



RKS-KM



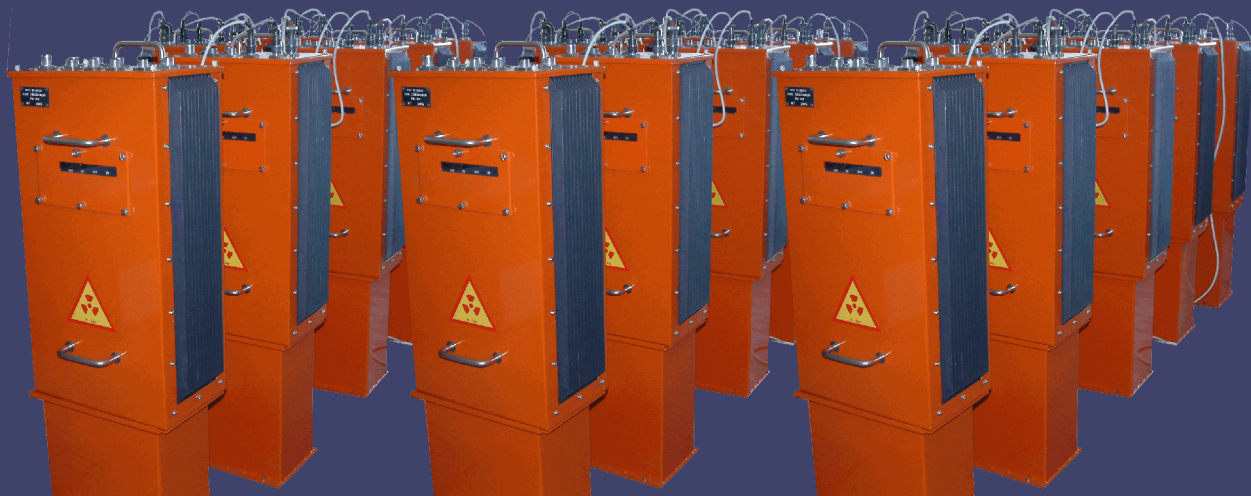
Ore Control Station

Ore control station RKS-KM is used for control ore quality (specifying quantity contents of chemical elements in ore) in continuous technological cycle, (in a real time) on a conveyor belt.

RKS-KM is based on X-ray radiometric method. The source of primary roentgen radiation is X-ray tube of shoot type. Registration of fluorescent radiation of chemical elements is implemented by means of semiconductor Si-pin detector. Then the percentage of chemical elements in control ore is calculating using spectral composition.

Software of RKS-KM make possible build automated systems for control ore quality of different industrial types: in Arctic branch establishment of public corporation «Norilsk Nickel» at the beginning of 2008 year we developed, assembled and put in commission a Control Ore Quality System. RKS-KM is ecological device.

There is an certificate of approval measuring tool RU.C.31.005.A;№31227.



ТЕХНОРОС

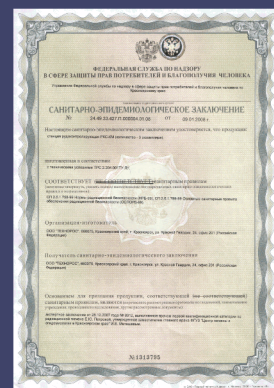
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Arctic branch establishment of public corporation «Norilsk Nickel», mine «Oktyabrskiy»

Technical specifications of RKS-KM

No	Parameter	Value
1	2	3
1	Quantity of simultaneously controlled elements	≤ 5, according to ore kind
2	Range of registered elements with atomic number Z	from 20 (Ca) to 92 (U)
3	Range of specifying mass concentration of elements, %	from 0,1 to 80
4	Minimum time of averaging measurements, sec	30
5	Distance between station and ore, mm	300 ± 150
6	Testing surface area on the conveyor belt, mm	120 x 200
7	Cyclicity of ore testing, sec	30
8	Connection interface	RS-485, isolated
9	Maximum length of connection line, m	1000
10	Quantity of electronic blocks, connected with control panel	2
11	Station work mode	continuous
12	Maximum time of setting work mode, min	30
13	Supply voltage of electronic block, V	220 ± 20%
14	Power consumption of electronic block, kW	0,15
15	Supply voltage of control panel, V	220 ± 20%
16	Power consumption of control panel, kW	0,45
17	Overall dimensions of electronic block, mm	300x600x232
18	Total mass of electronic block, kg	30
19	Overall dimensions of control panel, mm	depends on computer
20	Life time, years	5



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