- Military Chassis Provider
- Robotic Fabrication Of Armored Cabins
- Complete Military Chassis & Full Armoring Kits With Design & Manufacturing Support
- Design & Consultancy For Armoring Projects



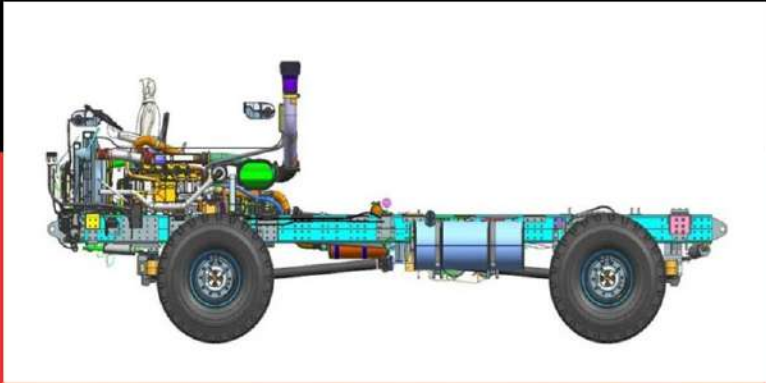
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CEMCHAS 14 RA



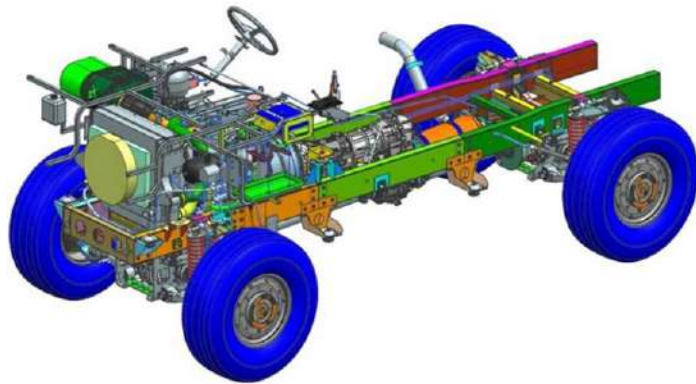
MAJOR COMPONENTS	
Engine	Cummins ISL 6.7L 285HP BSIII/EUROIII
Transmission	Allison
Transfer Case	ZF VG 750
Axes	BFL Military Grade Hub Reduction Axle
Tires	365/80R20; All Terrain Tyres
CHASSIS DIMENSIONS	
Overall Length	6200 mm
Overall Width	2600 mm
Wheelbase	3800 mm
Ground Clearance	Min 350 mm
WEIGHTS	
Kerb Weight	4000-5000 Kg
Payload	8000-9000 Kg
Front Axle Load (Max)	5000 Kg
Rear Axle Load (Max)	9000 Kg
PERFORMANCE	
Gradeability	30°
Side Slope	17°
Trench Crossing	500 mm
Fording Depth	700 mm
Max Speed	85-100 km/h (Surface Dependent)
CONDITIONS	
Operating Temperature	-20 °C to +55 °C

CEMCHAS 20 RA



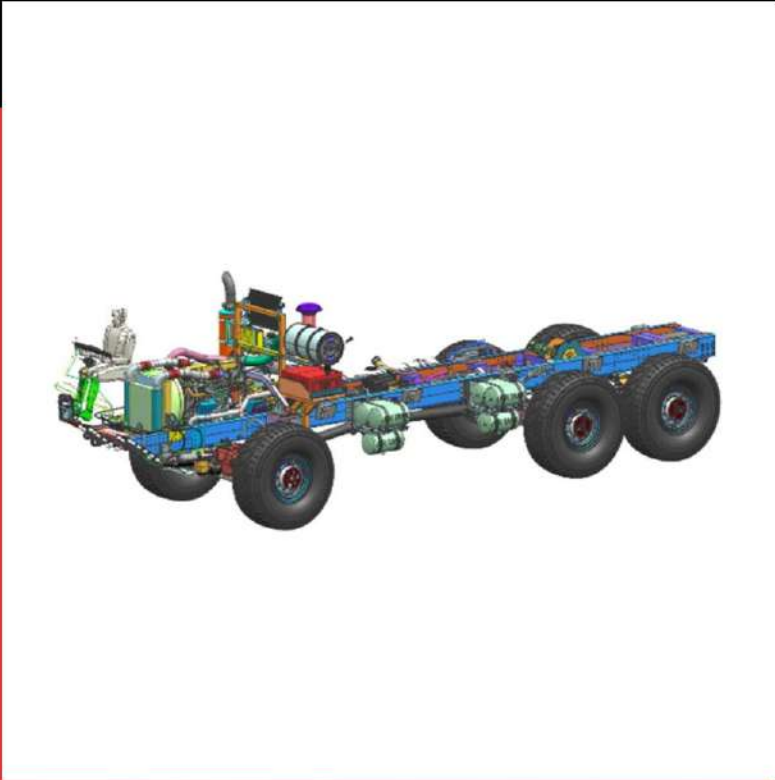
MAJOR COMPONENTS	
Engine	Cummins ISL 8.9L 450HP BSIII/EUROIII
Transmission	Allison
Transfer Case	ZF
Axles	BFL
Tires	16.00 R20
CHASSIS DIMENSIONS	
Overall Length	8100 mm
Overall Width	3026 mm
Wheelbase	4500 mm
Ground Clearance	Min 410 mm
WEIGHTS	
Kerb Weight	8350 Kg
Payload	11770 Kg
Front Axle Load (Max)	9000 Kg with 16.00 R20 XZL tyres
Rear Axle Load (Max)	11000 Kg with 16.00 R20 XZL tyres
PERFORMANCE	
Gradeability	30°
Side Slope	15°
Trench Crossing	700 mm without preparation
Max Speed	60 km/h on levelled Highway 30 km/h on semi desert terrain
CONDITIONS	
Operating Temperature	-20 °C to +55 °C

CEMCHAS 20 ISAS



MAJOR COMPONENTS	
Engine	Cummins ISL 6.7L 285HP BSIII/EUROIII
Transmission	Allison
Transfer Case	ZF VG 750
Axles	BFL Military Grade Hub Reduction Axle
Tires	14.00 R20; All Terrain Tyres
CHASSIS DIMENSIONS	
Overall Length	6200 mm
Overall Width	2400 mm
Wheelbase	3600 mm
Ground Clearance	Min 350 mm
WEIGHTS	
Kerb Weight	4000-5000 Kg
Payload	8000-9000 Kg
Front Axle Load (Max)	5000 Kg
Rear Axle Load (Max)	9000 Kg
PERFORMANCE	
Gradeability	30°
Side Slope	17°
Trench Crossing	500 mm
Fording Depth	700 mm
Max Speed	85-100 km/h (Surface Dependent)
CONDITIONS	
Operating Temperature	-20 °C to +55 °C

CEMCHAS 30 ISAS 6X6



MAJOR COMPONENTS	
Engine	Cummins 450HP
Transmission	Allison 4500
Transfer Case	ZF VG 27
Axles	AxleTech ISAS 5000 Series Independent suspensions / AxleTech MX Serie with Boggie for Rigid
Tires	14R20
CHASSIS DIMENSIONS	
Overall Length	9.5 max
Overall Width	2.6
Wheelbase	Variants: 6.1m
Ground Clearance	Min 400 mm
WEIGHTS	
Kerb Weight	12000 Kg (without drivercabin)
Payload	18000 Kg
PERFORMANCE	
Gradeability	25°
Side Slope	15°
Trench Crossing	1200 mm
Fording Depth	700 mm
Max Speed	75 to 90 km/h on road
Turning Circle Dia	<25m
CONDITIONS	
Operating Temperature	-20 °C to +55 °C

CEMCHAS 40 ISAS 8X8



MAJOR COMPONENTS	
Engine	Cummins 450HP
Transmission	Allison 4500
Transfer Case	VG 27, 0.87/1.54 ratio, with Neutral
Axles	AxleTech ISAS 5000 Series Independent suspensions / AxleTech MX Serie with Boggie for Rigid
Tires	14R20 / 16R20
CHASSIS DIMENSIONS	
Overall Length	9.5 max
Overall Width	2.6
Wheelbase	Variants: 6.1m
Ground Clearance	Min 350 mm
WEIGHTS	
Kerb Weight	12000 Kg (without drivercabin)
Payload	20000 Kg
PERFORMANCE	
Gradeability	20 to 25° deg upto 41 Ton
Side Slope	15°
Fording Depth	1100 mm
Max Speed	40 km/h on road
Turning Circle Dia	23 +/- 1m with rear steering 26 +/- 1m without rear steering
CONDITIONS	
Operating Temperature	-20 °C to +55 °C



SEMI AUTOMATION OF ARMORED CABINS MANUFACTURING

- SUPERIOR DESIGN OF ARMORED CABINS WITH LIGHT WEIGHT & ADD ON ARMOR CONCEPTS INCLUDING OPAQUE ARMOR & COMPOSITE TO MEET PROTECTION UPTO LEVEL IV AS PER STANAG STANDARDS.
- TIE UPS WITH INTERNATIONAL ACCREDITED LAB FOR PROTO TYPING, TESTING & VALIDATION.
- SEMI AUTOMATIC FABRICATION TECHNOLOGY FOR HIGH QUALITY OF WELDING & STRUCTURAL STRENGTH IN PRODUCTION LOT
- PROVISION FOR TRAINING OF INSTALLATION, INTEGRATION & TRAINING AT SITE.



**MODULAR MILITARY CHASSIS &
FULL ARMORING KITS WITH DESIGN &
MANUFACTURING SUPPORT TO COMPLY
WITH GLOBAL REQUIREMENTS**



CE-MRAP 10 RA

- MODULAR ARMORED CABIN DESIGN WITH 8 +2+2 SEATING.
- PROTECTION LEVEL UPTO STANAG II.
- PLATFORMS: F550 - D RAM & CEMCHAS 14

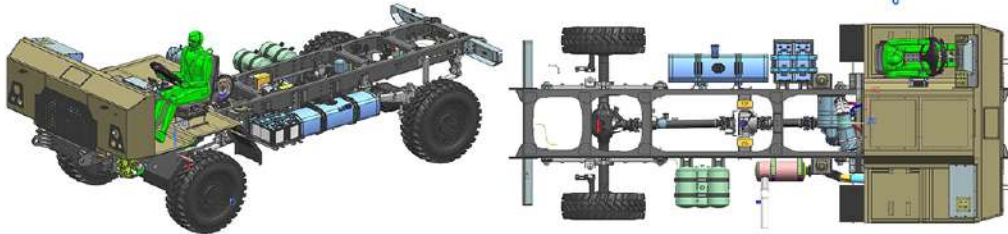


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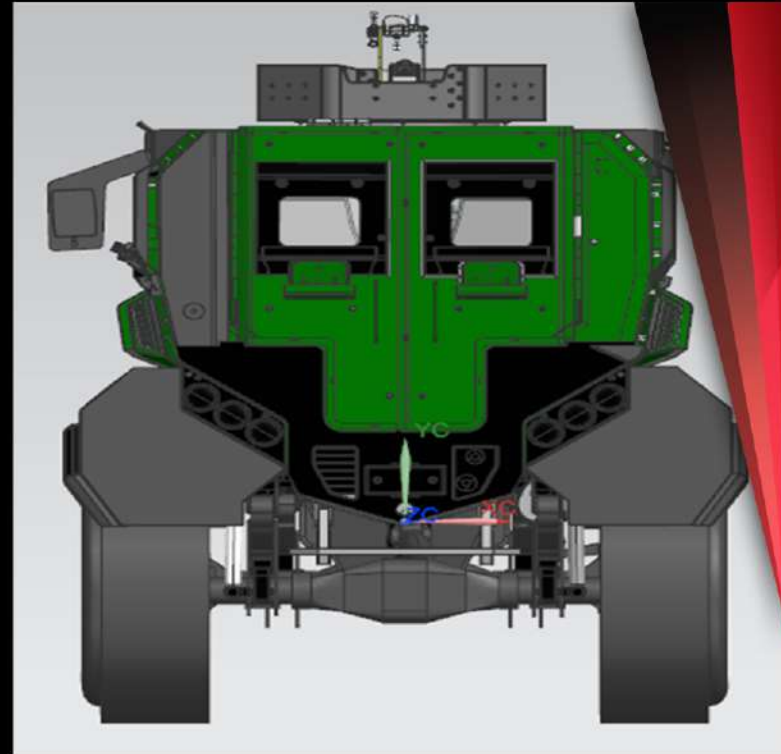
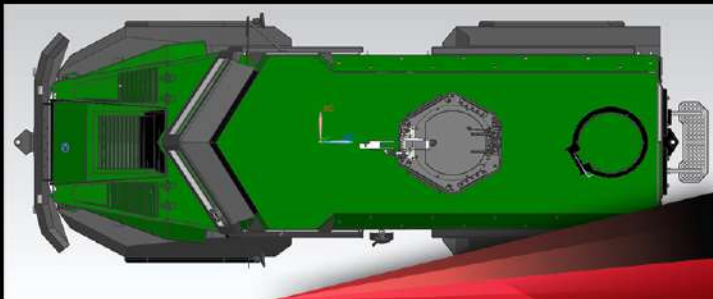


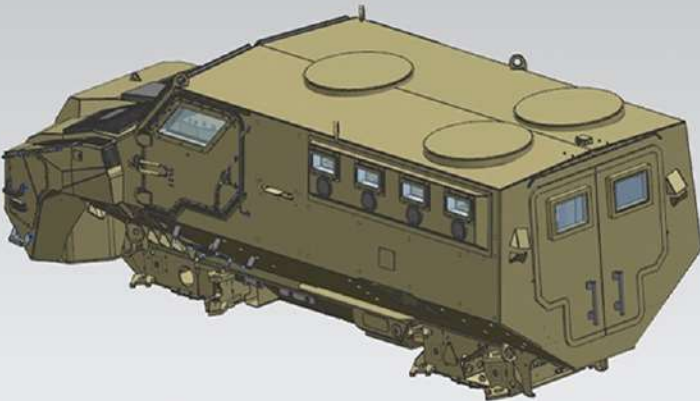
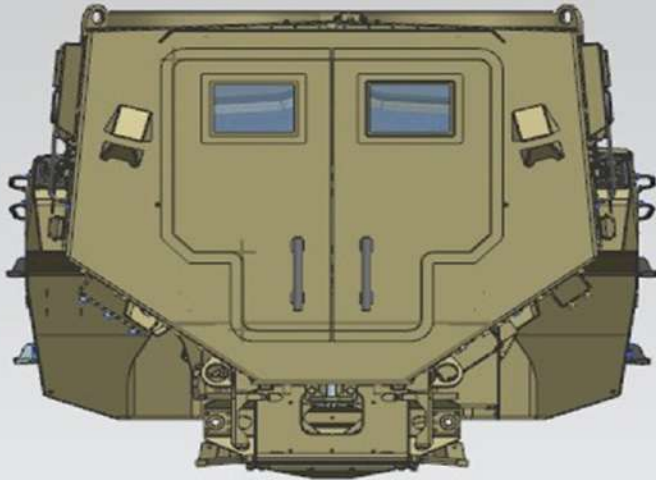
CE-MRAP 14 RA

Engine	450HP
Transmission	Automatic 6 Speed
Crew	2 + 8
Kerb Weight	15 Tons
Payload	02 Tons
Wheelbase	3300 mm
Construction	Monocoque Hull
Turning circle	<18m
Road Range	700Km
Fuel Capacity	260 Litres
Tyres	16.00R20
Electrical System	24V
Differential Locks	Front, Rear & Centre



**EXPERTISE IN PROVIDING SOLUTIONS FOR MONOCOQUE
V HULL, CHASSIS TO PROVIDE VARIOUS BLAST
PROTECTION AS PER STANAG STANDARD**

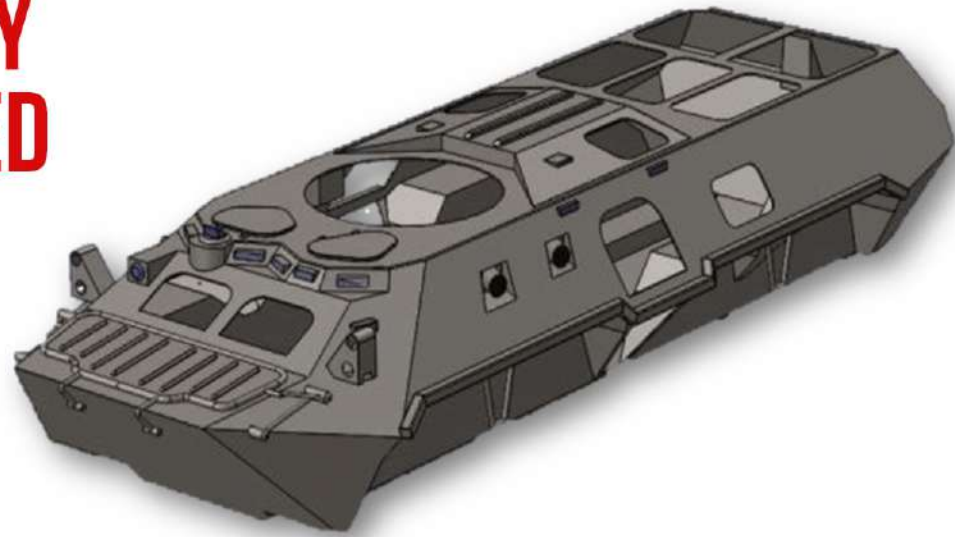




CE-MRAP 14 ISAS

Engine	450HP
Transmission	Automatic 6 Speed
Crew	2 + 6 / 2 + 8
Kerb Weight	15 Tons
Payload	02 Tons
Wheelbase	3300 mm
Construction	Monocoque Hull
Turning circle	<18m
Road Range	700Km
Fuel Capacity	260 Litres
Tyres	16.00R20
Electrical System	24V
Differential Locks	Front, Rear & Centre

DESIGN & CONSULTANCY FOR ARMORED WHEELED & TRACK PROJECTS



- Engineering & consultancy.
- Design & development concepts
- All Armoring solutions.
- Turnkey projects
- System development services and leading-edge solutions
- National & international protection standards knowledge

VARIOUS SOFTWARES USED FOR PROTOTYPING & DESIGN



AUTODESK
AUTOCAD

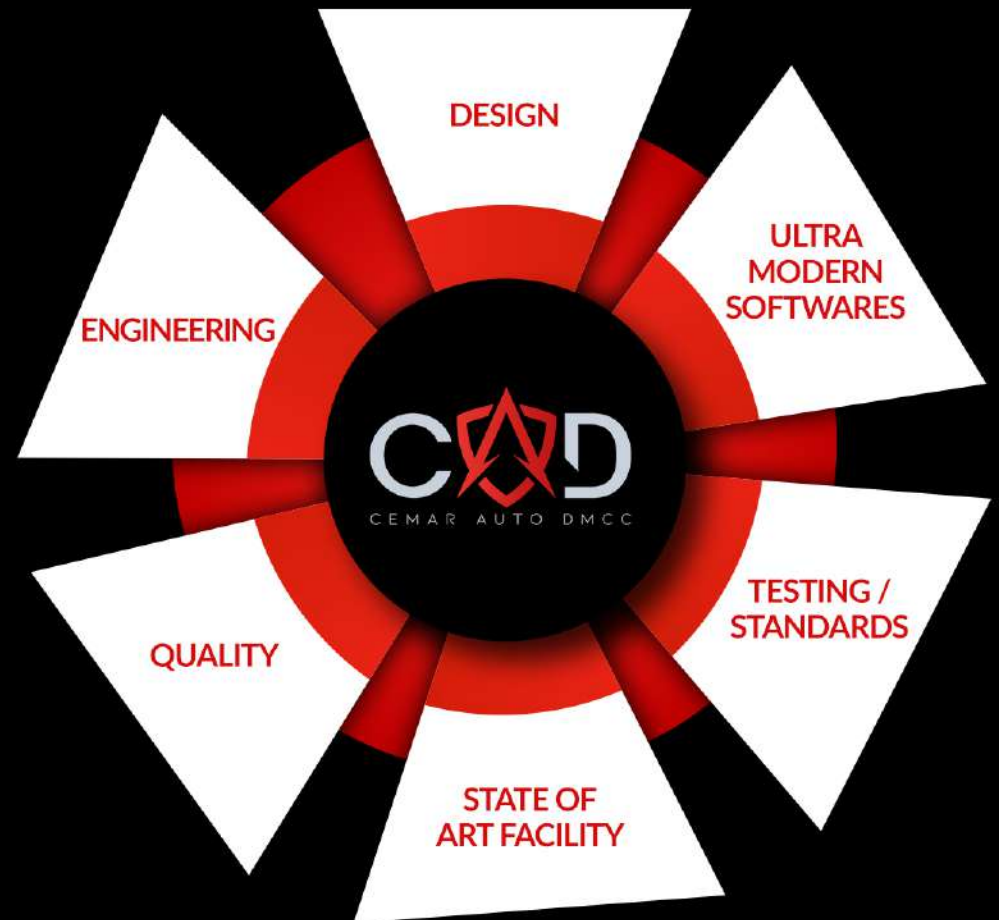


Geomagic® Design X™

TRUMPF



Ansys





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