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HNBZ8512
清炉扒渣车
Furnace-tending vehicle

HNF-120FT
多用途轮胎式加料车
Furnace-charging vehicle



福建华南重工机械制造有限公司
FUJIAN SOUTHCHINA HEAVY MACHINERY MANUFACTURE CO., LTD.

公司简介

COMPANY PROFILE



SOCMA
华南重工

福建华南重工机械制造有限公司致力于物流搬运机械和工程机械的研发和生产。

公司提供各行业定制车辆产品，针对金属铝冶炼行业已经定制开发多系列多型加料车及扒渣清炉车产品。

Fujian Southchina Heavy Machinery Manufacture Co. Ltd. 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 vehicle and furnace-tending vehicle for metal aluminum smelting industry.

※ 华南重工的使命

致力于为客户提供最为皮实耐用、高性价比、高回报率的物流搬运机械及工程机械产品和服务

※ 华南重工的愿景

让SOCMA成为源自中国受人尊敬的国际品牌

※ 华南重工的核心价值观

以客户为中心，以奋斗者为本，坚持自我批判与反省，华南重工将长期处于成长阶段

• The mission of SOCMA

Dedicating to provide the most rugged and durable, high cost-effectiveness, high return rate material handling equipment, construction machinery products and service to our client

• The vision of SOCMA

Let SOCMA become the respectable international brand from China

• The core value of SOCMA

Customer oriented, staff foremost, insist on self criticism and Introspection, SOCMA is growing up always



01/02

实在，值得信赖
OUR QUALITY IS IN THE HABIT

03/04



HNBZ8512
清炉扒渣车
Furnace-tending vehicle



05/06

HNBZ8512清炉扒渣车 产品描述

- 1、采用珀金斯或东风康明斯涡轮增压柴油机，国Ⅲ排放、动力强劲，节能环保，满足高效作业要求。
- 2、采用动力换挡定轴式液力变速器，联合工况牵引力大，双变系统更可靠；双涡轮液力变矩器无级变速；单杆操纵变速系统，前后各二挡，操纵更简便。
- 3、采用双泵合流工作液压系统，降低能耗提高效率。
- 4、采用全液压同轴流量放大转向系统，后转向桥转向角度大，转向轻便灵活。
- 5、采用前轮驱动、刚性悬挂，后桥转向结构。前桥螺旋伞齿轮和轮边行星轮减速增扭，负荷能力大；后桥采用横置液压缸式转向机构，有利于减小转向阻力，减轻轮胎磨损，提高行驶时的平顺性。
- 6、采用整体式车架，可提供良好的刚性和强度，保证扒渣车底盘的高可靠性。
- 7、作业装置为三节箱型伸缩式工作臂，伸缩臂采用大截面、高强度的箱型结构；内臂与外臂通过前后滚轮支承形成滚动副联接、传动平稳、工作可靠、寿命长，满足扒渣作业的要求。
- 8、伸缩臂和扒渣头采用耐高温不锈钢材质，在高温下能持续作业，具有良好的耐腐蚀性和耐高温性；扒渣刮板多样，更换快捷，方便扒渣和清炉作业。
- 9、基本臂、伸缩臂内置链轮链条，采用液压马达减速驱动，不受高温影响，确保伸缩装置的稳定性。
液压马达驱动减速机采用外置式安装于外臂上，方便维修保养。
- 10、配置车轮保护挡板，避免废渣飞溅造成轮胎及车体的破坏。
- 11、采用块状加深重型叉车实心轮胎，后转向桥可绕中心摆动，具有良好的牵引性能和通过性能。
- 12、采用可调式方向机，航空座椅，先导阀控制分配阀和工作装置油路，

实现扒渣动作（扒渣臂升降、伸缩、倾斜）的精准控制，操纵轻便灵活，坐感更舒适。

13、采用免维护蓄电池，多功能液晶监控器、电线采用抗阻燃材料，驾驶室配置风扇、收音机、冷暖空调、工作更舒适可靠。

14、整机造型大气、优美、流畅；豪华宽视野驾驶室，噪音低，密封性好，便于驾驶员四周观察；同时配置了前后双摄像头、倒车雷达，确保扒渣作业更安全。

15、可选配履带侧移功能

16、可选配驾驶室升降功能

17、可选配应急液压动力源

18、其他客户需求的定制功能



07/08

HNBZ8512
清炉扒渣车
Furnace-tending vehicle



Furnace-tending vehicle

- 1, Adopt Perkins, or Dongfeng CUMMINS turbocharge diesel engine, China stage III emissions, 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.

09/10

HNBZ8512

清炉扒渣车

Furnace-tending vehicle



选配功能介绍

Optional function

履带侧移功能，有一套独立的侧移液压系统，前后各设有一组可升降的履带式液压驱动装置。需要侧移功能时，一键起升将整个车体托起，实现履带升降；前后行走可以分别控制，实现整车精确的侧移和摆角，使扒渣和清炉处于最佳工作位置。

驾驶室升降功能，解决扒低渣时的视野问题，可以看到炉底情况。

应急液压动力源，动力熄火时，电驱动应急液压动力源，可实现履带安全升降、伸缩臂安全回位。

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.

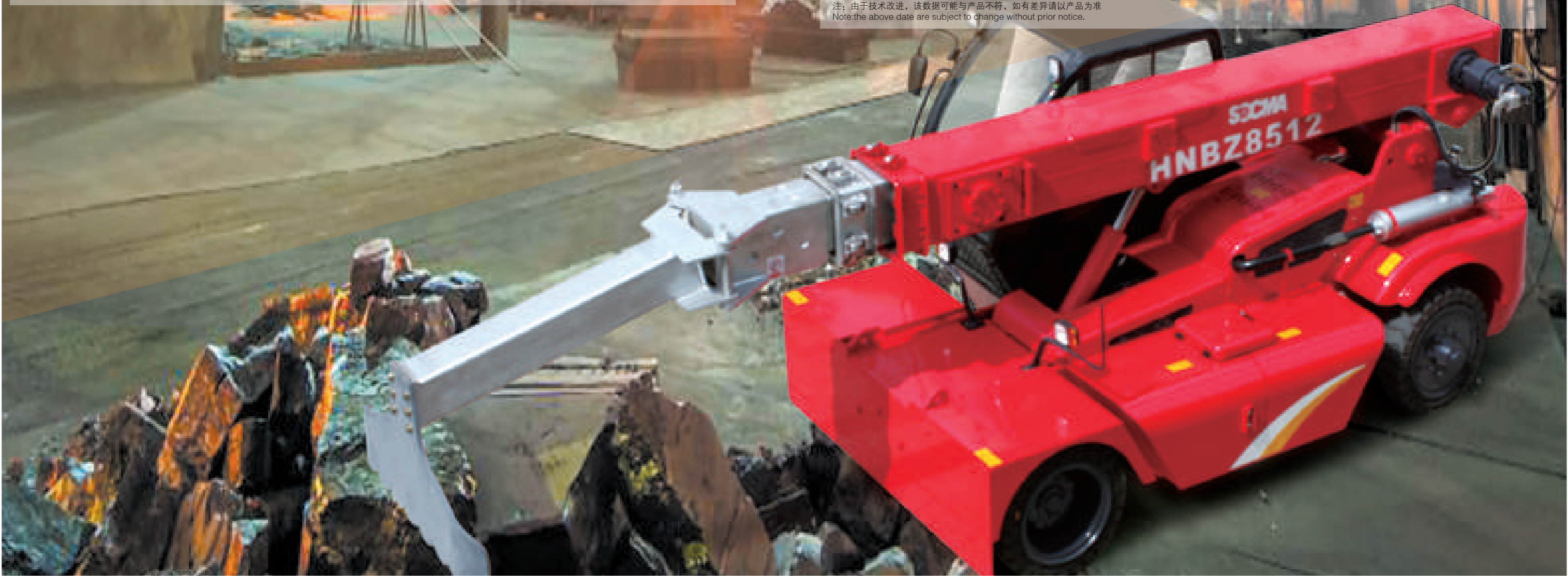
产品参数配置

Performance parameters of furnace-tending vehicle
HNBZ8512清炉扒渣车性能参数

性能 PERFORMANCE		参数 SPECIFICATIONS
基本参数 Basic parameter	全长（臂架全部缩回） Overall width(The boom is fully retracted)	6000-8000 mm (可定制Can be customized)
	宽度 Width	2340 mm
	高度 Height	2360 mm
	最小离地间隙 Min.ground clearance	160 mm
	最大外伸距 Max.extension	8600 mm/9500mm/11300mm (可定制Can be customized)
	变幅仰角 Range elevation	臂架最大仰角 Max.elevation angle of boom 7° (可定制Can be customized) 臂架最小仰角 Min.elevation angle of boom -12° (可定制Can be customized)

性能 PERFORMANCE		参数 SPECIFICATIONS
基本参数 Basic parameter	整机质量 Truck weight	11000-12000 kg
	扒渣力 Slag removing force	水平 ≥90% Level≥90% 10 kN
		垂直 ≥90% Vertical≥90% 10 kN
发动机 Engine	型号 Model	康明斯DongFeng Cummins QSB3.9-C100-31 珀金斯Perkins 1104D-44TA
	额定功率/额定转速 Rated power/rotate speed	康明斯DongFeng Cummins 74kW/2400 rpm 珀金斯Perkins 74KW/2200 rpm
	最大扭矩/转速 Max.torque/rotate speed	330N.m/1400 ~ 1600 rpm

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



13/14

HNF-120FT

多用途轮胎式加料车

Furnace-charging vehicle



HNF-120FT是一种定制型轮胎式加料车，配置全自由提升结构，料斗举升不增加整车高度，满足实际工况的限高要求，最高举升高度和载荷均按客户熔炼炉需求定制设计，所有加料动作均是通过液压先导操作手柄完成的。

产品描述

- 1、采用东风康明斯涡轮增压柴油机，国Ⅲ排放、动力强劲，节能环保，满足高效作业要求。
- 2、采用中南动力换档定轴式液力变速器，联合工况牵引力大，双变系统更可靠；双涡轮液力变矩器无级变速；单杆操纵变速系统，前后各二挡，操纵更简便。
- 3、采用双泵合流工作液压系统，大幅度降低油耗、能耗。
- 4、采用全液压同轴流量放大转向系统，后转向桥转弯半径小，转向轻便灵活。
- 5、采用前轮驱动、刚性悬挂，后桥转向结构。前桥螺旋伞齿轮和轮边行星轮减速增扭，负荷能力大；后桥采用横置液压缸式转向机构，有利于减小转向阻力，减轻轮胎磨损，提高行驶时的平顺性。

我们的专业，推动您的事业

OUR SPECIALITY PROMOTE YOUR CAREER



- 6、采用整体式车架，可提供良好的刚性和强度，保证加料车底盘的高可靠性。
- 7、作业装置为全自由提升门架，配三节伸缩臂液压推料，工作平稳可靠，满足加料作业的要求。
- 8、采用块状加深重型叉车实心轮胎，后转向桥可绕中心摆动，具有良好的牵引性能和通过性能。
- 9、采用可调式方向机，航空座椅，先导阀控制分配阀和工作装置油路，操纵轻便灵活，坐感更舒适。
- 10、采用免维护蓄电池，电线采用抗阻燃材料，驾驶室配置风扇、收音机、冷暖空调、工作更舒适可靠。
- 11、整机造形大气、优美、流畅；豪华宽视野驾驶室，噪音低，密封性好，便于驾驶员四周观察。

HNF-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 Dongfeng Cummins turbocharged diesel engine,China stage III emissions, 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 togrue, 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, felexible 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.

产品参数配置

Specifications of furnace-charging vehicle
加料车性能参数 HNF-120FT

15/16

项目 ITEM		项目内容 ITEM DESCRIPTION	单位 UNIT	HNT-120FT
特性 Features	1.1	起重量/载荷 Rated Load	Q(t)	7 (可定制Can be customized)
	1.2	轴距 Wheelbase	y(mm)	3000
重量 Weight	2.1	自重 Weight	kg	
车轮 底盘 Chassis	3.1	轮胎规格, 前 Tyre Specs:Front		10.00x20/16PR
	3.2	轮胎规格, 后 Tyre Specs:Rear		10.00X20/16PR
	3.3	车轮, 数量前/后 (× =驱动轮) Tyres Qty,front/rear(X-drive wheels)		4X/2
	3.4	轮距, 前 Wheel tread:Front	b10(mm)	1677
	3.5	轮距, 后 Wheel tread:Rear	b11(mm)	2013
基本 尺寸 Dimension	4.1	门架/货叉架前/后倾角 Mast/carriage tilt angle(front/rear)	度Degree	4.5°/9°
	4.2	门架回缩时高度 Mast height(fork lowering)	h1(mm)	3000 (可定制Can be customized)
	4.3	标准起升高度 (全自由提升) Mast lifting height(full free lift)	h3(mm)	1400 (可定制Can be customized)
	4.4	总长(含斗) Overall height(with bucket)	11(mm)	8100 (可定制Can be customized)
	4.5	总宽 Overall width	b1/b2(mm)	4000
	4.6	斗尺寸 Bucket dimension	s/e/1(mm)	4000x3000x1200 (可定制Can be customized)
功能 参数 Performance	5.1	运行速度 (满载/无载) Travel speed(with load/without load)	km/h	23/26
	5.2	爬坡度 (满载/无载) Gradeablity(with load/without load)	%	25
	5.3	行车制动 Driving brake		钳盘式制动器 disce brake
内燃机 Engine	6.1	内燃机生产厂名称/型号 Engine brand/model		东康QSB4.5-C130 Dongfeng Cummins
	6.2	内燃机功率 按 ISO 1585 Engine power	KW	97
	6.3	额定转速 Rated rotor speed	min ⁻¹	2200
	6.4	气缸数目 No.of Cylinder	cm ³	4
其他 Others	7.1	行驶控制方式Control type for driving		液力变矩器 Hydraulic torque

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17/18

HNF-120FT

多用途轮胎式加料车

Furnace-charging vehicle



突破

BREAKTHROUGH

创新

INNOVATION

成长

GROWTH