1. Statement:

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

a. Sugar business has become an international business on all stages of the production chain.

b. The right level of mechanisation is not the same all over the „Beet-world“.
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
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

Our different topping / defoliating systems

a) Standard knife topper
b) Hydr. driven disk topper
c) All new compact defoliator
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!

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!
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
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.

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

7,8t harvester
8t tractor
1,2t Front-Topper

3. Statement:
Machines are getting smarter – not necessarily bigger & heavier!
The Future: (Semi) Autonomous Systems

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

The next steps to that future:

- Even today our small sector within the agribusiness is far ahead in the use of 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).
There are exciting times ahead – but first of all, we are looking forward to see YOU in the field tomorrow!