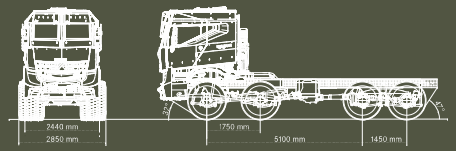
DERMAN FAMILY OF ARMOURED MILITARY VEHICLES

KOLUMAN OTOMOTİV ENDÜSTRİ A.Ş.

	KOE DERMAN 4x4	KOE DERMAN 6x6	KOE DERMAN 8x8	KOE DERMAN 8x8 AYT	KOE DERMAN 10x10
USAGE					
Logistic	x	x	x	x	x
Tactical	x	x	x	x	x
TECHICAL SPECIFICATION					
Kerb Weight (Depending on Options)	appr. ≤ 11.000 kg	appr. ≤ 13.000 kg	appr. ≤ 19.000 kg	appr. ≤ 20.000 kg	appr. ≤ 28.000 kg (L2)
Gross Vehicle Mass (GVM, technical)	up to 22.000 kg @ 16 to rear axle	up to 40.000 kg @ 16 to rear axle	up to 48.000 kg @ 16 to rear axle	up to 48.000 kg @ 16 to rear axle	65.000 kg
Payload Capacity (technical)	appr. ≤ 9.000 kg	appr. ≤ 20.000 kg	appr. ≤ 29.000 kg	appr. ≤ 28.000 kg	appr. 37.000 kg
Gross Combination Weight (GTW)	up to 80 to	up to 120 to	up to 120 to	up to 250 to	n.a.
Cabin	Basic cabin prepared for ballistic levels, soft skin available.	Basic cabin prepared for ballistic levels, soft skin available.	Basic cabin prepared for ballistic levels, up to mine blast prot, soft skin available.	Basic cabin prepared for ballistic levels, up to mine blast prot, soft skin available.	Basic cabin prepared for ballistic levels, up to mine blast prot, soft skin available.
Cabin Option	Unarmoured version Short length	Unarmoured version Short length	Unarmoured version Standard length	Unarmoured version Standard length	Unarmoured version Standard length
Number of Seats	2 (3)	2 (3)	4 (5)	4 (5)	4 (5)
DIMENSIONS					
Length	appr. 6600 mm @ 3600 mm	appr. 7700 mm @ 3600 mm	appr. 8700 mm @ 4850 mm	appr. 8700 mm @ 4850 mm	appr. 14500 mm
Width	2500 mm (2850 mm)	2500 mm (2850 mm)	2500 mm (2850 mm)	2500 mm (2850 mm)	3010 mm
Cabin Height	3528 mm	3528 mm	3528 mm	3528 mm	3700 mm
Frame Height	1236 mm	1236 mm	1236 mm	1236 mm	1275 mm
Wheelbase Variable	3600/3900/4200/4500 mm	3600/3900/4200/4500 mm	from 4850 up to 6900 mm	4850 mm	"fixed" 2200/2200/3900/2200 mm
Ground Clearance (depending on tire)	376 mm	376 mm	376 mm	376 mm	560 mm
Angle of Approach	32°	32°	32°	32°	38°
Angle of Departure (depending on body)	≤ 47°	≤ 47°	≤ 47°	≤ 47°	32°
Ramp over Angle	appr. 140° @ 3600 mm	appr. 140° @ 3600 mm	appr. 137° @ 4850 mm	appr. 137° @ 4850 mm	appr. 135° @ 3900 mm
VEHICLE PERFORMANCE					
Max. Speed	80 km/h (110 km/h)	80 km/h (110 km/h)	80 km/h (110 km/h)	80 km/h (110 km/h)	60 km/h
Gradient Capabiltiy	up to 60 %	up to 60 %	up to 60 %	up to 60%	up to 50 %
Turning Circle	16,8 ± 0,5 m (@ 3600 mm)	20,1 ± 0,5 m (@ 3600 mm)	23,9 ± 0,5 m (4850 mm)	23,9 ± 0,5 m (@ 4850 mm)	steering angle 33°
Fuel Tank Standard	290 liters	290 liters	290 liters	900 liters	750 liters
Power to weigth ratio @ max technical GVW	16,5 kW/to * 19,5 kW/to	10 kW/to * 12,9 kW/to	7,9 kW/to * 8,8 kW/to	9,6 kW/to	7 kW / tonne
Fording Ability Standard (more on request)	750 mm	750 mm	750 mm	750 mm	750 mm
Climatic Operation Range	-32°C / +55°C (depending on engine)	-32°C / +55°C (depending on engine)	-32°C / +55°C (depending on engine)	-32°C / +55°C	-32°C / +55°C
POWERTRAIN					
Engine (typical)	Engine OM460, R6, 12,8 ltr. *Engine OM471, R6, 12,8 ltr.	Engine OM460, R6, 12,8 ltr. *Engine OM473, R6, 12,8 ltr.	Engine OM473, R6, 15,6 liters	Engine OM473, R6, 15,6 liters	Engine OM473, R6, 15,6 liters
Fuel (depending on engine)	F54 + F34 (≤ 10% PL)	F54 + F34 (≤ 10% PL)	F54 + F34 (≤ 10% PL)	F54 + F34 (≤ 10% PL)	F54 + F34 (≤ 10% PL)
EURO Norm	Euro 3 * Euro 6	Euro 3 * Euro 3-6	Euro 3 - 6	Euro 3 *Euro 4 (AdBlue deactivated) Euro 6	Euro 4 (AdBlue deactivated) Euro 6
Performance	330 kW (449 HP), 2200 Nm *390 kW (530 HP), 2600 Nm	330 kW (449 HP), 2200 Nm *425 kW (578 HP), 2800 Nm	380 kW (517 HP), 2600 Nm 425 KW (578 HP), 2800 Nm	425 KW (578 HP), 2800 Nm *460 kW (625 HP), 3000 Nm	15,6 l, 460 kW (625 PS), 3000 Nm
Transmission	Transmission G 280-16 / 11,7-0,69 Mercedes PowerShift 3 Automatic	Transmission G 280-16 / 11,7-0,69 Mercedes PowerShift 3 Automatic, with VIAB Turbo Retarder Clutch (Option)	Transmission G280-16 / 11,7-0,69 or Transmission G330-12 / 11,63-0,77, Mercedes PowerShift 3 Automatic, with VIAB Turbo Retarder Clutch.	Transmission G280-16 / 11,7-0,69 or Transmission G330-12 / 11,63-0,77, Mercedes PowerShift 3 Automatic, with VIAB Turbo Retarder Clutch.	Transmission G280-16 / 11,7-0,69 or Transmission G330-12 / 11,63-0,77, Mercedes PowerShift 3 Automatic, with VIAB Turbo Retarder Clutch.
Transfer Unit	VG 2800-3W / 1,45-1,04, permanent	VG 2800-3W / 1,45-1,04, permanent	VG 2800-3W / 1,45-1,04, permanent	VG 2800-3W / 1,45-1,04, permanent	VG 2800-3W / 1,45-1,04, permanent
Suspension Type	Leaf spring	Leaf spring	Leaf spring	Leaf spring	Independent suspension
Drive-Train Management	Fully automatic control. Manual shifting possible.	Fully automatic control. Manual shifting possible.	Fully automatic control. Manual shifting possible.	Fully automatic control. Manual shifting possible.	Fully automatic control. Manual shifting possible.
Brakes	Drum Brakes (ABS)	Drum Brakes (ABS)	Drum Brakes (ABS)	Drum Brakes (ABS)	Disc Brakes (ABS)
AXLES LOADS / Steering (White = Standard)					
1st	7,5 - [illegible] to, steered	7,5 - [illegible] to, steered	7,5 - [illegible] to, steered	7,5 - [illegible] to, steered	13,5 to @60 km/h, 14,2 to static, steered
2nd	9,0 - [illegible] - 16,0 to @ full speed, 18 to @ 20 km/h	9,0 - [illegible] - 16,0 to @ full speed, 18 to @ 20 km/h	7,5 - [illegible] to, steered	7,5 - [illegible] to, steered	13,5 to @60 km/h, 14,2 to static, steered
3rd	n.a.	9,0 - [illegible] - 16,0 to @ full speed, 18 to @ 20 km/h	9,0 - 13,0 - [illegible] to @ full speed, 18 to @ 20 km/h	9,0 - 13,0 - [illegible] to @ full speed, 18 to @ 20 km/h	13,5 to @60 km/h, 14,2 to static, steered
4th	n.a.	n.a.	9,0 - 13,0 - [illegible] to @ full speed, 18 to @ 20 km/h	9,0 - 13,0 - [illegible] to @ full speed, 18 to @ 20 km/h	13,5 to @60 km/h, 14,2 to static, steered
5th	n.a.	n.a.	n.a.	n.a.	13,5 to @60 km/h, 14,2 to static, steered
TIRES and OPTIONS					
Tires (* Standard) (** Rear Single)	* 325/95 R24 rear axle width 2500 mm 14 R20 rear axle width 2850 mm Front: 16.00 R20 ** Rear-Single: 24.00 R 20,5 axle width 2550 mm	* 325/95 R24 rear axle width 2500 mm 14 R20 rear axle width 2850 mm Front: 16.00 R20 ** Rear-Single: 24.00 R 20,5 axle width 2550 mm	* 325/95 R24 rear axle width 2500 mm 14 R20 rear axle width 2850 mm Front: 16.00 R20 ** Rear-Single: 24.00 R 20,5 axle width 2550 mm	* 325/95 R24 rear axle width 2500 mm 14 R20 rear axle width 2850 mm Front: 16.00 R20 ** Rear-Single: 24.00 R 20,5 axle width 2550 mm	525/80 R25
Tires @ Rear Axles up to	16 to (** = 14 to)	16 to (** = 14 to)	16 to (** = 14 to)	16 to (** = 14 to)	13,5 to
CTIS possible / option (fully programmable from the driver's position, operation stationary and in motion)	Option	Option	Option	Option	Standard
Run Flat	Option	Option	Option	Option	Standard



Ölçüler

Aks Açıklığı	5100 mm
İz Genişliği	2440 mm
Genişlik	2850 mm
Yükseklik (*)	3528 mm
Uzunluk	9233 mm
Faydalı Platform Uzunluğu (32° uzaklaşma) Max.	7650 mm
Yaklaşma/ Uzaklaşma Açısı	32°/47°
Karınaltı Yüksekliği (*)	377 mm
Şasi Yüksekliği	
- Yüksüz	1315 mm
- Yüklü	1237 mm
Personel Kapasitesi Şoför Dahil	4 kişi

(*) Max yük ve lastik seçeneğine göre değişiklik gösterebilir.

Hareket Kabiliyeti

Azami Hız	110 km/saat
Dik Eğim	% 60
Enine Eğim	% 30
Sudan Geçme (1100 mm ye kadar arttırılabilir)	750 mm
Hendek Geçiş	1400 mm
Dönme Yarı Çapı	12600 ± 500 mm

Motor
OM 473, 6 silindir, 15.6 litre, 517 BG, 2600 Nm @ 1000-1375 d/dk, Turbo beslemeli, EURO VI (ops. III-IV-V)

Vites Kutusu ve Transfer Kutusu
VIAB VIAB Turbo Retarder, PowerShift Otomatik, 12 ileri 4 geri vites. İki hız kademeli transfer kutusu.

Akslar
Aks kapasiteleri: 9 ton/9 ton /16 ton/16 ton. Kilitli diferansiyeller.

Süspansiyon	Aks başı 4 yaprak yay
Lastikler	14.00 R20 Off-Road
Yakıt Tüketimi	41 L / 100 km
Yakıt Deposu Kapasitesi	260 Litre

Dimensions

Wheelbase	5100 mm
Track Width	2440 mm
Width	2850 mm
Height (*)	3528 mm
Overall Length	9233 mm
Usable Platform Length Max. (32° Departure Angle)	7650 mm
Approach/ Departure Angle	32°/ 47°
Ground Clearence (*)	377 mm
Chassis Height	
- Unladen	1315 mm
- Laden	1237 mm
Crew Capacity (Including Driver)	4 person

(*) It may be change according to tire option at maximum load.

Mobility

Max. Speed	110 km/h
Longitudinal Slope Gradient	60 %
Transverse Slope Gradient	30 %
Fording Depth (more on request, up to 1100 mm)	750 mm
Trench Crossing	1400 mm
Turning Radius	12600 ± 500 mm

Engine
OM 473, 6 cylinders, 15.6 liters, 517 HP, 2600 Nm @ 1000-1375 rpm, Turbo charged, EURO VI (option III-IV-V)

Transmission and Transfer Box
VIAB Turbo Retarder, PowerShift Automatic, 12 forward 4 reverse speed. 2 speeds transfer box.

Axles
Axle capacities: 9 tons/9 tons/16 tons /16 tons. Locked differential.

Suspension	4 leaf spring per axle
Wheels	14.00 R20 Off-Road
Fuel Consumption	41 L /100 km
Fuel Tank Capacity	260 Liters

8X8

Standart Donanımlar

- VIAB (Turbo Retarder Kavrama)
- İklimlendirme Sistemi
- Geri Görüş Kamerası
- Nato Harici Start Soketi
- Nato Karartma Işık Sistemi
- Kabin İçi ve Motor Ön Isıtma
- ABS Fren Sistemi
- Araç Avadanlığı

İsteğe Bağlı Donanımlar

- 360° Kamera Sistemi
- Gece Görüş Kamerası
- Termal Kamera
- GPS ve Navigasyon
- Komuta & Kontrol Sistemi
- Otomatik İnfilak Bastırma Sistemi
- KBRN Filtrasyon Sistemi
- İç Konuşma ve Telsiz Sistemi
- İlave Yakıt Isıtma Sistemi
- Merkezi Lastik Şişirme Sistemi (CTIS)
- Patlak Gider Lastik (Run Flat)
- Kendini Kurtarma Vinci
- İlave Beşinci Koltuk
- Tarassut Kapağı ve Silah Kulesi Hazırlığı
- Kablo Keski Aparatı

Standard Equipment

- VIAB (Turbo Retarder Clutch)
- Air Conditioning
- Reverse Manoeuvre Camera
- NATO External Start Socket
- NATO Blackout Light System
- Truck Cabin Interior and Engine Preheating
- Anti-Lock Braking System ABS
- Toolkit

Optional Equipment

- 360° Camera System
- Night Vision System
- Thermal Camera
- GPS and Navigation
- Command & Control System
- Automatic Explosion Suppression System
- CBRN Filtration System
- Intercommunication and Radio-Set System
- Additional Fuel Heating System
- Central Tire Inflation System (CTIS)
- Run Flat Tire
- Self Recovery Winch
- Additional Fifth Seat
- Roof Hatch and Weapon Mount Preparation
- Wire Cutter

KOLUMAN OTOMOTİV ENDÜSTRİ A.Ş.

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KOLUMAN OTOMOTİV ENDÜSTRİ A.Ş.

DERMAN

Lojistik Destek Araçları / Logistic Support Vehicles

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