Most advanced topping technology

ROPA Fahrzeug- und Maschinenbau GmbH

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REVIEW: Topping target since 2004

- Defoliator in front
- Parallel topping knife with an automatically regulated cutting angle provided precise scalping

REVIEW: Standard solution since 2004

2 cm "zu tief" = minus 24 % Masse
Defoliator does not fully remove foliage from beet top

Main advantages of ROPA strategy:
- less wear
- low fuel consumption

There's always some room for improvement!
August 2009: Start of Micro-Topper field test

Main principle: Remaining foliage will be scalped by sharp knife

Field tests showed good results
October 2009: Further improvements on Micro-Topper

KEY TARGETS

• Full utilization of sugar beet yield
• Perfect working results in non-uniform crops
• Highest productivity under all conditions
• No increase of harvesting cost
• No limitation of harvesting speed
• No increase of maintenance cost
• Quick and easy retrofitting (only on PRh lifting units of ROPA)
• Suitable on 9-, 8- and 6-row lifting units
2009/2010: Launch of ROPA Micro-Topper 2

**Functional principle:**
1. Precise scanning of beet body
2. Sharp knife is linked to crown height of beet body

Correlation between crown height and cutting clearance:
1. Very little cutting clearance on small sugar beets
2. Little increased cutting clearance on larger sugar beets
ROPA Micro-Topper 2: Working result at 8km/h

Full yield utilization in non-uniform crops at high harvesting speed
ROPAS Micro-Topper 2: Working result at 8km/h

Key benefits of ROPA Micro-Topper 2:

1. Benefits for beet grower:
   - Increased income because of higher beet delivery to factory
   - Less beet damage
   - System works also in non-uniform crops
   - No cost increase
Key benefits of ROPA Micro-Topper 2:

2. Benefits for machine owner:
- No reduction of harvesting speed
- No additional cost
- No additional fuel consumption
- Highest productivity
- System can be handled from every operator
- System works also in non-uniform crops
- Quick and easy retrofit on existing ROPA euro-Tiger

Key benefits of ROPA Micro-Topper 2:

3. Benefits for sugar factory:
- Increased row material for sugar production
- No beet foliage in production process
Key benefits of ROPA Micro-Topper 2:

4. Benefits for ROPA Fahrzeug- und Maschinenbau GmbH:
- Most content beet growers
- Most content machine owners
- Most content sugar factories

Let`s go harvesting!