Mechanical weed control

Why?

Strongly reduces the input of herbicides
Decreases number of available herbicides in many crops
Effective against pesticide-resistant weeds

Type of machinery / equipment:
- Hoe
- Harrow
- Robots

Modes of action:
- Full field
- Between rows
- In crop rows
- Ridge application

Advantages

Less input of chemical pesticides
No emissions to ground and surface water
Autonomous vehicles
Driven by solar power
Combines with precision sowing/precision agriculture for application in the row and even before crop emergence

Disadvantages

Less capacity (ha/hours)
More energy use
More weather dependant