KEE HING CHEUNG KEE CO., LTD.
DLFTZ CHANG HING KEE
INT’L INDUSTRY & TRADE CO., LTD.

DUMP TRUCK
DongFeng EQ3208GHT Dump Truck

**VEHICLE SUMMARY**

DONGFENG EQ3208GHT dump truck refitted from EQ3208GJ5 chassis. The vehicle contour is artistic, the economy is practical, the ultra strong load bearing, is the large-scale industry and mining enterprise, the physical distribution company's ideal uses the vehicle.

<table>
<thead>
<tr>
<th>Model</th>
<th>EQ3208GHT dump truck</th>
<th>Chassis Model</th>
<th>EQ3208GJ5 second type</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weight parameter (kg)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load weight</td>
<td>30000</td>
<td>Outline dimensions (mm)</td>
<td>7760×2490×3165,3250,3330</td>
</tr>
<tr>
<td>Curb weight</td>
<td>10280,10430</td>
<td>Carriage dimensions (mm)</td>
<td>5200,5300×2300×1000,1200,1500</td>
</tr>
<tr>
<td>MAX overall weight</td>
<td>40430</td>
<td>Wheelbase (mm)</td>
<td>3500+1300,3600+1300</td>
</tr>
<tr>
<td><strong>Engine</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td>EQB210-20</td>
<td>type</td>
<td>Water cooler in-line six cylinder supercharge inter cooler diesel engine</td>
</tr>
<tr>
<td>Power/Displacement</td>
<td>155/5880</td>
<td>Product factory</td>
<td>DONGFENG Cummins engine limited company</td>
</tr>
<tr>
<td><strong>Performance parameter</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max speed (km/h)</td>
<td>80</td>
<td>Track span (mm)</td>
<td>Front axle 1940</td>
</tr>
<tr>
<td>Max creeping slope capacity (%)</td>
<td>39</td>
<td>Rear axle 1860</td>
<td></td>
</tr>
<tr>
<td>Oil consumption/100 K(L)</td>
<td>32.5</td>
<td>Reaching out of vehicle (mm)</td>
<td>Front overhang 1245</td>
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<tr>
<td>Slope stop for empty vehicle (%)</td>
<td>30</td>
<td>Rear overhang 1715,1615</td>
<td></td>
</tr>
<tr>
<td>Min circle turning Diameter(m)</td>
<td>17.6</td>
<td>Driving angle (°)</td>
<td>Approach angle 32</td>
</tr>
<tr>
<td>Smallest ground</td>
<td>250</td>
<td>Departure</td>
<td>36</td>
</tr>
<tr>
<td>Gearbox description</td>
<td>Brakesystem explanation</td>
<td>Steering explanation</td>
<td>Frame explanation</td>
</tr>
<tr>
<td>---------------------</td>
<td>-------------------------</td>
<td>----------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Machine type manual shanxi eight-speed transmission (8JS118TC)</td>
<td>spring-brake</td>
<td>Power steering</td>
<td>Ram rivet joint structure transversal surface double Longitudinal beam 300×90×（8+6）mm</td>
</tr>
<tr>
<td>Front axle description</td>
<td>Rear axle description</td>
<td>Frame explanation</td>
<td>tandem middle and rear axles, 10T</td>
</tr>
<tr>
<td>Hold fist type, 6.5T</td>
<td>Single dry type diaphragm type clutch, dia φ430mm</td>
<td>Ram rivet joint structure transversal surface double Longitudinal beam 300×90×（8+6）mm</td>
<td></td>
</tr>
<tr>
<td>Clutch description</td>
<td>Tire</td>
<td>10.00-20, 10.00R20</td>
<td></td>
</tr>
<tr>
<td>Cab</td>
<td>The flat head pure metal enclosed type, the twisted bar type turn over organization, three seat take sleeper the driver seat could adjustable.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Special Function</td>
<td>Our company produces the dump truck, adopts optimized design the lifting hydraulic system and the lifting organization, the lifting steady powerful. The high grade technical penetration type 2×10Tstrengthens, the rear axle of the vehicle, the technological advance, the mature rear axle of vehicle single stage decelerates, the transmission efficiency is high, economical province oil; The advanced feeling carries the valve, may guarantee the automobile in each kind of load, each kind of retarded velocity situation lower clamp stability and the security. The multi-vehicle bridge choice provides many kinds of lifting organization, can satisfy the engineering construction and the short haul multiplex need.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Main technical performance parameter:

<table>
<thead>
<tr>
<th>VEHICLE SUMMARY</th>
<th>EQ3033GAC dump truck refitted from EQ3033GJAC chassis. The vehicle contour is artistic, the economy is practical, the ultra strong load bearing, is the large-scale industry and mining enterprise, the physical distribution company's ideal uses the vehicle.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>EQ3033GAC dump truck</td>
</tr>
<tr>
<td><strong>Weight parameter (kg)</strong></td>
<td>Load weight 5000</td>
</tr>
<tr>
<td></td>
<td>Curb weight 2136</td>
</tr>
<tr>
<td></td>
<td>MAX overall weight 3311</td>
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<tr>
<td><strong>Engine</strong></td>
<td>Model 4100QBZL</td>
</tr>
<tr>
<td></td>
<td>Power/Displacement 70/3298</td>
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<tr>
<td><strong>Performance parameter</strong></td>
<td>Max speed (km/h) 72</td>
</tr>
<tr>
<td></td>
<td>The number of leaf of spring 12/12+9,8/9+6</td>
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<tr>
<td></td>
<td>Cab Forward control cab and single</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>type</td>
</tr>
<tr>
<td>--------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Allows people in the cab</td>
<td>3</td>
</tr>
<tr>
<td>The number of tire</td>
<td>4</td>
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<tr>
<td>Tire specification</td>
<td>7.50-16</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Special Function**

Our company produces the dump truck, uses the optimized design the lifting hydraulic system and the lifting organization, the lifting steady powerful. The high grade technical penetration type strengthens, the rear axle of the vehicle, the technological advance, the mature rear axle of vehicle single stage decelerates, the transmission efficiency is high, economical province oil; The advanced feeling carries the valve, may guarantee the automobile in each kind of load, each kind of retarded velocity situation lower clamp stability and the security. The multi-vehicle bridge choice provides many kinds of lifting organization, can satisfy the engineering construction and the short haul multiplex need.
DONGFENG EQ3318V Dump Truck
Our company produces the dump truck, uses the optimized design the lifting hydraulic system and the lifting organization, the lifting steady powerful. The high grade technical penetration type 2×10T strengthens, the rear axle of the vehicle, the technological advance, the mature rear axle of vehicle single stage decelerates, the transmission efficiency is high, economical province oil; The advanced feeling carries the valve, may guarantee the automobile in each kind of load, each kind of retarded velocity situation lower clamp stability and the security. The multi-vehicle bridge choice provides many kinds of lifting organization, can satisfy the engineering construction and the short haul multiplex need.
Cummins C320 20 Engine

Air Filter

9 kind of speed Gear-Box

Cummins Engine Character

![Cummins Engine Character Diagram]
**Main Technology Parameter**

<table>
<thead>
<tr>
<th>VEHICLE SUMMARY</th>
<th>DONGFENG EQ3318V dump truck refitted from DONGFENG EQ3318VJ chassis. The vehicle contour is artistic, the economy is practical, the ultra strong load bearing, is the large-scale industry and mining enterprise, the physical distribution company's ideal uses the vehicle.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>EQ3318V dump truck</td>
</tr>
<tr>
<td><strong>Chassis Model</strong></td>
<td>EQ3318VJ</td>
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<tr>
<td><strong>Weight parameter (kg)</strong></td>
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<tr>
<td>Load weight</td>
<td>60000</td>
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<tr>
<td>Curb weight</td>
<td>14815,14950</td>
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<tr>
<td>MAX overall weight</td>
<td>74815,74950</td>
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<tr>
<td><strong>Engine</strong></td>
<td>Model C300 20</td>
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<tr>
<td><strong>Power/Displacement</strong></td>
<td>221/8300</td>
</tr>
<tr>
<td><strong>Product factory</strong></td>
<td>DONGFENG CUMMINS ENGINE CO., LTD.</td>
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<tr>
<td><strong>Performance parameter</strong></td>
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<tr>
<td>Max speed (km/h)</td>
<td>78</td>
</tr>
<tr>
<td>Max creeping slope capacity (%)</td>
<td>30</td>
</tr>
<tr>
<td>Oil consumption/100K(L)</td>
<td>38.5</td>
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<tr>
<td>Slope stop for empty vehicle (%)</td>
<td>30</td>
</tr>
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<td>Min circle turning Diameter(m)</td>
<td>23.8</td>
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<tr>
<td>Smallest ground clearance (mm)</td>
<td>240</td>
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<tr>
<td><strong>Transmission description</strong></td>
<td>Shan xi wheel factory nine-speed transmissions</td>
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<tr>
<td><strong>Steering explanation</strong></td>
<td>Power steering</td>
</tr>
<tr>
<td><strong>Brake system explanation</strong></td>
<td>spring-brake</td>
</tr>
<tr>
<td><strong>Clutch description</strong></td>
<td>diaphragm type clutch. diaφ430MM.</td>
</tr>
<tr>
<td><strong>Front axle description</strong></td>
<td>5T double front axle</td>
</tr>
<tr>
<td><strong>Air conditional</strong></td>
<td>Available to install paien conditional</td>
</tr>
<tr>
<td><strong>Rear axle description</strong></td>
<td>Ram rivet joint appearance of axle , tandem middle and rear axles 10T×2</td>
</tr>
<tr>
<td><strong>Max of frame transversal</strong></td>
<td>300×90×(8+6) mm</td>
</tr>
<tr>
<td><strong>Frame explanation</strong></td>
<td>Ram rivet joint structure. Ram rivet joint structure vehicle frame width is 861MM. transversal surface double Longitudinal beam</td>
</tr>
<tr>
<td><strong>Cab</strong></td>
<td>The flat head pure metal enclosed type, the twisted bar type turn over organization, three seat has sleeper</td>
</tr>
</tbody>
</table>
QT Dump Truck

F-type dump truck is designed and produced early in our company. And through more than 10 years’ market testing, now it has been a famous brand product with the most variety, most series, best quality, most reliable function; one-up technology in the whole domestic market.

Base
We have a very strong cooperation with FAW, DongFeng, CNHTC, BeiQi Foton, Shanqi, ChuanQi, North-Benz, Anhui Yalin, HangZhou DongFeng Nissan Diesel, Nanjin YueJin, JiangHua, etc. On the base of our many variety of truck type and our base including almost all manufacturer’s different products. Moreover much time we were assigned to make trucks for mainframe manufacture. We have been internationalized with very good reputation.

Three Dimensional Designs
Three Dimensional Design software’s application makes design more convenient and quality more stable. And it is just because Three Dimensional Design soft’s application that makes new exchanged products at quicker speed than before. We can prefigure market’s requirement in advance.

Essential model
Total fraction can be divided into two types: one with cushion block, the other without cushion block. Cushion can relieve clashing to truck sub-frame from full-load carriage. After eliminated cushion block, truck barycenter can be lowered and truck can be more stable. Through adding inside connecting, we reassure this truck’s using intensity.

According to customer’s requirements, considering over maneuverability, we serve you most reasonable
Connection of main-frame and sub-frame
We adopted three ways in connecting main frame with sub frame. One is U-type bolt connecting, the other is dragging seat connecting, another is connecting plate weldment. Three types mixed in using make assure connection reliability.
Using original base’s shield and connecting by bolt with grade 10.9, we improve integrity of upper loading and base, adding safe poise except for left and right limit.

Carriage
On base of essential type, we can design different carriage type fit for customer’s requirement. We also can applicate our carriage design to add side-door’s quantity with good sealing and agility in opening and closing. Carriage body's different place has essentially normalized in design, structure is very compact, and body is beautiful, endurable, with bigger payload. The designing length is between 4.6 and 6 meter.

Backboard structure
Backboard have different type, as like normal type, reinforce type, door-in-door type etc. And we also fit different gernel means (reinforce type, live type) according to different mining condition.

Sub-frame
Sub-frame adopted Q345 board after rolling and pressing, reduced distortion. And moreover inside enseal board were reinforce to improve intensity. Back return beam can be divided into two different kinds.

Hydraulic System
Hydraulic system is the key part for complete dump truck, adopted reinforced lifting structure. Structure character is its lifting cylinder and dragging pole’s two sides separately connected lifting arm and carriage body,
and lifting arm’s other side connected sub frame, and so way formed connecting structure by four poles. Though lifting cylinder’s flexing carriage can be lifted and fell. This structure’s sub frame transferred a little sub bending moment loaded into carriage floor in lifting. This is easier to add intensity of supporting seat part. Through CAD design, it has advantage: pole load reasonable, structure efficiency high, structure simple, lifting stability good, lifting power big.

Adopted internationally advanced closed loop hydraulic system closed loop oil tank technology, and on original hydraulic system added little oil tank to prevent gear pump from destroying oil seal and burning out so that improving hydraulic system reliability.

**Operation Mode**

Operating mode have mechanical mode, electromotive mode, pneumatic mode three controlling mode. Most adopted internationally advanced pneumatic mode. Pilot valve set in cab is tried to do best in both setting location and customers’ requirement so that make customer more convenient in operating.

**Pump and valve integrated structure**

Oil pump is from domestic famous plants, adopted special high-pressure gear oil pump matched with system. Lifting valve and oil pump connected into integration of pump and valve so that reducing pipeline connecting of two parts and making oil route more smooth. Normally we adopted oil pump propeller shaft transferred motive force of power take off to oil pump. It can fall slowly in lifting to keep better stability.

**Pipe Setting**

Except for practice advanced concept, we also consider over pipe setting. And through many years experience accumulation. We have set our pipe setting standard and special setting to special truck so that make as sure hydraulic pressure pipeline reasonable. We used rubber preventing cover, ribble pipe and pvc compound sealing strip in some place that conflict between pipe and base exists so that make assure pipeline’s applicability and total most reasonable collocating of upper loading and base.

**Shield device and sign**

Reinforced shield’s intensity and assimilability. With obvious warning sign. Added specification sign in cab introducing truck’s using means and operation in details in order that customer master operating technique and also prevent losses from wrong operation.
Chassis: ZZ3251M3242/M(ZhongQi)
Engine: 290hp
Transmission: F9
Steering: JL80
Cab: Four point floating spring suspension with shock absorbers, new type seat, Euro new type heating & ventilating system, air conditioner, no bunk
Front axle: JW07 Rear axle: HC16 Tandem axle, hub-reduction with differential locks between wheels and axles.
Tyre: 12.00-20, common tyre
Carriage size (mm): 5400×2300×1500
Steel Thickness of Carriage (mm): Floor 8, Side4
Hydraulic Lift Carriage: F model (ventral lift)
Loading capacity (t): 20-30
KHCK3166M3816/L DUMPER 4×2

Engine
Make and model………………………..STEYR, WD615.61A, EURO I
Type………………………………..Diesel 4-stroke direct injection engine, 6-cylinder in-line with water cooling, turbo-charging & Intercooling
Max. power………………………………263HP@2200rpm
Bore……………………………………126mm
Stroke…………………………………30mm
Displacement………………………….9.726liters
Mean piston speed……………………11.27m/s
Compression ratio…………………….16:1
Specific fuel consumption……………….215g/kwh
Engine oil filling quantity………………..19liters
Coolant system filling quantity…………….40liters
Thermostat with 71℃ opening begin rigid fan

Clutch
Model………………………………..GF-420
Type………………………………..Single-plate dry clutch, mechanically operating with air assisted
Plate diameter………………………Dia.420mm

Gearbox
Model………………………………..FULLER RT11509C
No. of speeds………………………….9 forward, 1 reverse
Forward ratio………………………….12.42; 8.29; 6.08; 4.53; 3.36; 2.47; 1.81; 1.35; 1.00
Reverse ratio…………………………..12.99

Front axle
Type………………………………..Rigid stub axle with double T-cross members
Max. load……………………………..6500kg

Rear axle
Type………………………………..Pressed axle housing, single reduction with planetary wheel reductor and with different lock
Ratio…………………………………..5.73
Max.load……………………………..13000Kg

Frame
Type………………………………..parallel ladder with U-profiles and riveted cross members

Fuel tank capacity……………………….200/380 liters

Wheels and tires
Rim…………………………………….8.5-20
Tire……………………………………12.00-20
No. of tires……………………………..6
Spare wheel carrier………………………..with one spare wheel

Service brake………………………..Dual circuit pneumatic brake
Parking brake.........................Spring energy, compressed air operating on rear wheels
Auxiliary brake..........................Engine exhaust brake

Cabin
All steel forward control, 70° hydraulically tiltable to the front, 3-arm windscreen wiper system with 3 speeds, laminate windscreen, with casted-in radio aerial, hydraulically damped adjustable driver’s seat & rigid adjustable co-driver’s seat; heating & ventilation system, adjustable roof flap, with stereo radio/cassette recorder.
Optional equipment..................safety belt, air conditioner

Electric equipment
Operating voltage.......................24V, negative grounded
Starter...........................................24V, 5.4KW
Alternator.................................28V, 758W
Battery voltage/capacitance..............2×12V/135Ah
Cigar-lighter, horn, headlamp, fog light, reverse light
Optional.............................1540W alternator

Instrument panel
Active check control with indicators, with this instrument the daily manual checks on the vehicle and combined indicators of compressed air pressure, coolant temperature, engine oil pressure and battery charging

Front wheel alignment
Camber........................................1°
Caster...........................................3°
King pin inclination......................1°
Toe-in(measured at the wheel diameter Dia.648mm with cross-ply type)...3-4.5mm

Overall dimension (length × width× height)........7000×2498×3000mm
Wheelbase........................................3800mm
Track
Front........................................1939mm
Rear.........................................1800mm
Approach angle..............................20°
Departure angle.............................28°
Overhang......................................1560mm
Rear overhang..............................1680mm

Performance
Driving type..............................4×2
Maximum Driving speed................75km/h
Maximum gradeability...............47%
Turning circle diameter..............15.4m
Fuel consumption.......................26L/100km

Mass parameter
Kerb mass....................................7950kg
Payload.......................................7920kg
Total mass....................................16000kg

Body options
Body dimension (length × width × height).......4190×2300×860mm

Tipping gear
Make.................................STC CNHTC
Type........................................Underbody
### Engine
- **Make and model**: STEYR, WD615.87
- **Type**: Diesel 4-stroke direct injection engine, 6-cylinder in-line with water cooling, turbo-charging & Intercooling
- **Displacement**: 9.726 liters
- **Max. power**: 290HP@2300rpm (213KW@2200rpm)
- **Max. torque**: 1070NM@1300-1600rpm
- **Min. fuel consumption**: 198g/Kwh

### Clutch
- **Model**: GF-Dia.420
- **Type**: Single-plate dry clutch, mechanically operating with air assisted
- **Plate diameter**: Dia.420mm

### Gearbox
- **Model**: FULLER RT11509C
- **No. of speeds**: 9 forward, 1 reverse
- **Forward ratio**: 12.42; 8.29; 6.08; 4.53; 3.36; 2.47; 1.81; 1.35; 1.00
- **Reverse ratio**: 12.99

### Front axle
- **Type**: Elliot axle
- **Max. load**: 6500kg

### Tandem axle
- **Type**: Pressed axle housing, single reduction with planetary wheel speed reducer
- **Ratio**: 5.73
- **Max. load**: 2×13000Kg

### Frame
- **Type**: Parallel ladder with U-profiles and riveted cross members

### Steering
- **Model**: ZF8098
- **Ratio**: 20.2
- **Pump max. pressure**: 13000Kpa
- **Fuel tank capacity**: 200/380 liters

### Wheels and tires
- **Rim**: 8.5-20
- **Tire**: 12.00-20 18PR
- **Working pressure**: 833±20Kpa