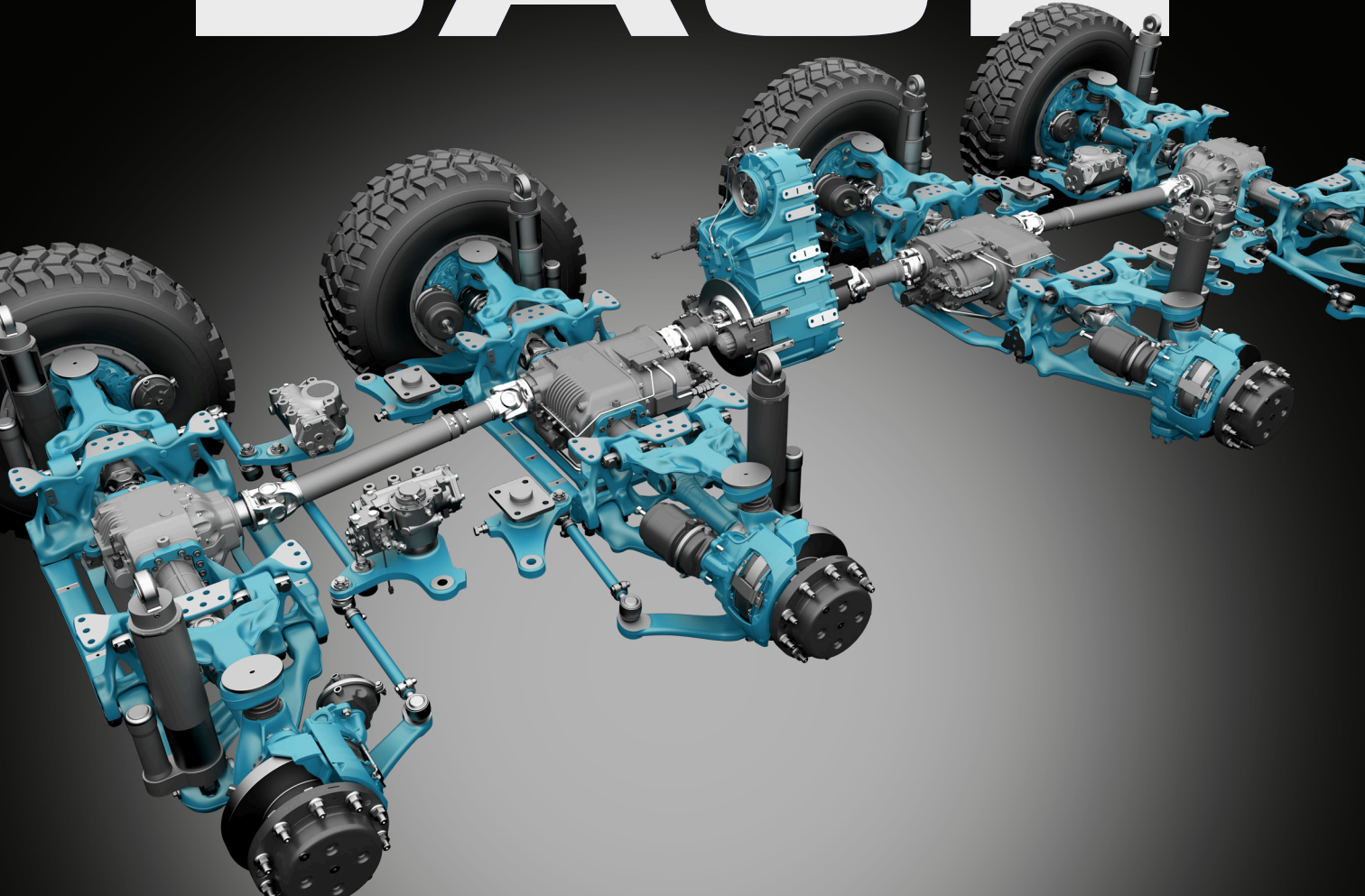
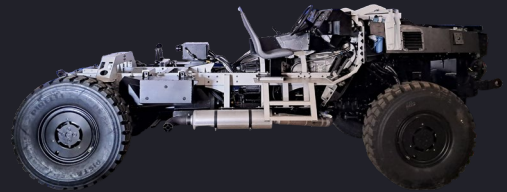
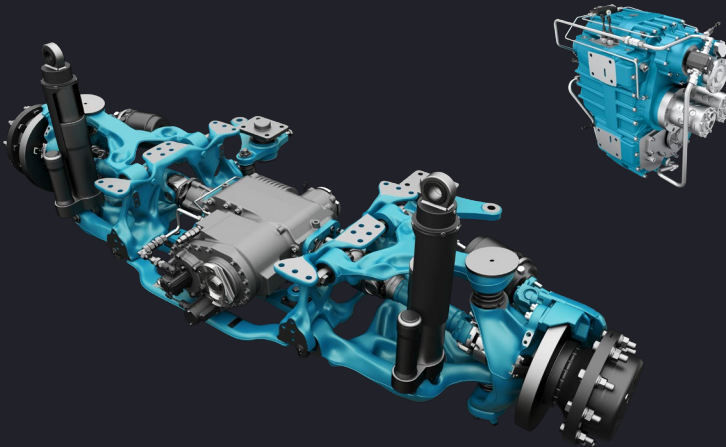


BASE



BASE: Your Trusted Drivetrain Partner.

BASE delivers heavy-duty drivetrain solutions, supplying core drive assemblies—such as axles, transfer cases, and thru drives—or complete running chassis platforms equipped with proprietary drivetrain systems.



Advanced Engineering

Advanced in-house expertise in axles, gears, and platform design



Fast Response

Agile, flat organization - decisions made fast, customers served faster

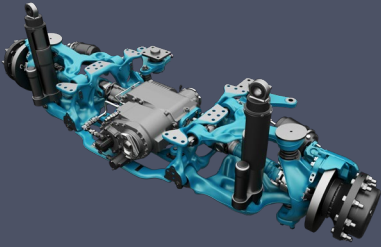


Robust Product

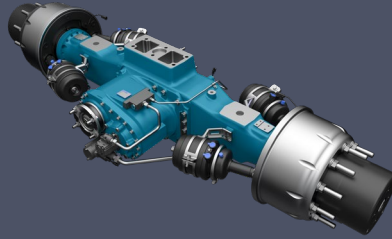
Battle-tested in Turkey, the Middle East, Africa, and Europe.

Complete Product Range, Mission-Configured

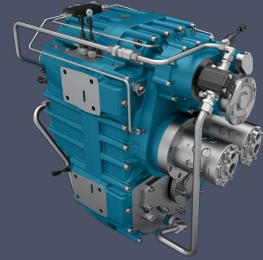
Our portfolio spans independent suspension and rigid drive axles, two-speed transfer cases, and full rolling chassis platforms—built on proven designs and adaptable to specific application requirements.



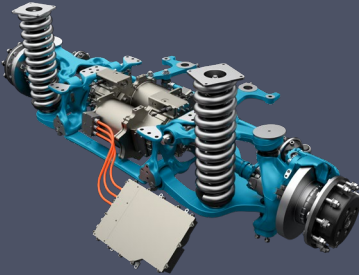
**Independent
Drive Axle**



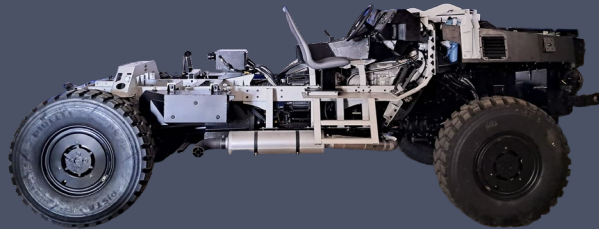
**Rigid Drive
Axle**



**Two-Speed
Transfer Case**



**Independent
eAxle**

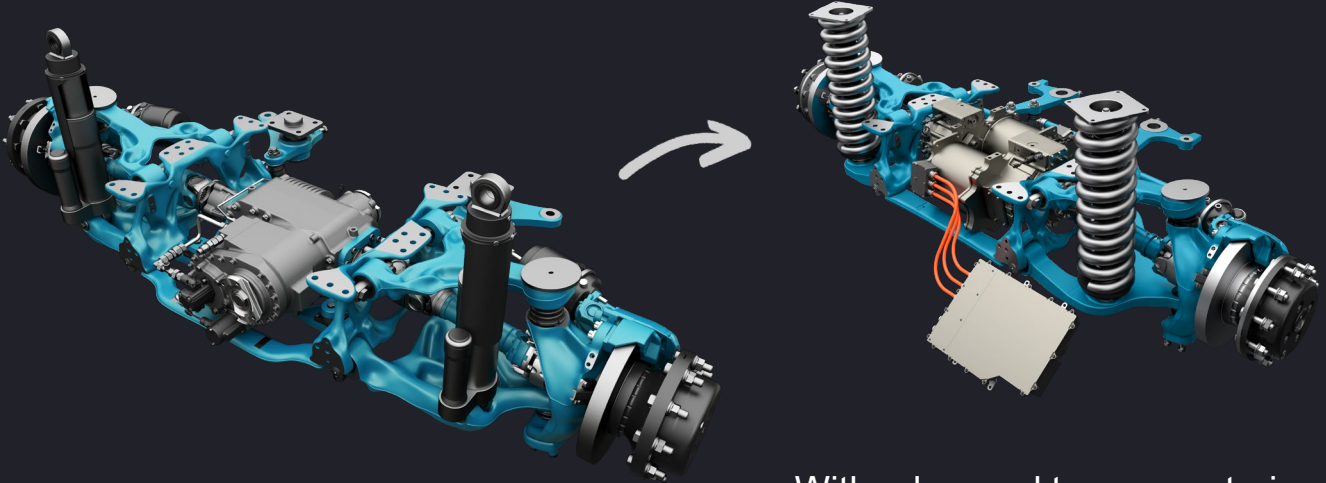


**Turnkey 4x4 Rolling
Platform**

Independent Suspension Drive Axle

The **BASE Independent Suspension Drive Axle** sets the benchmark for off-road mobility and durability. Engineered for maximum performance, it offers:

- **Tight turning radius** for unmatched maneuverability
- **Best-in-class ground clearance** to conquer any terrain
- **Lightweight strength** with advanced aluminum differential housing
- **Hub reduction** for improved torque and durability
- **CTIS-ready** for optimal tire pressure control and rapid terrain adaptation
- **Inter-wheel differential lock** for maximum traction on any surface



With advanced torque vectoring,
the BASE **e**Axle is now in road trials
on an 8×8 **plug-in hybrid** platform.

Full Coverage in 4×4, 6×6 and 8×8

BASE independent suspension drive axle offers from 4.0t to 12t axle load capacity serving to a wide range of off-highway and special purpose vehicles.



Available Configurations

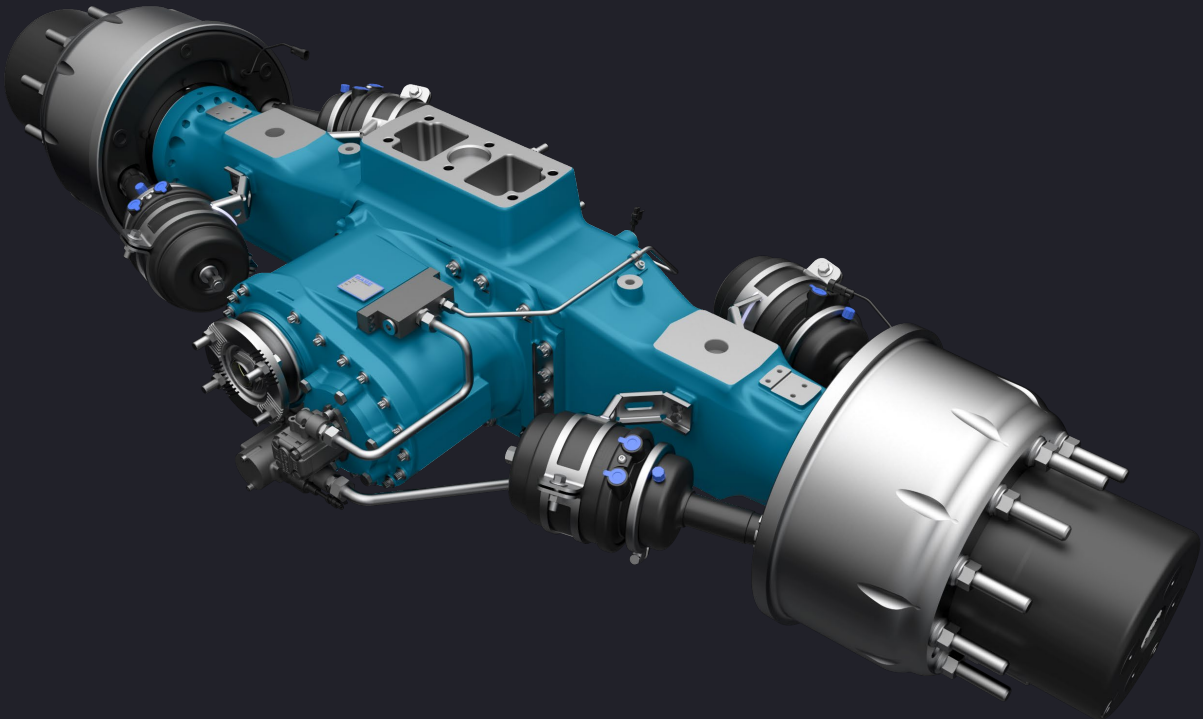
Model	Axle Load Capacity	Brake Type	Total Gear Ratio	Total Wheel Travel	CTIS Ready
BTA-040	4,000 kg	hydraulic disc	1.7:1	200 mm	Yes
BTA-080	8,500 kg	air disc	5.9, 6.3:1	300 mm	Yes
BTA-100	11,500 kg	air disc	5.3, 5.9, 6, 6.6:1	350 mm	Yes
BTA-105	10,500 kg	air disc	6.5, 6.9:1	400 mm	Yes
BTA-120	12,000 kg	air disc	6.54, 6.91:1	360 mm	Yes

Rigid Drive Axle

Engineered for uncompromising durability and performance, the **BASE Rigid Drive Axle** thrives in the most demanding conditions. Built to withstand extreme workloads, it delivers confidence in every mission.

- **Hub reduction** for improved torque and durability
- **CTIS-ready** for optimal tire pressure control and rapid terrain adaptation
- **Inter-wheel differential lock** for maximum traction on any surface

From highways to quarries to remote terrain, the BASE Rigid Drive Axle delivers the strength, adaptability, and reliability demanded by the toughest applications.



Full Coverage in 4×4, 6×6 and 8×8

BASE independent suspension drive axle offers from 4.0t to 12t axle load capacity serving to a wide range of off-highway and special purpose vehicles.

4×4

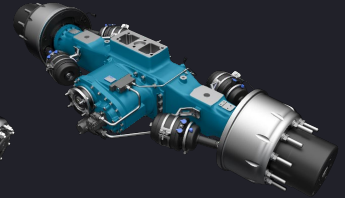
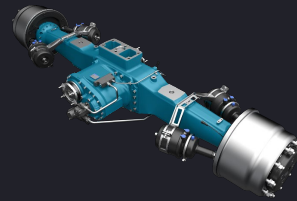
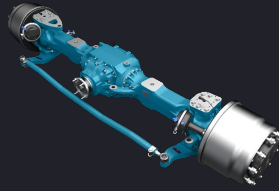
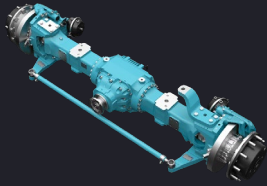
6×6

8×8

21t GVW

32t GVW

45 – 52t GVW



Available Configurations

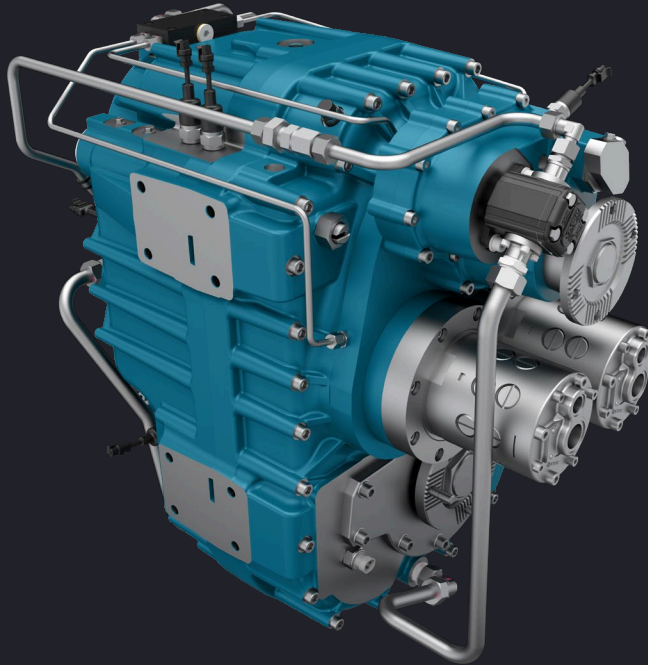
Model	Axle Load Capacity	Brake Type	Total Gear Ratio	Steering Angle	CTIS Ready
RTA-110	11,000 kg	air disc	6.91, 6.54:1	37.6°	Yes
RTA-120	12,000 kg	air drum	6.91:1	40°	Yes
RTA-135	13,500 kg	air drum	6.91:1	non-steering	Yes
RTA-160	16,000 kg	air drum	6.91:1	non-steering	Yes

Two-Speed Transfer Case

The BASE two-speed transfer case delivers superior performance with a modern shell design, modular gear set, and lightweight aluminum housing. Equipped with an interaxle differential lock for enhanced traction and **pneumatically actuated indicator switches for fast, reliable speed shifting**, it ensures maximum mobility in dynamic operational environments.

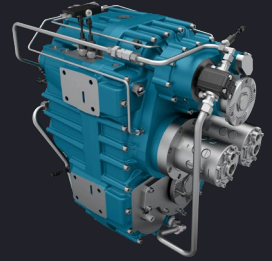
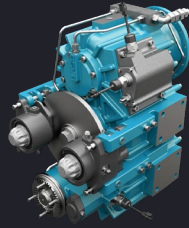
Offering both remote and direct mount compatibility, it integrates seamlessly with a range of transmission families — including but not limited to Allison transmission.

Proven in the harshest conditions, BASE transfer cases are trusted in frontline vehicles from leading tactical vehicle manufacturers.



Maximum Power, Minimum Weight

The precision-engineered aluminum housing delivers substantial weight savings, enhancing payload capacity and fuel efficiency for tactical vehicles,



Max Input Torque

5,000 Nm

10,000 Nm

20,000 Nm

32,000 Nm

Max Input Speed

4,000 rpm

4,000 rpm

3,800 rpm

3,500 rpm

Weight Saving via
Aluminum housing

66 kg ↓

86 kg ↓

210 kg ↓

189 kg ↓

Available Configurations

Model	Max Input Speed	Max Input Torque	Drop Distance	Low Ratio	High Ratio
TK-330	4,000 rpm	5,000 Nm	330 mm	2.8:1	5.85:1
TK-420	4,000 rpm	10,000 Nm	420 mm	0.94, 1,26:1	1.92, 2.34:1
TK-423	3,500 rpm	32,000 Nm	423 mm	1.04, 1.15, 1.23:1	1.92:1
TK-535	3,800 rpm	20,000 Nm	535 mm	1.16:1	2.55:1

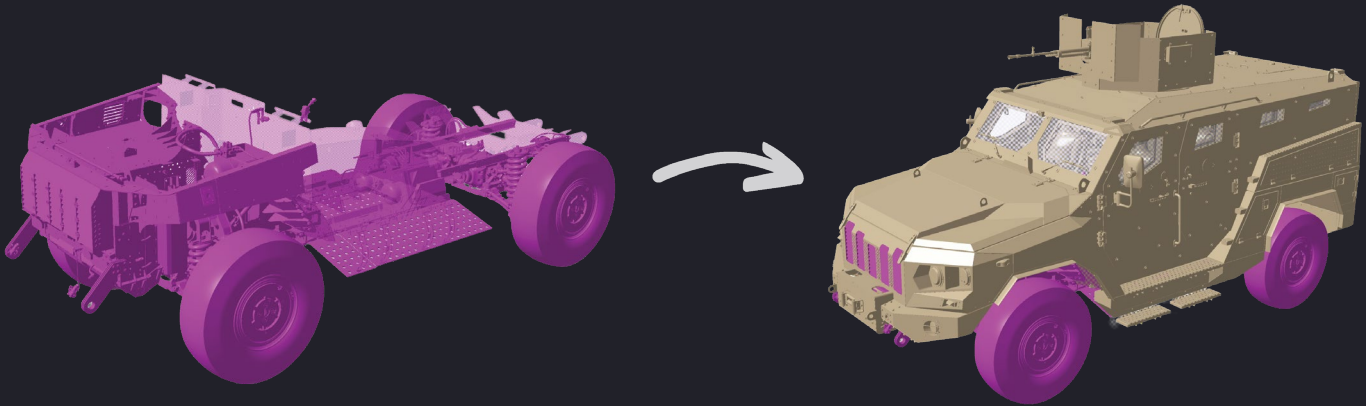
Turnkey 4×4 Rolling Platform

A fully engineered, turnkey platform designed to **fast-track tactical and special-purpose vehicle production**.

Powered by a Cummins diesel engine and Allison automatic transmission, and equipped with BASE independent suspension axles and a two-speed transfer case, it delivers unmatched mobility, durability, and performance.

The plug-and-play design simplifies drivetrain integration, reducing development time and costs, while allowing customization of wheelbase, payload, and driveline ratios.

Available fully assembled for rapid deployment or as CKD kits for localized assembly.



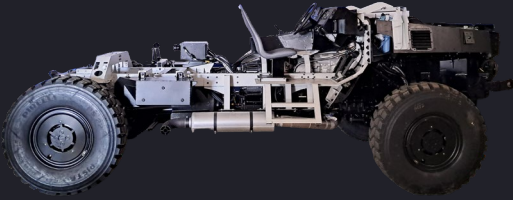
Step 1

Our role & supply

Step 2

OEM's vehicle

Available Configurations



14t GVW Platform
BS360-14C

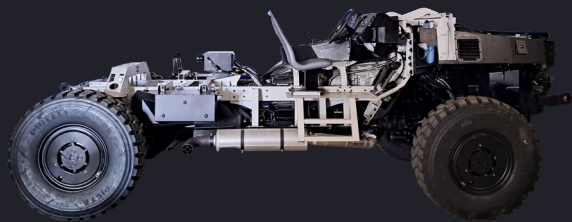
- **Up to 360 HP Cummins Diesel** – Power for mobility, towing, and acceleration
- **Ballistic Engine Bay Protection** – Up to **STANAG Level 1**
- **Monocoque Integration** – Frameless for strength and efficiency
- **Ladder Frame Option** – Pickup, utility, multipurpose builds
- **BASE Independent Suspension Axles** and **BASE Two-Speed Transfer Case**
- **Optional RHD**



19.5t GVW Platform
BS400-20C

- **400 HP Diesel** – High output for exceptional mobility and performance
- **V-Shape Underbody Protection** – Up to **STANAG 4a/4b** blast resistance
- **Lightweight Ladder Frame** – High strength, reduced weight, improved payload
- **Best-in-Class Payload** – Heavy mission loads with stability
- **BASE Independent Suspension Axles** and **BASE Two-Speed Transfer Case**
- **Optional RHD**

14t GVW Platform: BS360-14C



DIMENSIONS	
Wheelbase	3,683 mm
Overall length	6,030 mm
Overall width	2,497 mm

ENGINE	
Displacement	6.7 l 6 cylinder
Max Power	360 PS at 2,400 rpm
Max Torque	1,100 Nm at 1,400-2,300 rpm
Emission	non-Euro

TRANSMISSION	
6-speed fully automatic	
Torque converter	

PERFORMANCE METRICS	
GVW	14 tons
Gradeability	70%
Max speed	110 km/h
Fuel tank	200 l
Ground clearance	420 mm (static)
Operating temperature	-30 / +55 °C

DRIVETRAIN	
Axle	Independent Suspension BTA-080
T-Case	TK-420
Tires	395/80 R20 run-flat, CTIS
Brakes	Air disc, two-circuit, ABS Park brake on T-Case

19.5t GVW Platform: BS400-20C



DIMENSIONS	
Wheelbase	3,710 mm
Overall length	6,025 mm
Overall width	2,620 mm

ENGINE	
Displacement	8.9 l 6 cylinder
Max Power	400 PS at 2,100 rpm
Max Torque	1,550 Nm at 1,100-1,400 rpm
Emission	Euro III

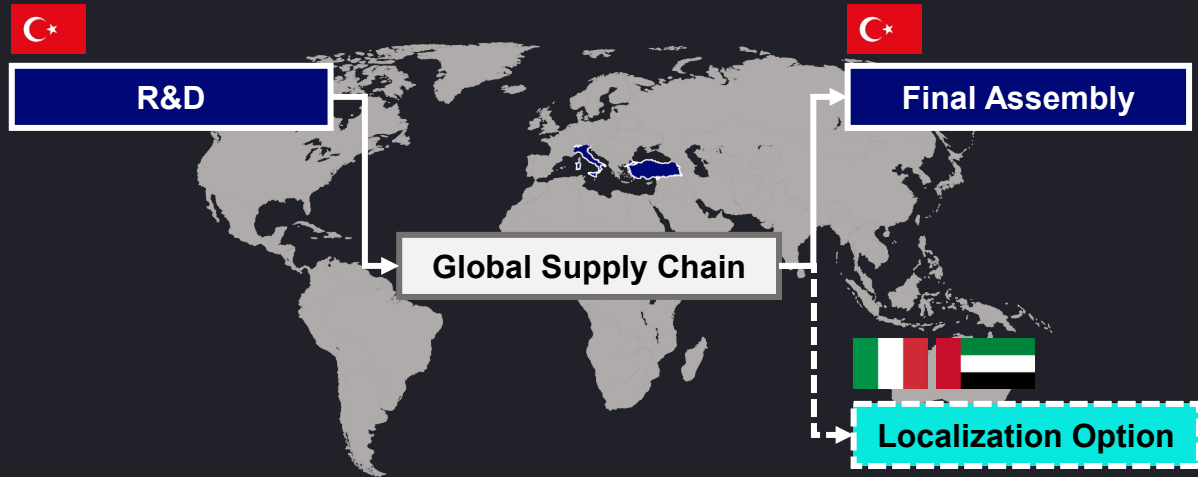
TRANSMISSION	
6-speed fully automatic	
Torque converter	

PERFORMANCE METRICS	
GVW	19.5 tons
Gradeability	60%
Max speed	110 km/h
Fuel tank	250 l
Ground clearance	449 mm (static)
Operating temperature	-12 / +55 °C

DRIVETRAIN	
Axle	Independent Suspension BTA-110
T-Case	TK-420
Tires	1400 R20 run-flat, CTIS
Brakes	Air disc, two-circuit, ABS Park brake on rear axle

Flexible Operating Model for Easy Localization

Our operating model adapts to your needs — from low-volume, high-complexity builds to large-scale manufacturing, while offering easy localization opportunity.



Lean Assembly Cells – Anywhere in the World

Built on Lean Production Principles, our assembly cells deliver maximum efficiency. Their modular design enables rapid replication with minimal investment.



Mission-Proven Performance

BASE products have been proven in real combat conditions across Turkey, the Middle East, Africa, and Europe.



**YOUR TRUSTED
DRIVETRAIN PARTNER.**

BASE

**BASE Studio Arge ve Teknoloji Sanayi A.Ş.
Balçık mahallesi, 3273. Sokak, No: 28, Gebze, Kocaeli / Türkiye
+90 (262) 242 8 242 • basestudio.com.tr**