

3 ACCA

THIRD AFRICA CONGRESS ON
CONSERVATION AGRICULTURE
5-8 June 2023 | Rabat, Morocco



Local needs for Mechanized Conservation Agriculture (MCA):

The Centre for No-Till Agriculture's
(CNTA) experience with the application
of CA implements

K. Boa

Theme:

Building a Resilient Future in Africa
through Conservation Agriculture and Sustainable
Mechanization



Organizers



In Collaboration with



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The drudgery associated with manual CA



Why MCA?

To enhance the productivity of human labor.

To achieve results well beyond the capacity of human labor.

Machinery requirements for agriculture

Conventional or Conservation

Land preparation
Planting
Fertilizer application
Pest control
Harvesting
Haulage
Processing

Specialized CA machinery requirements

Land preparation
Planting
Harvesting

Land preparation – breaking hard pans

Hand tools



Mechanical Ripper



Land preparation – bush clearing

Manual - Cutlass



Mechanical - roller crimper



Planting

Manual



Mechanical



Preference of farmers for specific MCA equipment

Ecology	Characteristics	Preferred CA implement
Dry savannah zone	Little or no soil cover at planting Bare crusted fields Prevalence of hard pans	Ripper
Transition zone	Good biomass cover No crusted soils	No-Till planter
Humid forest zone	Heavy biomass cover	Roller crimper

Support for MCA services

CNTA – Training of tractor operators/owners/farmers

Local fabrication - CNTA in collaboration with N. K. Frimpong Ent.

Roller crimpers – 11

No-Till planter parts – closing wheels, residue managers, coulters, ripper shanks

Rippers – 18 (CNTA-7, VVF-1, TECAS-4, CADC-1, Sahel grains-5)

Jab planters - ≥ 1000 pieces distributed by GASIP

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3ACCA Secretariat

African Conservation Tillage Network

P.O Box 10375, 00100 Nairobi, Kenya.

KALRO - KABETE, Waiyaki Way.

Website: <https://africacacongress.org>

Email: cacongress@act-africa.org

