

## Wheel Loader

**Model: CDM853**

The rated payload of CDM853 wheel loader is 5 tons, and the rated bucket capacity is 3.0m<sup>3</sup>. It is a big size wheel loader. It is of short wheelbase for better maneuverability, and is suitable for mine, water conservancy work site, infrastructural construction project, cargo loading/unloading field, road construction site, etc. CDM853 wheel loader is a kind of engineering vehicle with a wide variety of applications such as earth moving, digging and towing, etc.

We manufacture 5 ton wheel loader.

**Features of CDM853 Wheel Loader:**

1. Weichai WD615 supercharged and inter-cooled engine provides strong power
2. Short wheel base chassis improves steering flexibility and operation efficiency
3. Air conditioning and heating system provide better operation environment
4. Spring suspended and well-sealed cabin have good sound insulation and wide visibility
5. Single tilt lever and Z-bar linkage for this wheel loader.
6. Heavy load driving system assures long-time work in intensive operating environment
7. Anti-abrasion integral cutting edge with teeth and adapters prolong the life of bucket.

**Specifications of CDM853 Wheel Loader:**

Bucket capacity(m <sup>3</sup> )	3.0
Rated payload(kg)	5000
Lifting time of arm(s)	≤6.0
Total hydraulic cycle time(s)	≤11.5
Transportation dimension	
Length×width×height(mm)	7530×3000×3330

Max. breakout force(KN)	≥155
Max. dumping height(mm)	3100
Dumping reach(mm)	1130
Max. turning angle(°)	±35
Operating weight (kg)	15850

#### Engine of CDM853 Wheel Loader

Model	WD615G.220
Type	Vertical, water-cooled, 4-stroke, direct injection
Rated power (Kw)/RPM(rpm)	162/2200
Max. torque(N.m)/RPM(rpm)	860/1400~1600
Nominal fuel consumption(g/kw·h)	215
Total displacement (L)	9.726
Fuel	light diesel oil

#### Torque converter and transmission system

##### Torque converter

Type	Single stage four-element (duo-turbine)
Torque conversion coefficient Ko	4.0
Cooling type	Oil cooled and pressurized circulation
Torque converter inlet pressure (Mpa)	0.3-0.45
Torque converter outlet pressure (Mpa)	0.1-0.2

##### Transmission of CDM853 Wheel Loader

Type	Planetary type with hydraulic shifting
Travel speed(km/h)	
Forward	0~11.5
Forward	0~36
Reverse	0~16

#### Axle & Tyre

##### Axle

Final drive type	Spiral bevel gear one stage reduction
Speed reduction ratio	5.2857:1
Wheel hub reduction	
Type	Spur gear planet drive
Speed reduction ratio	4.4:1
Tyre specifications	23.5-25-16PR

##### Brake system

Service brake type	Air boosted disc brakes on four wheels
Parking brake type	Flexible shaft controlled disc brake
Brake pressure(Mpa)	0.7~0.78

#### Implement hydraulic system

Displacement of Implement pump (ml/r)	100
System working pressure(Mpa)	16

**Steering system**

Type	Full hydraulic load steering system
Displacement of steering pump	80
System working pressure(Mpa)	16
Min. turning radius	
Outside of bucket(mm)	6650
Tire center(mm)	5624
Oil tank capacity	
Fuel tank capacity	270L
Hydraulic oil tank capacity	235L
A/C system	
Refrigerating capacity	4500W
Heating capacity	5800W

**Note:**The specification is subject to change for the modification without notice.