BCRH-15数字化现场混装乳化炸药车

Digital Site Mixed and Charging Emulsion Explosive Truck BCRH-15

主要技术参数 Main Technical Parameter

现场混装乳化炸药车有两种类型，一种是车上制乳型，一种是地面制乳型。

There are two types of site mixed and charged emulsion explosive truck: the type with emulsifying on the truck and the type with emulsifying in the plant.

产品型号 Model	Emulsifying on truck		Emulsifying in plant	
装载量 Loading Capacity	容积 volume	装料 weight	容积 volume	装料 weight
溶液箱 Solution Tank	10m³	13500kg	-	-
乳胶基质箱 Emulsion Tank	-	-	10m³	13500kg
干料箱（选装件） Dry Material Tank (Optional)	3.2m³	2700kg	2.6m³	2200kg
燃油箱 Fuel Blend Tank	1.3m³	1000kg	-	-
微量元素箱 Gasser Tank	0.15m³	150kg	0.12m³×2	120kg×2
清洗水箱 Water Tank	0.3m³	300kg	0.77m³	770kg
输药效率 Charging Efficiency	200-280kg/min		200-280kg/min	

计 量 误 差 Measurement Error	±2%	±2%
外形尺寸 长×宽×高 Length * Width * Height	10380mm × 2500mm × 3920mm	10380mm × 2500mm × 3920mm
汽车底盘 Truck Chassis	中国重汽豪沃 SINOTRUK HOWO	中国重汽豪沃 SINOTRUK HOWO
技术允许总质量 Gross Mass	31000kg	31000kg
发动机最大功率 Maximum EnginePower	248kw	248kw
设计最高车速 Design Maximum Speed	79km/h	79km/h
排放标准 Emission Standard	国Ⅳ或国 V China Ⅳ or China V	国Ⅳ或国 V China Ⅳ or China V

表1 主要技术参数 Table 1 Main Technical Parameter

数字化现场混装乳化炸药车性能特点

The performance characteristics of digital site mixed and charged emulsion explosive truck

现场混装乳化炸药车可现场混制乳化炸药或重铵油炸药,是集原料及半成品运输、混合、装药为一体的设备。

The BCRH used for mixing and charging emulsion explosive and heavy emulsion explosive on site is the equipment for raw materials and semi-finished products transporting, mixing and charging.

安全可靠。现场混装炸药车不运输成品炸药，料仓内盛装是炸药的原料及半成品，这些原料及半成品在自动控制下按一定的比例在现场混制成炸药并装入炮孔，再经5-10分钟的发泡后才能成为炸药，所以非常安全。

Be safe and reliable. The BCRH does not carry finished explosive but ingredients or semi-finished products in its containers. By the Auto-Control system, in a certain proportion, these ingredients or semi-finished products be manufactured or blended on site and charged into the blastholes, and become explosives in 5~10 minutes after mixture charged into the blastholes.

计量准确，装药效率高。采用多微处理器与可编程控制器设计的装药控制系统，具有很高的可靠性和灵活性。炸药计量误差小于2%。每分钟可混制和装填炸药200公斤，比人工装药的效率提高了数十倍。

Accurate measurement, high charging efficiency. The truck' s production control system, adopting industrial tablet computer and programmable controller mode, has high reliability and flexibility, with a metering error of the production less than 2% and a production efficiency of 200kg/min.

爆破效果好。炸药各组分的比例实现了智能化控制，比例非常准确。实现了从孔底装药，炸药和炮孔耦合性好，提高了装药密度，并且在同一个炮孔内可装填不同密度、不同种类的炸药，使炸药能量得以充分发挥，降低了大块率，克服了根底，爆破效果令人满意。与常规的包装炸药相比可扩大孔网参数约20%—30%，减少炮孔量25%—30%。钻爆成本明显降低。

Improve blast efficiency. The BCRHs adopt intelligent control of production to achieve accurate materials' proportion, the BCRHs' products match the blastholes better, improve the charging density and actualize charging different explosives in one blasthole, which enhance the utilization of blasting energy, effectively reduce of big rock ratio, eliminate the toe, enlarge the initiating system parameters about 20%-30%, reduce blastholes about 25%-30%, get famous blasting effect and markedly drop the cost of blasting.

取代炸药加工厂和火药库。装药车只需要一个与其配套的地面站用来贮存与生产半成品，与传统的炸药加工厂相比，占地面积小，建筑物简单，可减少大量投资。

Replace explosive producing plant and explosive magazine. The truck needs only one ground station which is matched to store or produce raw materials and semi-finished products. Compared with the traditional explosive producing plant, the utility model has the advantages of small occupation area, simple structure and low investment.

抗水性强。装药车制出的乳化炸药，即使在pH值为2的酸性水中浸泡48小时，其物理和爆破性能均无明显改变。

Strong water resistance. The emulsion explosive produced by the BCRH, even dipped in the acid water with pH value of 2 for a period of 48 hours, has no obvious change in physical and explosive properties.

具有超温、超压、断料报警停机的安全保障系统，工作安全可靠。

The production is safe and reliable with the "over temperature", "over pressure" and "lack of material" alarm and shutdown system.

数字化混装车安装有动态监控信息系统，可采集物料输送效率、装药效率、单孔装药量、累计装药量，能全自动采集生产数据，无线定时同步发送，也可定时发送。采用GPS全球定位系统，性能稳定，操作方便，符合国家《工业炸药现场混装车动态监控信息系统通用技术条件》的要求。

Digital site mixed and charged explosive truck, equipped with dynamic monitoring information system, is able to automatically collect the production data of material delivering efficiency and charging efficiency, single hole charge amount, total charge amount and so on, and send wirelessly and synchronously (also or regularly) the data the control center. Adopting GPS global positioning system, the dynamic monitoring information system is stable and easy to operate, meets the requirements of the national standard《industrial explosive site mixing and charging truck dynamic monitoring information system general technical conditions》.

适用范围 Application scope

现场混装乳化炸药车适用于冶金、有色、煤炭、化工、建筑等部门大中型露天爆破工程。车上制乳型的现场混装炸药车可以混制含干料10%和不含干料的乳化炸药，适用于向炮孔直径在80mm以上的单排孔或多排孔装填防水炸药。地面制乳型的现场混装乳化炸药车可用于混制乳化炸药和重铵油炸药，要求炮孔直径在80mm以上。

Suitable for large and medium-sized open-pit in industry of metallurgy, coal, chemical, construction and so on, as equipment to mix and charge emulsion explosive and heavy emulsion explosive into the single row or multi row blastholes which should be a hole bigger than Φ80mm.