



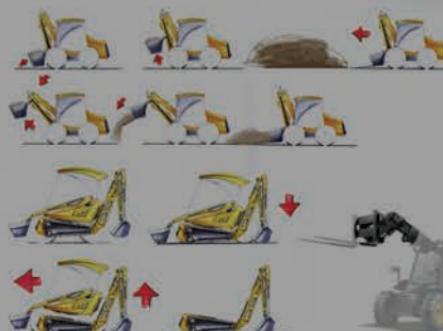
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## RESEARCH



FUNCTIONALITY & PRICE  
2 vs. 1

## EARLY CONCEPT



new way to scoop dirt



Size compare to the 4CX



Depart from the main body

## FINAL CONCEPT

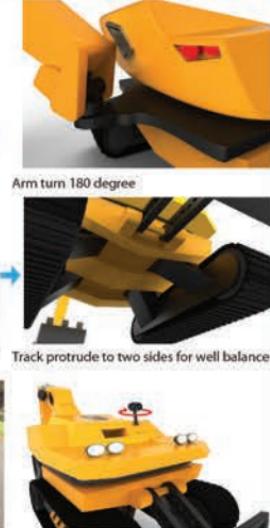


## Concept:

This is a concept backhoe loader capable of doing two jobs at once. The backhoe loader can work alone as a tractor or it can detach to become a stand alone loader and a backhoe unit that can be ran by remote control. The redesign increases the function of the backhoe and makes the scooping process easier. The backhoe loader is ran by a diesel electric powertrain that simplifies the mechanical structure.



Dozer blade



Arm turn 180 degree



3D Camera

