

CY-10 Technical Specification

CY-10 is a compact and lightweight Load Haul Dump (LHD) for narrow vein mining, easy to operate and maintain, and it features an operator compartment that is located in the rear frame of the machine to ensure increased operator safety. The CY-10 is full of features to help mines maximize tonnes and minimize extraction costs. It has been engineered to optimize machine width, length and turning radius, enabling operation in narrower tunnels for less dilution and lower operational costs.

Main Features

<< Structure

- ♦The frames are articulated with 38°steering angle.
- ♦Ergonomics Canopy with side seat to provide broad operation vision.

<< Operation Comfort & Safty

- ♦4 wheels driving & braking.
- ♦Combination design of parking brake & working brake ensures good braking performance. Braking model is SAHR (spring applied, hydraulic release).
- ♦Axles are equipped differentials. The front is NO-SPIN while the rear is ANTI-SLIP.
- ♦Hydraulic Joystick control to reduce the labor intensity of the driver.

Frame

Rear & Front Frame

High strength welded steel structure with optimized material thicknesses

Tanks Bolted & Welded

Bucket: Type V shaped(reduce resistance), Bias 450(anti-wear) Material

Hydraulics

Hydraulically operated, center-point articulation, power steering with one double acting cylinder. Steering controlled by hydraulic joystick.

Gear type Steering and servo hydraulic pumps

The oil flow from steering hydraulic pump is directed to bucket hydraulics when steering is not used.which can enlarge the working pressure.

Joystick bucket and boom control(hydraulic), equipped with gear pump that delivers oil to the bucket hydraulic main valve.

Straight Boom system with one lift cylinder. Dump cylinder 1pc

Service brakes are spring applied, hydraulically released multidisc wet brakes on all wheels. Two independent circuits: one for the front and one for the rear axle. Service brakes also function as an emergency and parking brake.



CY-10 Quotation

Deutz engine, Danfoss main pump and Valve, Working pump Changjiang hydraulics, differential mechanism imported from America

1. Payment Terms: By TT. 30% deposit paid in advance, 70% balance paid before shipment
2. Delivery Time: within 20 days after receiving down payment
3. Guarantee Time: one year or 2000 working hours which comes first
4. Shipping : 1 unit one 20GP & 2 units one 40HQ container

Specification

Model		CY-10
Bucket size	cbm	0.75m3 m3 / 1 m3 / 1.2 m3 option (1.0 yd3 / 1.3 yd3 / 1.5yd3)
Payload	kg	2000
Overall Dimension	mm	5850x1250x1800 / 2000
1 m3 bucket width length	mm	1360x1393
1.2 m3 bucket width	mm	1400x1320
Min Ground Clearance	mm	200
Max Lift Height	mm	3250

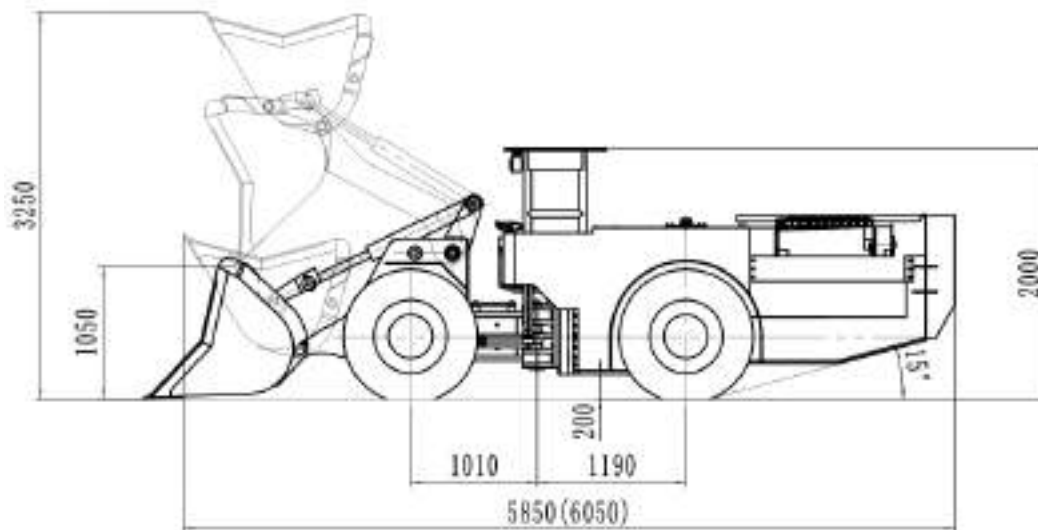


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Max Unloading Height	mm	1050
Turning radius	mm	2540 / 4260
ENGINE		
Engine model		DEUTZ made in Germany BF4L2011 / D914L04 / BF4L914 / F6L914
Type		Air-Cool & Turbocharge
Engine power	kw	47.5 / 58 / 66 / 83
Numbers of cylinders		4 In line / 6 in line
Displacement	L	3.11
Max Torque		230Nm/1600rpm
Emission standard		EURO II / Tier 2
Filter Brand		MANN(Germany)
Type		Two stage & dry type
Model		C16400
Purifier Brand		ECS(Canada)
Type		Catalytic purifier with silencer
Model		MFM
Exhaust Gas		CO≤500ppm NOx≤262ppm
HYDRAULIC SYSTEM		
Type		Hydrostatic of forward & reverse
Pump brand		Danfoss from Danmark
Variable motor:		SLOVIKIA T-COM same to Sauer
Multivalve		Changjiang
Hydraulic Reverse Pressure	Mpa	13
Bucket Roll Back Pressure	Mpa	14
Boom Lift Pressure	Mpa	14
Bucket Dump Pressure	Mpa	14
Boom Lower Pressure	Mpa	6
Axle brand		SDTW
Axle type		Rigid planetary axle
Tire brand		Linglong
Model		10.00-20 L-4S 14PLY
Rim		7.5-20
WEIGHT		
Machine weight	kg	6750
Laden Weight	kg	8750
Front Axle(Empty)	kg	2230
Rear axle(Empty)	kg	4520
Front Axle(laden)	kg	4550
Rear Axle(laden)	kg	4200
PERFORMANCE		
Traveling speed	km/h	0~8
Boom Raising Time		≤ 1.8
Boom Lowering Time	s	≤ 2.5
Dumping Time	s	≤ 2.1
WORKING CAPACITY		
Max Breakout Force	KN	45

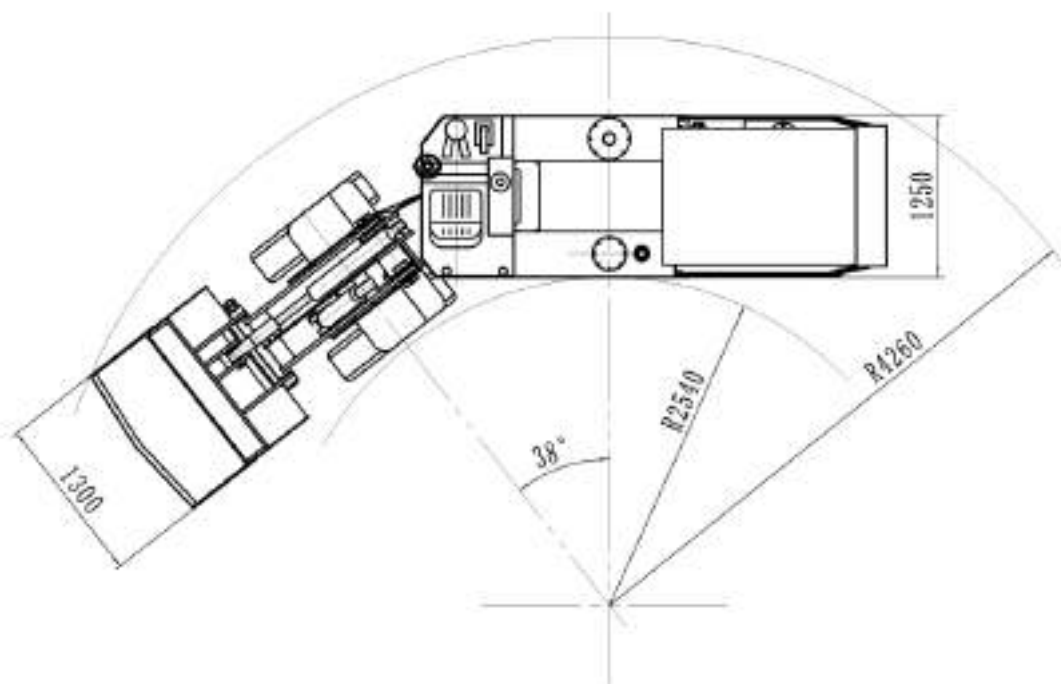
Max Traction	KN	50
Climbing Ability(Laden)		20°
Axle Oscillation Angle		±8°
Alternator		55A / 28V
Batteries		2 x 12V
Starter		4kW / 24 V
Tank Volume	L	120
Hydraulic oil tank	L	60
Options		◆ Engine Fire Suppression(Protecfire / Ansul). ◆ Auto-lub System. ◆ Remote Control System. ◆ Closed Cab With Air-Conditioning. ◆ Side dump bucket. ◆ Bucket teeth. ◆ Protect tyre chain. ◆ Flashing beacon ◆ Reverse alarm ◆ Remote circuit breaker switch ◆ Inclinometers to indicate operating angle





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