



四川中植盛和国际贸易有限公司
SICHUAN ZHONGZHI SHENGHE PERFORMANCE CO.,LTD

2019 model 11.5M TWO door low floor CNG city bus SH61105HN 100 passenger load delicate for BRT
2019 款 SH6120HN 11.5米 2门低地板天然气公交车100乘客装载量 BRT 专用



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(The picture and the technical parameter are for reference only, Our company reserves the right of final interpretation. the final design of Bus is subject to the Contract signed between Buyer and Seller)

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四川中植盛和国际贸易有限公司
SICHUAN ZHONGZHI SHENGHE PERFORMANCE CO.,LTD



Monocoque chassis structure , 100% Lower floor three door , NEW CNG City bus 100 passenger load

全承载车身结构，全平低地板 3 门全新天然气公交车

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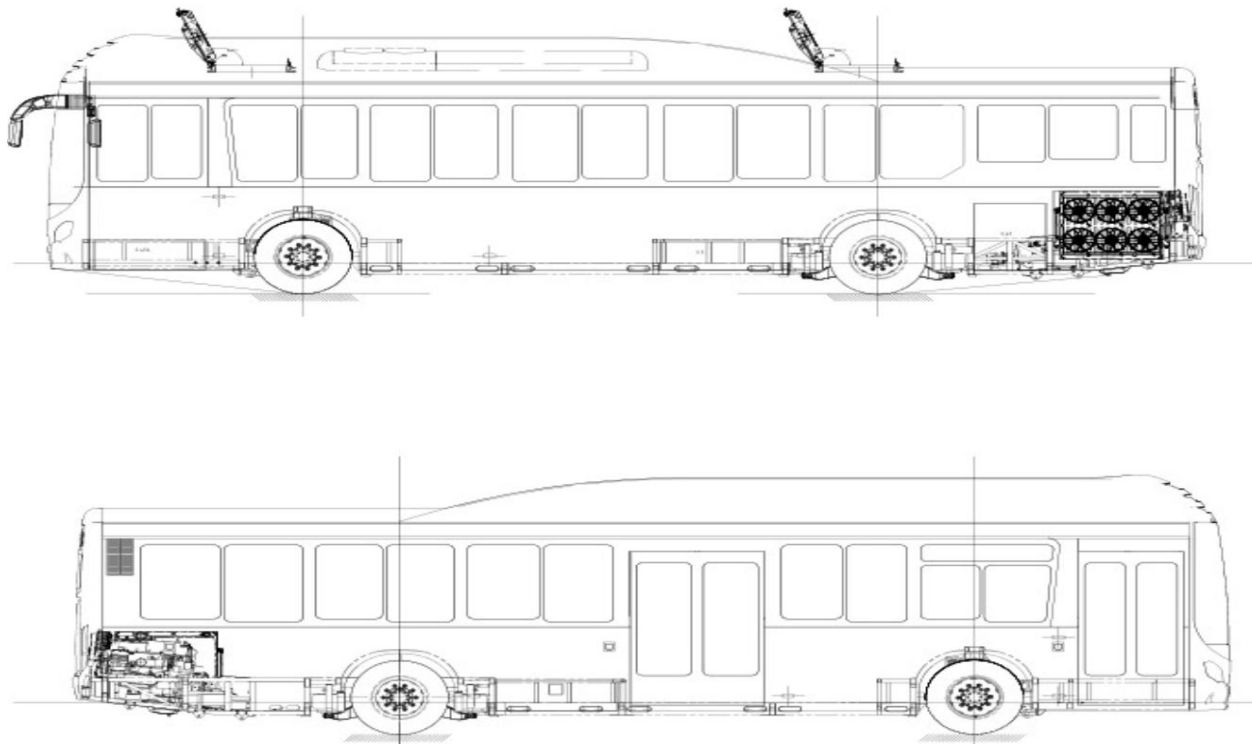
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Part I. 设计优势 Advantage of New Design:



遵循欧盟最新 ECE 技术标准设计。按- 35 ° C to + 45 ° C 工作温度设计

Design in according to latest ECE technical standard which allow to work from - 35 ° C to + 45 ° C

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1. 2019 款天然气豪华公交客车采用全承载式车身。提供更高的强度，刚度和可靠性

2019 model luxury 12m CNG city bus take monocoque chassis which offer the high strength, rigidity, reliability

El modelo 2019 de lujo 12m CNG autobús urbano toma chasis monocasco que ofrece la alta resistencia, rigidez, fiabilidad



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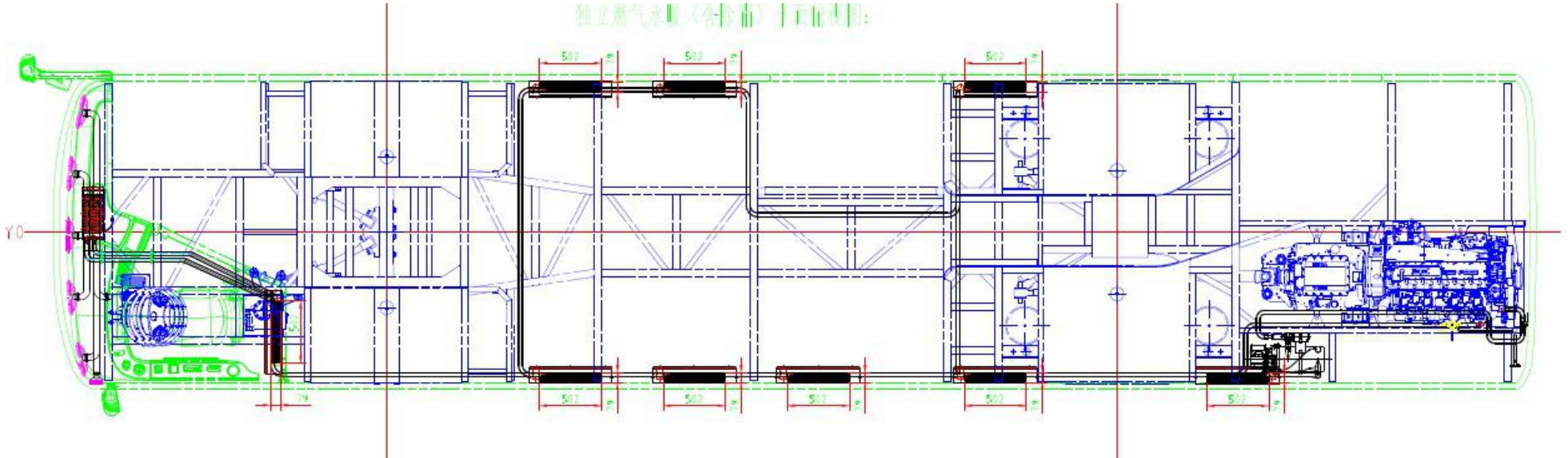
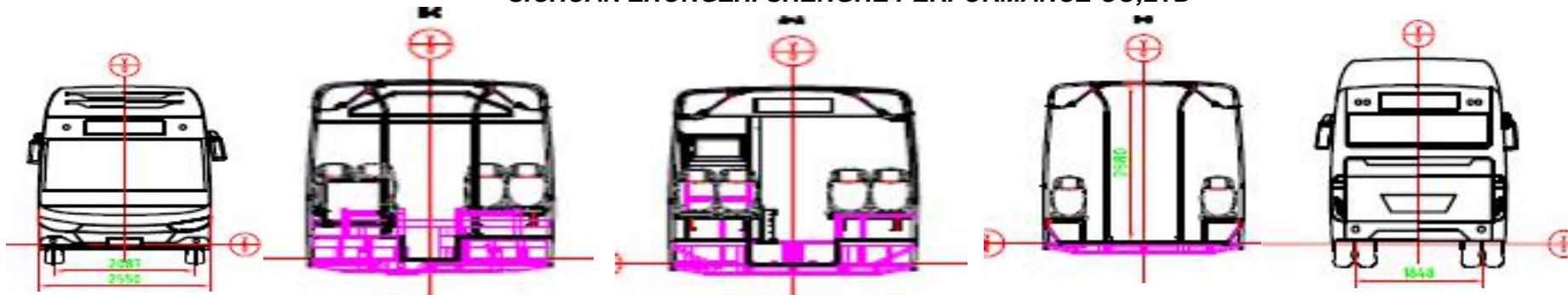
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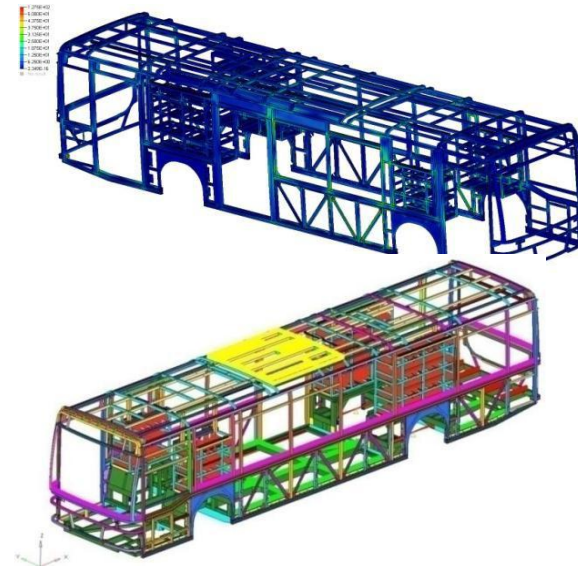
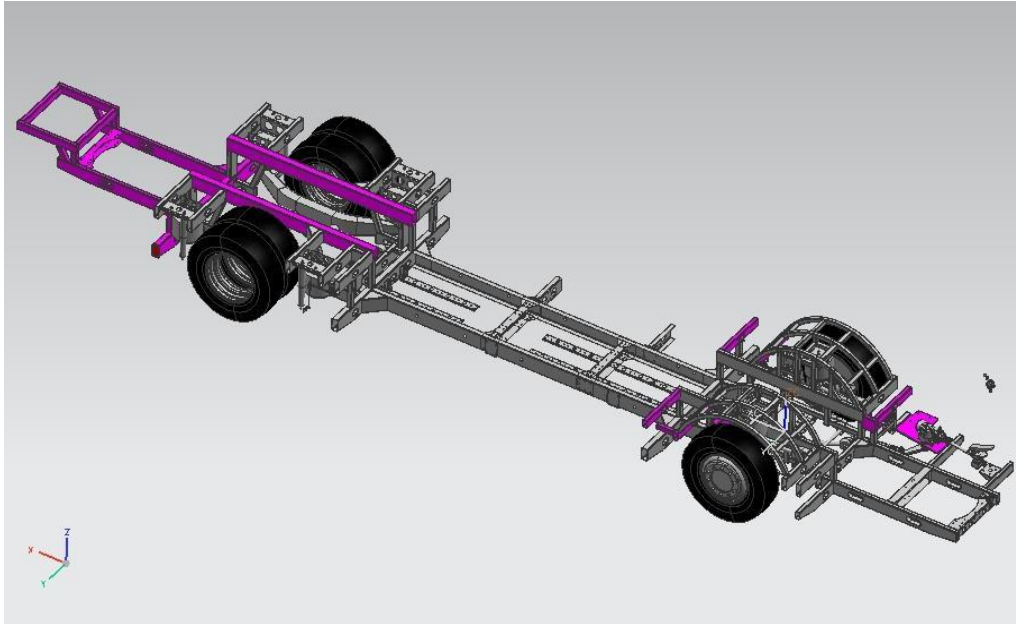
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欧洲最新一代全承载车身和底盘优化设计，配合门式桥和气囊减振系统，独立减振系统，实现全车低地板，同时实现更大更舒适的乘坐空间
New generation European ECE Approved monocoque frame and chassis combine optimum design, portable bridge, independent suspension and airbag vibration reduction, which achieve 100% low floor in whole bus . and allow offer passenger bigger and comfortable spac



Our 2019 model Diesel City Bus use Moncocoque structure which ensure the stiffness and durability.

Nuestro modelo 2019 Diesel City Bus utiliza una estructura de Moncocoque que garantiza la rigidez y la durabilidad.

—0.7G 的刹车工况	—0.4G 转弯工况	—静态弯曲工况	—静态扭转工况	—ECE-R66 侧翻工
—0.7G Brake work condition	—0.4G Turning condition	—Static bending condition	—static torsion condition	—ECE-R66 rollover

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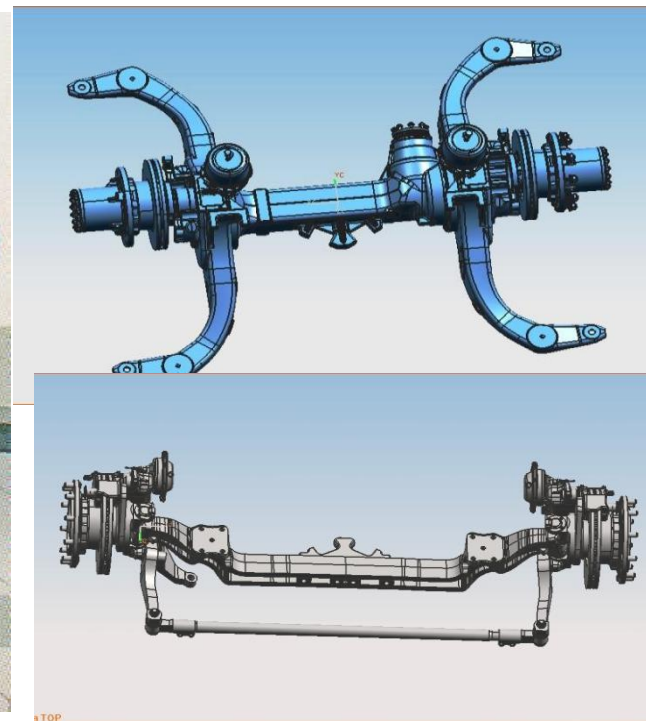
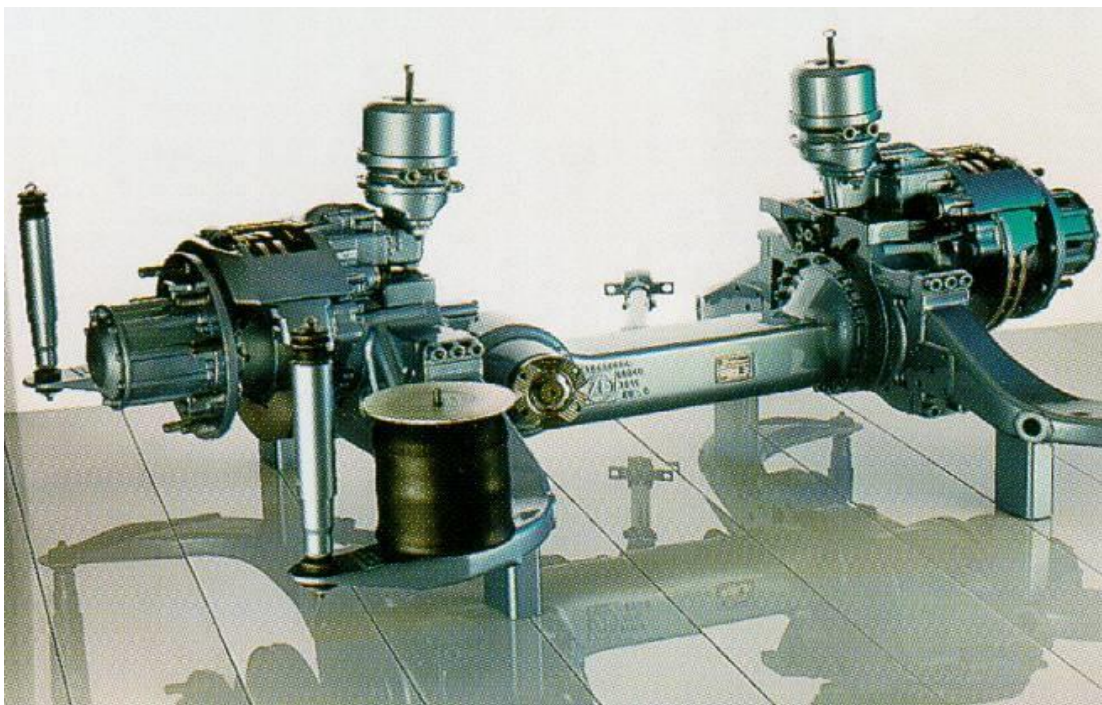
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2 全新门式桥和气囊减振技术实现整车底盘自动调节

Auto body-adjustment tech achieve by air vibration reduction & portable bridge



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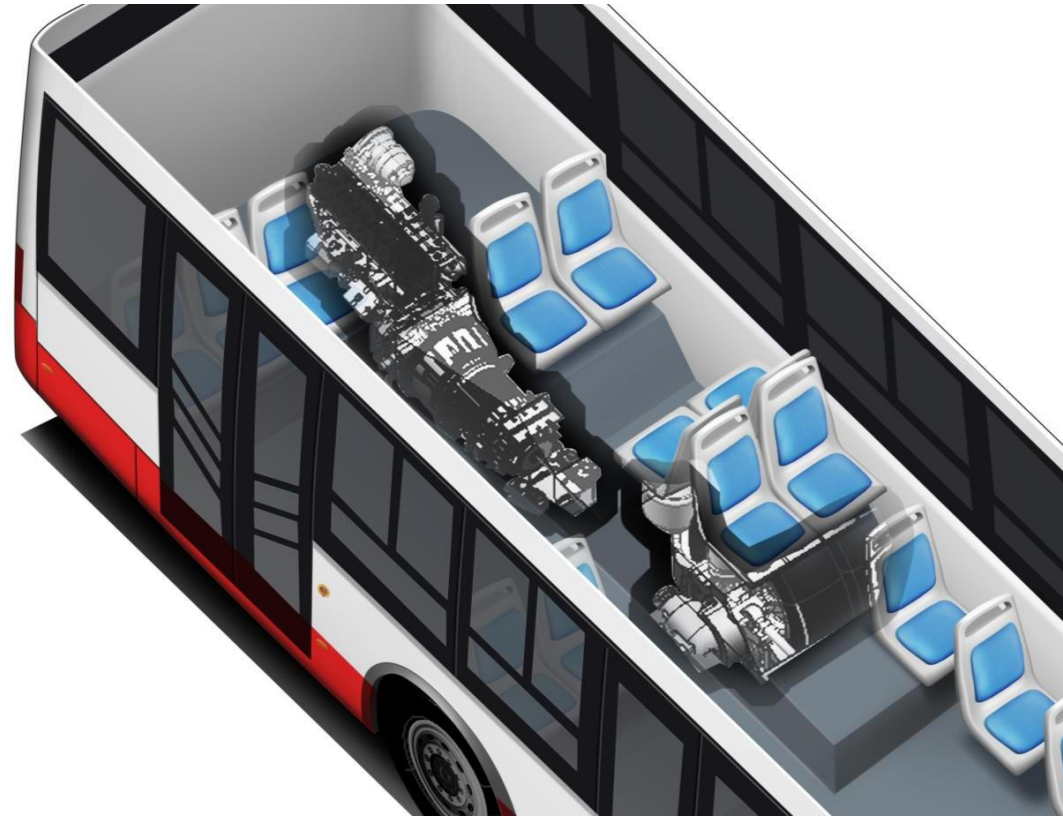


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- 2 克服传统客车大梁设计弱，地板高度小于 340mm。实现全车低地板设计。 为客户提供更好的舒适性

Compare with traditional Non- Moncocoque design , Our step clearance is smaller than 340 mm which offer easy entrance for passenger

Compárelo con el diseño tradicional no Moncocoque. Nuestro paso de paso es más pequeño que 340 mm, que ofrece una entrada fácil para el pasajero.



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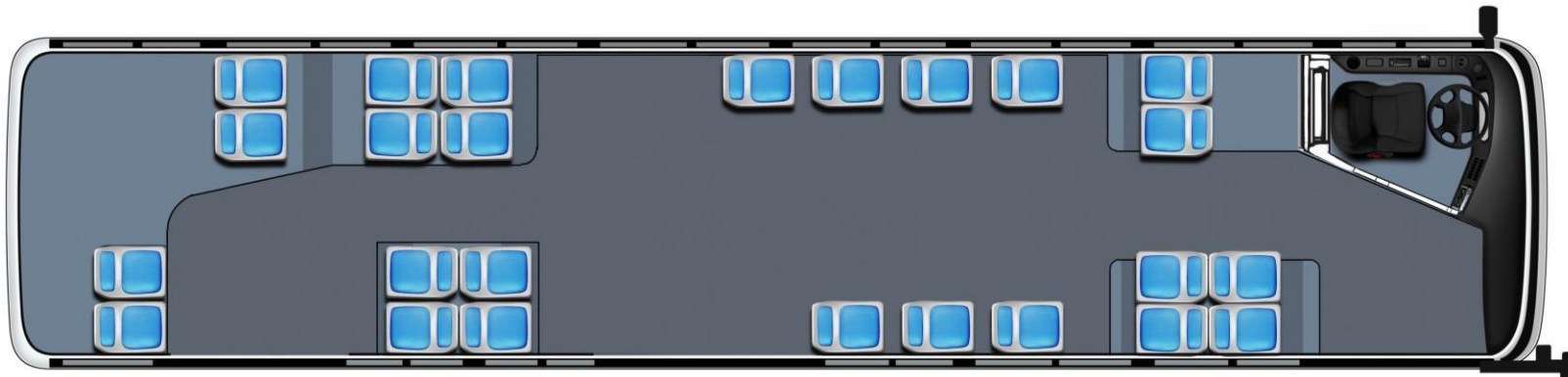
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全车低地板设计, 增加载客数量, 带残疾人专用通道

100% lower floor offer bigger space for passenger and equipped with wheelchair ramp. Load 120 Passenger

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3 采用铝合金材料和碳纤维蒙皮，有效降低全车重量

Use Aluminum alloy& Carbon fiber skin to reduce the weight of Bus

铝合金
Aluminum Alloy



碳纤维材料
Carbon fiber

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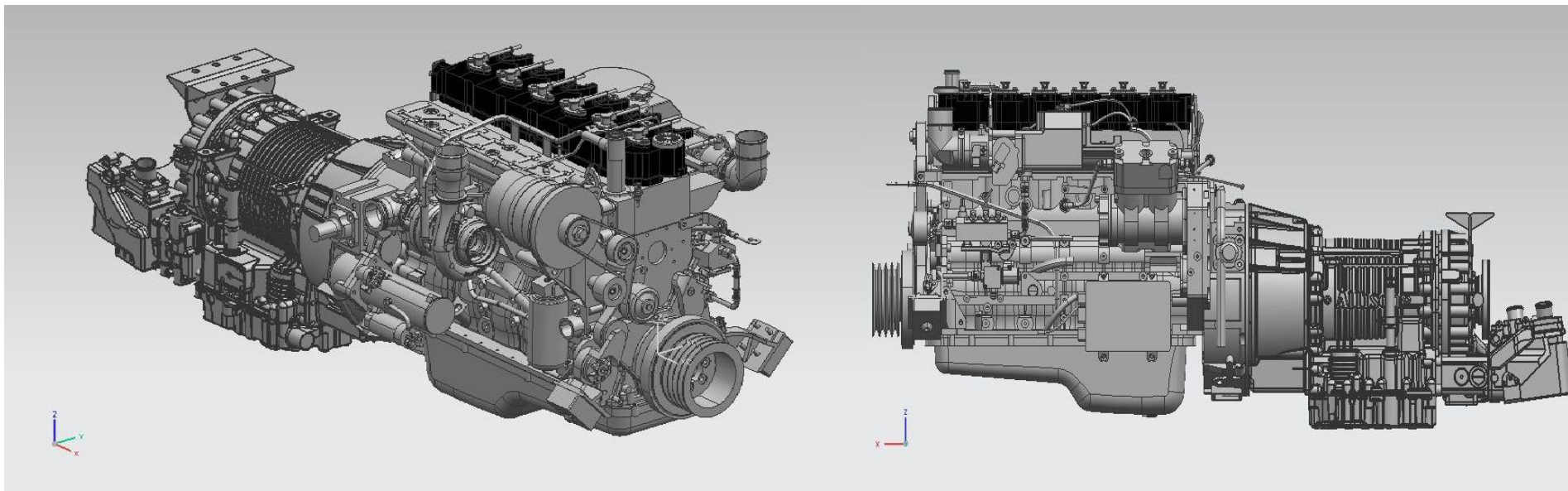
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- 4 280 马力柴油气发动机，满足欧 5/6 标准(天然气适用)， 4 气门高效发动机， 发动机启停技术提供更好的驾驶感受 带 ECE 认证
280 Hp Euro 5/6 Diesel engine(CNG) , 4 intake valve high efficiency motor with smart-star-stop tech with ECE certification
280 hp Euro5/ 6 CNG motor (CNG),

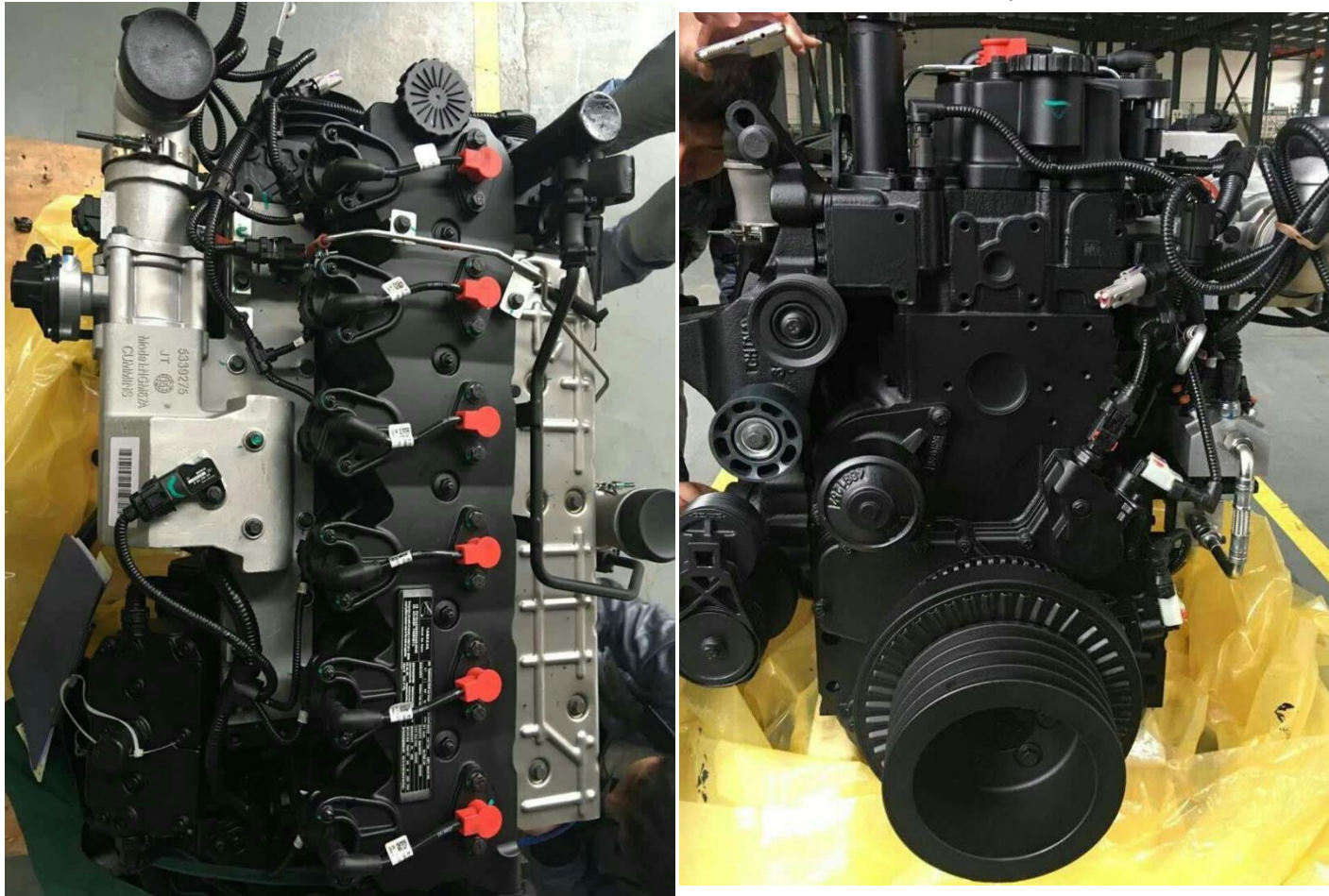


engine and Automatic gear box perfect combination (3D)

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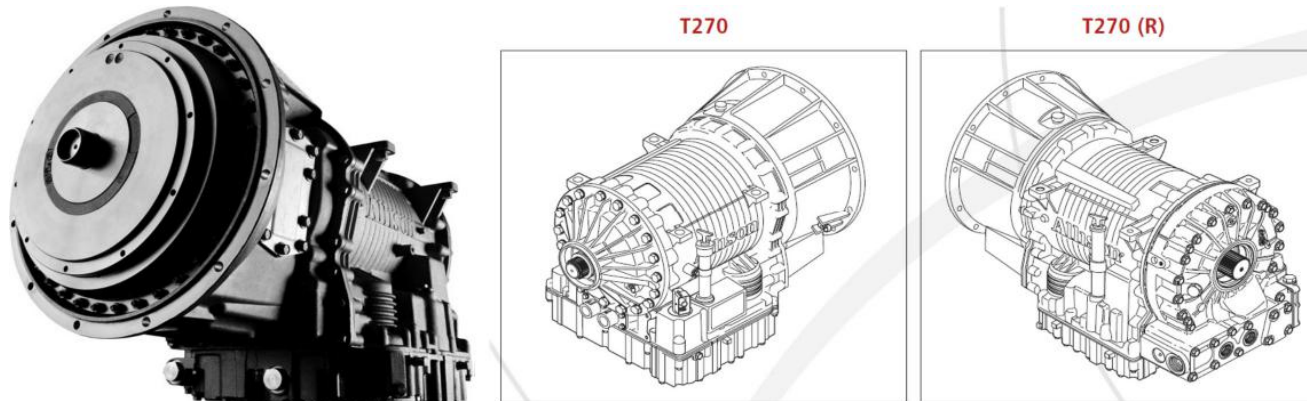
Euro 6 CNG Engine

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- 5 采用客车专用全自动 6 挡变速箱，适合多种路况
speed automatic Gearbox with more powerful output suit for various road condition



RATINGS

	Input Torque Gross N•m (lb-ft)	Input Power Gross ¹ Kw (hp)	Turbine Torque Net ² N•m (lb-ft)	GVW kg (lbs)	Vocations
City Bus	900 (664)	179 (240)	1857 (1370)	24,000 (52,911)	City Bus
Tour Coach	900 (664)	179 (240)	2030 (1497)	24,000 (52,911)	Tour Coach

1. Gross Power rating as defined by ISO 1585 or SAE J1995. 2. Turbine Torque limit based on iSCAAN standard deductions.

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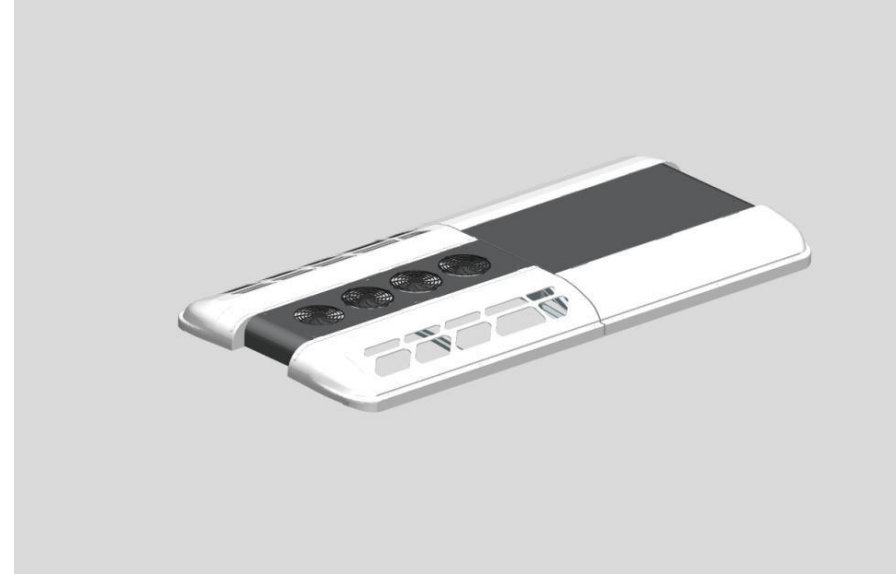
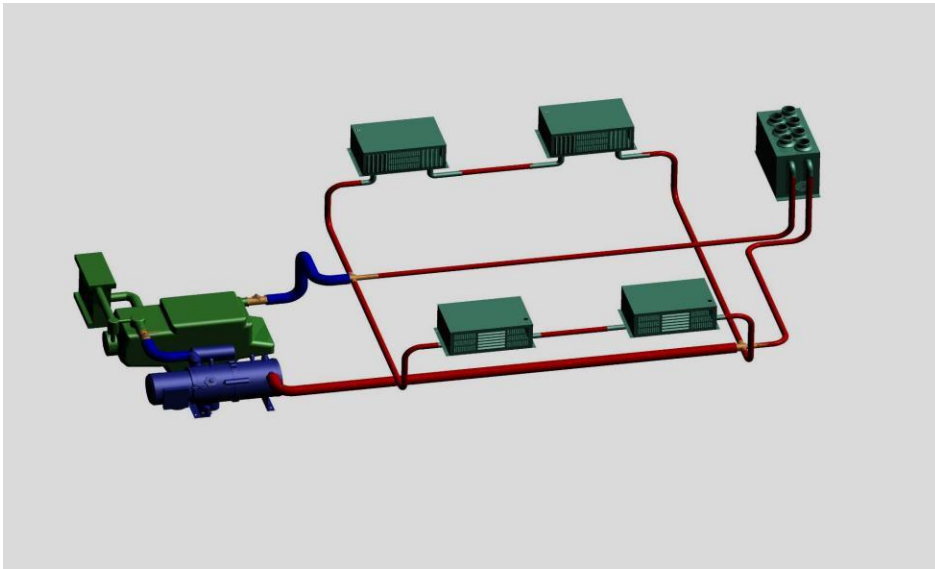
- 6 提供双向冷-热空调和寒带地区专用制热系统,提供舒适的公共环境.整车设置 9 个独立散热器。独立加热和发动机加热并联，32000 大卡大功率空调
Equip powerful heating system & air conditioner base on cold climate condition which offer comfortable public environment in winter and summer
dependent heating combine work with engine heating .equip with 9 independent Radiator. 32000 Cal big power air condition



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集中润滑系统和免维护前后桥设计提供长寿命使用

Centralized lubrication system and maintenance-free front & rear bridge design for long life use

大功率制热空调

High-Power Air conditioner

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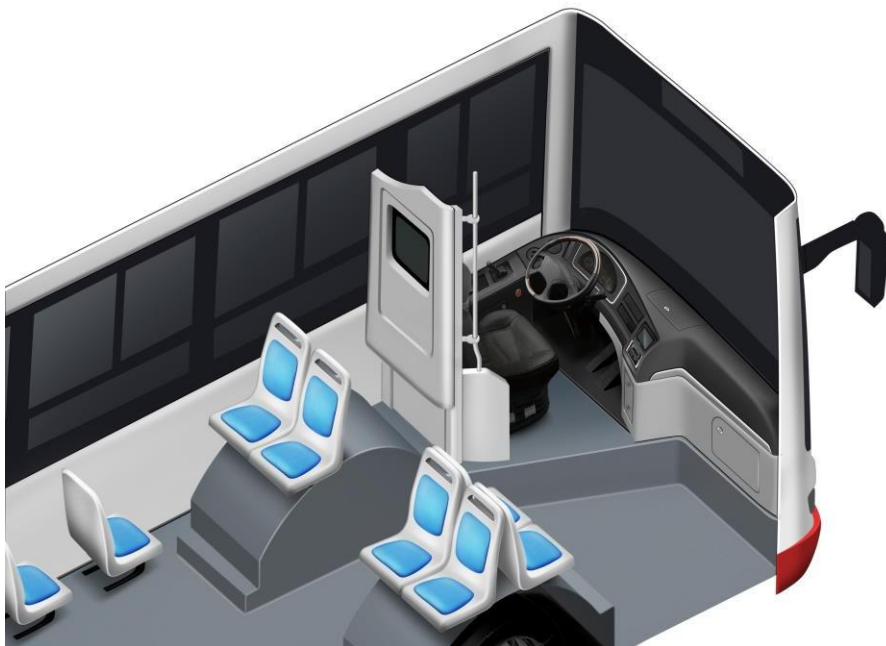


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7 宽大的驾驶室 个性化设计采用半封闭或进行全封闭设计，为驾驶员提供舒适的空间

Large Cabin , have half -closed and full closed design for customer choose . offer the comfortable space for driver

Cabina grande, con diseño semicerrado y totalmente cerrado para que el cliente elija. Ofrece el espacio cómodo para el conductor.



Semi-closed cab design



Full-closed cab design

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- 8 LED 照明系统, ECE 认证, 昼间行车灯, 带透镜功能
LED lighting system with ECE certificate . Daytime Running light with Lens function



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Model No.:SH61105HN 11.5m CNG engine lower floor & 2door New city Bus

Núm. De modelo :SH61105HN motor inferior de 11.5 m CNG piso más bajo y nuevo autobús urbano de 2 puertas

Dimensión Dimension	Longitud (mm) Length(mm)	11500	Datos del motor Engine Data	Modelo de motor Engine Model	1) YC6G260N-52 Yuchai Euro V CNG engine Motor Yuchai Euro V CNG
	Ancho (mm) Width(mm)	2500		Tipo de motor Engine Type	Inline SIX cylinder, Turbo Charged, Inter Cooling CNG Engine. ,Rear install Cilindro Inline SIX, Turbo Charged, Inter Refrigeración CNG Engine. , Instalación trasera
	Altura (mm) Height(mm)	3350			
	Distancia entre ejes (mm) Wheel base(mm)	5600			
	Pisada F / R (mm) Tread F/R(mm)	2086/1860		Desplazamiento (L) Displacement(L)	8.424L
	Saliente F / R (mm) Overhang F/R(mm)	2545/3355		Potencia (KW / rpm) Power (KW/rpm)	191Kw/2200rpm
	Aproximación / Salida (°) Approach/Departure(°)	8/7		Max. Par de apriete (N.m / rpm) Max. Torque (N.m/rpm)	1000/1200-1800
	Número de pasajeros / número de asientos	100/36+1		Tipo de combustible Fuel Type	CNG
	性能参数 Performance	Posición del motor Engine Position		Montado en la parte trasera Rear Mounted	Velocidad máx. (Km / h) Max. Speed(km/h)
Modelo de chasis Chassis Model		SYC6119	Capacidad de grado máximo (%) Max. Grade Ability (%)	15	

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	Distancia de frenado (m) (V = 30km / h) Brake distance(m) (V=30km/h)	≤10	Capacidad del cilindro de GNC (L) CNG Cylinder Capacity (L)	6*80=480L
	Peso en vacío (Kg) Curb Weight(Kg)	11110	Peso total máximo (kg) Max. Total Weight(kg)	18000
			Eje F / R (kg) Axle F/R(kg)	6500/13000
Artículo		Configuración estándar		
Item		Standard Configuration		
底盘配置 Chassis	Embrague Clutch	Placa individual seca, auxiliar hidráulico. Single Dry plate, hydraulic Assistant		
	Transmisión Transmission	CAJA DE CAMBIOS RÁPIDA AUTOMÁTICA FAST AUTOMATIC GERABOX		
	Eje trasero Rear Axle	Eje trasero de 13 toneladas, freno de disco de 22.5 ", cubo de rueda sin mantenimiento 13Ton Rear Axle, 22.5' disc brake, maintenance free wheel hub		
	Eje delantero Front Axle	Eje delantero de 6.5 toneladas, freno de disco de 22.5 ", cubo de rueda sin mantenimiento 6.5Ton Front Axle,22.5' disc brake, maintenance free wheel hub		
	Axle / drive wheels Eje / ruedas motrices	4 x 2 / rear 4 x 2 / trasero		
	Sistema de suspensión Suspension System	Mejora menos- Resorte de hojas (F3 / R 4), estabilizador lateral F / R, amortiguador neumático Enhancement less- Leaf Spring (F3/R 4), F/R Lateral stabilizer, Pneumatic shock absorber		
	Sistema de direccion Steering System	Dirección asistida integral Integral Power Steering		
	Sistema de frenos Brake System	F / R Freno neumático de doble circuito independiente, almacenamiento de energía Resorte de aire Freno neumático, ABS, freno de disco delantero y trasero, filtro de aire secador independiente		

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sales@chinasyp.com sypcngstoneyang@vip.163.com

TEL: 0086 15928080732 FAX: 86-28-85160729



四川中植盛和国际贸易有限公司
SICHUAN ZHONGZHI SHENGHE PERFORMANCE CO.,LTD

		F/R Independent Dual Circuit Pneumatic Brake, Energy Storage Spring Parking Air Brake, ABS, Front and rear disc brake, filter type independent air drier
	Sistema de enfriamiento Cooling system	Sistema de radiación intelectual ATS. Intellectual ATS radiation system
	Neumático Tire	275 / 70R22.5-18PR Neumático de capa radial sin cámara, buje giratorio de 22.5 x 8.25 275/70R22.5-18PR Tubeless Radial Ply Tire, 22.5 x 8.25 spinning hub
	Sistema electrico Electric System	24 V, Cable Único, Menos Tierra 24V, Single Wire, Minus Earth
	Batería / Generador Battery/Generator	6-6-Q-135AH, 2 piezas de batería sin mantenimiento 28V, 150A 6-Q-135AH, 2pcs maintenance free battery 28V,150A
车身内饰 Body	Estructura del cuerpo Body Structure	Estructura de anillo de cierre de diamante, piso de un escalón Diamond close ring structure, one step floor
	Recorte interior Interior Trimming	Aleación de aluminio superior / lateral Panel de aluminio compuesto Conducto de aire de fibra de carbono compuesta de aleación de aluminio, techo delantero y trasero de ABS, parasol delantero / lateral en la cabina del conductor, aluminio en la cabina Top/side aluminum alloy Aluminum composite panel Air duct made of Aluminum alloy composite carbon fiber , front & rear roof made of ABS , front/side sunshade in driver's cab, aluminum surrounding of driver's cab
	Mesa de instrumentos Instrument table	panel de moldeo por inyección: tres teclas con diferente diferencia de color: botón de la puerta delantera = verde, tecla del botón trasero = amarillo, tecla de luz de emergencia = rojo injection molding panel: three keys with difference color difference: front door button = green, rear button key= yellow, emergency light key= red
	Bomba de puerta y puerta Door& Door Pump	Frontal y medio Dos puertas de aleación de doble giro hacia adentro, bomba de la puerta de control electrónico Front and middle Two Double Inward Swing Alloy Door, Electronic Control Door Pump

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	Ventana Window	configuración del parabrisas en la ventana delantera y posterior, configuración de ventanas laterales con vidrio templado y vidrio cerrado Recubrimiento verde sobre vidrio vidrio anti UV verde, diseño de ventana lateral para estructura de ventana deslizante, use candado negro de aleación de zinc para la ventana abierta del pasajero. instalar parasol en cabina configuration windshield in front and post window., side windows configuration with Toughened glass and Closed glass Green coating on glass anti UV green glass, side window design for sliding window structure, use zinc alloy black lock for passenger open window. install Sun shade in cabin
	Piso Floor	Piso de espuma de PVC, cuero antideslizante antideslizante de arena arenada, puerta cerrada con pintura amarilla sobre cuero PVC foam floor, wear resistant non slip quartz sand floor leather, close door painting yellow on leather
	Seats Asientos	Asiento suave del conductor suave, ajustable en 3 direcciones; 34 + 1 Asiento del pasajero de acero plástico resistente al desgaste Soft Driver's seat soft, adjustable in 3 direction;34+1 Wear resistant plastic steel passenger seat
	Air condition Aire acondicionado	El acondicionador de aire de montaje superior no independiente de 32000 kcal / h incluye un generador que funciona sin batería 32000 kcal/h non-independent top mounted air conditioner include generator running without battery
	Pasamanos y anillo Handrail & Ring	Pasamanos de aleación de aluminio, anillo de elevación (anillo giratorio FY90A) con tapa blanda, tres vías, asiento recto, placa de aluminio Aluminum alloy handrail, lifting ring (FY90A rotary ring) with soft cover, three way, straight seat, aluminum plate
	Electric appliance Aparato eléctrico	Monitor & Video camera 1pc- In the cabin in front of each door (2 pcs.) 1pc- In the cab to monitor the situation in front of the bus (1 pc.) 2- In the back of the bus for tracking the situation behind the bus (1 piece). 2 set of 19 inch TV, with its DVD player for advertising Monitor y camara de video 1pc- En la cabina frente a cada puerta (2 uds.) 1pc- En la cabina para monitorear la situación frente al bus (1 ud.) 2- En la parte posterior del bus para rastrear la situación detrás del bus (1 pieza). 2 juegos de TV de 19 pulgadas, con su reproductor de DVD para publicidad.

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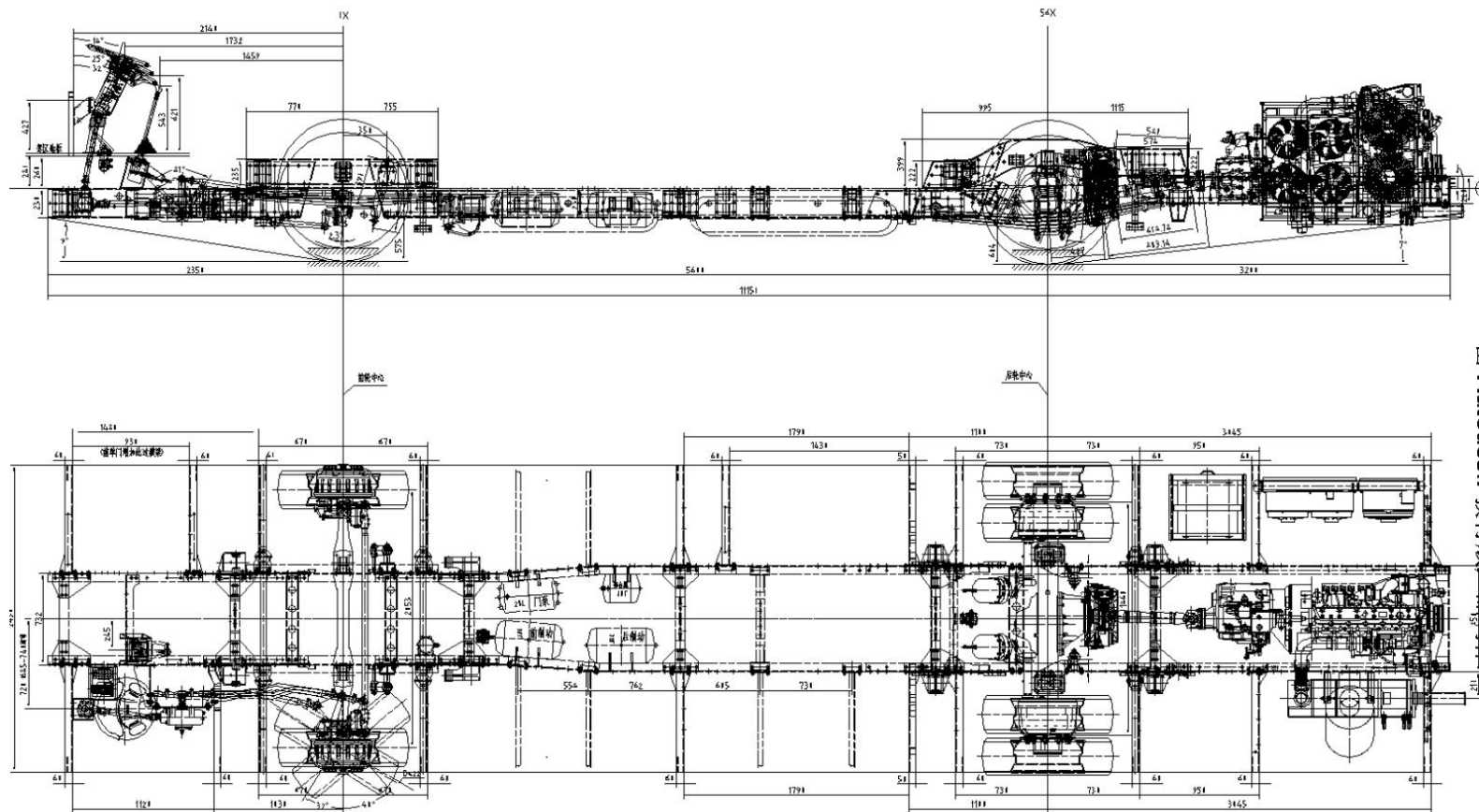
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	Sistema de visión trasera Rear View System	Oreja de conejo Tipo espejo retrovisor KW28, radar de inversión visual, espejo interior con reloj electrónico Rabbit ear Type rearview mirror KW28 , visual reversing radar, interior mirror with electronic clock
	Tablero de información LED LED Information board	Instale señales de señalización LED de carretera electrónica en la parte delantera / trasera / lateral LED, pantalla en español Install Front/rear/side LED rolling display electronic road LED signs, display in Spanish
	Lámpara Lamp	Nuevo tipo de luz delantera y trasera, lámpara de techo interior LED, luz de paso LED, luz de ancho de puerta LED. new type Head and Tail Lamp, Run-through LED Inner Ceiling Lamp, LED Step Light, LED Door Width Light.
	Limpiaparabrisas Wiper	Limpiador asíncrono de vista completa Asynchronous Full View Wiper
	Equipment and tool Equipo y herramienta	Warning triangle, First aid kit, CANBUS, spare tire, repair tool kit, trash can,,2pcs Carbon dioxide Fire extinguishers, electric wheelchair system Triángulo de advertencia, kit de primeros auxilios, CANBUS, llanta de refacción, kit de herramientas de reparación, bote de basura, extintores de dióxido de carbono 2 piezas, sistema de silla de ruedas eléctrica

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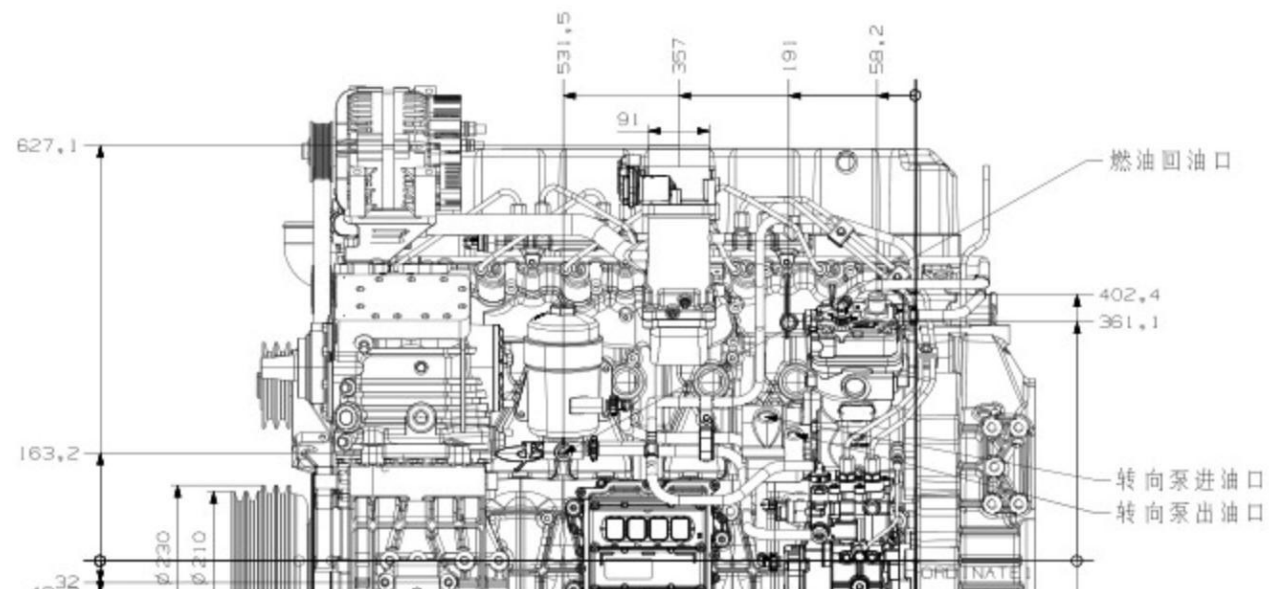
Reference Layout of body and frame (**Monocoque chassis structure**)
 Diseño de referencia de cuerpo y bastidor (estructura de chasis monocoque)



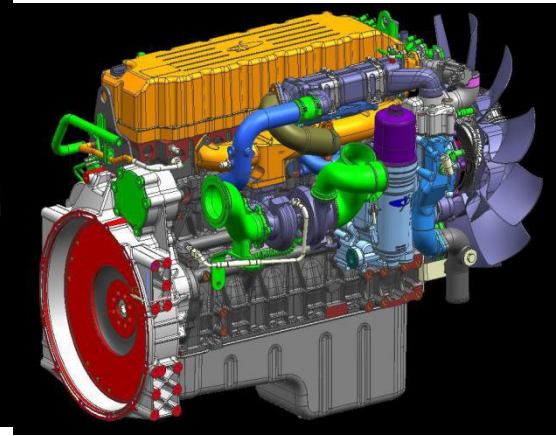
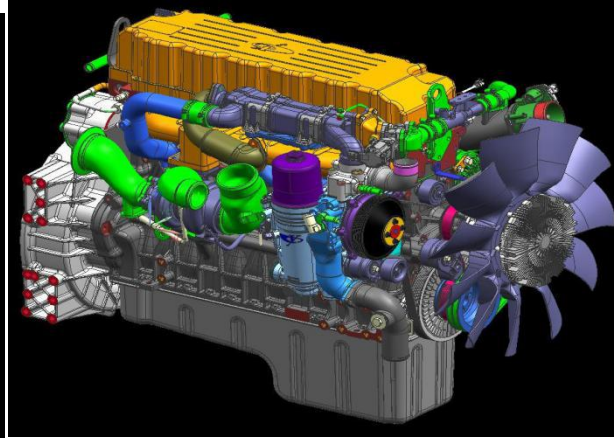
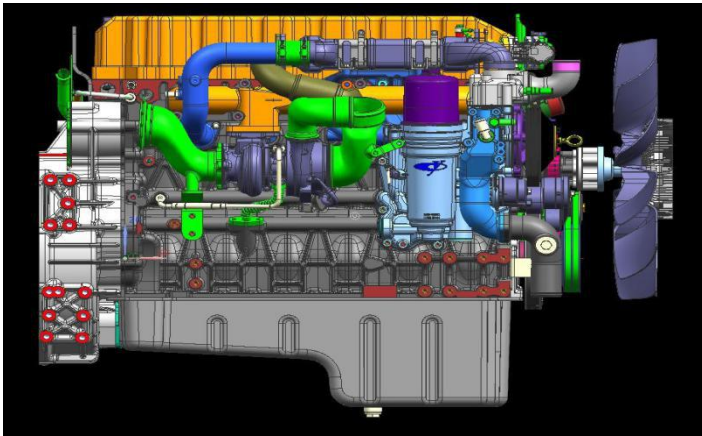
Reference Layout of body and frame ([Monocoque chassis structure](#))
Diseño de referencia de cuerpo y bastidor (estructura de chasis monocasco)

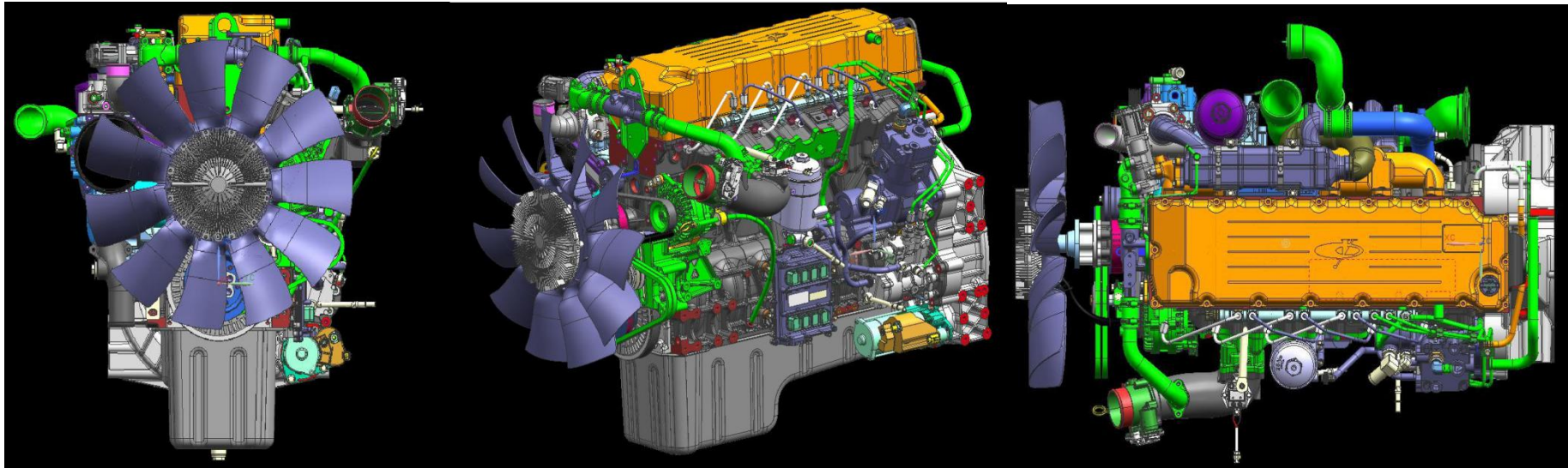


Reference Layout of body and frame (Monocoque chassis structure)
Diseño de referencia de cuerpo y bastidor (estructura de chasis monocoque)



Reference Layout of Engine (Euro 5)
Diseño de referencia del motor (Euro 5)





Reference Layout of Engine (Euro 5)
Diseño de referencia del motor (Euro 5)

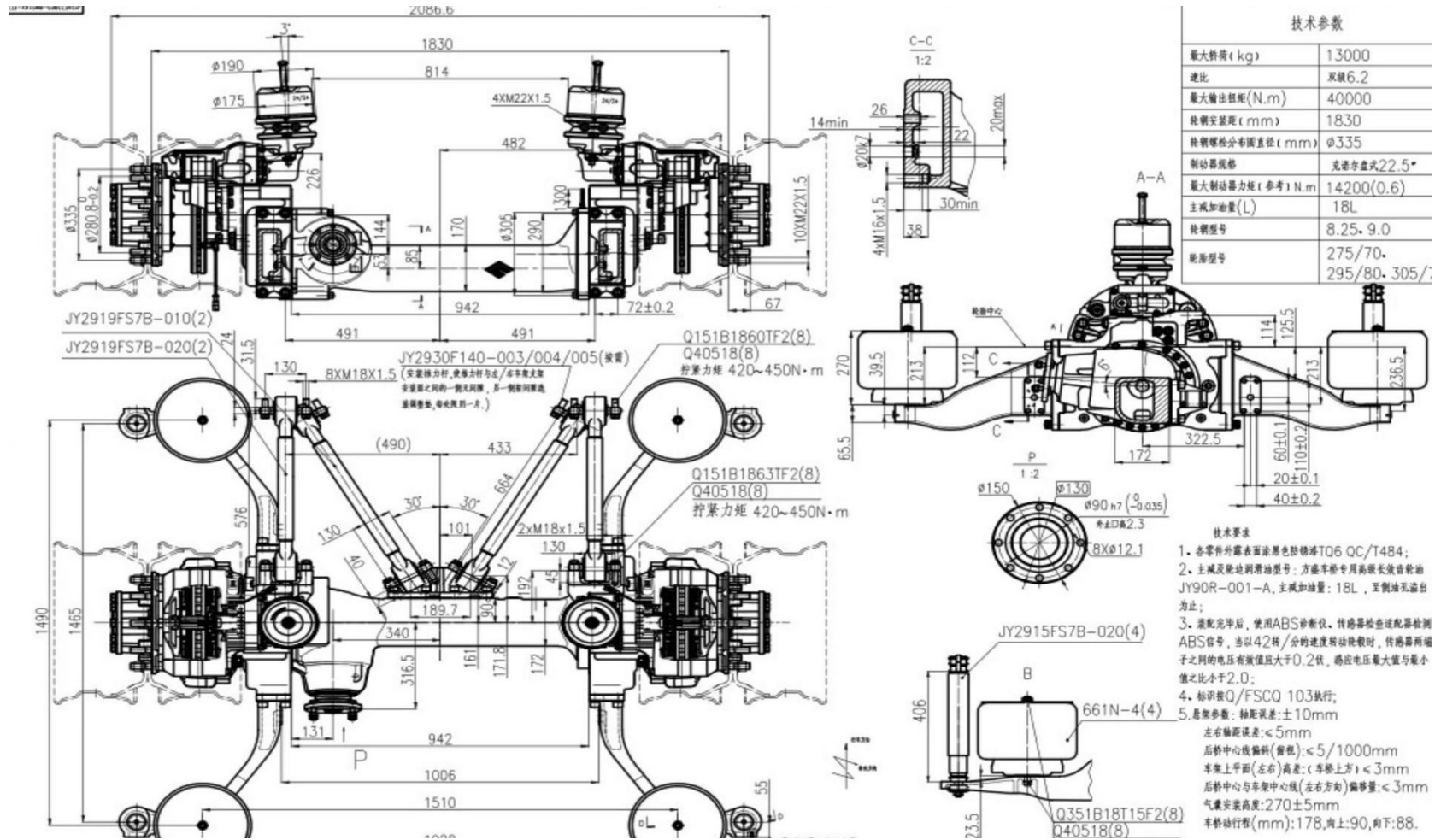


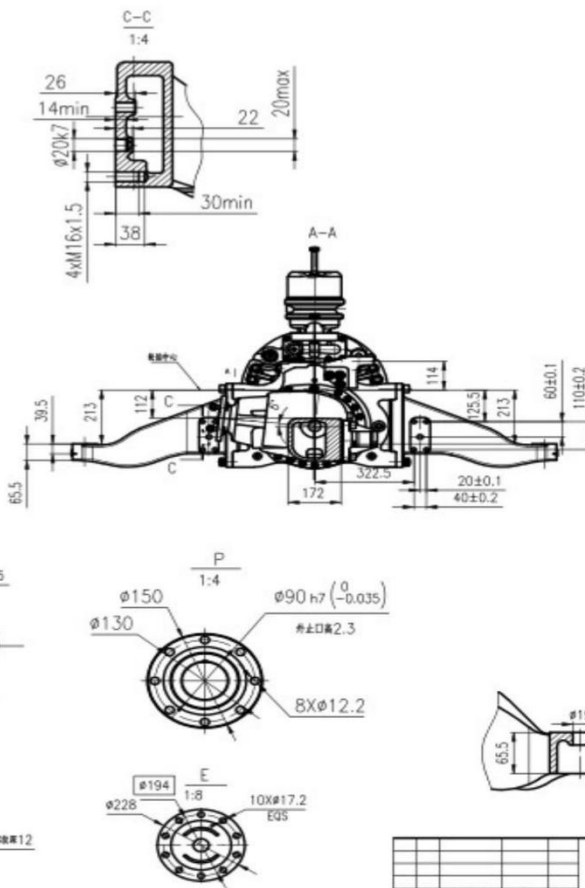
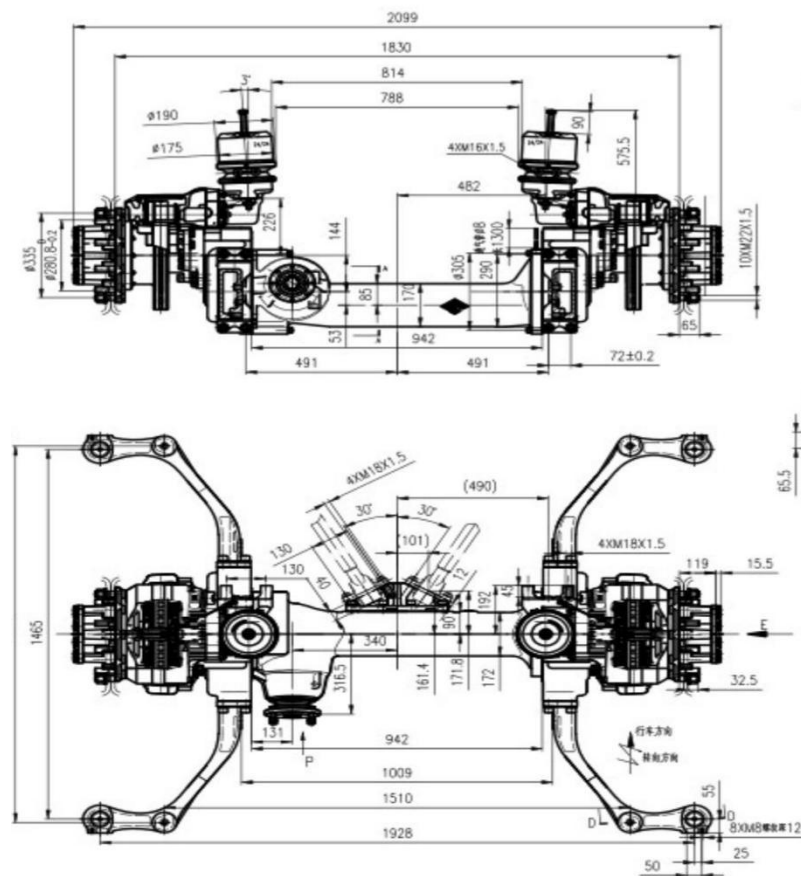
Reference Layout of 6 speed auto gear box

Disposición de referencia de caja de cambios automática de 6 velocidades

Bridge with 4 air bag with side kneedling(install in front and rear axle)

Puente con 4 bolsas de aire con costura lateral (instalar en el eje delantero y real)

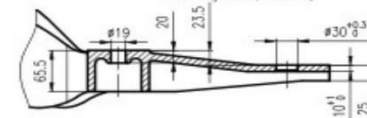




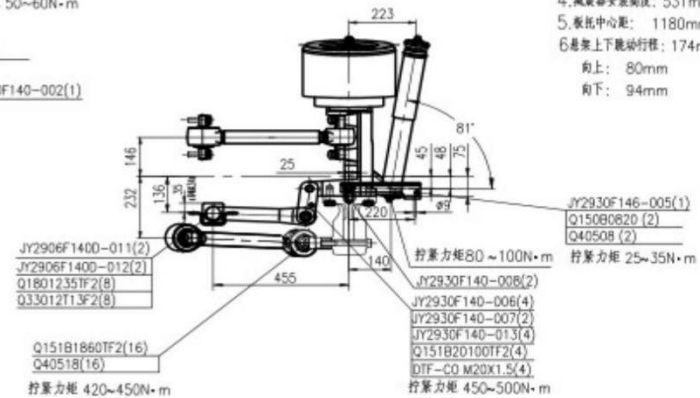
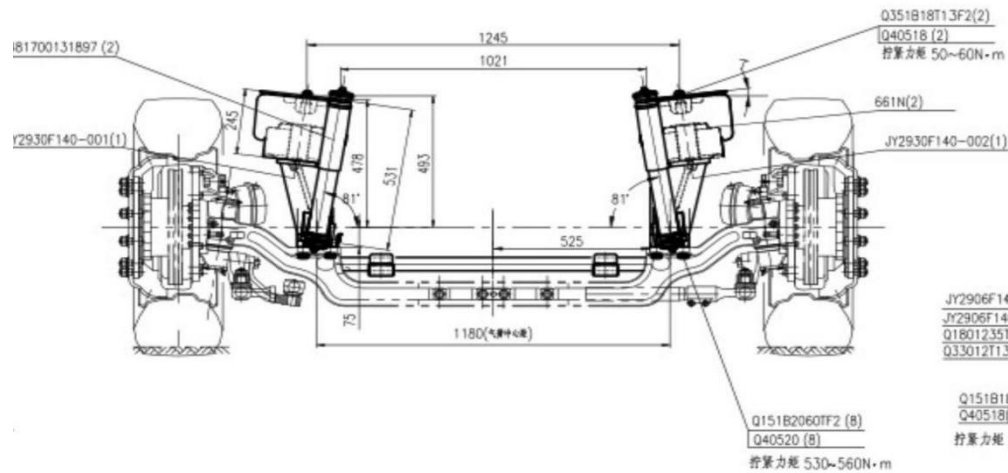
最大质量 (kg)	13000
速比	5.62
最大输出扭矩 (N.m)	40000
电机安装距 (mm)	1830
电机螺栓分布圆直径 (mm)	Φ335
转向器规格	光轴式 22.5"
最大制动力矩 (0.6Mpa) (N.m)	4200
土质加油量 (L)	20L
电机型号	8.25/22.5
轴端型号	275/70

技术要求

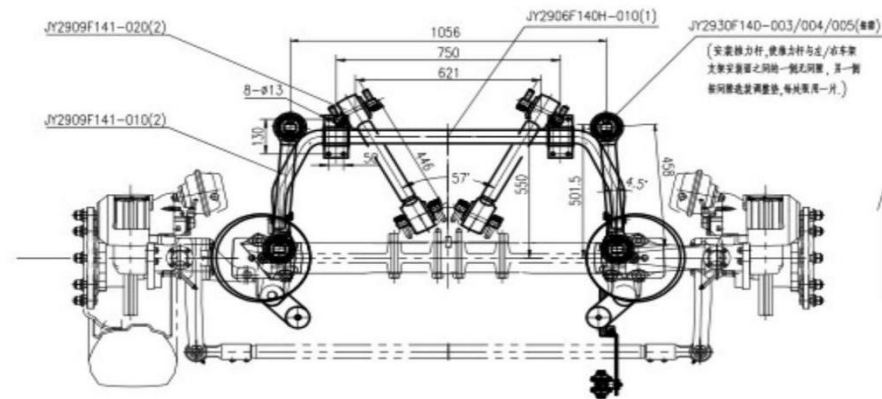
1. 本零件表面涂漆黑色防锈漆TQ6 QC/T484;
2. 桥壳加油量20L(由乙丙橡胶密封厂自加注"万福丰"牌专用防锈长效油",万福丰牌);
3. 装配完后,使用ABS传感器、传感器接线器检测ABS信号,当以42km/h的速度行驶检测时,传感器两端子之间的电压有效值应大于0.2V,感应电压最大值与最小值之比小于2.0;
3. 配SKF轴承增加润滑脂密封,润滑脂5kg/80万公厘;D-D
4. 标准件Q/FSCQ 103执行;



设计	审核	工艺	日期	低地板后桥 (i=6.20)	JY24G2F73BP-8WS2K-JZ
设计	审核	工艺	日期	设计	审核



1. 前桥额定载荷: 7500kg
 2. 气囊安装高度: 245mm
 3. 气囊中心距: 1245mm
 4. 减震器安装高度: 531mm
 5. 板托中心距: 1180mm
 6. 悬架上下跳动行程: 174mm
- 向上: 80mm
向下: 94mm



装配调整参数

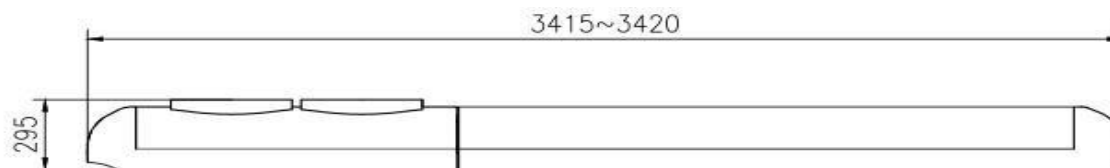
1. 轴距误差: ±10mm
2. 悬架相对车身中心线左右偏差: 5mm
3. 后轴中心线偏斜(俯视图): 5/1000mm
4. 车架上下面(左右)高度: (后桥上方) 5mm
5. 气囊安装高度: 245±5mm

技术要求

1. 按图将预装件与车架连接, 调整好位置后必须按图中所注拧紧力矩将紧固件拧紧。
2. 图中所注拧紧力矩一般为螺母端的拧紧力矩。若螺栓直接拧到螺孔内, 则按螺栓头部的拧紧力矩; 若螺栓为双头螺栓, 则按《规范》图例中的拧紧力矩。

H0.8k/20%

7.5吨前悬架总成				JY29F140B-00005		
图样编号	重量	数量	比例	图样编号	重量	数量
S			1:1			



Layout of Air condition 32000 Kal independent Air condition
· Disposición del aire acondicionado 32000 Kal Aire acondicionado independiente

Reference spray-painting design of SH6120HN
(Gray@180) (灰@180 度)(base on 2019 model)



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Reference spray-painting design of SH6120HN
(Gray@180) (灰@180度)(base on 2019 model)
Diseño de pintura en spray de referencia de SH6120HN



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