

FURNACE TENDING/CHARGING VEHICLE

**EXTRA WORK
EXTRA STRONG**



Furnace-charging vehicle



Furnace-tending vehicle

INDOTARA

www.indotara.co.id

Jakarta - Head Office

Graha Kencana Building
Lt. 10 Suite 10F
Jl. Raya Perjuangan No. 88
Kebon Jeruk, Jakarta Barat 11530
Phone : 021 - 5020 3030
Email : sales@indotara.co.id

Bandung Office

Wisma HSBC
Lt. 6 Suite B
Jalan Asia Afrika No.116,
Kota Bandung, Jawa Barat 40112
Phone : 022 - 310 30 800
Email : sales-bdg@indotara.co.id

Surabaya Office

Bumi Mandiri Tower I
Lantai 10 Suite 1008
JL. Jend.Basuki Rachmat 129-137,
Surabaya 60271
Phone : 031 - 3313 3333
Email : sales-sby@indotara.co.id

Medan Office

Kompleks MMTC WAREHOUSE
Blok C-7
Jl. Pasar V, Pancing,
Medan, Sumut 20371
Phone : 061 - 50 300 600
Email : sales-mdn@indotara.co.id

COMPANY PROFILE



BOMAC

EXTRA WORK, EXTRA STRONG

BOMAC is dedicating the research and development of material handling equipment and construction machinery.

We provide customized vehicle products for various industries. They have developed several models customized multi-series furnace-charging and furnace-tending vehicle for metal aluminium smelting industry.





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BTV8512
Furnace-tending vehicle 



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A red BTV8512 furnace-tending vehicle is shown in a steel mill environment. It has a long, telescopic arm extended towards a glowing furnace. The vehicle is equipped with large, heavy-duty tires and a protective front bumper. The background shows industrial structures and bright light from the furnace.

BTV8512

Furnace-tending vehicle

Furnace-tending vehicle

- 1, Adopt Perkins, or CUMMINS turbocharge diesel engine, power strong, energy saving and environmental protection, meet the efficient working requirements.
- 2, Adopt fixed - shaft type hydraulic transmission, the traction force of the combined condition is large, and the double-variable system is more reliable. Twin-turbo hydraulic torque converter stepless speed change; single-lever control transmission system, two forward and two backward gear shift, operation is easier.
- 3, Adopt dual-pump confluence working hydraulic system, reduce fuel consumption and improve working efficiency.
- 4, Adopt full hydraulic coaxial flow amplification steering system, the steering angle of rear axle is big, steering light and flexible.
- 5, Adopt front wheel drive, rigid suspension, rear axle steering structure. The front axle spiral bevel gear and the wheel side planetary gear increase torque, big load capacity. The rear axle adopts the transverse hydraulic cylinder type steering mechanism, which is helpful to reduce the steering resistance, reduce the tire wear and improve the ride comfort.
- 6, Adopt unitary frame, can provide good rigidity and strength, ensure that the slagging truck chassis has high reliability.
- 7, The working device is a three-section telescopic work arm, Telescopic arm with large cross-section, High-intensity box-type structure, internal and external arms form the secondary joint by front and rear roller bearing. Transmission is smooth, reliable, long life-span, can meet the requirement of slag work.
- 8, Telescopic arm and slag head adopts the high temperature resistant and anti-corrosion stainless steel material, which guarantee that it can continue to work at high temperature environment.

fication, The slag scraper is diversified, easy to change, convenient for slagging and prepurging furnace.

9. The basic arm, telescopic arm with inner sprocket chain, using hydraulic motor deceleration drive, would not be affected by high temperature, to ensure the stability of telescopic device. Hydraulic motor drive reducer with external mounted on the outer arm, easy maintenance.

10. Equipped with wheel protection baffle, to avoid waste residue to cause the tires and car body damage.

11. Using the massive deepening heavy forklift solid tires, the rear steering axle can swing around the center, with Good traction performance and traffic-ability.

12. Matched with adjustable direction, airline seat, joystick control distributing valve and working device control, to achieve the precise control of the slag-removing action (slag-lifting arm, telescopic, inclined).

13. Matched with maintenance-free batteries, multi-function LCD monitor, anti-flame retardant materials wire, cab with fan, radio, air conditioning, comfortable and reliable.

14. The truck shape is high-grade, beautiful, mellifluous; luxury wide view cab, low noise, good sealing, easy to observe around. At the same time equipped with dual cameras front&rear, reverse monitor, to ensure safe operation when slagging.

15. Track side shift function as an option.

16. Cab lifting function as an option.

17. Emergency hydraulic power source as option.

18. Other optional Customization function.

BTV8512

Furnace-tending vehicle

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Optional function

The crawler and side shift function, there is a set of independent side shift hydraulic system, front and rear each equipped with a set of adjustable crawler-type hydraulic drive. When require side shifting function, press the button to lift the whole body up to achieve the track lifting. Front&rear travelling can be controlled separately, to achieve accurate side shift, make the operation of slagging and cleaning furnace in the best working position.

The cab lifting function, to solve the vision problem of slagging the bottom slag, can see the situation of furnace bottom.

Emergency hydraulic power source, power flameout, the electric drive emergency hydraulic power source, can achieve the safety of the track lifting, telescopic arm safe return.

Performance parameters of furnace-tending vehicle

BTV8512

PERFORMANCE		SPECIFICATIONS
Basic parameter	Overall width(The boom is fully retracted)	6000-8000 mm (Can be customized)
	Width	2340 mm
	Height	2360 mm
	Min.ground clearance	160 mm
	Max.extension	8600 mm/9500mm/11300mm (Can be customized)
	Range elevation	Max.elevation angle of boom (Can be customized)
		Min.elevation angle of boom (Can be customized)

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PERFORMANCE			SPECIFICATIONS
Basic parameter	Truck weight		11000-12000 kg
	Slag removing force	Level≥90%	10 kN
		Vertical≥90%	10 kN
Engine	Model		Cummins QSB3.9-C100-31 Perkins 1104D-44TA
	Rated power/rotate speed		Cummins 74kW/2400 rpm Perkins 74KW/2200 rpm
	Max.torque/rotate speed		330N.m/1400 ~ 1600 rpm

Note:the above date are subject to change without prior notice.



BOMAC



OUR SPECIALITY PROMOTE YOUR CAREER

BCV-120FT

Furnace-charging vehicle

BCV-120FT is a customized furnace-charging vehicle,with full free lift structure, hopper climb does not increase the vehicle height to meet the actual conditions of the high limit requirements, the maximum lift height and load are custom designed according to the needs of the customer's melting furnace all the charging action is through hydraulic pilot operation Handle to complete it.

- 1, Adopt Perkins, or CUMMINS turbocharge diesel engine, power strong, energy saving and environmental protection, meet the efficient working requirements.
- 2, Adpot fixed - shaft type hydraulic transmission, the traction force of the combined condition is large, and the double-variable system is more reliable. Twin-turbo hydraulic torque converter stepless speed change; single-lever control transmission system, two forward and two backward gear shift, operation is easier.
- 3, Adopt dual-pump confluence working hydraulic system, a significant reduction in fuel consumption and energy consumption.
- 4, Adopt full hydraulic coaxial flow amplification steering system, the turning radius of rear axle is small, steering light and flexible.
- 5, Adopt front wheel drive, rigid suspension, rear axle steering structure. The front axle spiral bevel gear and the wheel side planetary gear increase toqrue, big load capacity. The rear axle adopts the transverse hydraulic cylinder type steering mechanism, which is helpful to reduce the steering resistance, reduce the tire wear and improve the ride comfort.
- 6, Adopt unitary frame, can provide good rigidity and strength, ensure that the furnace charging vehicle chassis has high reliability.
- 7.The working device is full free lift mast, Three - section telescopic arm hydraulic push material, work smoothly and reliably, meet the requirement of feeding operation.
- 8, Adopt block deepening solid forklift truck solid tires, rear steering bridge can swing around the center, with Good traction performance and traffic-ability.
9. Matched with adjustable drection, airline seat, joystick control distributing valve and working device control, fexible and convient munipulation,sit comfortable.
10. Matched with maintenance-free batteries, multi-function LCD monitor, anti-flame retardant materials wire, cab with fan, radio, air conditioning, comfortable and reliable.
- 11.The truck shape is high-grade, beautiful, mellifluence; luxury wide view cab, low noise, good sealing, easy to observe around.



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Specifications of furnace-charging vehicle BCV-120FT

ITEM		ITEM DESCRIPTION	UNIT	BCV-120FT
Features	1.1	Rated Load	Q(t)	7 (Can be customized)
	1.2	Wheelbase	y(mm)	3000
Weight	2.1	Weight	kg	
Chassis	3.1	Tyre Specs:Front		10.00x20/16PR
	3.2	Tyre Specs:Rear		10.00X20/16PR
	3.3	Tyres Qty,front/rear(X-drive wheels)		4X/2
	3.4	Wheel tread:Front	b10(mm)	1677
	3.5	Wheel tread:Rear	b11(mm)	2013
Dimension	4.1	Mast/carriage tilt angle(front/rear)	Degree	4.5°/9°
	4.2	Mast height(fork lowering)	h1(mm)	3000 (Can be customized)
	4.3	Mast lifting height(full free lift)	h3(mm)	1400 (Can be customized)
	4.4	Overall height(with bucket)	11(mm)	8100 (Can be customized)
	4.5	Overall width	b1/b2(mm)	4000
	4.6	Bucket dimension	s/e/1(mm)	4000x3000x1200 (Can be customized)
Performance	5.1	Travel speed(with load/without load)	km/h	23/26
	5.2	Gradeablity(with load/without load)	%	25
	5.3	Driving brake		dise brake
Engine	6.1	Engine brand/model		Cummins QSB4.5-C130
	6.2	ISO 1585 Engine power	KW	97
	6.3	Rated rotor speed	min ⁻¹	2200
	6.4	No.of Cylinder	cm ³	4
Others	7.1	Control type for driving		Hydrulic torque

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BREAKTHROUGH



INNOVATION



GROWTH

