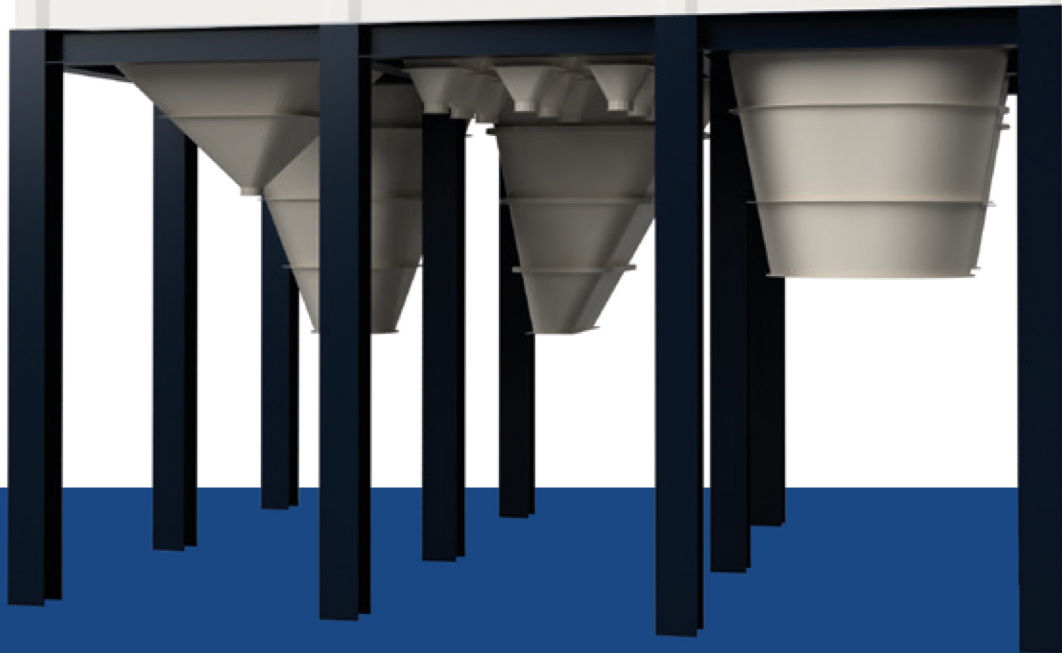




# SETS THE STANDARD IN SQUARE SILOS



**HOPPERS**  
ALWAYS THE BEST-FIT DESIGN FOR YOUR PROJECT

[TSC-SILOS.COM](http://TSC-SILOS.COM)

As the characteristics of all bulk materials are different,  
the best-fit hopper design will always differ.

To ensure the best possible solution for each product, we at TSC have a wide range of hopper designs. And each of these designs is customized based on the clients needs and wishes to ensure the best storage and outflow solution for your project. This involves looking at the best flow, but also the most economical solution.

## Overview of different hoppers



Classic  
Square



Classic  
Round



Speedwell  
Hopper



Bolted  
Hopper



Multi Outlet  
Hopper



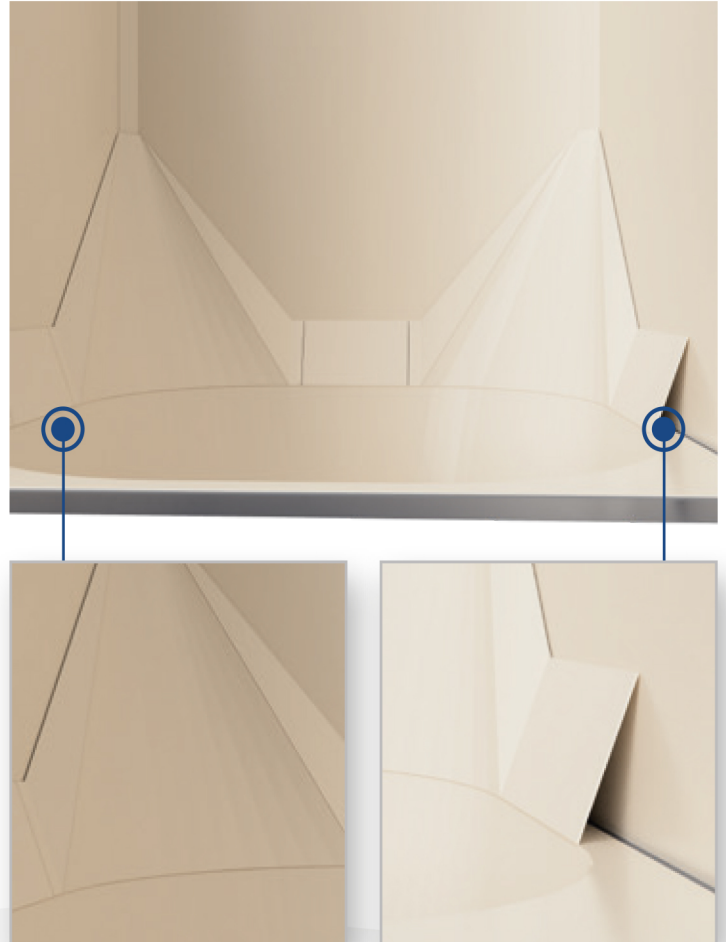
Personalized  
Options

# SLANTING PLATES

Slanting plates play a crucial role in square silos. The slanting plate ensures an optimal transition from the silo wall to the hopper.

Determining the right hopper angle for the stored product is decisive for proper product outflow. At least as important here is the slanting plate to make the transition from the wall to the hopper.

We determine how to apply the slanting plates depending on the product's flow characteristics. The slanting plates can vary in height and, therefore, steepness and the way the slanting plates overlap the corners. Proper slanting plates provide a smooth outflow and ensure no blind spots where the product can be left behind.



# CLASSIC SQUARE

The **classic design hopper** is well suited to free-flowing grain, pellets and other bulk materials. It is the most straightforward design. It is also suitable for a variety of geometries for connecting devices, such as feeder augers, valves and hatches. It is the classic choice for all kinds of materials.

Some products are special and only the user knows how best to handle their flow. If you know exactly what you want and the standard does not meet your requirements, we are happy to design and build it for you.

## MAIN BENEFITS



Flexible with eccentricity



Easy to customize and suitable for small cells



Rounded corners for restless flow

## COMMON APPLICATION



GRAINS



PELLETS



GRANULES





# CLASSIC ROUND

The **classic design hopper** is well suited to free-flowing grain, pellets and other bulk materials. It is the most straightforward design. It is also suitable for a variety of geometries for connecting devices, such as feeder augers, valves and hatches. It is the classic choice for all kinds of materials.

Some products are special and only the user knows how best to handle their flow. If you know exactly what you want and the standard does not meet your requirements, we are happy to design and build it for you.

## MAIN BENEFITS



Straightforward design



Suitable for a wide range of materials

## COMMON APPLICATION



GRAINS



MASH FEED



GRANULES



# SPEEDWELL

For flour and bran-like products, **the Speedwell hopper** is the best-fit design. With its round shape, large angles and small stiffeners, the design can easily reach angles of 70° to 75°. This ensures mass flow of more difficult-flowing products. In addition, the design is also suitable for the use of vibro-bottoms.

The round shape not only enables steeper hopper angles, but also reduces the need for heavy stiffeners on the hoppers. This means that this design is also often the lightest and most cost-effective design for larger silos.

## MAIN BENEFITS



Ensures mass flow



Most cost-effective design for larger silos



Suitable for powder-like products



Suitable for vibro-bottoms

## COMMON APPLICATION



FLOUR



BRAN



MINERALS



# MULTI OUTLET

Storage of some products, requires a different outflow. For example, for products with a short shelf life or where the timing of the process is very important. You do not want some of the good to stay longer in the silo than others.

**The multi outlet design** offers the best guarantees for first-in-first-out handling in your bulk storage, and ensures no product remains between the hoppers. Application asked, among others, by wheat tempering

## MAIN BENEFITS



Accurate dosing time



Consistent flow throughout the cell.



First-in-first-out requires little height



## COMMON APPLICATION



WHEAT



TEMPERED WHEAT

# BOLTED HOPPER

A special derivative of the classic hopper design is our **patented\* bolted hopper**. This bolted hopper is an innovative approach to building square silos with seamless integration of the hopper with the structural column without on-site welding. Further benefits include reduced installation time, no work permits required and no damage to protective layers. The installation can be carried out with minimal impact on factory operations.

The bolted hopper is not always applicable, but is certainly ideal for high value products such as coffee and cocoa.

## MAIN BENEFITS



Seamless integration without welding



Reduced installation time on site



Allows production to continue during construction

## COMMON APPLICATION

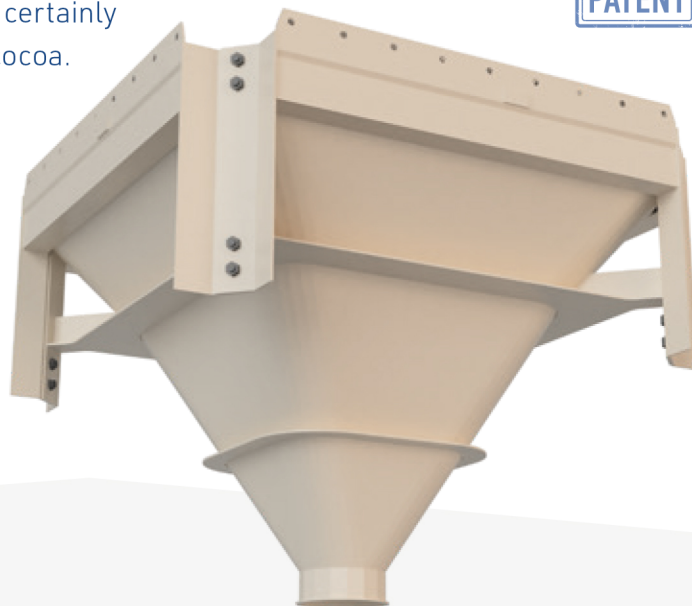


COFFEE

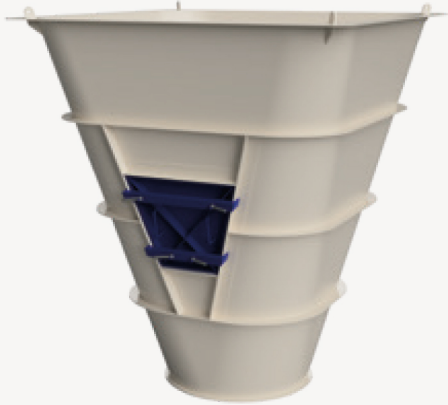


COCOA

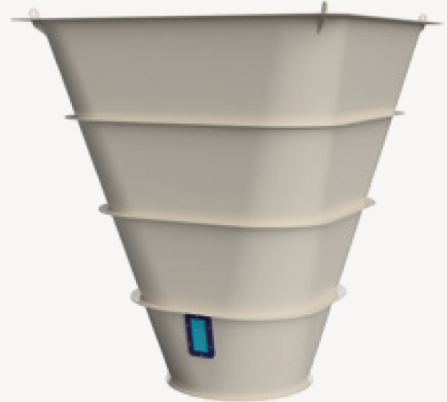
PATENT



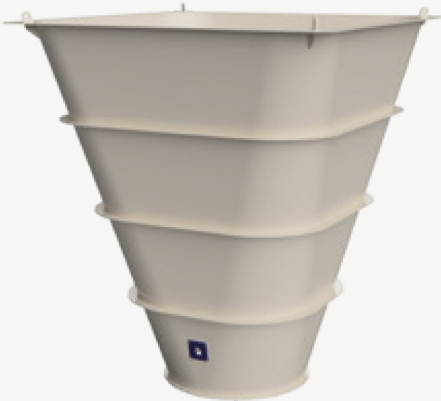
# PERSONALIZED OPTIONS



☐ INSPECTION OPENING



☐ INSPECTION WINDOW



☐ SOCKET FOR EMPTY SENSOR WITH PROTECTION ROOF

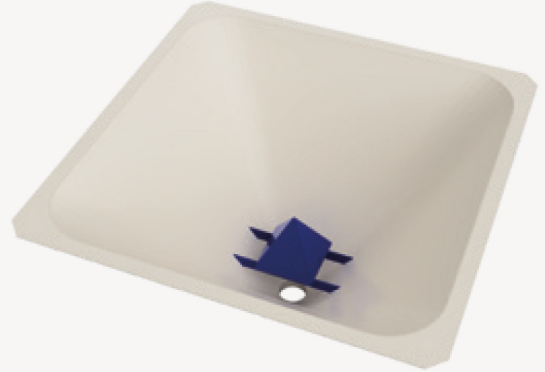


☐ POKE HOLE

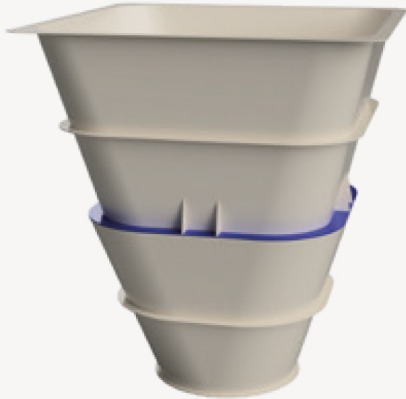
# PERSONALIZED OPTIONS



☐ AERATION, GAS OR CO2 SOCKET



☐ PRESSURE RELIEF CONE



☐ EXPANSION STEP



☐ AIR DUCT



# SETS THE STANDARD IN PRODUCT OUTFLOW

## HOW CAN WE HELP YOU?



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