

www.grimme.com

Lelystad (NL)
14-10-2010



GRIMME
HARVESTING SUCCESS!

IIRB – Seminar

Technical improvements and future needs

Short Statements by Grimme Landmaschinenfabrik GmbH & Co. KG
49401 Damme / Germany



Speaker:
Roland Kratz
General Sales Manager
Sugar Beet Machinery Division

www.grimme.com

GRIMME
HARVESTING SUCCESS!

1. Statement:

There is not only ONE way of harvesting sugar beets in the right way

- Sugar business has become an international business on all stages of the production chain.
- The right level of mechanisation is not the same all over the „Beet-world“.

www.grimme.com

GRIMME
HARVESTING SUCCESS!

Egypt – Delta of the Nil – April 2010



A photograph showing three men standing in a field of harvested root crops. The man on the left and the man on the right are wearing red bucket hats with the Grimme logo. The man in the center is wearing a light-colored checkered shirt. They are all holding large, freshly harvested root crops with green foliage. The background shows a line of trees under a clear sky.

www.grimme.com

GRIMME
HARVESTING SUCCESS!


**South Afrika – Fish River Valley
June 2010**



A composite image featuring two parts. The top part shows a man in a brown jacket and a cap holding a large harvested root crop in a field. The bottom part shows a green tractor pulling a red Grimme harvester in a field of tall grass. The harvester is a large, complex machine with multiple rollers and a conveyor system. The background shows a clear blue sky and distant hills.



www.grimme.com



1. Statement:

**There is not only ONE way of harvesting
sugar beets in the right way**

Our Solution:
Grimme offers the widest range of different harvesting-systems, that matches the special needs of sugar beet growers world wide!

Some important basic parameters are:

- Cost of Labour
- Skill and motivation of drivers
- Skill of service technicians
- average field size
- Transport logistics
- Length of harvesting campaign
- Possible investment

www.grimme.com

GRIMME
HARVESTING SUCCESS!

2. Statement:

Different harvesting-systems –
equal quality parameters
for a successful beet harvest

a) Excellent topping or defoliating of the beet, to...

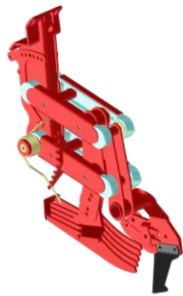
- ...prevent unnecessary weight losses during the harvest
- ...minimise weight and sugar losses during storing
- ...optimise the sugar production in the factory

www.grimme.com

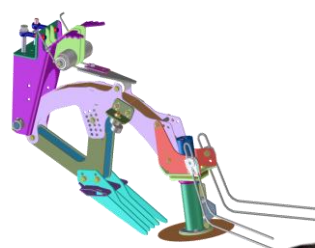
GRIMME
HARVESTING SUCCESS!

Our different topping / defoliating systems

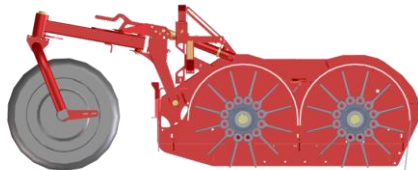
a) Standard knifftopper



b) Hydr. driven disk topper



c) All new compact defoliator



www.grimme.com



b) Effective and gentle cleaning

The MAXTRON 620 brought our whole knowledge of gentle cleaning into sugar beets!

State of the art roller cleaning system:

„As aggressive as necessary – As gentle as possible“



Unique:

- Full width cleaning with 13 PU & steel rollers
- Adjustable speed & distance
- Shiftable turning direction of 2 rollers
- More opportunities in a wide range of root crops!

www.grimme.com




After 8 years of world wide experiences we can offer nearly unlimited possibilities...



...to match the cleaning expectation of our customers in various crops and soil types!

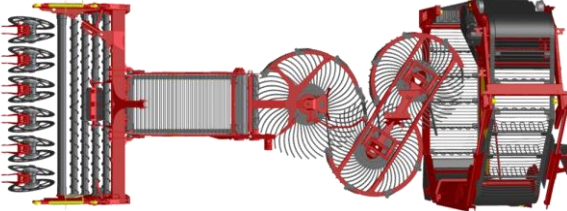
www.grimme.com



Cleaning section of REXOR 620 & Rootster 604

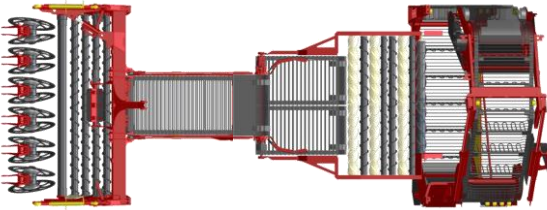
Turbine cleaning section:

- Easy to operate
- High cleaning capacity on heavy (and stony) soil types




Elective roller cleaning section:

- Very gentle
- max. flow capacity
- Recommended for lighter/sandy soil types



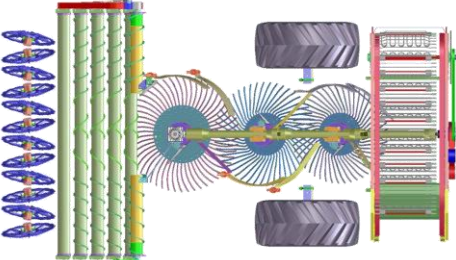
www.grimme.com



Cleaning section of REXOR 620 & Rootster 604

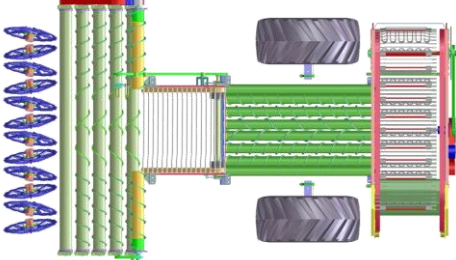
Turbine cleaning section:

- Easy to operate
- High cleaning capacity on heavy (and stony) soil types



Elective roller cleaning section:

- Very gentle
- max. flow capacity
- Recommended for lighter/sandy soil types



www.grimme.com



c) Soil saving field traffic

The MAXTRON 620 chassis, with a smart combination of tracks & high flotation tyres is unmatched in the prevention of subsoil compaction!




With a contact surface pressure to the ground of...

- ...1.75 bar at the back wheels...
- ...1.5 bar underneath the tracks...

...the MAXTRON with full bunker is far away from the limit of 2.0 bar, that the VDI-guideline 6101 recommends for harvesting on settled grounds.

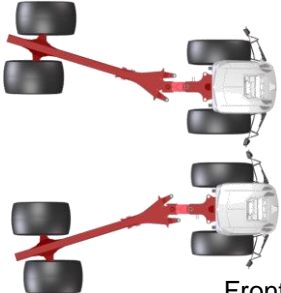

That was proven from different, independent institutes in Germany.

www.grimme.com



The REXOR 620...

- ...combined lightweight construction &
- ...high flotation tyres &
- ...load distribution via crab-steer chassis

Front axle tyres: 800/75 R 32 with 1.9 bar inflation

Back axle tyres: 1050/50 R 32 with 2.0 bar inflation

www.grimme.com

**The simple way:
„Light“-version of a 6-row harvester!**



7,8t harvester

8t tractor

1,2t Front-Topper

www.grimme.com

3. Statement:




Machines are getting *smarter* –
not necessarily *bigger & heavier* !

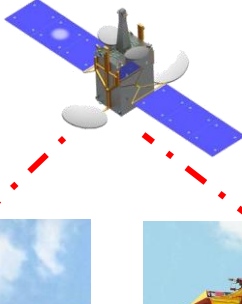


AGRIFAC



www.grimme.com




The Future: (Semi) Autonomous Systems



1 Driver
12 / 18 / 24 rows with
40 / 60 / 80 t bunker capacity

www.grimme.com



The next steps to that future:

- Even today our small sector within the agribusiness is far ahead in the use a fleet management systems and GIS-Data´s if it comes to harvest of beets our especially hauling the beets to the factory.
- Automatic row and headland guidance via row sensors and GPS-signals.
- Integrated expert-system to (1) guide the driver to the best possible machine setting, (2) respectively permanent optimising the machine settings on the go (and informing the driver).

www.grimme.com

There are exciting times ahead –



but first of all, we are looking forward to see YOU in the field tomorrow!

GRIMME
HARVESTING SUCCESS!