

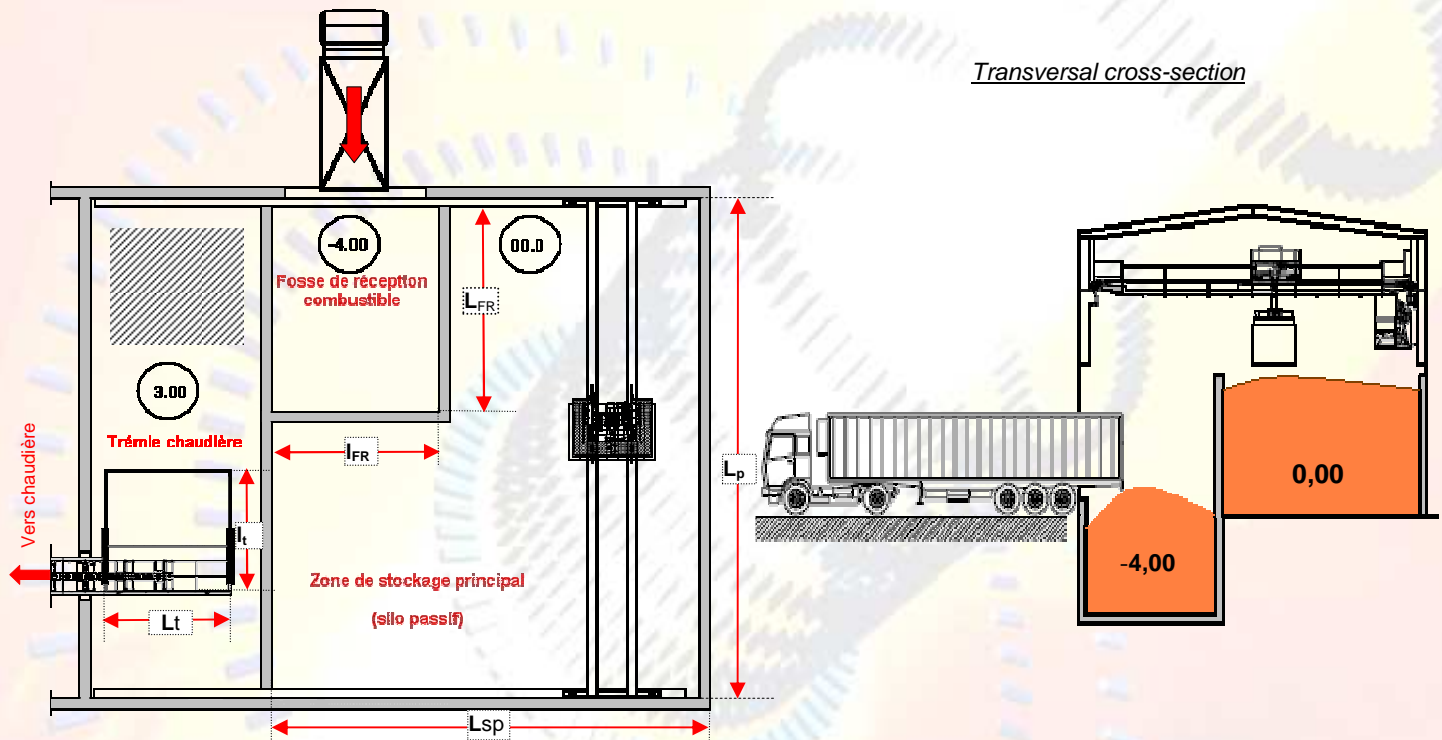
AUTOMATIC HANDLING BY OVERHEAD CRANE WITH GRAPPLE*FURNACE SUPPLY HOPPER - CAPACITY 10 M3*

This type of equipment is used for silos with a capacity greater than 4 or 500 m³, limited to power levels of 2,500 kW and using branch chip fuel.

1. GENERAL PRINCIPLE

The system comprises the following elements:

- One fuel reception area,
- One storage area (passive silo),
- One furnace hopper with integrated conveyor system, with capacity 10 m³

2. LAYOUT CONFIGURATION No. 2**3. LAYOUT DIMENSIONS**

L_{FR} : Length of the fuel reception pit	m	6
I_{FR} : Width of the fuel reception pit	m	6
Level of the fuel reception pit	m	- 4
Grapple drop area		
L_p : Width of the main storage silo	m	15 à 17
L_{sp} : Length of the main storage silo	m	variable
Level of the fuel storage silo	m	0
L_t : Length of the furnace hopper	m	3,5
l_t : Width of the furnace hopper	m	2,5
Level of the furnace hopper	m	+ 3

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The guard rails for the doors to the fuel unloading areas are not supplied; however, there are guard rails that are controlled by the overhead crane's PLC.

4. ADVANTAGES / DEFAULTS**ADVANTAGES**

- Large storage capacity / substantial autonomy

DEFAULTS

- High building,
- Structural integration,
- Greater operating constraints
- Low capacity of the furnace supply hopper

5. DESCRIPTION OF THE EQUIPMENT**Fuel reception pit**

This area is dimensioned to fit the capacity of the fuel delivery trucks. It must be closed and actively secured when the grapple is operating in automatic mode.

The crane empties this unloading area automatically after each delivery.

Main storage area (passive silo)

This area is dimensioned to store fuel in quantities that correspond to the project's desired level of autonomy.

The overhead crane fills this area by distributing the fuel over the whole storage area surface.

Drop areas are memorised by a PLC, which controls fuel collection operations so as to prevent the creation of areas of ageing fuel.

Furnace hopper

Hopper dimensions are designed to hold the grapple capacity at least.

The overhead crane must keep the hopper regularly supplied in order to ensure maximum safety levels for furnace operation; this area is filled mainly by return journeys from either the unloading pit or the main area.