Making our world more productive

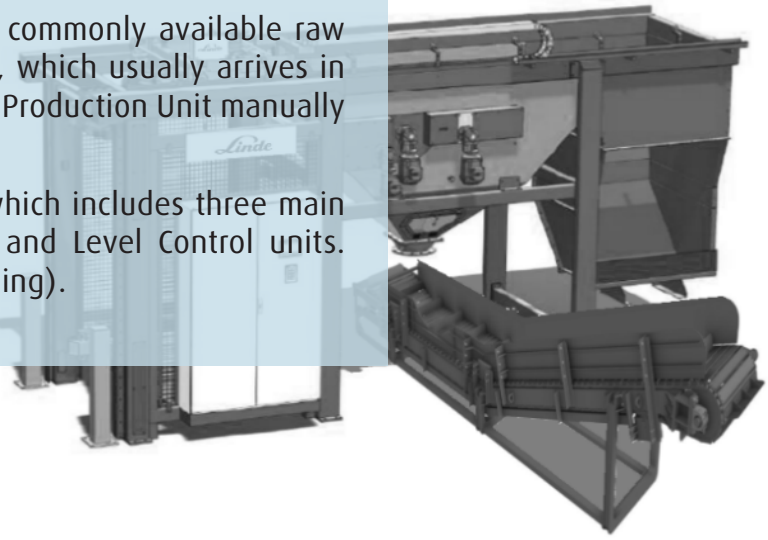
additional equipment

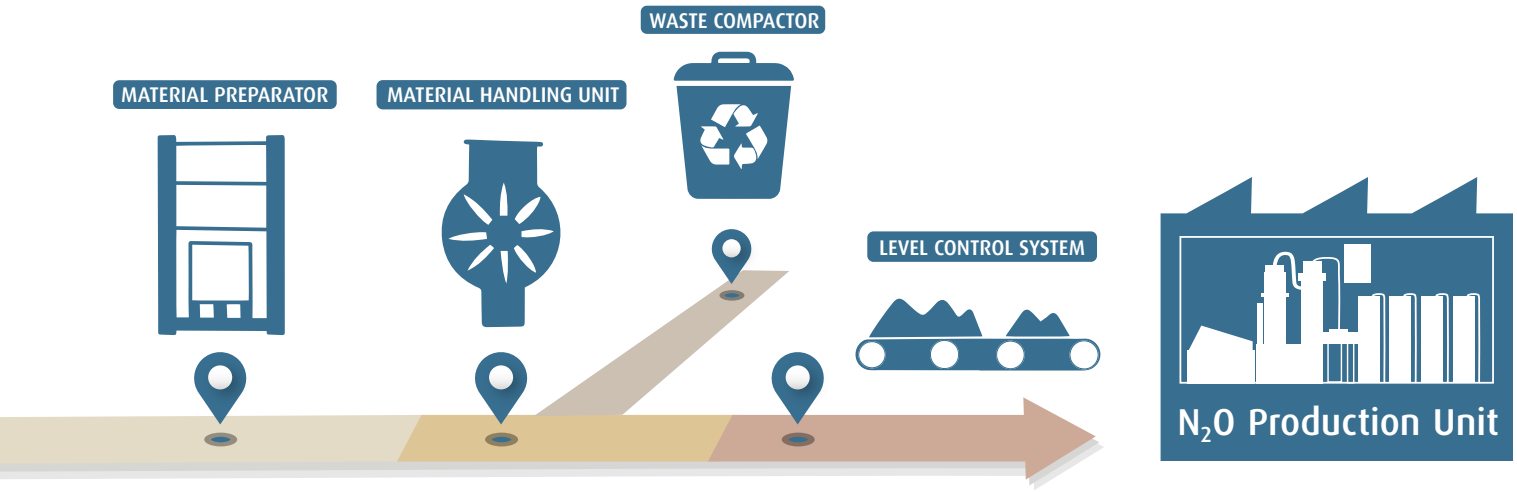
Solid Ammonium Nitrate Feeding

Easier handling and cost-saving

For Nitrous Oxide production plants, the most commonly available raw material is the Solid Ammonium Nitrate (SAN), which usually arrives in small bags on palettes and loaded into the N_2O Production Unit manually by hand/ Feeding Cart.

Now Linde introduces the SAN Feeding Unit, which includes three main units: Material Preparator, Material Handling and Level Control units. Further options are available (e.g., waste handling).





Material Preparator

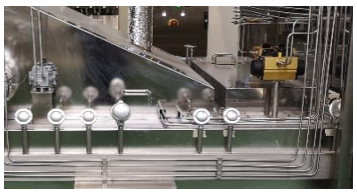
After the forklift loaded the SAN palette into the Material Preparator's Loader Cage, no more physical intervention is required as the raw material will be fully prepared for the loading process.

Material Handling Unit

The processed raw material will be loaded and fed (by portion) by the Handling Unit into the Melting unit of the N_2O Production plant. This unit is specifically designed based on local circumstances.

Level Control System

The feeding process is controlled by the Level Control System, which is integrated into the central control PLC. The Unit contains the required instruments and integration.



Waste Compactor Unit

The emptied bags can be collected and handled by the Compactor Unit, in such a way reducing waste and material handling issues.

What can we offer?

- Complete SAN feeding system.
- Modular handling unit.
- Plant control system integration.
- Automatized feeding process.
- Less manpower requirement (up to 50% savings).
- Increased health and safety.
- Optional monitoring system.
- Optional additional functions like Water and Di-Ammonium Phosphate (DAP) feeding.

Why choose us?

- Fully automatized process.
- Operating cost reduction by elimination of manual work.
- Lower environmental pollution impact.
- Outstanding quality (components and implementation).

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