

# Xcient GT 4x2 Tractor

## 1. Dimension, Weights Specification

Vehicle Type	4x2 Tractor		
Cab Type	Sleeper Cab		
Roof Height	Standard / High(opt.) Roof		
Wheel Base	MEDIUM		LONG
Drive System	LHD, 4x2		
Application Engines	POWERTEC 440		

### Dimensions (mm)

Wheel Base		3,600		3,900
Overall	Length	6,135		6,435
	Width	2,490		←
	Height (STD Roof) *	3,200		←
Wheel Tread	Front	2,060		←
	Rear	1,825		←
Overhang (Body)	Front	1,540		←
	Rear	995		←
Overhang (Frame)	Front	1,385		←
	Rear	995		←
Angle	Approach	15.8		←
	Departure	37.6		←
Min. Ground Clearance		260		←

### Weight (kg)

Chassis Cab Weight		7,650		7,670
	Front	5,355		5,365
	Rear	2,295		2,305
Max. Gross Vehicle Weight **		21,300		←
	Front	7,500		←
	Rear	13,800		←
Max. Gross Combination Weight			50,000	

\* Highroof cab Height: + 420mm

\*\* 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)

## 2. Performance Specification

### Calculated Performance

Model	D6CL44						D6CK44						D6CM44						
	Medium / Long						Medium / Long						Medium / Long						
Transmission	Model	T230S12						ZF16S2230TO											
		Single Reduction, Hypoid Gear			Hub Reduction, Sprial Gear			Single Reduction, Hypoid Gear			Hub Reduction, Sprial Gear								
Final Reduction Gear	Type	3.667	4.111	4.875	3.84	4.36	4.8	3.417	3.667	4.111	4.875	3.84	4.36	4.8					
	G/Ratio	120.0	110.5	93.2	118.3	104.2	94.6	120.0	115.0	102.6	86.5	109.8	96.7	87.9					
Max. Speed	km/h	0.328	0.368	0.437	0.343	0.390	0.430	0.343	0.368	0.414	0.491	0.386	0.439	0.484					
Max. Gradeability	@GCW : 50ton tan $\alpha$	7.0 / 7.5						7.0 / 7.5						7.0 / 7.5					
Min. Turning Radius	m	7.0 / 7.5						7.0 / 7.5						7.0 / 7.5					

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

## 3. Chassis Specification (1/3)

### Engine

Model	D6CL44						D6CK44						D6CM44						
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						130X160						
Compression Ratio	17.2 : 1																		
Max. Power * (ps/rpm)	Euro III	440 / 1800						-						-					
	Euro IV	-						440 / 1800						-					
	Euro V	-						-						440 / 1800					
Max. Torque * (kg.m/rpm)	Euro III	214 / 1200						-						-					
	Euro IV	-						214 / 1200						-					
	Euro V	-						-						214 / 1200					
Exhaust Gas After Treatment System	-						EGR+PMC						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) / 24V-230AH-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						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.

### 3. Chassis Specification (2/3)

#### 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	R190HS (Single) / H120S (Hub)	
Type	Banjo Type	
Capacity (kg)	16,000	
Final Reduction Gear	Type	Single Reduction, Hypoid Gear / Hub Reduction, Sprial Gear
	G/Ratio	Single Reduction [ 3.417(ZF16S2230TO), 3.667, 4.111, 4.875 ] / Hub Reduction [ 3.84, 4.36, 4.8 ]
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

### 3. Chassis Specification (3/3)

#### 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)
	Disc Brake	Front	DISC : Φ345X69X21(Rotor Effective Diameter X Pad Width X Pad Thickness)
		Rear	DISC : Φ345X69X21(Rotor Effective Diameter X Pad Width X Pad Thickness)
	Air reservoir		100(FRT 30 REAR 30 PARKING 20 AUXILIARY 20)
	Total lining area		DRUM : 537,846(FRT:268,923 REAR:268,923) DISC : 156,800(FRT:78,400 REAR:78,400)
Adjuster		Auto Slack adjuster	
Parking Brake	Actuation		FULL AIR BRAKE
	Size (mm)	DRUM : Drum Inner Diameter X Lining Width X Lining Thickness DISC : Rotor Effective Diameter X Pad Width X Pad Thickness	
		DRUM BRAKE : FRT Φ410X200X20, REAR Φ410X200X20 DISC BRAKE : REAR Φ345X69X21	
Total lining area		DRUM : 537,846(FRT:268,923 REAR:268,923) DISC : 78,400(REAR)	

\* Brake Size : Drum (Inner Diameter x Lining Width x Lining Thickness) / Disc (Rotor Effective Diameter x Pad Width x Pad Thickness)

#### Suspension

Type	Front		Rigid Type (Taper Leaf / Multi Leaf)
	Rear		Rigid Type (Taper Leaf / Multi Leaf) / Air Type
Spring Size *	Taper Leaf	Front	1800 x 90 X 26t-3
		Rear	1600 x 90 X 24t-4, 36t-1
	Multi Leaf	Front	1,800 X 90 X 15 - 9
		Rear	1,600 X 90 X 16 - 9,12-9
	Air	Rear	4-Air Bag Type(Φ275)
Stabilizer bar	Front		Φ35
	Rear		Φ45
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	33.5

**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(STD) / 790L	
Material	Aluminum	

**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	
Main section side rail dimension (mm)	Depth x Flange x Thickness : 300 x 90 x 8 t	

**Coupler**

Type(Capacity : kg)	1axis(20,000)	
King Pin Diameter (Height : mm)	2inch(215)	

**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	

# Xcient GT 6x2 Tractor

## 1. Dimension, Weights Specification

Vehicle Type	6x2 Tractor (Rear 2 Axles)
Cab Type	Sleeper Cab
Roof Height	Standard / High(opt.) Roof
Wheel Base	SHORT
Drive System	LHD, 6x2
Application Engines	POWERTEC 440

### Dimensions (mm)

Wheel Base	4,650 (3,300 + 1,350)	
Overall	Length	7,010
	Width	2,490
	Height (STD Roof) *	3,230
Wheel Tread	Front	2,060
	Rear	1,825
Overhang (Body)	Front	1,540
	Rear	820
Overhang (Frame)	Front	1,385
	Rear	820
Angle	Approach	14.4
	Departure	40.5
Min. Ground Clearance	260	

### Weight (kg)

Chassis Cab Weight	8,630	
	Front	5,005
	Rear	3,625
Max. Gross Vehicle Weight **	33,500	
	Front	7,500
	Rear	26,000
Max. Gross Combination Weight	50,000	

\* Highroof cab Height: + 420mm

\*\* 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)

## 2. Performance Specification

### Calculated Performance

Model	D6CL44	D6CK44	D6CM44
Transmission	ZF16S2230TO		
Final Reduction Gear	Single Reduction, Hypoid Gear		
	G/Ratio		
	3.417	3.667	4.111
Max. Speed	km/h	120.0	115.0
		102.6	86.5
Max. Gradeability	@GCW : 50ton	tanθ	0.343
			0.368
			0.414
			0.491
Min. Turning Radius	m		
	7.5		

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

## 3. Chassis Specification (1/3)

### Engine

Model	D6CL44	D6CK44	D6CM44
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	130X160
Compression Ratio	17.2 : 1		
Max. Power *	Euro III	440 / 1800	-
	Euro IV	-	440 / 1800
	Euro V	-	440 / 1800
Max. Torque *	Euro III	214 / 1200	-
	Euro IV	-	214 / 1200
	Euro V	-	214 / 1200
Exhaust Gas After Treatment System	-	EGR+PMC	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) / 24V-230AH-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.

**3. Chassis Specification (2/3)****Transmission**

Model	<b>ZF16S2230TO</b>	
Type	F : 16 Speed / R : 2 Speed	
Gear Ratio	1st	13.80 / 11.54
	2nd	9.49 / 7.93
	3rd	6.53 / 5.46
	4th	4.57 / 3.82
	5th	3.02 / 2.53
	6th	2.08 / 1.74
	7th	1.43 / 1.20
	8th	1.00 / 0.84
	Reverse	12.92 / 10.80
Gear Oil	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	<b>R190HS (Single)</b>	
Type	Banjo Type	
Capacity (kg)	16,000	
Final Reduction Gear	Type	<b>Single Reduction, Hypoid Gear</b>
	G/Ratio	<b>Single Reduction [ 3.417, 3.667, 4.111, 4.444, 4.875 ]</b>
Gear Oil	GL-5 SAE80W90	

**Front Axle**

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

**Tire & Wheel**

Tire	Tubeless	Front	12R22.5-16PR(STD, Rib) / 295/80R22.5-18PR(Rib) / 315/80R22.5-18PR(Rib)
		Rear	12R22.5-16PR(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

**3. Chassis Specification (3/3)****Brake**

Service Brake	Actuation		Full Air, Dual Circuit
	Disc Brake Size (mm) *	Front	DISC : Φ345X69X21(Rotor Effective Diameter X Pad Width X Pad Thickness)
		Rear	DISC : Φ345X69X21(Rotor Effective Diameter X Pad Width X Pad Thickness)
	Air reservoir		130(FRT 30 REAR 60 PARKING 20 AUXILIARY 20)
	Total lining area		DISC : 235,200(FRT:78,400 REAR 1ST : 78,400 REAR 2ND : 78,400)
Adjuster		Auto Slack adjuster	
Parking Brake	Actuation		FULL AIR BRAKE
	Size (mm)		DISC : Rotor Effective Diameter X Pad Width X Pad Thickness
	Total lining area		DISC BRAKE : REAR 1ST Φ345X69X21, REAR 2ND Φ345X69X21 DISC : 156,800(REAR 1ST : 78,400 REAR 2ND : 78,400)

\* Brake Size : Drum (Inner Diameter x Lining Width x Lining Thickness) / Disc (Rotor Effective Diameter x Pad Width x Pad Thickness)

**Suspension**

Type	Front	Rigid Type (Taper Leaf)
	Rear	Air Type
Spring Size *	Front	1800 x 90 X 26t-3
	Rear	4-Air Bag Type(Φ275)
Stabilizer bar	Front	Φ40
	Rear	Φ75
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	33.5

**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(STD) / 500L / 700L	
Material	Aluminum	

**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	
Main section side rail dimension (mm)	Depth x Flange x Thickness : 300 x 90 x 8 t	

**Coupler**

Type(Capacity : kg)	1axis(20,000)	
King Pin Diameter (Height : mm)	2inch(215)	

**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	

# Xcient GT 6x4 Tractor

## 1. Dimension, Weights Specification

Vehicle Type	6x4 Tractor		
Cab Type	Sleeper Cab		
Roof Height	Standard / High(opt.) Roof		
Wheel Base	SHORT		
Drive System	LHD, 6x4		
Application Engines	POWERTEC 440		POWERTEC 520

### Dimensions (mm)

Wheel Base	4,650 (3,300 + 1,350)		
Overall	Length	7,010	
	Width	2,490	
	Height (STD Roof) *	3,230	
Wheel Tread	Front	2,060	
	Rear	1,825	
Overhang (Body)	Front	1,540	
	Rear	820	
Overhang (Frame)	Front	1,385	
	Rear	820	
Angle	Approach	14.6	
	Departure	46.4	
Min. Ground Clearance	260		

### Weight (kg)

Chassis Cab Weight	9,150		
	Front	5,200	
	Rear	3,950	
Max. Gross Vehicle Weight **	35,100		
	Front	7,500	
	Rear	27,600	
Max. Gross Combination Weight	60,000		

\* Highroof cab Height: + 420mm

\*\* 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)

## 2. Performance Specification

### Calculated Performance

Model	Transmission	Model	D6CL44							D6CK44							D6CM44							D6CF52						
			T230S12							ZF16S2230TO							ZF16S2530TO													
			Single Reduction				Hub Reduction			Single Reduction				Hub Reduction			Single Reduction				Hub Reduction									
Final Reduction Gear	Type	G/Ratio	3.667	4.111	4.444	4.875	3.84	4.36	5.27	3.667	4.111	4.444	4.875	3.84	4.36	5.27	3.417	3.667	4.111	4.875	3.84	4.36	4.8							
Max. Speed	km/h	@GCW : 60ton	120.0	110.5	102.2	93.2	118.3	104.2	86.2	115.0	102.6	94.9	86.5	109.8	96.7	80.0	120.0	115.0	102.6	86.5	109.8	96.7	87.9							
Max. Gradeability	tan $\theta$		0.272	0.306	0.331	0.363	0.285	0.325	0.393	0.306	0.344	0.372	0.409	0.321	0.365	0.442	0.341	0.366	0.411	0.488	0.383	0.436	0.480							
Min. Turning Radius	m		7.5																											

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

## 3. Chassis Specification (1/3)

### Engine

Model	D6CL44	D6CK44	D6CM44	D6CF52
Type	Turbo Charger Intercooler			
Number of Cylinder	4 stroke-cycle, water-cooled, direct-injection diesel engine			
Piston Displacement (cc)	6 in-line			
Bore x Stroke (mm)	12,742			
Compression Ratio	130X160			
Max. Power *	17.2 : 1			
(ps/rpm)	Euro III	440 / 1800		-
	Euro IV	-		440 / 1800
	Euro V	-		440 / 1800
Max. Torque *	Euro III	214 / 1200		-
	Euro IV	-		-
	Euro V	-		214 / 1200
Exhaust Gas After Treatment System	-		EGR+PMC	SCR
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) / 24V-230AH-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	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.

## 3. Chassis Specification (2/3)

### Transmission

Model		T230S12 (STD)	ZF16S2230TO (OPT)	ZF16S2530TO (Euro5 520ps)
Type		F : 12 Speed / R : 2 Speed	F : 16 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 (Single) / H120ST (Hub)
Type		Banjo Type
Capacity (kg)		R178HT (Single): 13,000 / H120ST (Hub): 16,000
Final Reduction Gear	Type	Single Reduction, Hypoid Gear / Hub Reduction, Sprial Gear
	G/Ratio	Single Reduction [ 3.417(ZF16S2530TO), 3.667, 4.111, 4.444, 4.875 ] / Hub Reduction [ 3.84, 4.36, 4.8(ZF16S2530TO), 5.27(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

## 3. Chassis Specification (3/3)

### 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)
	Disc Brake	Front	DISC : Φ345X69X21(Rotor Effective Diameter X Pad Width X Pad Thickness)
		Rear	DISC : Φ345X69X21(Rotor Effective Diameter X Pad Width X Pad Thickness)
	Air reservoir		130(FRT 30 REAR 60 PARKING 20 AUXILIARY 20)
	Total lining area		DRUM : 806,769(FRT:268,923 REAR 1ST : 268,923 REAR 2ND : 268,923) DISC : 235,200(FRT:78,400 REAR 1ST : 78,400 REAR 2ND : 78,400)
Adjuster		Auto Slack adjuster	
Parking Brake	Actuation		FULL AIR BRAKE
	Size (mm)	DRUM : Drum Inner Diameter X Lining Width X Lining Thickness DISC : Rotor Effective Diameter X Pad Width X Pad Thickness	
		DRUM BRAKE : FRT Φ410X200X20, REAR 1ST Φ410X200X20 DISC BRAKE : REAR 1ST Φ345X69X21, REAR 2ND Φ345X69X21	
	Total lining area		DRUM : 537,846(FRT:268,923 REAR 1ST : 268,923) DISC : 156,800(REAR 1ST : 78,400 REAR 2ND : 78,400)

\* Brake Size : Drum (Inner Diameter x Lining Width x Lining Thickness) / Disc (Rotor Effective Diameter x Pad Width x Pad Thickness)

### Suspension

Type	Front		Rigid Type (Taper Leaf / Multi Leaf)
	Rear		Rigid Type (Taper Leaf / Multi Leaf) / Air Type
Spring Size *	Taper Leaf	Front	1800 x 90 X 26t-3
		Rear	1350 x 90 X 32t-3, 40t-1
	Multi Leaf	Front	1,800 X 90 X 15- 9
		Rear	1,350 X 90 X 22 - 3, 20-9
Air	Rear	4-Air Bag Type(Φ275)	
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	33.5

**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(STD) / 500L / 790L / 700L(Only Available with Air Suspension)	
Material	Aluminum	

**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	
Main section side rail dimension (mm)	Depth x Flange x Thickness : 300 x 90 x 8 t	

**Coupler**

Type(Capacity : kg)	1axis(20,000) / 2 axis(35,000)	
King Pin Diameter (Height : mm)	2inch(215) / 3.5 inch(330)	

**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	