

# XPOWER XPU

ELECTRICAL WEED CONTROL FOR URBAN APPLICATIONS

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# THE FUTURE OF HERBICIDES IS THE XPOWER

- A proven alternative weeding technique
- Electrophysical destruction of weeds and invasive plants
- Based on a closed, uniform and targeted electrical circuit
- Works down the roots: XPower treats the plant from the leaves to the roots in the soil

Chemical herbicides were a huge success story in the 20th century, reducing costs and raising yields. But there are now very good reasons why alternative weeding technologies are an important step forward, for many areas of application.

Various studies have shown that the risk of glyphosate is controversial, but the uncertainties for the customer are increasing. The risk of biological resistances is increasing and many active herbicidal agents are losing their approval. What is clear, is that biological resistance from chemical applications is on the rise and spreading worldwide. Whatever the mixture of toxicological regulations and the political decisions finally have, it is clear that non-chemical solutions will be required to develop optimised environmentally friendly and reliable weeding strategies.

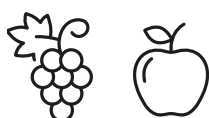
All products of the XPower family use high-voltage electronics and state of the art engineering to eliminate target plants effectively and minimise the usage of chemical herbicides. The XPower technology enables a cost-effective weed control which is becoming increasingly essential to ensure the high yields and the harvest quality in arable crop rotations but also in perennial crops such as vine and fruit growing orchards.

## 2 PRODUCTS FOR NUMEROUS APPLICATIONS



**XPS**

VITICULTURE  
ORCHARDS



**XPU**

URBAN  
APPLICATIONS



# WORKING PRINCIPLE

High-voltage electricity is provided locally by a generator. The electric current passes via the applicator into the plants and then into the soil. The electric circuit is closed via a second applicator that either touches other plants or the soil. The energy lets the plants wilt from the inside, right down into their roots:

- Systemic mode of action
- Irreversible destruction of cell compartmentation
- Interrupted water supply in the vessels
- Immediate plant death

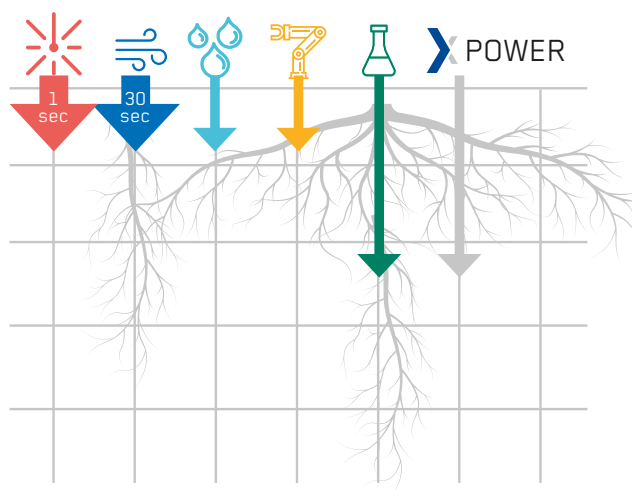


The right amount of energy and an optimised applicator are decisive for the effect. Plants with a high-water content and with few stems and roots compared to their leaf mass require only little energy and are easy to treat.

Very dense and woody grasses or very large plants require a lot of energy and special applicators. In these cases, combination methods, for example with mowing achieve best results. Plants with larger rootstocks or rhizomes are severely weakened and will partially require more than one treatment.

The XPower effect can best be compared with that of Glyphosate, it works right down to the roots – only in an instant and without residue!

**100% CHEMICAL FREE. 100% ECO-FRIENDLY.**



## WORKS DOWN THE ROOTS

Next to chemistry only XPower works systemically down to the roots. The electric power is directed through the roots into the soil. Therefore, the roots of any plants that come into contact with the electrodes. The destructive effect of the XPower down into the plants root minimises the re-growth capacity of both, annual and perennial weed species.

# DESIGNED FOR URBAN APPLICATIONS

The XPU has been specially developed for municipal businesses and building yards. Its compact design makes it ideal for narrow-track tractors.

Fields of application are the care of public paths and squares, as well as verges and industrial areas. Thanks to flexible electrodes made of stainless steel, the applicator adapts to any surface and works precisely, whether on paving stones, gravel or earth.

In comparison to mechanical weed control or hot water processes, there is no ballast whirled up or sand washed out of the joints of the pavement. The treated plants remain in place, the soil surface remains shadowed and new seeds will not find a favorable seed bed for germination.

## SPECIFICATIONS

- **2 units: attached to the front and the rear of tractor**
- **24 or 36 kW with the Power Boost option**
- **8000 volts**
- **1.20 m working width**
- **Up to 5 km/h working speed**



# FIELDS OF APPLICATIONS

## In landscaping/ for municipalities and service provider

- Green Space maintenance
- Outdoor Sports fields
- Leisure facilities such as playgrounds or parks
- Road maintenance
- Sidewalk maintenance
- Industrial zones



# BENEFITS

## What are the advantages compared to chemical weeding?

- Fast and durable action: it is residue-free and can be applied in most weather conditions .
- It does not lose its effectiveness in case of rain after application, unlike chemical weed killers.
- The XPU user is not exposed to toxic substances.
- Neither the soil, water nor insects are affected during the application.
- XPower applications are not subject to legal restrictions and can be applied in all areas, e.g. along water ways.
- No additional supplies (hot water, gas, manual operations...) required.

## What are the advantages compared to non-chemical weeding?

- Systemic action down into the roots: other non-chemical methods generally are not systemic, which provokes regrowth.
- No impact on the soil: prevention of erosion risks and no stimulation of the weed seed stock or nutrition turnover.
- Soil integrity: the energy runs directly into the roots and does not heat up the surrounding soil or the environment.



**BEFORE**

**AFTER 10 DAYS**

# SAFETY FIRST



## STRONG SAFETY CONCEPT IN PLACE

- Requires training of all operators.
- All devices are checked to ensure compliance with electromagnetic compatibility (EMC).
- No risk seen on underground metal pipes.
- Clear guidelines are provided on safety zones, contact with metal objects.

## SAFE FOR THE OPERATOR

The area of high-voltage transformation as well as the connections of cables and the three rows of electrodes are entirely isolated from the rest of the XPU equipment: all parts are fixed on an isolating base structure made from glass reinforced plastics, which additionally eliminates the risks to the user.

The XPU is fully compliant with European safety norms in vigor.





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AGXTEND is a CNH Industrial aftermarket brand dedicated to accelerating pioneering technical solutions in agriculture. We do this through product development partnerships with agtech start-ups. Leveraging CNH Industrial's expertise and global network, AGXTEND aims to deliver rapid innovation, sustainability and productivity-boosting equipment add-ons that help make farming easier and smarter. Visit [agxtend.com](http://agxtend.com) for more information.



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