



QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD

ELCY-1A 1.0cbm Diesel Scooptram LHD



I. Basic overview

- Adopting Cummins 4BTA3.9-C80 engine or China made YTO 4A3Z-22 engine power system, 60-66.6KW power, low emissions.reliable.
- The technology-leading slewing bearing structure design, hydraulic steering, rear axle swing compared to traditional form, lower failure rate, easy to maintain.
- Walking system uses the integrated torque converter transmission,the smaller at same time improves reliability.
- Operating system adopts pilot control, make work easier operation and higher efficiency.
- exhaust system uses a water filtration system, with a Canadian oxidation catalyst device greatly reducing the air pollution.
- Vehicle thick steel frame, steel reinforced vehicle, the bucket shovel blade made of high strength alloy steel, wear shear, V type structure, reducing the scooping resistance and longer life.
- Adopt smooth anti puncture narrow tire.Tire protection chains optional.
- The machine can make shoveling, loading, transportation and unloading in one job, have a smaller turning radius, compact structure, convenient operation, high efficiency operation for mining ore and Tunneling mucking, and site preparation work and construction of roads material transportation and other auxiliary operations.
- Optional:Wheel protection chains;Lengthen boom for high dump
Side dump bucket;Breaking hammer.

II. Specification

Model	ELCY-1A
Main specifications	
Bucket capacity (m ³)	1.0
Rated load (t)	2.0
Max.Lifting capacity(t)	4.6
Tipping Load(t)	5.04
Weight (t)	7.0
Lifting time of the arms (s)	≤3.3
The sum of three items(s)	≤8.5



QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD

Forward gear (km/h)	I 0-5.8 II 0-9.5
Reverse gear	I 0-5.8 II 0-9.5
Max. climbing gradient	20°
Min. ground clearance(mm)	210
Dimensions	
Overall dimension (mm)	5717*1300*2000
Wheel base (mm)	2242
Wheel tread(mm)	1070
Max. dumping height(mm)	1250/1700
Dumping reach (mm)	860
Min. turning radius(mm)outside	4390
Diesel engine	
Engine model	Cummins 4BTA3.9/YTO LR4A3Z-22
Engine type	In-line, water-cooling, 4-stroke, 4cylinder, direct-injection
Rated power(kw)	60/66
Rated speed (r/min)	2200
Maximum torque /speed(N.m/rpm)	370/1300
Total exhaust of cylinder(L)	3.9
Type of starting	Electric start
Transmission system	
Torque converter	
Type	Single stage, three elements
Gearbox	
Type	Fix counter-shaft, power-shift
Axle and tire	
Type of main reducer	Spiral bevel gear, single stage
Type of final reducer	Single stage planetary
Size of tire	9.75-18 & 10.00-20 for wet brake axle
Working device of hydraulic system	
Model of working pump	2063
Nominal displacement(ml/r)	63
Multi-way directional valve	
Rated flow(L/min)	20
Steering system	
Type	Load-sensing hydraulic steering
Displacement(ml/r)	250
Max input pressure(Mpa)	16
Brake system	
Type of traveling break	Air over hydraulic break
Type of parking break	Manual disc brake

III. Photo and Details



QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD





QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD

1.Slewing bearing structure design. Integrated torque converter transmission YJ280+ZL20



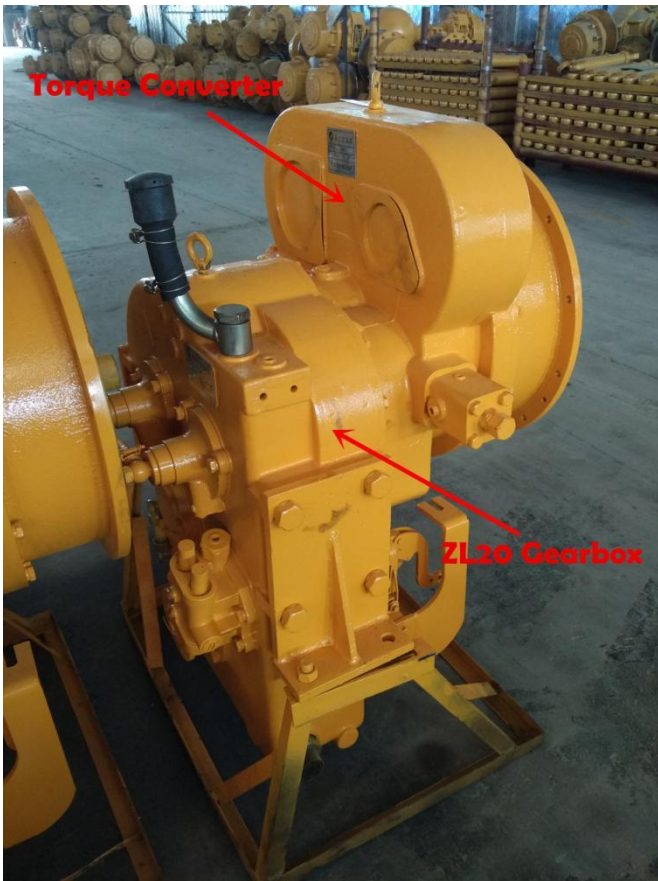
2.Operator cab :Steering wheel +hydraulic joystick control.



QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD



2.Integrated torque converter transmission






QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD

3.CUMMINS 4BTA3.9-C80 Engine



CUMMINS 4BTA3.9 engine

 5332663	Dongfeng Cummins Engine Co., Ltd. Xiangyang, Hubei, China	Displacement	3.9 L	Net Weight	355 kg	Idle Speed	900 r/min	Shop Order	S012081	Model	4BTA3.9-CPL
		Altitude Limit	2200 m	Approval No.	EXPORT	Engine Serial No.	78332880	Rated kW	60	at	2200
Warning: Injury may result and warranty is voided if fuel rate rpm or altitudes exceed published maximum values for this model and application.		Cert. Level		Power Range	37≤Pmax<75 kW	Fuel rate at rated HP	62	Licence No.	XK06-002-004	Executed Standard	Q/CCC 1
		Date of Mfg.	2016-08-30	Family							



QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD

4.Side dump bucket optional:



5.Quick coupler device:





QINGDAO EAGLELION ENGINEERING MACHINERY CO.,LTD

6. Breaking hammer optional



7. Tire chains

