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TOANO

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FUTURE
OPTIMISTIC
TECHNOLOGY
OPTIMAL
NATTY

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INTRODUCTION OF TOANO PRODUCT



Fused with German Technologies BUSINESS PARTNERS FROM GERMANY

Designated car for the reception of Heads of state in the Shanghai Cooperation Organization & Asia-Pacific Economic Cooperation conference.

5990 BODY

BODY LENGTH: 5990mm
WHEELBASE: 3750mm
HEIGHT:
2415mm (for medium-top cab)
POWER - DIESEL:
ISF2.8, 120kw , 360Nm/rpm
Emission: Euro-II/Euro-IV
SEATING CAPACITY:
3/6 for cargo transport
14/15/17/18 for passenger transport
12/14/15 for reception application

5015 BODY

BODY LENGTH: 5015mm
WHEELBASE: 2933mm
HEIGHT:
2120mm (for flat-top cab)
2430mm (for medium-top cab)
POWER - DIESEL:
ISF2.8, 96kw , 280Nm/rpm
EMISSION:
Euro-II/Euro-IV
SEATING CAPACITY:
3/5 for cargo transport
7/9 for reception application

5490 BODY

BODY LENGTH: 5490mm
WHEELBASE: 3300-3550mm
HEIGHT:
2445mm
POWER - DIESEL:
ISF2.8, 4JB1T
EMISSION:
Euro-II/Euro-IV
SEATING CAPACITY:
Cargo transport 3/5/6
Reception application 8
Passenger transport 11/12

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OVERVIEW FOR SELLING POINTS OF TOANO PRODUCT



FOTON TOANO 03/04

1 FASHIONABLE APPEARANCE

- The product features design style of classic European modeling, with full and vigorous profile and dynamic and streamline modeling
- The integral front wall features simple and robust modeling and strong visual impact



The simple two grille bars feature refreshing and stretching feeling and the chrome plating enhances the quality feeling of the complete vehicle.



The "X"-shaped structure formed by the bumper and upper grille brings about an aggressive essence.



The lamp modeling features ample spirit and the flying lamp corner leads to A-pillar to enhance the dynamic feeling of complete vehicle. In addition, the application of LED lamps enhances the technologic and modern feeling of the complete vehicle.



The fading lines on the top cover of front wall features streamline and dynamic style.

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■ The integral side wall features dynamic and streamline feeling.

■ The integral rear wall features robust modeling and the chafing strips reduce the gravity center of complete vehicle and realize strong stability.



○ The fading lines on the top and the characteristic line on the side wall feature dynamic, streamline, simple, and modern feeling.



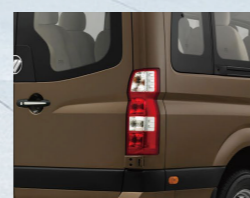
○ The chafing strips throughout the rear wall adopt dark color to enhance the stability feeling of complete vehicle.



○ The irregular-shaped rear windscreen merges integrally with chrome-plated LOGO.



○ The fading line throughout the rear wall and side wall features dynamic and streamline feeling.



○ The characteristic line throughout the rear wall and the side wall merges perfectly with rear combination lamp, featuring fashionable and dynamic feeling.

☒ ULTRA-HIGH SPACE

The body length is increased by 208mm than the Transit vehicles of same kind to bring about a more spacious and comfortable space and a larger storage space.



(By taking 5990 body for instance)

■ The multiple bodies and body heights are planned to meet the diversified body demand of the market.

PARAMETERS	UNIT	5990 BODY		5015 BODY		5490 BODY	
		MEDIUM CAB	HIGH-TOP CAB	MEDIUM CAB	HIGH-TOP CAB	MEDIUM CAB	HIGH-TOP CAB
INNERLENGTH	mm	3510	3510	2440	2440	2440	2440
INNER WIDTH	mm	1785	1785	1785	1785	1785	1785
INNER HEIGHT	mm	1665	1890	1665	1370	1665	1370
CAPACITY	m ³	10.43	11.84	7.25	5.96	9.07	10.35
WHEELBASE	mm	3750	3750	2933	2933	3300-3550	3300-3550

■ First batch of developed model

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Golden combination of powertrainchain and excellent globalresources.

Excellent energy-saving and environmentally-friendly performance

Excellent start performance

Low repair and maintenance cost

High reliability

3 STRONG POWER

- With 120KW strong power and 8.7L fuel consumption per 100km, it features high economy and high fuel-saving. With maximum torque output of 360N.m and 1,800rpm speed for maximum torque output, it handles all kinds of severe road conditions with ease.
- The globalized supplier system guarantees the high maneuverability and excellent driving performance.
- Gearbox 6MT remote control technology, reduce noise, reduce jitter, increase comfort and safety.

/ Cummins engine



ISF2.8

/ Getrag transmission



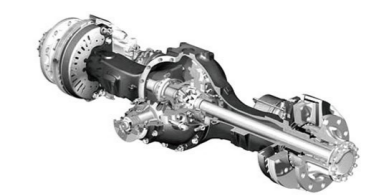
6MT transmission

/ Schaeffler clutch



Self-regulating clutch

/ Dana rear axle



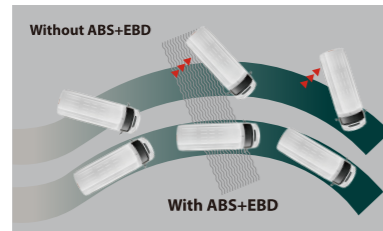
High reliability

☑ HIGH SAFETY AND RELIABILITY

■ Active safety

☐ Bosch ABS+EBD

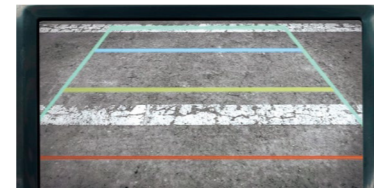
▶ The ninth generation ABS (BOSCH): Adopting the ninth generation ABS (Anti-lock Braking) system of Bosch, avoiding the wheel lock and skid when braking, the data processing ability of the ninth generation ABS system is significantly enhanced and the response is faster than that of the eighth generation ABS system)



▶ ESC electronic body stabilization system (2018.5-) will improve the braking performance in critical conditions, improve the safety of passengers and other road users. The new automatic wiping function of brake discs can improve the braking response in humid conditions.



☐ Active safety devices



✓ Reversing camera for guarantee of reversing safety



✓ Central control door lock



✓ Side marker lamp



✓ 4-probe reversing sensor for effective sensing of driver's blind zone



✓ High-mount brake lamp



✓ Rear turn signal lamp

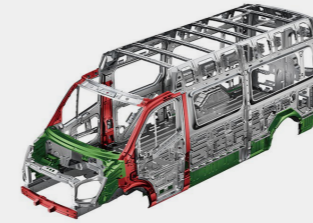


✓ Electric rearview mirror



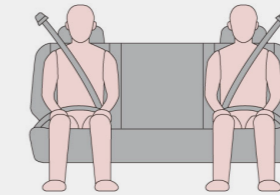
✓ Anti-dazzling rearview mirror for better driving safety

■ Passive safety



▶ The body framework made of **high strength steel plates** promotes the body stiffness by 20% than traditional body to better resist the impact load.

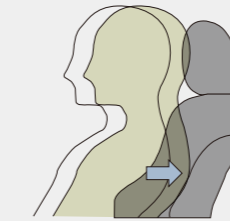
Powerful anti-collision beam: The anti-collision beam is fitted on the front of the body to enhance the body strength and scatter the impact force.



▶ **Three-point pretensioner seat belts for all seats** protect the personal safety of driver/passengers.



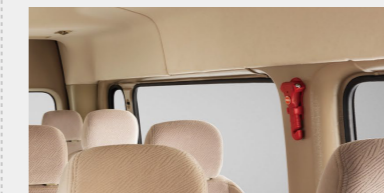
▶ **Energy-absorbing steering column:** In event of collision, the unique energy-absorbing device can timely react to collapse the steering column in multiple locations, in order to prevent the intrusion of steering wheel into the cab from injuring the driver.



▶ With your back gotten into the seat, both your neck and back are supported simultaneously.



▶ **Dual front airbag** (Driver and front passenger)



▶ **The safety hammer** improves the safety coefficient in event of emergency.

■ Chassis performance



▶ High carrying capacity chassis

The rear axle adopts integral design, with carrying capacity of 2.4t. The front suspension adopts McPherson independent suspension. The leaf springs for rear suspension are made of premium spring steel.



▶ High performance suspension system

Air-charged oil shock absorber with tensile damping spring.

High hardness stabilizer bar: The large-size stabilizer bar is adopted to improve the driving stability.

High stiffness subframe: It features higher hardness than previous subframe and improves the impact safety and maneuverability.



▶ High strength leaf spring

Rear polyurethane cushion block with variable stiffness design: It improves the maneuver smoothness of the vehicle while carrying partial load.

Leaf spring made of high strength steel: With two-piece variable section structure, it features higher carrying capacity than leaf springs of conventional structure and remarkably improves the maneuver smoothness.

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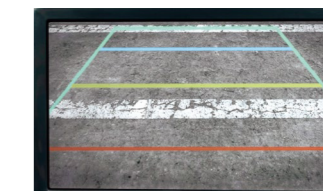
DRIVING COMFORT

- The all-new car-style upholstery design realizes broad vision for driver seat and high maneuver comfort and driving safety.

The European style interior features natural simplicity, smooth lines, and abundant details.



- ▶ The dashboard adopts traditional "T"-shaped structure and its symmetric layout features natural simplicity.
- ▶ The instrument adopts the classic four-meter layout.
- ▶ The humanized maneuver design is accompanied with electric devices, including reversing camera.



Reversing camera

Reversing camera (color display, with reversing sensor buzzer) also displays the reference guide lines to guarantee the reversing safety.



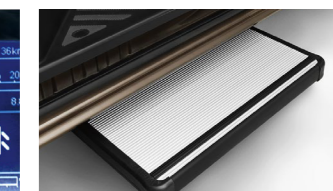
Navigation

Multimedia navigation system [Audio: USB video playback, AM/FM radio, 6-speaker, and navigation]



Instrument

Automatic illuminated instrument



Electric footboard

High safety fully-automatic telescoping footboard

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■ **Storage spaces** - The abundant storage spaces can accommodate the objects such as cups, beverages, and cards, featuring high operation convenience.



Front passenger lower tray



Instrument panel lower storage cell



Front passenger cup holder



Driver cup holder



Ashtray



Front door multifunctional storage cell

■ **Interiors** - Abundant and diversified interior functional buttons can meet the comfort needs.



Central control door lock
electric windows



Electric window



Ignition switch



Cigarette lighter



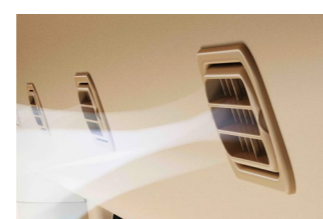
Courtesy lamp system



Negative ion air purifier



Middle door innerhandrail



Rear A/C vent



□ **Abundant seat types** - The multiple seat types, including executive, aero, and high-end seats, are provided to meet the functional type needs, including reception application and passenger transport.

Seat types

Business seat



• Executive seat



• Aero seat

High-end seats



• Single seat,
with head restraint



• Double seat,
with head restraint



• Triple seat,
with head restraint

Seat functions

- 1 Ergonomic design and big passenger space.
- 2 6-direction or 4-direction adjustable seat.
- 3 Integrated head restraint.
- 4 Optional electric adjustment and electric heating functions.

- 1 Ergonomic design.
- 2 4-direction adjustable seat.
- 3 Split head restraint.
- 4 Consideration of both cost and functional need.

Abundant seat arrangement modes - The multiple seat arrangement modes are provided to meet the needs of 3~18 seats.

	Cargo transport	Passenger transport	Reception application
5015	<p>3 seats 6 seats</p>		<p>7 seats 9 seats</p>
5990	<p>3 seats 6 seats</p>	<p>16 seats</p>	<p>12 seats 14 seats</p>
		<p>17 seats 18 seats</p>	<p>15 seats</p>

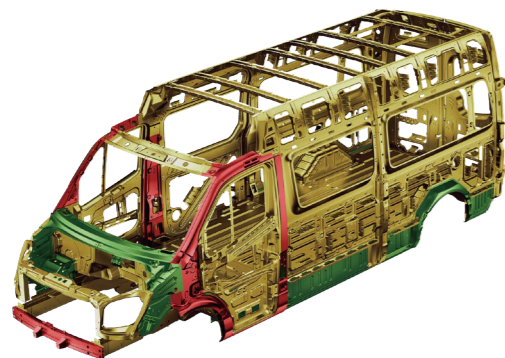


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INTRODUCTION OF SYSTEMS

BODY SYSTEM



No.	System	System characteristics	Description
1	Body-in-white	Integral steel structure body, enhanced body longitudinal beams, central control door lock, and casting process	Highly automated welding and painting processes meet the carrying capacity and safety requirements of the body
2	Interiors system	Injection molded instrument panel, car-style modeling, molded roof, and PVC + composite fiberboard floor	
3	Exterior trim system	Front combination lamp with LED, side chafing strips, electric footboard, and electric rearview mirrors	
4	Exterior trim system	8-direction adjustable driver seat	The seat is supplied by Jiangsu Yuhua Automobile Parts Co., Ltd., one globalized system supplier, to improve the product quality.

POWER SYSTEM



No.	System	System characteristics	Description
1	Powertrain	Cummins ISF2.8 engine features maximum power of 120KW. The Schaeffler self-regulating clutch guarantees the lifecycle clutch pedal force. The Getrag 6-speed manual transmission guarantees the excellent gearshift performance while reducing the fuel consumption.	Engine: BFCEC Clutch: Schaeffler Transmission: Getrag
2	Cooling system	The double electric fan with control of high and low speed modes reduces the noise and power consumption to the maximum extent while guaranteeing the cooling performance.	
3	Fuel supply system	The 80L single-layer plastic irregular-shaped fuel tank can guarantee a one-time driving mileage of more than 800km.	Diesel filter: Cummins filter system
4	Intake system	The inter-cooled and turbocharged intake system features good fuel economy while effectively improving the power performance. The NVH matching design for the intake system effectively reduces the intake vibration and noise.	Air filter: Cummins filter system
5	Exhaust system	The tight-coupled DOC after-treatment system meets the NS-IV emission standard. The two-stage impedance composite muffler guarantees the excellent NVH performance for the complete vehicle.	
6	Gearshift operating system	The instrument panel type remote flexible shaft control achieves better gearshift comfort.	

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CHASSIS SYSTEM



No.	System	System characteristics	Description
1	Suspension system	Front McPherson independent suspension Rear variable stiffness and variable section parabolic spring non-independent suspension	The rear suspension adopts two-piece variable section springs supplied by Jiangxi Changli Automobile Parts Co., Ltd. (original supplier for Transit) to give consideration to both carrying capacity and comfort.
2	Steering system	Pinion-rack hydraulic power steering The steering drive with torsional damper can effectively reduce the vibration of steering wheel arising from the impact of road Energy-absorbing steering column	Pinion-rack hydraulic power steering The steering drive with torsional damper can effectively reduce the vibration of steering wheel arising from the impact of road Energy-absorbing steering column
3	Brake system	Double-diaphragm vacuum booster, with BA function X-shaped brake pipeline arrangement Rear disc brake (with enhanced integral parking brake) BOSCH 9th generation ABS system	Front and rear disc brakes + Bosch latest 9th generation 4-channel X-shaped ABS realize excellent braking stability
4	Drive system	215/75R16C tires Integral tube type rear axle, fully-floating half shaft, single-stage main reducer, and drive shaft with flexible coupling can effectively reduce the drive vibration.	The tube type fully-floating rear axle manufactured by Fujian Spicer Drivetrain System Co., Ltd., one Sino-US joint venture, features higher carrying capacity. The drive shaft with flexible coupling can effectively reduce the impact and vibration arising from torque transmission.

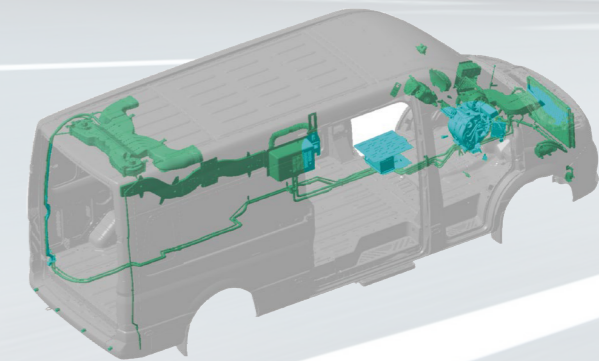
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ELECTRIC SYSTEM



No.	System	System characteristics	Description
2	Harness system	CAN bus system, remote control key, and engine immobilizer	
3	Electric system	Bus instrument and bass & treble Snail electric horn Camel maintenance-free, with rated capacity at 85AH	
4	A/C System	Front A/C heater + rear A/C heater, with super-strong cooling capacity	
	Entertainment system	Airbag + pretensioner seat belt, 6-speaker DVD + Navigation + Reversing camera	

A/C SYSTEM



No.	System	System characteristics	Description
1	Front A/C	The fan, evaporator, and heater integrated front A/C unit, with cooling capacity at 4000W/420(m ³ /h)	
2	Front heater	6300W heat exchange amount	
3	Rear A/C	Overhead rear evaporator, with cooling capacity at 6000W/700(m ³ /h) and heat exchange capacity at 19000W	
4	Rear heater	4700W heat exchange amount	

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TOANO LOGISTICS VEHICLES

Biggest Business Asset.

- . World-class American Cummins engine power
- . 7.25 m³ of cargo space, maximum load 1.0t .
- . Stronger, anti-shock, anti-collision steel for better protection of passengers and cargo



RICH MODIFIED PRODUCTS



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TOANO COMMERCIAL VEHICLES

Magnanimous Luxury

- . World-class American Cummins engine power
- . Reliable – average of 500,000 km without major repair
- . Quiet, suits customer pickup and private business excursions
- . Built-to-order



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TOANO AMBULANCES

Responsive in Emergency

- . World-class American Cummins engine power
- . Strengthened chassis for smoother ride
- . Patient compartment is well-isolated, well-ventilated, anti-bacterial and anti-corrosive



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TOANO REFRIGERATED VANS

Fresh to Market

- . World-class American Cummins engine power
- . Strengthened chassis for smoother ride
- . Italian foam insulation, light-weight, high-strength, anti-corrosive, anti-age and easy-to-clean cargo area



Specification Of Toano Product

FOTON TOANO 21/22

	Parameter type	Main data		
Vehicle sizes	Overall length mm	5990	5015	5735
	Overall width (excluding rearview mirrors) mm	2000	2000	2000
	Top type - Overall height (unloaded) mm	Medium-top cab - 2415	Medium-top cab - 2430	Medium-top cab - 2445
	Wheelbase mm	3750	2933	3350
	Tread (front/rear) mm	1740/1704	1740/1704	1740/1704
	Front/rear overhang mm	993/1247	993/1089	933/1392
	Attitude angle of vehicle (unloaded)	0.6	0.9	0.7
Trafficability	Min ground clearance (fully loaded) mm	≥160	≥160	150
	Ramp angle (fully loaded)	≥15	≥19.8	30
	Approach angle (fully loaded)	≥18.8	≥18.8	≤21.5
	Departure angle (fully loaded)	≥15.5	≥20.8	≤11.9
	Minimum turning radius m	≤13.5	≤11.5	≤6.1
Masses	Seating capacity	3/6/12/14/15/17/18	3/6/7/9	6
	Curb weight kg	2332 (14 seats)	2315 (9 seats)	2320 (6 seats)
	Carrying capacity	1167	985	1230
	Gross mass kg	3499	3300	3550
Power system	Fuel type	Diesel	Diesel	Diesel
	Model	ISF 2.8	ISF 2.8	4JB1T
	Displacement L	2.8	2.8	2.8
	Power kw/rpm	120/130 (3600)	96 (3600)	81(3600)
	Max. torque N.m/rpm	360(1400-1800)	280(1400-1800)	280(1400-1800)
	Maximum speed (fully loaded) km/h	≥143	≥130	≥120
	Acceleration time (fully loaded, 0-100km/h) s	≤29	≤39	≤37
	Maximum gradeability %	≥35	≥30	≥30
	Composite fuel consumption L	≤9.5	≤9.5	≤10.5