

Combination of inter-row cultivator and band-applied herbicide in maize

Prototype of camera controlled/guided post-emergence inter-row cultivator combined with herbicide band application (along the crop rows)

Efficacy:

How it works

- Integration of three already available technologies to achieve highly accurate inter-row cultivation and narrow-banded herbicide application along the crop rows
- Maize growth stage between 2-3 and 6 leaves
- Not to be used in no-till or strip-tillage
- Constant distance between crop rows, reasonable uniform distribution of crop plants along rows
- Preferably sunny and dry weather during and after application to maximize the effect of mechanical weed control
- Adequate soil moisture, i.e. operate in tilth condition
- Moderate weed pressure and weeds at early growth stages



Figure 1. Lateral view of the prototype produced by Maschio-Gaspardo. Photo: Christian Centis, Maschio Gaspardo

Figure 3. Detail of the prototype showing the herbicide band application apparatus. Photo: Christian Centis, Maschio Gaspardo

Read more

Inspiration sheet: <u>Camera controlled inter row cultivator and bandspraying in maize</u> Video, https://www.venetoagricoltura.org/iwmpraise-foto-video/

CONTACT

Maurizio Sattin Institute for Sustainable Plant Protection – CNR <u>maurizio.sattin@cnr.it</u> +39 389 0747877



DID YOU KNOW? In maize crops this IPM tool allows a herbicide use reduction of at least 60%

