

POWERED CUTTER FOR WOODY PLANT PROPAGATION

PROBLEM:

Thick woody plants, such as Juniper, are difficult to handle and cut with small propagation shears. Highly repetitive gripping and cutting can contribute to chronic injury of the hand and wrist.



Highly repetitive hand work can contribute to chronic injury of the hand, wrist, and are (such as tendinitis or carpal tunnel syndrome). When workers have to squeeze forcefully, risk of injury is increased even more.

Woody plants like Juniper can be prickly and difficult to handle.

Prolonged exertion of force in small muscles leads to quicker fatigue as well as increased wear on tools.

ONE SOLUTION:

Use of a bench-mounted powered cutter to make cuttings of woody plants relieves repetitive hand closure and can speed work.



Cutter relieves need for repetitive and forceful hand closures.

Cutter reduces need for handling of cuttings materials.

Cutter can improve productivity.

HOW DOES THE CUTTER WORK?

The cutter uses air pressure to power a pneumatic cylinder that closes and opens a set of mounted modified hand shears. Each cycle is activated by a light touch of the plant material against the trigger lever of an air micro-switch.

HOW DOES THE CUTTER AFFECT CUTTINGS QUALITY?

The cutting quality is unchanged, because the blades are identical to those of current hand shears. Workers new to the powered cutter will need one to two hours of practice before they can use it as well as the hand shears.

HOW DOES THE CUTTER AFFECT PRODUCTIVITY?

Cumulative daily productivity may be improved due to reduction in worker fatigue. Also, workers with physical limitations may be able to use the machine much more easily than the hand shears, and thus be more productive.

WHERE CAN I GET A POWERED CUTTER?

Contact:
MG Enterprises for more information.

MG Enterprises
6405 Rocky Canyon Road
Creston, CA 93432

Prices will likely run about \$1,000 for a smaller cutter and \$1,250 for a larger one.

