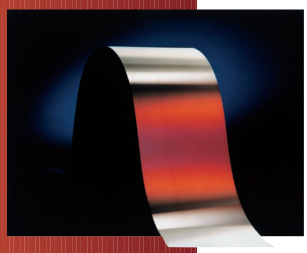


Graphite station

To ensure the best working conditions at high temperatures such as in ovens and presses, solid steel belts require graphite to be deposited on the inside of the belt at regular intervals, for the following reasons:

- to decrease friction between fixed parts and the belt in order to avoid mechanical damage to the belt surface (i e scratches, abrasions) which could cause permanent deformations
- to protect the inside from oxidizing (rust)

Deposition graphite on the belts is often carried out by means of a suspension of colloidal graphite in water. This is time consuming, requires careful manual application of the suspension on the belt, a careful drying process and final meticulous cleaning of the belt itself. All these activities are based on the experience of the maintenance personnel. In addition, too much or too little graphite combined with nonhomogeneous application can cause production problems (for example, too much graphite can cause build-up on skids or pulleys resulting in tracking problems.)

Sandvik Process Systems

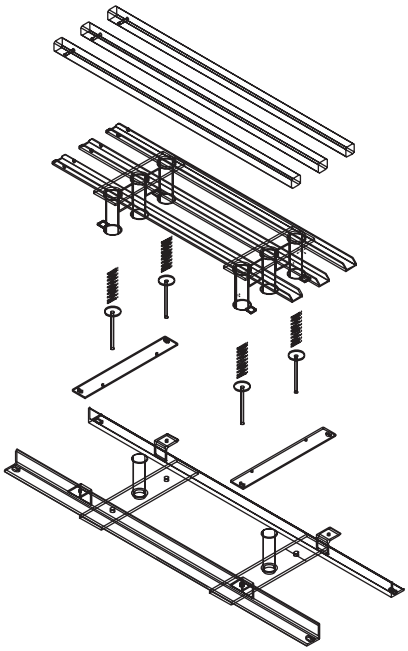
has designed a graphite station that allows a homogeneous and gradual deposit in a continuous, automatic way.

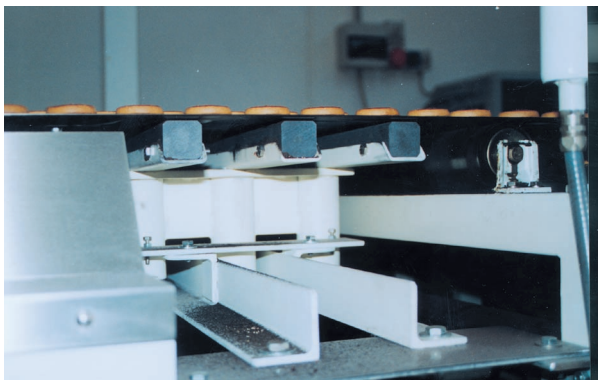
Graphite skid bars having a proper granularity and hardness are installed on a suitable supporting structure becoming the graphite station.

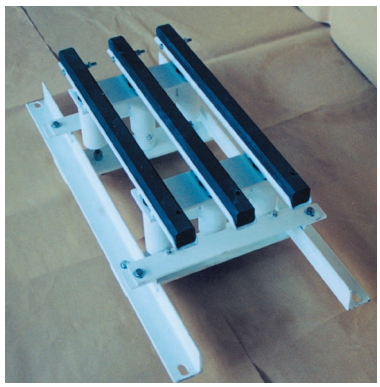
The graphite station can be installed close to the terminal drums in order to allow easy access for inspection. The structure is installed on springs to ensure constant contact between the graphite skid bars and the steel belt. The structure can easily be adapted to the existing framework of the oven or the press.

The graphite station is also equipped with a safety device that avoids contact between the belt and structure when the graphite skid bars are worn down.

Installation of the graphite station is also recommended for bake ovens equipped with water cooling stations as the layer of graphite reduces oxidation of the steel belt.







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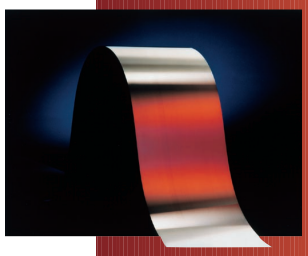

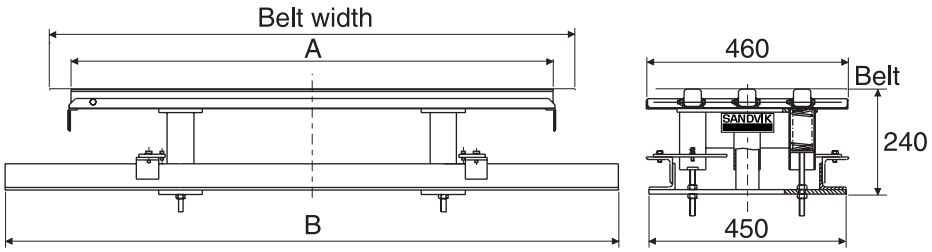

Belt width (mm)	A Graphite skid bar length	B	Width	Height
600	500	800	460	240
800	700	1000	460	240
1000	900	1200	460	240
1200	1100	1400	460	240
1500	1400	1700	460	240

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