

# Welcome to the Presentation on Storage Silos

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# Storage Silos

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PRESENTATION BY

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# What is a Silo?

**A Silo is a structure for storing bulk materials. Materials such as food grains, cement, wood chips, coal, and several others can be stored in a silo. Silos keep the grains safer for longer period and used the less area but provide higher capacity**



# Types of Storage Silos

DEPENDING ON THE RAW MATERIAL TO BE STORED, THE TYPES OF SILOS VARY AND ARE CLASSIFIED INTO 3 TYPES: TOWER SILOS, BUNKER SILOS, AND BAG SILOS.

## What is Silo?



Modern Silo Storage Facilities



Bunker Silo



Bag Silo

- ❑ Long time back Farmers used to store their grain in Bulk in a Big Pit or Tower or a Big Tank on their farms which was called Silo.
- ❑ In the modern definition Silo is a Structure for Storage of Bulk Materials
- ❑ Silos are more commonly used for bulk storage of grains, coal, cement, woodchips and sawdust etc.

# Silos Manufacturers

## Top players include

- Acterra
- Superior Grain Equipment
- Bentall Rowlands
- Silos Crdoba
- Sioux Steel
- TSC
- SCUTTI SRL
- CST Industries
- Symaga
- Kotzur



**LF&E**  
Temperature. Controlled

10  
Years  
2008 - 2018

Temperature  
Controlled  
Specialist  
Supply Chain



**Silos  
Supply Chain  
Management**

# Coal Silos



The technology of silo storage for coal is often used in power plants and coal mines. Concrete silos and steel silos are both usually used as coal storage silos. A concrete silo requires a long construction period and high investment, but a steel silo can be quickly built with less budgets.





# Fly-Ash Silos

## *Flyash* Silos



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materials or liquids  
small capacity

medium capacity  
or different bulk materials



**Safety**  
**Cement, Lime**  
**Gypsum**

# Why are spherical tanks stored in LPG?



**Spherical shape have the least surface area to volume ratio when compared to any other shape. ... Spherical shape also helps in neutralizing pressure coming from all directions, this makes it more stable. Also the thickness required for spherical tank to withstand same pressure is less than any other shape**



# ***Grain Storage Silos Market***

The grain storage silos market is expected to register a CAGR of 5.6% during the forecast period (2019 - 2024). North America is the biggest and the leading region in using grain storage silos. It is calculated that the total permanent off-farm grain storage capacity of the United States in 2016 was 11.07 billion bushels.



QUESTIONS?

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