Smart Slicing System
The goal of the entire beet slicing system is to produce the best possible, consistent cossette quality throughout the campaign. The sugar factory has a modern slicing system when using Putsch® TSM series slicers combined with Putsch® knife blocks: a wide variety of adjustment possibilities allows an excellent adaptation to various beet conditions (fresh, stored, deteriorated or frozen). Nevertheless, the cossette quality changes over the runtime of the knife blocks.

**Customer value**
The new Putsch® smart knife blocks, including the corresponding, retrofittable evaluation units, are part of the future-oriented Putsch® Smart Slicing System, consisting of the slicer (TSM), knife refurbishing machines and Putsch® smart knife blocks.

The use of the Putsch® smart knife blocks is an effective way to produce consistent and uniform cossettes. In addition, the cossette quality is improved. Extraction, pulp pressing and drying are thus further optimized.

### Your Advantages
- The use of the Putsch® smart knife blocks is an effective way to produce constant and uniform cossettes.
- Extraction, pulp pressing and drying are, thus, uniformly operated.
- Change of selected Putsch® smart knife blocks, eg. every second, third one (depending on the slicing regime of the factory). Changing the Putsch® smart knife blocks, which have the longest runtime, is also possible.
- Error message if an incorrectly configured or incorrect knife block is used.
- Effective clamping plate utilization through regular configuration change (ABA block becomes BAB block).
- Evaluate the runtime of each Putsch® smart knife block (eg. when changing knife blocks).
- Storage / tracking of data according to customer requirements.
- Simplified assignment of Putsch® smart knife blocks to the respective slicing machines when operating different extraction systems.

As a result, a large number of desired operating parameters can be collected, monitored and evaluated. The consistent use of the Putsch® Smart Slicing System results in optimized sugar production.

Of course, existing Putsch® TSM slicing systems can be retrofitted with a smart slicing evaluation unit.

### Cossette quality vs. knife block runtime

The graph shows the improved cossette consistency when using partial knife block changes with the Putsch® Smart Slicing System.

![Cossette quality vs. knife block runtime graph](image)
Smart Drum Slicer TSM

Extraction Tower

Stord Twin Screw Press

Smart Knife Block
Beet Knives

Putsch® Integrated Automation PIA

Automatic Knife Routing
and Filing Machine MSA

Automatic Knife Routing
and Filing Machine MSA

Automatic Knife Straightening
and Grinding Machine ASR

Automatic Knife Straightening
and Grinding Machine ASR

Beets / Cossettes / Pulp

Smart Knife Blocks

Beet Knives

Data
For explanation purposes, some machines and equipment are illustrated without the necessary safety systems.

We would therefore like to express that all machines and components must be operated according to the manual and safety instructions at all times.

Some of the machines and equipment shown in this brochure are featured with optional components available at additional cost.

Descriptions and technical specifications correspond to those valid at the time brochure is released for printing. Subject to change.

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