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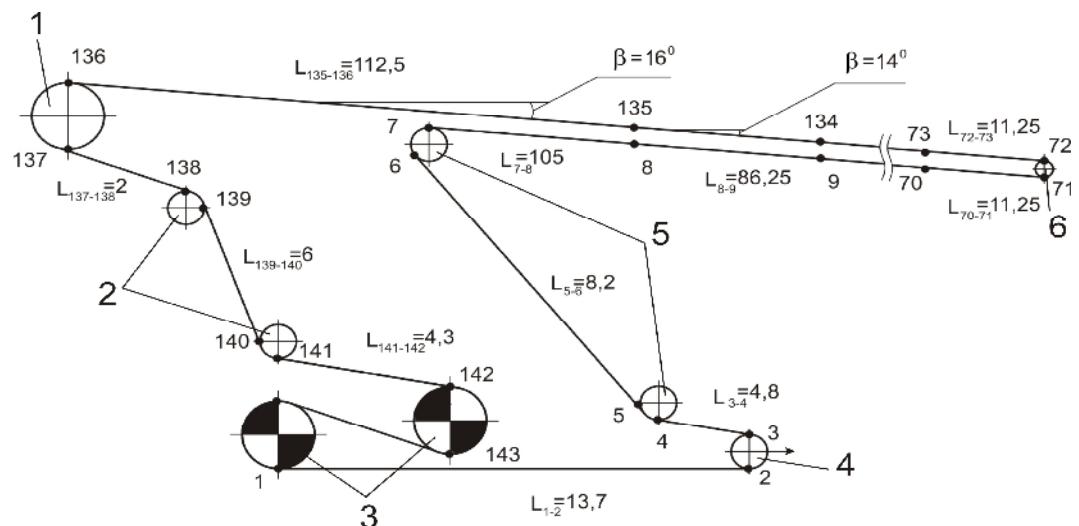
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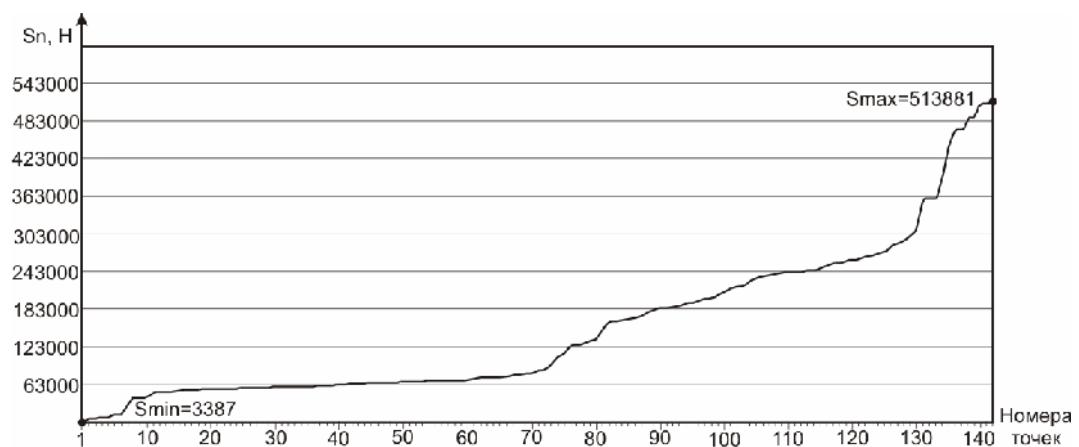
1		2004	« » ( )	5	4220
2		2005		7	2080
3		2006		3	1590
4		2007		3	1860
5		2009	«H+E Logistik GMBH» ( )	2	2400

( 1).  
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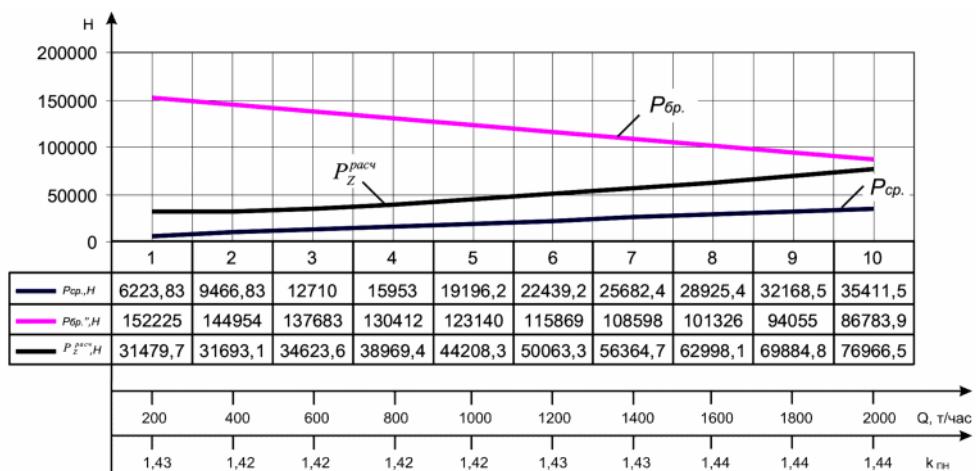
$$k = \frac{\sum S}{S}, \quad (1)$$

$$\sum S -$$

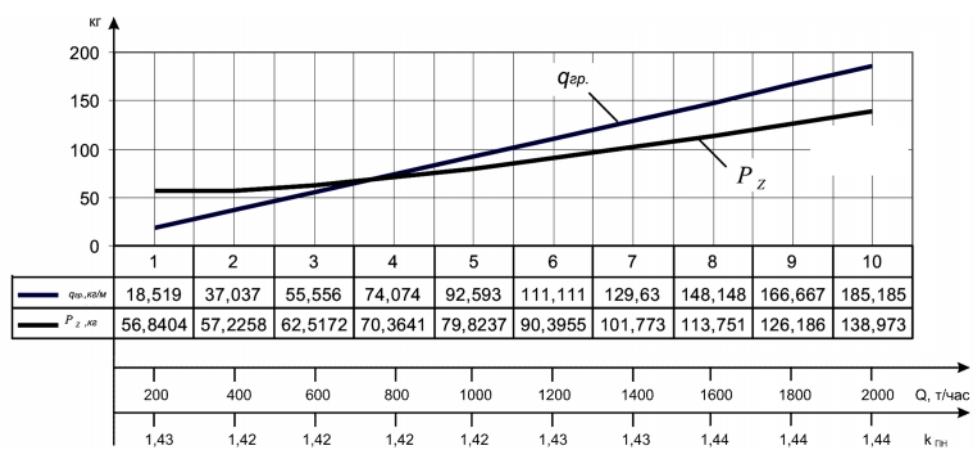
$$\sum S = S_{\parallel} + S_{\perp} = S_{\parallel} + (S_{\perp}^{\parallel} + S_{\perp}^{\perp} + P_{\perp}), \quad (2)$$

3. 4. , ( ), 5),

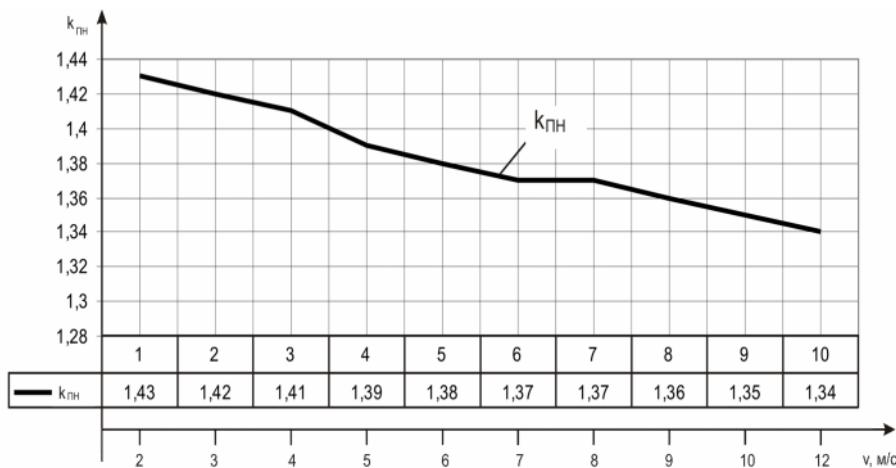
, « » ( 6) [4, 5].



. 3.  $P$ ,  $P$ ,  $Q$ ,  $k$



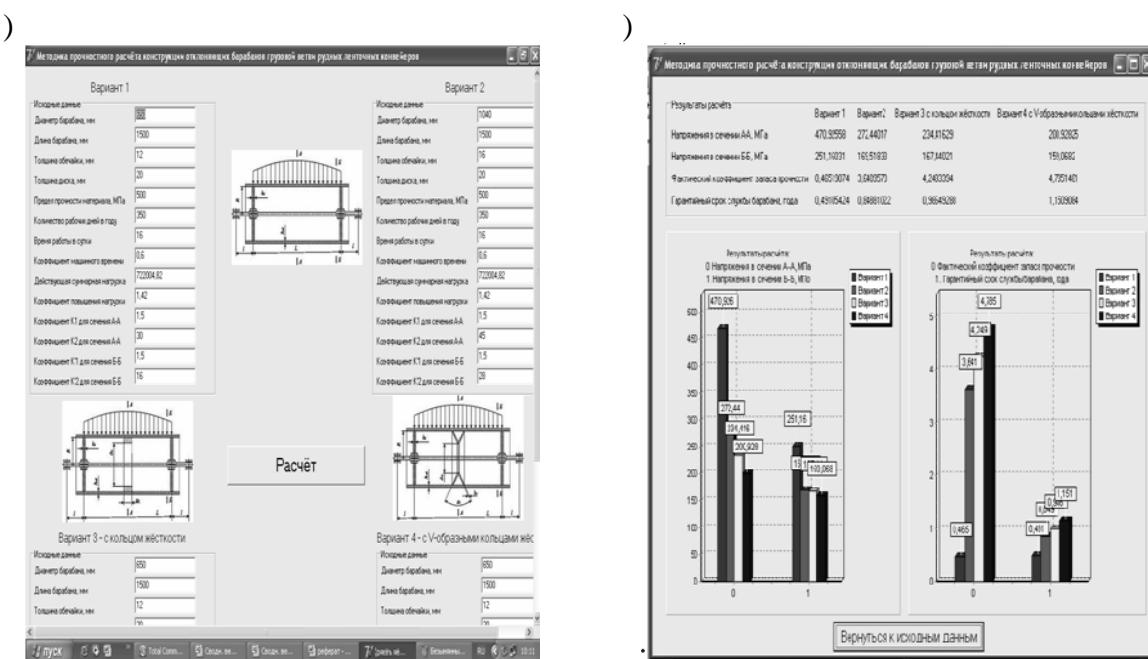
. 4.  $q$ ,  $k$ ,  $Q$



. 5.

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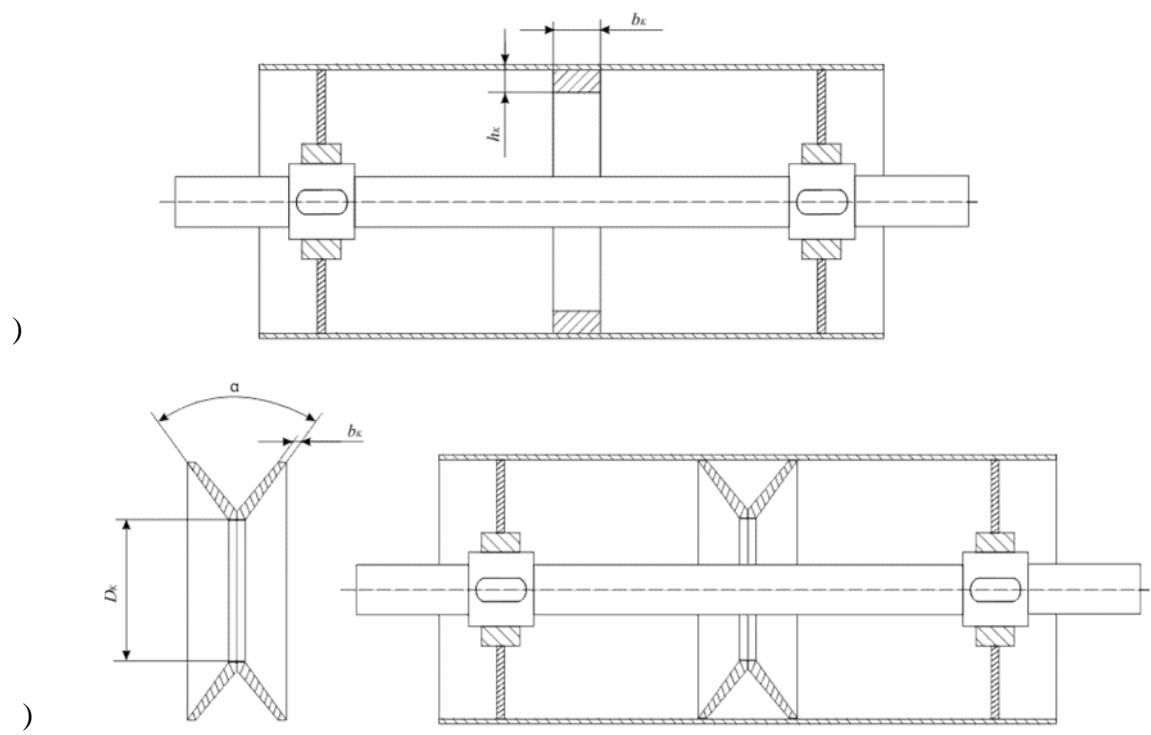
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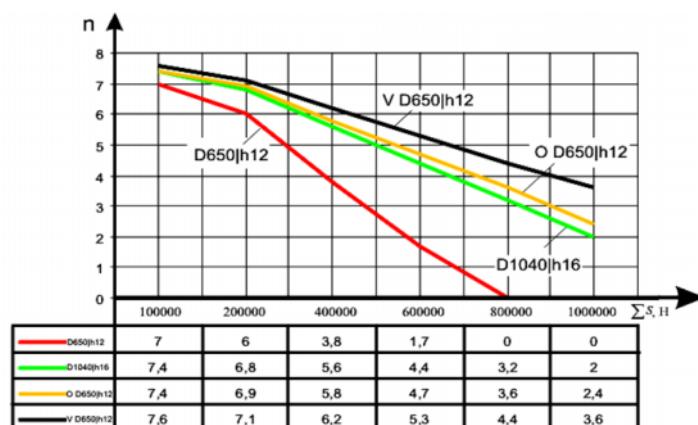


$$( \quad \quad \quad b \quad \quad \quad h \quad ).$$

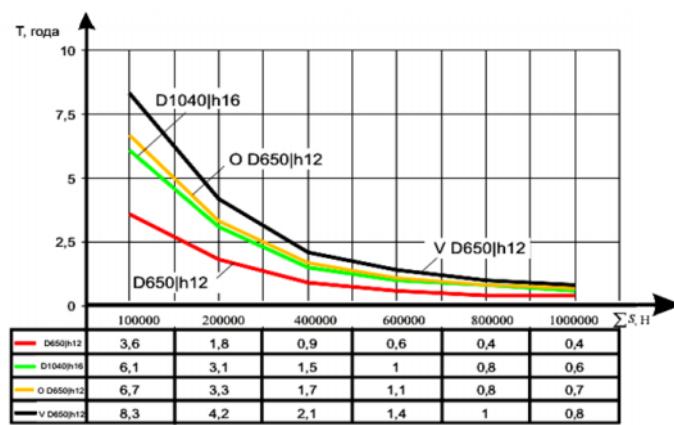
V-, , 7, [6].

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4. . . « » / . . // » . - : « » , 2009. - 12. - .13-15.

5. « : / . . ,

6. . . - 1350 6 2010. : / . . , . . - 03.08.2011. 24538

Balabaev

# FUNDAMENTALS OF RATIONAL DESIGN DEFLECTING DRUMS OF ORE BELT CONVEYORS

**CONVEYORS**  
In the article the results of theoretical studies to determine the rational design of deflecting drums of ore conveyor belt. It is established that, in calculating the total load acting on the deflection drum must be considered: dynamic forces in the belt along the middle roller, and the deformation bands on the sides, the generalized force acting on the system under the action of a single piece of cargo. An original way to strengthen the construction of a deflecting drum loading conveyor branch by setting the stiffness of the ring-reducing strained-deformed state of the drum shell.

**Keywords:** conveyor system, shell, Diversion, a mine, the total load.