

Van Horlick's Cultivator Planter (VHCP)

Reduce Revegetation Costs with the VHCP

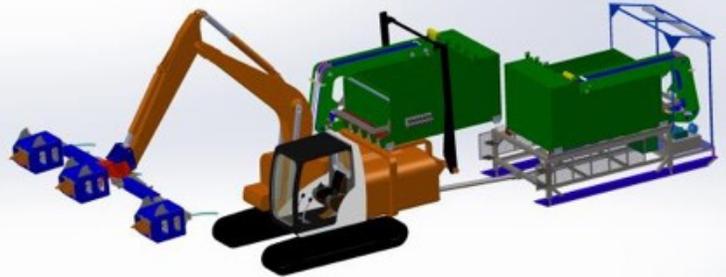
The VHCP is a cultivator and seedling planter machine that automates the act of cultivation and seedling planting on flat, hilly, sloped, and rugged terrains. The machinery is available as an attachment for a 20 Ton excavator or equivalent. It has the ability to plant a variety of species and offers dramatic improvements in worker productivity. The VHCP offers a significant reduction in associated costs with reforestation and revegetation, compared to the common practice of using manual labor for cultivating and planting seedlings.

The VHCP has a modular, compact, cultivator system with 3 cultivator heads attached to 2 hydraulic arms. These hydraulic arms have the ability to move forward or backward, and up or down. This gives the attachment the degree of freedom to operate on diverse terrains. The VHCP automates the cultivation and planting process, hydraulically, pneumatically with computerized control, completed within a 3 second time cycle. In addition, 4 seconds is commonly needed to relocate the excavator 3 meters forward for a complete cycle. This results in 3 seedlings planted every 7 seconds.



Innovative Planting Technology

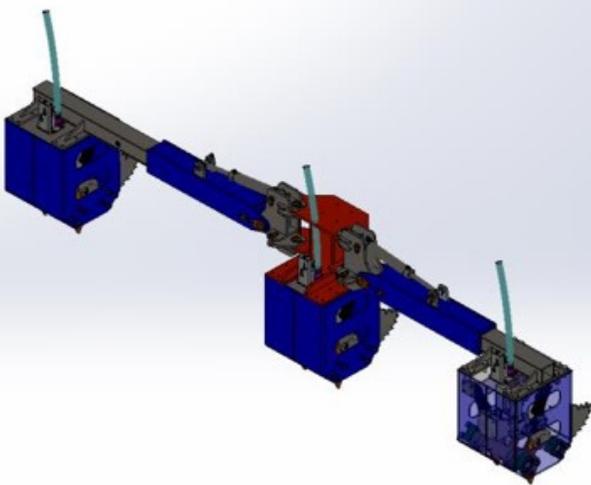
Each of the VHCP's 3 cultivator heads is adjustable during the seedling cultivating and planting process. The excavator hydraulics system is used to lift and lower the main boom, while the cultivator heads are adjustable to avoid debris, rock, or stumps on the ground. When the excavator boom is lowered, the soil is cultivated and the seedling is planted. The VHCP's computerized hydraulic action controls cultivation, seedling dispensing, and soil tamping around the roots to ensure the survival of the seedling.



Product Benefits & Competitive Advantage

Cultivation greatly improves the survival rate of the seedlings, a Key Performance Indicator (KPI) often used by forestry and logging companies to measure the success rate of silvicultural practices. The mechanical arm of the excavator can be used to cultivate and plant crops in areas with rough utilizing terrain. Where plows, discs, harrows, and seeders (pull-behind equipment) are not effective, the VHCP has an advantage in its ability to establish a variety of crops on terrain that may not have previously been accessible with pull-behind equipment.

The VHCP is capable of cultivating and planting for 24 hours per day and it enhances the economic viability of agroforestry practices due to its ability to plant mixed species at any ratio. The VHCP is a cost-effective planter for companies invested in food forestry, silvopasture and plantation establishment.



Technical Specifications

Excavator:	2016 CASE 210D (Or any other 21 Ton excavator can be used)
Planting Rate per Hour:	±1500 cultivated planted Seedlings per hour and Magazine contains 6000 plants (Operator will exchange the magazine every 4 hours)
Electrical System:	Magazine - 24V, Reloading Station - 110 V
Hydraulic System:	393 L/min @ 5700 PSI
Control System:	PLC (Programmable Logic Controller) with HMI (Human Machine Interface)
Operator Training:	One operator must be certified to operate the machine
Spare Parts:	Parts can be ordered through tim@vhmulcher.com



For more information, visit <http://www.vhmulcher.com/vhcp> or contact us for product pricing.



Tim C. Van Horlick Forestry Inc.

1539 Idaho St. (PO Box 3545) Carstairs, AB.
T0M 0N0, Canada
Main: 403 337 9992
Cell: 250 991 6578
Email: tim@vhmulcher.com