

A NEW FORM OF BEET COSSETTES – THE WAY TO GET AND BENEFITS

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The capacity and stability of beet sugar plant's functioning depends mostly on the work of diffuse device which is sensible to the beet cossettes' quality. We get cossettes from beet slicers reducing suger beets by diffuser knives. That's why knives' form, type and derived cossettes play an important role in suger production.

We offer a new way to get cossettes of triangle slicer, which is more beneficial than other forms. This type of cossettes is obtained in the following way: knives' of keningsfeld type under the angle with a top of 60° are set in the first row of double-row knife chassis. Knives with flat cutting edge, are set in the second row.

The process of beets cutting occurs in the following way: cossettes of triangle form and ribbed surface in the beet's body are obtained after the first row of knives, the next row of knives cuts off this ribbing in triangle cossettes, alining the beet's surface.

The application of such types of knives and described above composition of roots' mixture during cutting by no means influence the beets cossettes' quality.

Beet's cossettes benefits of triangle diametrical cut comparing with diamond-shape are following: bigger maximum moment of resistance against bend, bigger surface of diffusion and lesser minimum distance of diffusion. It is evident, that saccharose will be obtained faster from triangle cossettes.

So, principal benefits of the offered way of obtaining cossettes are:

- the augmentation of strength to the bend and diffusion , reducing of the minimum way of diffusion;
- the roots' replacement during the process of triangle cossettes' obtaining by no means influence its quality;
- offered composition includes an application of 50% of flat knives, which are simple in producing and the service and have a law price;
- the capacity augmentation of beet slicer in 10%;
- the angle with a top of 60 and offered way of triangle cossettes' obtaining can be used in all types of beet slicers.

KEY WORDS: beet cossettes, beet cutting knives, diffusion, cutting