NGS STEP

IS PREDESTINED FOR THE FOLLOWING PRODUCTS

- Toast bread
- Soft rolls on sheets
- Hard rolls on sheets or proving boards
- Baguettes and baguette rolls on sheets or proving boards
- All randomly placed types of bread on sheets or proving boards
- Rye and whole-wheat breads in moulds

SALES

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We have additional subsidiaries in France, Italy, Belgium, Austria, Russia and USA.

Representations with service outlets are also present in all regions of the world.

WP BAKERYGROUP

- Werner & Pfleiderer Bakery Technologies
- Werner & Pfleiderer Industrial Bakery Technologies
- Werner & Pfleiderer Bakery Cooling
- Werner & Pfleiderer Instore Baking
- Werner & Pfleiderer Service
- Haton
- Kemper
- Winkler
- ProFit2
- Backnet

NGS STEP

VARIABLE PROVING TIMES FOR SHEET AND TIN PRODUCTS

NGS-E-09-06

HORSTMANNGROUP

Werner & Pfleiderer
Industrial Bakery Technologies

Doughlets on the sheet

Doughlet in the tin

EASILY VARIABLE

New plant concept for variable proving times and process safety

The NGS STEP takes an easier route: only from the top down. No more production losses through collisions and defective transfers. The new concept also allows variable proving times through different level occupancy.

Advantages at a glance:

- Simple transport technique, produces high operational safety
- Little space required
- Variable proving times
- Various proving product carriers possible (tin assemblies, sheets, proving boards)
- Optimum air-conditioning by way of climate columns
- Maximum hygienic standard
- Low maintenance required

Process safety
The NGS STEP consists of only one section. Through the "One single track method" the proving product is only directed in one direction. Loading takes place at the top, removal at the bottom. The known transfer problems are consequently avoided. The proving process is not interrupted through necessary machine stoppages.

Very even air-conditioning
The NGS STEP guarantees absolutely uniform moisture and climate distribution. Climate columns evenly supply the pre-selected climate. By way of suitable climate modules it is possible to supply both heat and refrigeration.

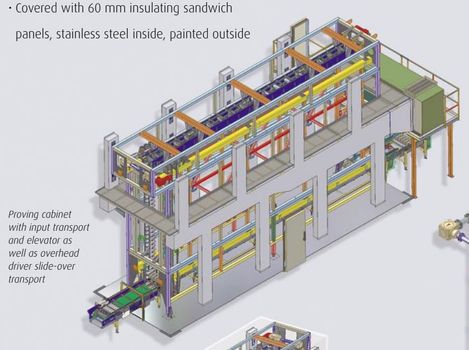
Variable proving times
Through different occupancy of the levels and variable speeds it is possible to vary the proving time.

Loading
Loading is by way of systematic input transport, elevator and slide-over transport with driver from the top.

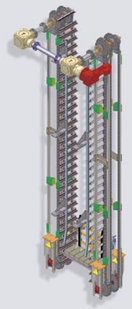
NGS STEP – OPERATION

The proving cabinet provides walk-in access from both sides. Air-conditioning is by way of a circulating air-conditioning system. Moisturisation and controlled temperature by way of circulating air operation.

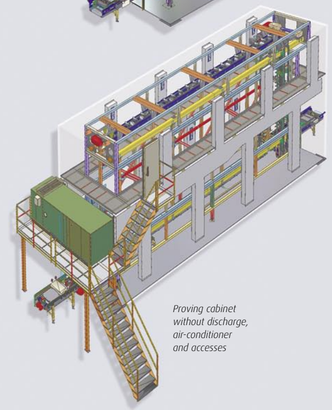
- Support structure made of rectangular stainless steel tube profiles
- Mounting brackets made of stainless steel
- Insulating floor panels made of stainless steel
- Covered with 60 mm insulating sandwich panels, stainless steel inside, painted outside



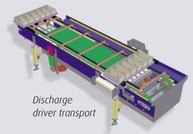
Proving cabinet with input transport and elevator as well as overhead driver slide-over transport



Individual mould elevator, speed control via frequency converter



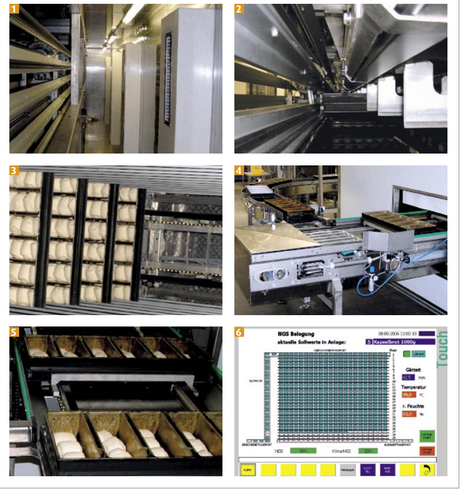
Proving cabinet without discharge, air-conditioner and accesses



Discharge driver transport

The proving cabinet is designed for variable proving times. This is accomplished by way of the number of moulds clocked-in per level. One mould each is pushed onto an up-indexing elevator. Once the mould has reached the upper position it is pushed off horizontally by a driver transport engaging from above and transported to the proving levels by way of an intermediate conveyor. The proving levels consist of two angle rails made of stainless steel each secured on chains in parallel. Once the desired number of moulds per level has been reached (depending on the desired proving time) the entire assembled mould line is lowered one cycle. A new mould line can be assembled. Once the mould lines have been indexed down a complete line is lowered onto a two-track driver transport at a time and discharged from the proving cabinet.

INGENIOUS TECHNOLOGY



1 *Climate columns*
2 *Slide-over transport with driver*
3 *Proving levels from the top – down driver discharge transport*
4 *Systematic mould input*
5 *Mould input*
6 *Touch control pad with visualization*

Features
- Individual mould elevator
- Level movement only downwards
- Efficient circulating air-conditioning via climate columns
- Maximum hygienic standard
- Proving time can be selected via program

Proving product carrier
- Mould assemblies
- Mould sheets
- Smooth sheets
- Proving boards
- Carrier systems with plastic moulds

Loading
Systematic input by means of driver feed transport, elevator, transfer transport, systematic charging driver transport for level filling top level.

Unloading
Systematic discharge by way of driver transport at the bottom level.

Air-conditioning
Circulating air-conditioning by way of plastic climate columns. Circulation by way of air-conditioning modules (heating, refrigeration, moisture).

Safety
Mould position control and monitoring through driver transport. Overflow protections on input transport, elevator, transfer and slide-over transport by means of limit switch. Double safety query of the assemblies at the discharge transport by way of light barrier and load.