

## Mining and processing equipment Crushing loaders



ДПА-2000 Self Propelled Crushing-and-Reloading Unit

Self propelled crushing and reloading units are used based on the fully conveyORIZED transport technologies and arranged between the power shovel and belt conveyor in the face area of an opencast. The units move along the front of an opencast as the power shovel continues travelling. Such units are usually charged by either the back pull or push forward shovels.

Certain experience has been already accumulated which provides charging of self-propelled crushing and reloading units by walking draglines, especially when they are fitted with the aimed loading devices.

There are some saddle type versions of the self propelled crushing and reloading units (e.g., ДПА-2000 Type) with the crusher located just above the conveyor.

### Specification

Parameter	Values for models		
	ДПА-2000	ДПУ-ДШЗ-1000	ДПМ-2500
Crusher type	КВКД-1450/180	ДШЗ-1000	
Crushed material compression strength, MPa	up to 200	up to 200	
Max crushed lump size, mm	1200	1200	
Crusher discharge slot width, mm	180	300	
Max capacity, m <sup>3</sup> /hr	up to 2000	700	
Travelling type	crawl	crawl	
Travelling speed, m/min	5	7	
Average soil pressure, N/cm <sup>2</sup>	30	18	
Voltage input, kW	6	6	
Structural weight, t	1570	570	

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Crushing loaders are designed for breaking up of medium-hard rock mass within equipment complex at open-pit mining of coal and other deposits.

To provide continuous work of the unit, the material should be charged into receiving hopper by charging device with adjustable productive capacity.

Semi-stationary (mobile) crushing and reloading units are employed when using various transport facilities by receiving the rock mass from the motor vehicle or railway transport facilities, crushing and loading the same onto the trunk belt conveyors.

These units are generally installed on a non mining flank of an opencast.

As the opencast mining proceeds, mobile crushing and reloading units are shifted at intervals from a few months to a few years both in horizontal and vertical directions in order to be set on new working sites.

#### Specification

Parameter	Values for models	
	ДПУ-1000	ДПУ-2000
Crushed material compression strength, MPa	up to 150	
Max capacity, m <sup>3</sup> /hr	1600	2000
Crusher type	ДШЗ-1000/320	ДШЗ-1300/300-ДР
Drive power, kW	2x315	
Belt width, mm	2400	
Belt speed, m/s	up to 0,2	