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

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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**

The extended abstract briefly summarizes the main procedures and results of the paper. It should not exceed the range of 2 pages. The introduction should be brief and factual. It must contain the formulation of a scientific problem and the relationship of the solved work to previous works with similar issues. Finally, the scope and objectives of the contribution need to be clearly defined.

**material and methods**

Contains a brief description of materials, methods, and procedures. The main goal of this section is to provide enough detail for a competent researcher.

**results**

In this part it is necessary to focus on the evaluation of the achieved results. Provide figures, tables, and equations if necessary.

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

Obr. 1 Databázový súbor drvičov rozdelený podľa závislosti hmotnosti od výkonu

Table 1 The categorization of forestry mulchers

Tabuľka 1 Kategorizácia drvičov

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | **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].

**conclusion**

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

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**literature**

List only the literature used in the extended abstract.

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