

# Xcient GT 6x4 Cargo

Vehicle Type	<b>6x4 Cargo</b>		
Cab Type	Sleeper Cab		
Roof Height	Standard		
Wheel Base	SHORT	MEDIUM	EXTRA LONG
Drive System	LHD, 6x4		
Application Engines	<b>POWERTEC 440</b>		

## Dimensions (mm)

Wheel Base		5,650 (4,300 + 1,350)	6,100 (4,750 + 1,350)	7,250 (5,900 + 1,350)
Overall	Length	9,735	10,335	11,815
	Width	2,490	2,490	2,490
	Height	3,285	3,285	3,285
Wheel Tread	Front	2,060	2,060	2,060
	Rear	1,825	1,825	1,825
Overhang (Body)	Front	1,540	1,540	1,540
	Rear	2,545	2,695	3,025
Overhang (Frame)	Front	1,385	1,385	13,850
	Rear	2,470	2,620	2,950
Angle	Approach	17.0	17.0	17.0
	Departure	10.6	10.0	8.9
Min. Ground Clearance		260	260	260

## Weight (kg)

Chassis Cab Weight		8,500	8,900	9,150
	Front	4,590	4,895	5,210
	Rear	3,910	4,005	3,940
Max. Gross Vehicle Weight *		33,500	33,500	33,500
	Front	7,500	7,500	7,500
	Rear	26,000	26,000	26,000

\* Max. GVW includes the front & rear axle loads based on the permissible tire load. / Max. GVW may vary according to rear axle(Single, Hub) and tire(12.00R20, 315/80R22.5, 295/80R22.5, 12R22.5)

## Calculated Performance

Model	D6CL44			D6CK44			
	Short / Medium / Extra Long			Short / Medium / Extra Long			
Transmission Model	T230S12			ZF16S2230TO			
Final Reduction Gear	Type	Single Reduction, Hypoid Gear					
	G/Ratio	3.667	4.111	4.444	3.417	3.667	4.111
Max. Speed	km/h	120.0	110.5	102.2	120.0	115.0	102.6
Max. Gradeability	@GVW : 33100kg tanθ	0.497	0.558	0.604	0.521	0.559	0.627
Min. Turning Radius	m	9.0 / 9.5 / 11.3			9.0 / 9.5 / 11.3		

\* Min. Turning Radius Calculated Base on Front Wheel Outer Tire Center Line

## Engine

Model	D6CL44		D6CK44	
Type	Turbo Charger Intercooler 4 stroke-cycle, water-cooled, direct-injection diesel engine			
Number of Cylinder	6 in-line			
Piston Displacement (cc)	12,742			
Bore x Stroke (mm)	130X160		130X160	
Compression Ratio	17.2 : 1			
Max. Power *	Euro III	440 / 1800	-	
(ps/rpm)	Euro IV	-	440 / 1800	
Max. Torque *	Euro III	214 / 1200	-	
(kg.m/rpm)	Euro IV	-	214 / 1200	
Exhaust Gas After Treatment System	-		EGR+PMC	
Cooling System	General	Water cooling type with thermostat, forced circulations by centrifugal pump		
	Cooling fan	Suction Type		
	Radiator	Louver fin and tube type with pressure cap and condenser tank		
Electrical System	Battery	24V-165AH-MF(STD) / 24V-180AH-MF(OPT)		
	Alternator	24V-90A		
	Starter	24V-6.0kw		
Fuel System	Injection pump	Delphi EUI System		
	Governor	included to ECU		
Oil System	Lubrication	Forced lubrication by gear pump		
	Oil grade	API service classification CF-4 above		API service classification CI-4 above
Air cleaner	Dry paper element			
Valve System	Single overhead camshaft, Four valves per cylinder			

**Clutch**

Type	Single Dry Plate , Diaphragm Pull
Facing Material	SC500 ( Non-asbestos )
Facing Size(mm); Outside dia. x Inside dia.	Φ430 × Φ242

\* Max. Power and Torque of engine may vary according to each country.

**Transmission**

Model		T230S12	ZF16S2230TO
Type		F : 12 Speed / R : 2 Speed	F : 16 Speed / R : 2 Speed
Gear Ratio	1st	12.29 / 9.57	13.80 / 11.54
	2nd	7.49 / 5.83	9.49 / 7.93
	3rd	4.57 / 3.55	6.53 / 5.46
	4th	2.69 / 2.10	4.57 / 3.82
	5th	1.64 / 1.28	3.02 / 2.53
	6th	1.00 / 0.78	2.08 / 1.74
	7th		1.43 / 1.20
	8th		1.00 / 0.84
Reverse		10.86 / 8.46	12.92 / 10.80
Gear Oil		15ℓ	15.5ℓ
T.G.S. (Transmission Gear Shift)		Cable Gear Shift (with P/Shift)	

**Propeller shaft**

Model	HZ68
Type	Tubular, Forged steel ends
Size (diameter x Thickness)	Φ140 × 6 t

**Rear Axle**

Model	R178HT	
Type	Banjo Type	
Capacity (kg)	13,000	
Final Reduction Gear	Type	Single Reduction, Hypoid Gear
	G/Ratio	Single Reduction [ 3.417(ZF16S2230TO), 3.667, 4.111, 4.444(T230S12)]
Gear Oil		GL-5 SAE 80W90

**Front Axle**

Type	Reverse Elliot Type "I" Beam
Capacity (kg)	8,000

**Tire & Wheel**

Tire	Tube	Front	12.00R20-18PR(Rib)
		Rear	12.00R20-18PR(Rib)
	Tubeless	Front	12R22.5-18PR(STD, Rib) / 295/80R22.5-18PR(Rib) / 315/80R22.5-18PR(Rib)
		Rear	12R22.5-18PR(STD, Rib) / 295/80R22.5-18PR(Rib) / 315/80R22.5-18PR(Rib)
Wheel *	Front		20-8.50,22.5x8.25, 22.5x9.00
	Rear		20-8.50,22.5x8.25, 22.5x9.00

\* Steel(Silver) Wheel is available with All types of Tire / Aluminum Wheel is available with 12R22.5-18PR, 295/80R22.5-18PR

**Brake**

Service Brake	Actuation		Full Air, Dual Circuit
	Drum Brake	Front	DRUM:Φ410X200X20(Drum Inner Diameter X Lining Width X Lining Thickness)
		Rear	DRUM:Φ410X200X20(Drum Inner Diameter X Lining Width X Lining Thickness)
	Air reservoir		120(FRT 30 REAR 70 AUXILIARY 20)
	Total lining area		DRUM : 806,769(FRT:268,923 REAR 1ST : 268,923 REAR 2ND : 268,923)
Adjuster		Auto Slack adjuster	
Parking Brake	Actuation		FULL AIR BRAKE
	Size (mm)		DRUM : Drum Inner Diameter X Lining Width X Lining Thickness DRUM BRAKE : FRT Φ410X200X20, REAR 1ST Φ410X200X20
	Total lining area		DRUM : 537,846(FRT:268,923 REAR 1ST : 268,923)

\* Brake Size : Drum (Inner Diameter x Lining Width x Lining Thickness)

**Suspension**

Type	Front		Rigid Type (Taper Leaf / Multi Leaf)
	Rear		Rigid Type (Multi Leaf)
Spring Size *	Taper Leaf	Front	1800 x 90 X 28.5t-3
		Front	1,800 X 90 X 15- 2,14-10
	Multi Leaf	Front	
		Rear	1,350 X 90 X 24 - 3,22-9
Stabilizer bar	Front		Φ40
	Rear		Φ55
Shock absorber			Oil charged type on the front & rear

\* Spring Size : Length x Width x Thickness- Number of leaves

**Steering**

Type	4-Spoke, Ball-Nut Type, Tilt & Telescopic Steering Column	
Steering Wheel Diameter (mm)	Power	450
Tilting Angle	40°	
Telescopic Stroke (mm)	65mm	
Overall Steering Gear Ratio	Power	23.04
Turning Angle	Inner	50
	Outer	36

**Air intake system**

General	Snorkel type at the rear of Cab	
Air cleaner type	Dry paper element	
Air cleaner position	Bottom of Passenger Seat	

**Fuel tank**

Capacity	400L	
Material	Steel	

**Cooling system**

Radiator	Corrugated fin type & condense tank	
	Rows of tubes	4
	Core size (mm)	858.3 X 800 X 40 (WIDTH X HEIGHT X DEPTH)
Cooling Fan	Auto Clutched Cooling Fan / Electronic Cooling Fan	

**Exhaust system**

General	Conventional (horizontal) type muffler	
Tail pipe	Droptail type, blowing to chassis rearward	

**Urea tank**

Capacity	N/A	
Material	N/A	

**Frame**

Type	H type frame with channel sectional side rail & cross members & cross members, side rail is reinforced with inner stiffeners	
Main section side rail dimension (mm)	(Single Frame) Depth x Flange x Thickness : 300 x 90 x 8 t	Depth x Flange x Thickness : 300 x 90 x 8 t
Inner Stiffener (mm)	-	Depth x Flange x Thickness : 280 x 80 x 5 t

**Electrical Equipments**

Head lamps	MFR Type	
Front combination lamps	Turn signal / Hazard-Amber , Position - White	
Fog lamps	White	
Rear combination lamps	Turn signal / Hazard-Amber , Tail / Stop - Red , RR FOG - Red , RR EOML - Red , RR Side marker - Amber	
License plate lamp	White	
Back-up lamp	White	

**Instruments**

Meter Cluster	Fixed Type	
Meter	Speedometer / Tachometer / Fuel & Water temperature gauge / Urea & engine oil pressure gauge / Air pressure gauge / LCD with odometer	
Warning lamps & indicators	Turn signals & Hazard / Parking brake / Oil pressure with buzzer / Door open / Charging / Main beam / Cab tilt lock with buzzer / Exhaust Brake / Preheating / Seat belt / Overheat & coolant level with buzzer / Brake air with buzzer / Low fuel	
Horn	Single, Electric Horn / Single, Roof Air Horn	