

ZOOMLION

ZMI1214A移动反击式破碎站 技术规格书

ZMI1214A Mobile Impact Crushers Technical specifications



中联重科股份有限公司矿山机械事业部

Zoomlion Mining Machinery Department



ZMI1214A 移动反击式破碎站技术规格书

1 概述 Overview

ZMI1214A 移动反击式破碎站是中联重科矿山机械事业部基于中联重科在矿山机械领域数十年的技术积累，并结合国内外最先进的设计理念。推出的一款电驱动经济型移动破碎站设备。具有性能优越、环保节能、高效可靠等特点。

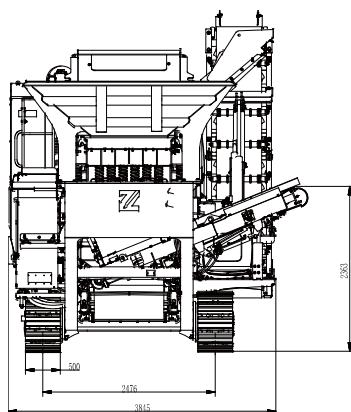
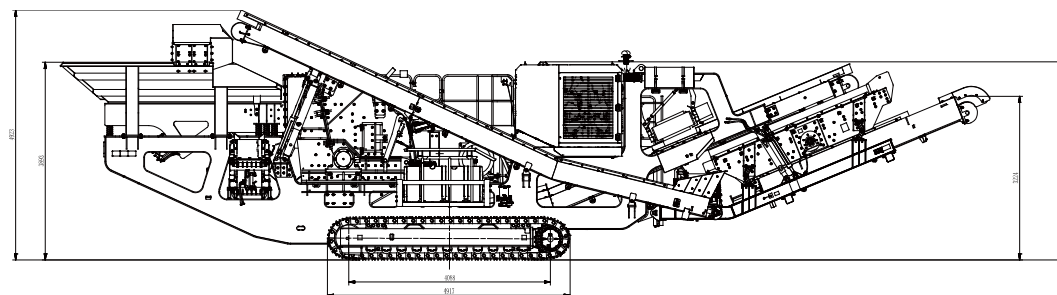
主要用于粗碎、中碎，适用于中等硬度的天然石料，建筑垃圾处理等（详见附件 1），工作额定电压 380V，工作频率 50Hz，工作环境温度为 $-40^{\circ}\text{C} \sim 40^{\circ}\text{C}$ ，海拔高度在 3000m 以下（高海拔、极寒地区需更改部分配置）。

ZMI1214A mobile Impact crusher is an electric driven and economical mobile crushing equipment launched by Zoomlion Mining Machinery Department. It has the advantages of superior performance, environmental protection, energy saving, high efficiency and reliability. Mainly used for rough breaking and pre-crushing, suitable for natural stone of medium hardness, recycled materials. rated voltage 380V, working frequency 50Hz, working environment temperature $-40^{\circ}\text{C} \sim 40^{\circ}\text{C}$, altitude below 3000m (high altitude, extremely cold areas need to change some configuration).



设备外形示意图（单位：mm）:

Working outline (Unit :mm)



ZMI1214A 主要外形尺寸表	
运输尺寸	18845×3845×3900
工作尺寸	18845×4300×4925
进料高度	3900
卸料高度	3200
<u>除土高度</u>	2360
履带总长	4920
履带总宽	500
履带中心距	2476

2 主要技术特点 Main technical features

2.1 振动给料系统 Vibrating feeding system

节能、高效：振动给料系统采用变频器控制。可以根据不同工况，自动调节给料速度，从而保证反击破主机时刻处于高效破碎工况，提高设备运行的效率及成品质量。

Equipped with an intelligent feeding control system, which keeps the crusher in a high-efficiency working range at all times and improves the utilization rate of the crusher.

2.2 反击破主机 Impact Crusher

重型对称型板锤设计：主机搭载重型对称型板锤，破碎比更大，成品粒型更好，使用寿命更长，降低了主机使用成本。

The crusher is equipped with symmetrical type hammers, which have longer service life and lower maintenance costs.

2.3 动力系统 Powertrain

满足非道路欧 V 排放标准，模块化设计，无须加注尿素，维保更为便捷。

Meeting the Euro V emission standards, module design, no needs for adding urea, which makes the maintenance more convenient.

2.4 控制系统 Control system

操作简便：一键启停，远程遥控，安全互锁。

The equipment can be started and stopped with one button, wirelessly remote controlled, with safety interlock, which makes the operation more convenient.

2.5 履带底盘 Track chassis

采用中联重科自制履带底盘，搭载国外进口知名品牌马达减速机，行走稳定，质量可靠。

The entire series is equipped with an extended and heavy-duty track chassis, which can switch between high and low speeds, adapt to various harsh mining walking conditions, and facilitate transfer.



3 主要技术参数

类别 category	项目 Project	单位 Unit	参数 Parameter
整机 Complete machine	处理能力 Capacity	t/h	150-350
	整机重量 Total mass	t	57
	运输尺寸 (长 × 宽 × 高) Transportation dimension (length x width x height)	mm	18845 × 3845 × 3900
	工作尺寸 (长 × 宽 × 高) Working size (length x width x height)	mm	18845 × 4300 × 4925
	爬坡能力 Climbing ability	°	12
	装机功率 Installed power	kW	306
反击破主机 Impact crusher	型号 Model	/	ZCI1214
	转子尺寸 Rotor size	mm	Φ1200 × 1345
	最大进料粒度 Maximum feeding size	mm	600
	电机功率 Crusher power	kW	250
发动机 Engine	柴油发动机 Model	/	YCK16775-S500
	最大扭矩/转速 Max torque/rotate	N · m/ rpm	3200/1400
	发动机额定功率 Rated power	kW	485
	排量 Displacement	L	15.93
发电机 Generator	发电机功率 Generator Power	kW	400
给料系统 Feeding system	振动电机功率 Vibrating motor power	kW	5.5 × 2
	进料高度 Feeding height	mm	3900



	料斗容积 Hopper volume	m ³	6.2
主皮带 Main conveyor	功率 Power	kW	15
	带宽 Belt bandwidth	mm	1000
	卸料高度 Unloading height	mm	3700
细料带 (选配) Unearthed conveyor (optional)	功率 Power	kW	3
	带宽 Belt bandwidth	mm	500
	卸料高度 Unloading height	mm	2300
振动筛 Screening	功率 Power	kW	3.7 × 2
	筛面尺寸 Screening area	mm	3300 × 1600
成品皮带 Product conveyor	功率 Power	kW	7.5
	带宽 Belt bandwidth	mm	1000
	卸料高度 Unloading height	mm	3200
返料皮带 Return conveyor	带宽 Belt bandwidth	mm	650
	功率 Power	kW	5.5
中转皮带 Transit conveyor	带宽 Belt bandwidth	mm	650
	功率 Power	kW	3
液压系统 Hydraulic system	主泵额定压力 Rated pressure of main pump	Mpa	35
	主泵排量 Main pump rate	MI/r	95
	主阀额定压力 Rated pressure of main valve	Mpa	35
	主阀最大流量 Maximum flow of main valve	l/min	180
	行走系统压力 Walking system pressure	Mpa	33
油类容量 Oil capacity	燃油箱容积 Fuel tank volume	L	700
	液压油箱容积 Hydraulic tank volume	L	220
	发动机机油容量 Engine oil	L	42



	capacity		
履带底盘 Track chassis	行走速度 Walking speed	Km/h	0.6/1.2
	履带宽度 Track width	mm	500
	履带轨距 Track gauge	mm	2476
	履带轴距 Track wheelbase	mm	2940
磁选系统（选配） Magnetic separation system （ optional ）	磁感应强度 Magnetic induction intensity	mT	> 70
喷雾除尘系统 Spray system	高效喷雾除尘系统 High-efficiency spray dust removal system		
注：整机实际处理能力与被破碎物料硬度、进料粒度和出料粒度相关 Note: The actual processing capacity of the whole machine is related to the hardness of the crushed material, the granularity of the feed and the granularity of the discharge.			

4 主要配置表 Main configuration table

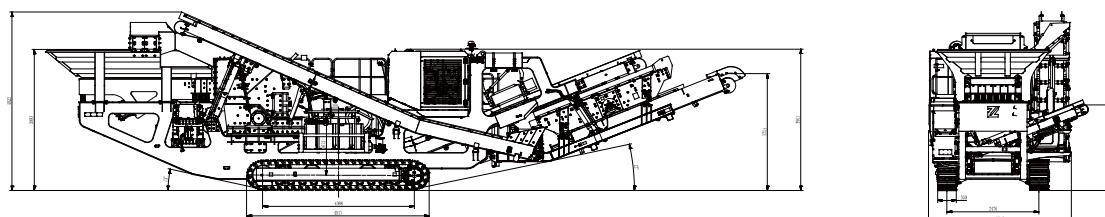
序号 No.	部件名称 Component name	所属模块 module	生产商
1	振动给料机 Vibrating feeder	给料模块 Feed module	中联 Zoomlion
2	振动电机 Vibrating motor		宝飞 Baofei
3	料斗 hopper		中联 Zoomlion
4	反击式破碎机 Impact crusher	破碎模块 Crushing module	中联 Zoomlion
5	电机 motor		天能 Tianneng motor
6	返料筛 Screening	筛分模块 Screening module	中联 Zoomlion
7	弹性支撑座 Elastic support		ROSTA
8	皮带机 conveyor	输送模块 Conveyor module	中联 Zoomlion
9	车架 Frame	机架总成 Frame system	中联 Zoomlion
10	发动机 Engine	动力系统 Powertrain	玉柴联合动力 Yuchai joint power
11	发电机 Generator	动力系统 Powertrain	德科 Evotec power
12	控制模块 Controller	控制系统 Control system	博世力士乐 Bosch Rexroth
13	履带底盘 Track chassis	底盘总成 Walking module	中联 Zoomlion
14	主泵 Main pump	液压系统 Hydraulic module	中联 Zoomlion
15	油缸 oil cylinder		中联 Zoomlion

Note: The actual product shall prevail, and different configurations can be selected according to user requirements.

5 运输方案 Transportation Scheme

5.1 整车（拆卸返料接料斗，返料带、细料带需收起，照明灯需拆装）

Disassembling the hopper and the lighting, folding the return conveyor and Uearthed conveyor before Transportation.



参数 parameter	重量 weight	总长度 Total length	总宽度 Total width	总高度 Total height
单位 unit	kg	mm	mm	mm
ZMI1214A	57000	18845	3845	3900

5.2 运输所需车辆 Transport Vehicle

运输所需一辆 0.7m 高、13.5m 长的 3 线 6 轴车，载重 60 吨以上。

Transportation requires a 0.7m high and 13.5m long 3-line 6-axle car with a load of more than 55 tons.

附件 1：移动反击式破碎站适用范围：

The scope application of mobile impact crushers

ZMI1214A 移动反击式破碎站（以下简称为反击破）所适用破碎的岩石类型仅包括最大粒度不超过 600mm，抗压强度不超过 150MPa 的硬度及以下的岩石。对于抗压强度 150MPa 以上、粒度超过 600mm 的岩石，使用反击破会导致板锤、衬板等易损易耗件异常磨损，造成设备使用寿命下降、堵料或其他产品问题。如有特殊需求，还请提前书面与我司服务部门申请，经我司技术部门确认（需有纸质回复函）后，才可进行其他特种破碎作业。未经我司技术同意，私自将反击破用作其他特种破碎作业的，所造成的后果由客户自行承担。

ZMI1214A mobile impact crusher applicable to broken rocks. The type only includes hardness and below with a maximum particle size of no more than 600mm and a compressive strength of no more than 150Mpa. If not, it will result in a decline in the service life of the equipment, blocking materials or other problems. If you have any special needs, please apply to our service department in advance. Using the equipment for other special crushing operations and the consequences shall be borne by households themselves.

1、反击破适用岩石种类：

Types of rocks suitable for impact crusher:

天然石料：煤、粘土、板岩、石灰岩、白云岩、砂岩

Natural stone: coal clay, slate, limestone, dolomite, sandstone.

再生材料：沥青料、砖、陶瓷、混凝土、建筑垃圾

Recycled materials: asphalt, brick, ceramics, concrete, construction waste.

2、不建议使用反击破，使用需提前评估的岩石种类：

Not recommended, needed to be evaluated before using:

硬质砂岩、河卵石、花岗岩等。

Hard sandstone, river pebbles, granite, etc.

3、禁止使用反击破的种类：

Prohibited use of impact crusher:

玄武岩、片麻岩、石英岩、斑岩、辉绿岩、钢渣、高温炉渣等。

Basalt, gneiss, quartzite, porphyry, pyroxene, steel slag, high-temperature slag, etc.



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