**application of the cableway then adapter forest wheeled tractorsS**

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**Abstract:** Field conditions, high proportion of mountain forests and forest health condition requires ecological forest machinery. Skidding by cable systems is the most ecologically friendly skidding method. On the basis of the need of greater use of timber skidding by cable systems we started to work on a proposal of cable system based on transportation-circulating cable as adapters of forest wheeled tractors.

**Key words:** skidding, cable system, forest wheeled tractors, adapters

**Introduction**

Introduction should describe the current state of knowledge in the problem. It should be brief and concise. It must include the formulation of the scientific problem and relationship to previous work with similar problems. In the end, it is necessary to clearly define the scope and objectives of the article.

**material and methods**

It contains a description of the materials, methods and techniques. Standard procedures can be indicated by reference to the source, the original is necessary to describe in detail. The main objective of this section is to given sufficient details for a competent researcher to be able to repeat the measurement and to reproduce the results.

**results**

This section should evaluate the achieved results. Present results are processed and described in tables and graphs.

Fig. 1.Database file of grinders divided by correlation between weight and power

Table 1. The categorization of forestry mulchers

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **K1t** | **K2t** | **K3t** | **K4t** | **K5t** | **K6t** |
| Engine performance[*kW*] | 0 ÷ 75 | 75 ÷ 100 | 100 ÷ 125 | 125 ÷ 175 | 175 ÷ 225 | < 225 |
| Weight[*t*] | 0 ÷ 1,3 | 1,3 ÷ 1,7 | 1,7 ÷ 2,0 | 2,0 ÷ 2,8 | 2,8 ÷ 3,5 | < 3,5 |
| Grinding diameter [*cm*] | 0 ÷ 22 | 22 ÷ 26 | 26 ÷ 30 | 30 ÷ 38 | 38 ÷ 46 | < 46 |
|  | **K1hm** | **K2hm** | **K3hm** | **K4hm** | **K5hm** | **K6hm** |
| Flow rating [*kW*] | 0 ÷ 75 | 75 ÷ 100 | 100 ÷ 150 | 150 ÷ 175 | 175 ÷ 200 | < 200 |
| Weight[*t*] | 0 ÷ 0,55 | 0,55 ÷ 0,7 | 0,7 ÷ 1,0 | 1,0 ÷ 1,2 | 1,2 ÷ 1,35 | < 1,35 |
| Grinding diameter [*cm*] | 0 ÷ 12 | 12 ÷ 16 | 16 ÷ 23 | 23 ÷ 26 | 26 ÷ 30 | < 30 |

Equations should be formatted as follows:

$Q=V\_{G}∙n\_{G}∙η\_{G}$ (1)

where *ηG* is flow hydraulic pump efficiency [-],

*Q* is flow rate [m3.s-1],

*VG* is geometric volume of hydrogenerator [m3.ot-1].

**discussion**

The achieved results should be critically discussed and compared with the results of other authors. It should be focused on the basic established principles and evaluated whether they have been confirmed. The discussion should be limited only to the area of achievement.

**conclusion**

It should present a brief summary of the major results of the work and deduct fulfillment of set goals.

**literature**

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