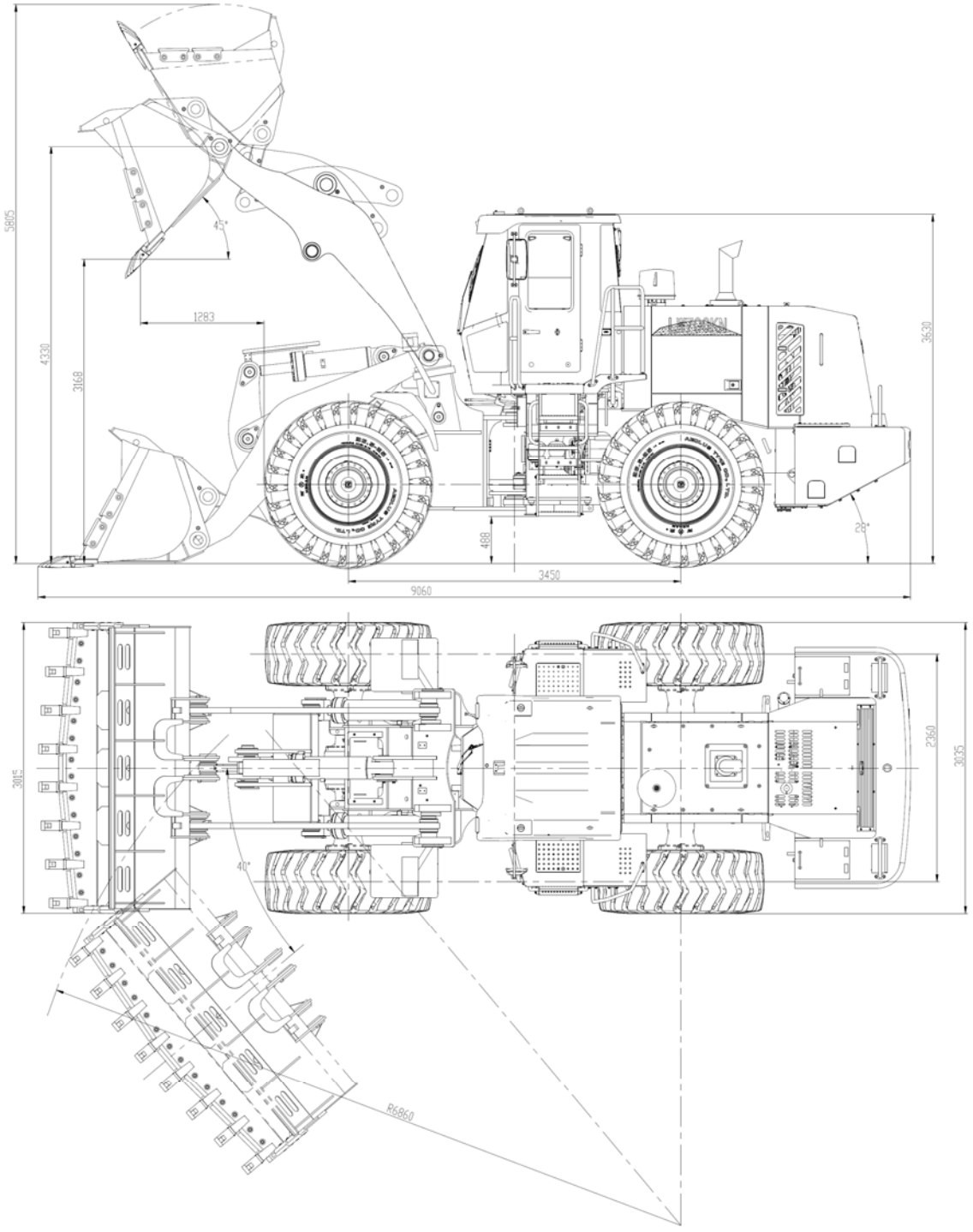
Technical Specifications

4.1 Overall Dimensions



Overall Figure of LW700KN Wheel Loader

4.2 Technical Specifications

4.2.1 Overall dimensions

Overall 1ength (bucket on the ground)	9060 mm
Overall width (Outside the tyres)	3035 mm
Bucket width	3015 mm
Overall height	3630 mm
Wheel base	3450 mm
Tread	2360 mm
Ground clearance	488mm

4.2.2 Specification

Rated capacity	7000 kg
Bucket volume	4.2m^3
Operating weight	23.55t
Traveling speeds km/h	
Forward Ⅰ/ reverse Ⅰ	7.0/7.0
Forward Ⅱ/ reverse Ⅱ	12.7/12.7
Forward Ⅲ/ reverse Ⅲ	27.0/27.0
Forward Ⅳ/ reverse Ⅳ	38.0/38.0
Max. tractive force	210 KN
Max. climbing gradient	28 º
Max. dumping angle	45 º
Max. dumping height	3168mm
Dumping reach	1283mm
Overturn angle of bucket	≥45°
Max excavating depth	60mm
Rising time of the boom	≤6.5s
Total cycling time	≤11 s
Min. Turning radius	5920 mm
Crossing radius	6860mm
Turning angle of the frames	40º
Oscillating angle of the rear axle	±12 º

4.2.3 Engine

Model	WD12G310E221
Type	4-stroke, water cooling, turbine charged .
Rated power	226kW
Rated speed	2100r/min
Max. torque	1350N • m/1300～1500r/min
Rated fuel Consumption rate	≤215 g/kw • h
Start type	Electrical start
Flameout type	Electrical flameout

4.2.4 Transmission system

(a) Torque converter

Model

Type	1 stage, 3-elements
Coefficient of torque converter	k=2.248
Cooling method	Oil cooled, pressure cycle
Diameter of cycle	370mm
Oil inlet pressure	0.85MPa
Oil outlet pressure	0. 5MPa
(b).Transmission	
Model	4WG-260
Gear number	Forward 4/ reverse 3
Transmission ratio	
Forward Ⅰ/ reverse Ⅰ	4.187/4.187
Forward Ⅱ/ reverse Ⅱ	2.207/2.207
Forward Ⅲ/ reverse Ⅲ	0.970/0.970
Forward Ⅳ/ reverse Ⅳ	0.625
(c).Front and rear axle	
Axle model	WA1240II（front axle）/WA2241(II)（rear axle）
Type of main decelerator	Planetary gear, one stage deceleration
Type of rim decelerator	One stage planet deceleration
Fixing method of front axle	Fixed with chassis
Fixing method of rear axle	Center swing
Tyre specification	26.5-25
Inflating pressure	Fore tyre: 0.4±0.01 MPa Rear tyre: 0.37±0.01MPa

4.2.6 Braking system

(1) Full hydraulic brake	
Foot brake	Full hydraulic wet brake
System pressure	7.22Mpa
Hand brake	Electrical control, hydraulic energy accumulator, disc type
(2) Air push oil brake system	
Foot brake	Air push oil disc brake on 4 wheels
System pressure	0.78～0.83MPa
Hand brake	Hose control, inner expanding shoe

4.2.7 Steering system

Type	Articulation flow amplified hydraulic steering
Steering unit model	BZZ3-125
Dual pump model	P7600-F80NO367 6/P124-G16DIG
Displacement of pump	80ml/r
System pressure	19.5±0.5MPa
Steering cylinder	ф100mm×467mm
Flow amplified valve	ZLF25A11
Steering limit valve	XF-B6
Maximum steering angle	40°

4.2.8 Hydraulic system of the working device

Working oil pump	P7600-F112/P124-G35DIG
Displacement of oil pump	112ml/r(+80ml/r)
System pressure	20±0.5MPa
Multi-way redirection valve	D32（20MPa)
Selection valve	SF8
Pilot valve	DXS-00
Boom cylinder	ϕ180×792
Tilt cylinder	ϕ200×593

Electrical system	
Voltage	DC 24 V
Battery	2 个
Voltage of bulb	24 V
Start of the diesel engine	24 V

Air-conditioner	
Heating	
Working medium	Cooling liquid of diesel engine
Quantity of heat	5800 Therm
Refrigeration	
Working medium	Refrigerating liquid (R134a)
Quantity of refrigerating	4600 Therm
Voltage	DC24V