

# ZL30G

## WHEEL LOADER



|                   |        |
|-------------------|--------|
| Rated Capacity    | 1.7CBM |
| Rated load        | 3000kg |
| Dumping Clearance | 2800mm |

<http://www.wme.cn/WheelLoader>



**ENGINE**

|                     |  |         |
|---------------------|--|---------|
| Model               | 1006-6T                                | YC6108G |
| Type                | 4-stroke,direct-injection,water cooled |         |
| Rated power         | 92kw                                   |         |
| Rated speed         | 2300r/min                              |         |
| Max.torque          | 460N.m/1400~1600r/min                  |         |
| Number of cylinders | 6                                      |         |
| Bore X stroke       | 100mm X 127mm                          |         |
| Displacement        | 5.99L                                  |         |
| Compression ratio   | 16:1                                   |         |
| Batteries           | 2 X 12V                                |         |

**TRANSMISSION**

|                           |  |     |         |
|---------------------------|--|-----|---------|
| Type                      | Parallel power-shift<br>( fixed shaft type ) |     |         |
| Travelling speed ( km/h ) | Forward                                      | 1st | 0 ~ 7.8 |
|                           |  | 2nd | 0 ~ 13  |
|                           |  | 3rd | 0 ~ 25  |
|                           |  | 4th | 0 ~ 35  |
|                           | Reverse                                      | 1st | 0 ~ 9.5 |
|                           |  | 2nd | 0 ~ 28  |

**AXLE**

|                              |                                    |
|------------------------------|------------------------------------|
| Model                        | Xuzhou Meritor<br>PRC111D006 axle  |
| Driving system               | Four-wheel driving system          |
| Carrier assembly             | Spiral bevel gear single reduction |
| Reduction ratio              | 5.286                              |
| Wheel end reduction assembly | Single planetary reduction         |
| Reduction ratio              | 3.882                              |

**SERVICE REFILL CAPACITIES**

| Name               | Unit | Liters |
|--------------------|------|--------|
| Fuel               |      | 145    |
| Engine lubrication |      | 20     |
| Transmission       |      | 32     |
| Hydraulic tank     |      | 160    |
| Axle               |      | 25     |

**STEERING SYSTEM**

|                           |  |
|---------------------------|--|
| Type                      | Articulated frame<br>Full hydraulic power steering |
| System steering pressure  | 12.5Mpa  |
| Seering pump mode         | CB550  |
| Seering pump displacement | 50ml/r   |

**Cylinder**

|               |               |
|---------------|---------------|
| Type          | Double acting |
| Bore X stroke | ∅80mm X 294mm |

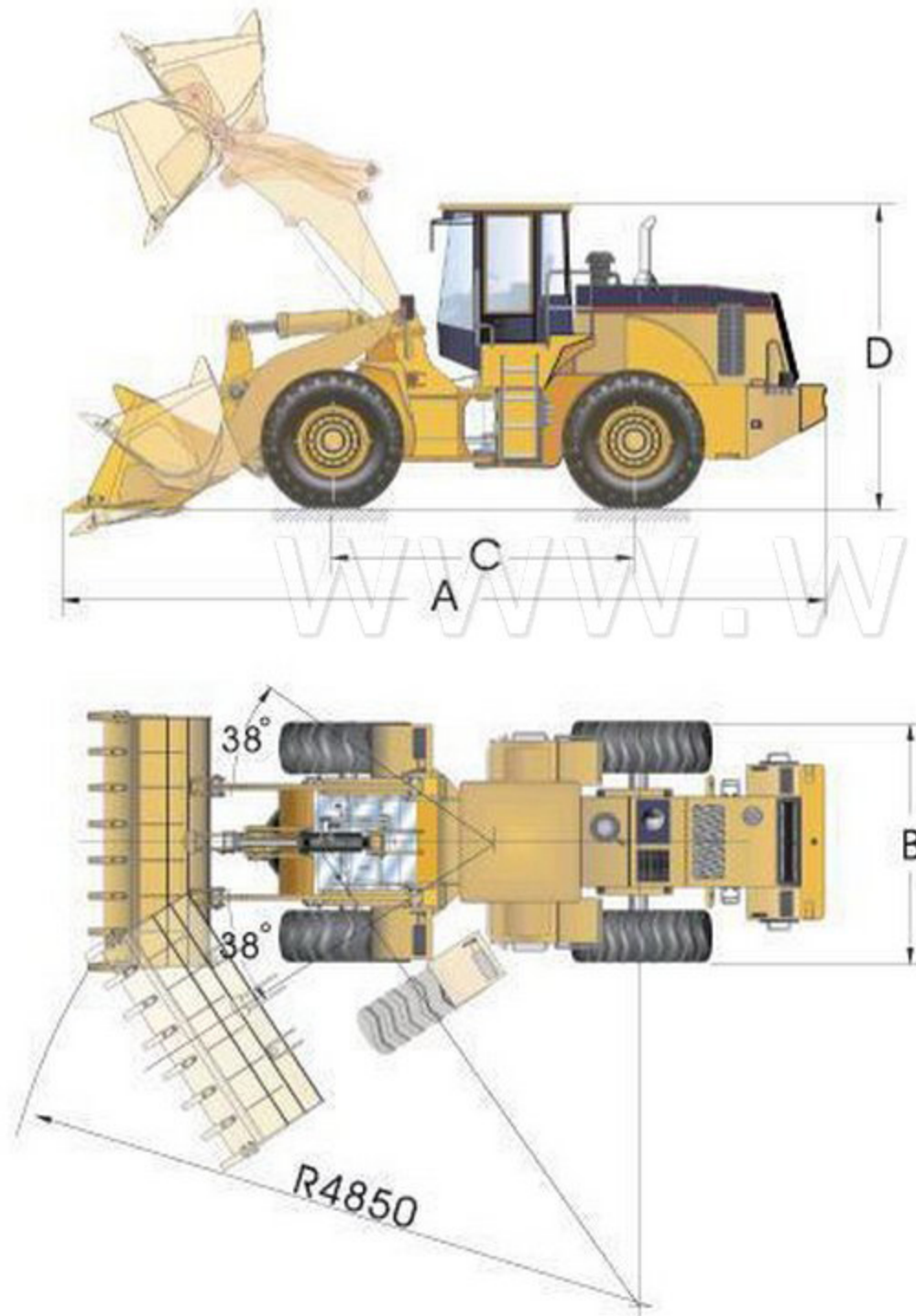
**BRAKES**

|               |  |
|---------------|--|
| Service brake | Air-assisted hydraulic-disc brake on 4-wheel     |
| Parking brake | Air-chamber operating inner-expanding shoe brake |

## WORKING HYDRAULIC SYSTEM

|                         |                |
|-------------------------|----------------|
| System working pressure | 16 Mpa         |
| Pump model              | CBG2100        |
| Pump displacement       | 100ml / r      |
| Cylinder                |                |
| Lift, bore X stroke     | ∅110mm X 780mm |
| Tilt, bore X stroke     | ∅160mm X 510mm |
| Cycle time              |                |
| Raise time              | ≤ 6s           |
| Total cycle time        | ≤ 10s          |

## DIMENSIONS



|           | A      | B      | C      | D      |
|-----------|--------|--------|--------|--------|
| ZL30G(CE) | 6870mm | 2460mm | 2700mm | 3263mm |

| Main Specifications |                      |
|---------------------|----------------------|
| ZL30G               |                      |
| Rated Capacity      | 1.7CBM               |
| Rated load          | 3000kg               |
| Dumping Clearance   | 2800mm               |
| Dumping reach       | 1050mm               |
| Max. breakout force | 110kN                |
| Articulation angle  | 38°                  |
| Min. turn radius    | 4850mm               |
| Climb ability       | 28°                  |
| Wheel base          | 2700mm               |
| Tread               | 1850mm               |
| L×W×H               | 6870mm×2460mm×3263mm |



# ZL30G

## WHEEL LOADER



### ENGINE

- ◆ YC6108G Engine
- ◆ PERKINS (China) 1006-6T Engine
- ◆ In-line, vertical, water-cooled, direct-injection, turbo-charged.(1006-6T)
- ◆ Four-stroke-cycle design for long, effective power strokes, and more efficient fuel combustion.
- ◆ High-torque engine produces excellent carrying ability , Operating efficiency is heightened by adding pushing power.
- ◆ 1006-6T is one of the most fuel efficient engines in its class.
- ◆ Lower exhaust displacement, electric starting, electric stopping, excellent performance and reliability.





### TRANSMISSION

- ◆ 4-forward/2-reverse speed, straight gear constant mesh.
- ◆ Multi-gear power shift transmission, it is parallel shaft (fixed shaft type) transfer structure.
- ◆ Three-element torque converter with high torque ratio properly is matchable with engine and transmission, excellent working ability.



### ALL AROUND VISIBILITY

- ◆ A wide, tinted front window allows excellent vision to improve productivity.
- ◆ Rear view mirrors enhance rear and side vision.
- ◆ Windshield with wipers on front windows allows clearer vision for the operator.



### AXLE

- ◆ MERITOR Axle
- ◆ Four driving wheels, Front axle fixed rigidly, rear axle adopting oscillation structure.
- ◆ Carrier assembly adopts spiral bevel gear with single reduction, low noise.
- ◆ Wheel end reduction assembly is single planetary.
- ◆ Axle shaft adopts fully floating construction.



### CAB

- ◆ Novel, unique and spacious cab.
- ◆ Integrated cab with step-up excellent seal holds advanced sound insulation.
- ◆ Integrated double-direction shock deduction fix type.
- ◆ Heating and cooling air-conditioner.
- ◆ Tinted safety glass, safety front windshield.
- ◆ The protection device FOPS and ROPS are put inside the driver's cab frame structure.

### SMOOTH CONTROL

- ◆ Pilot hydraulic controls for low effort, quiet operation.
- ◆ (Vinyl or leather) wrist rest allows the pilot lever to be operated comfortably.
- ◆ Full hydraulic steering, flexible operation.
- ◆ Flexible operation contributes to a step-up in productivity and reduction of operator's fatigue.
- ◆ The dual direction adjustable seat offers more comfort.



## EXCELLENT STRUCTURE CONVENIENT FOR MAINTENANCE

### Engine hood

- ◆ The unitary-folding hood convenient for engine maintenance to be repaired is controlled by the cylinder.
- ◆ When the hood is opened, engine system is fully exposed.
- ◆ The hood with fluent shape is made of compound material.

### Side door

- ◆ Hood side door with the lock is made of none-metal material. Daily maintenance such as refilling oil and fuel is convenient.
- ◆ Opened side door keep away from wheel contaminants by the avoiding-device.

In a few words, that make the daily maintenance easy. New oil and grease can be refilled conveniently. Filter and electric system can be removed and replaced easily. The side door is opened easily for engine oil level to be checked and replacing elements.



## FRAME & WORKING DEVICE

- ◆ Quick coupler will be an optional attachment for the loader.
- ◆ Optimized design working device is productive with the features of automatic leveling in high position and siding block.
- ◆ The structure is progressed by limited element analysis. Each part is distributed evenly with the stress and holds a better life.
- ◆ Each articulated point is equipped with sealed dust proof.
- ◆ Center-point frame articulation. There is no recycling power waste and little tyre wear.