

Science of Seed Processing

General

Brand	Saat Technologe
Designation	Square Silos
Model	SS Series
Application	Weighing a flow of products into batches.

Indoor Square Silos are designed and manufactured for food processing and or industrial plant product storage purposes.

Saat Technologe designs, and manufactures helper equipment for square silos usage purposes i.e., product feeding elevators, product easy down, capacity sensors, mechanical outlet valves, pneumatic valve outlets, capacitive measurement outlets, second outlet (for big bag filling i.e.) magnetic feeders, cooler and heaters, air ventilator.

Wall Sheets for the bins are manufactured from suitable material for customer demand hot galvanized steel sheets, Stainless Steel, Owen Coated Painted ST 37 Carbon Steel Sheets which are Laser Cut for maximum rigidity obtained. Accurate processes on the production line ensure a tight fit and easy erection. Depending on wall element length and what total height bins will have to be, different sheet thicknesses have to be selected.

Sensor

Capacity or level sensors can be designed and supplied as an option with silos. Capacity or level sensors can be designed and supplied as an option with silos.

Inspection Window

The acrylic window allows visual inspection of the level of stored product.

Tie Rods: By using tie rods, larger bins can be supported. This is done by installing steel pin supports across to walls. They are delivered in corresponding lengths to the wall sheets.

Loadcells

Weighing of stored goods in Silo and using this data is an available feature.



Corner Posts:

Corner posts are available in 2 designs according to the illustrations.

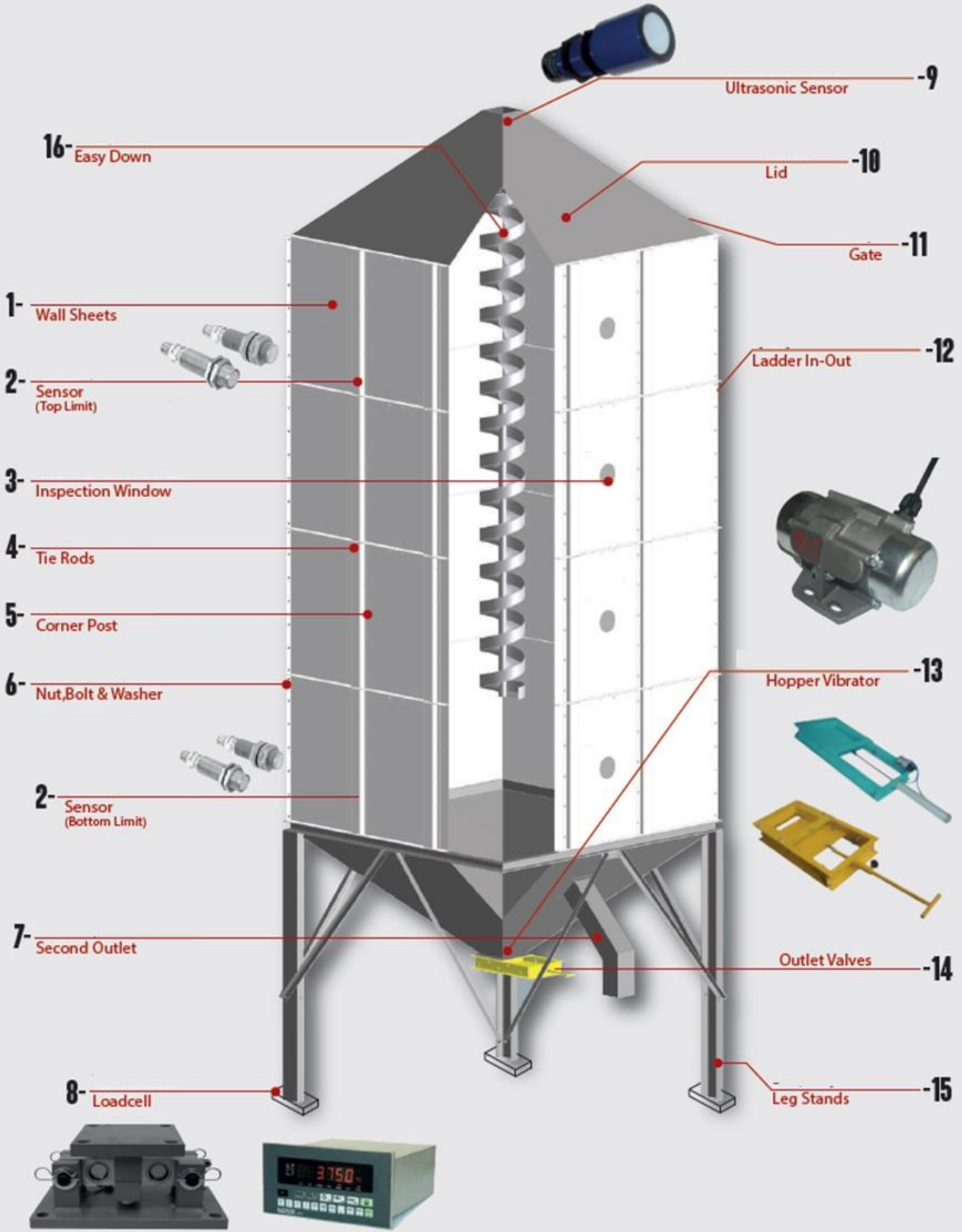
Type 1- where four walls are jointed together with Nut Bolt and Washer Joints Type 2-Square profile steel bars welded where four walls are jointed together. The posts are available as standard painted or hot-dipped galvanized. Apart from the standard posts above, there are several posts for special purposes, for instance, when hoppers are fitted.

Nut, Bolt & Washer

Bolts, washers, and Nuts are used for assembling the wall part and joining corner posts and wall sheets, flanged bolts M8 and nuts galvanized, are used No washers are necessary because of the flanged nuts. This gives an easier erection.

Second Outlet

Easy discharge of excess product from the silo into i.e. a big bag, elevator hopper, or conveyor belt.



Ultrasonic Sensor

Ultrasonic Sensors measure the distance or presence of a target object by sending a pulsed ultrasound wave at the object and then measuring the time for the sound echo to return. Knowing the speed of sound, the sensor can determine the distance of the object and the distance measurement is equal to the capacity used in the silo.

Lid/Cover

The Silo lid keeps the stored product safe from external contamination possibilities. Safe and Healthy Storing at maximum.

Lid/Cover Entrance

Provides Entrance for operator inside of Silo for cleaning, service and maintenance.

Ladder Outside and Inside

Provides access inside of the silo for cleaning, service, and maintenance.

Hopper Vibrator; Developed to facilitate flow from bins and hoppers on all types of materials, including large aggregate and sand, fine powders, flakes, pills, bottle caps, and just about any material that tends to stick or clog inside a silo.

Outlet Valves

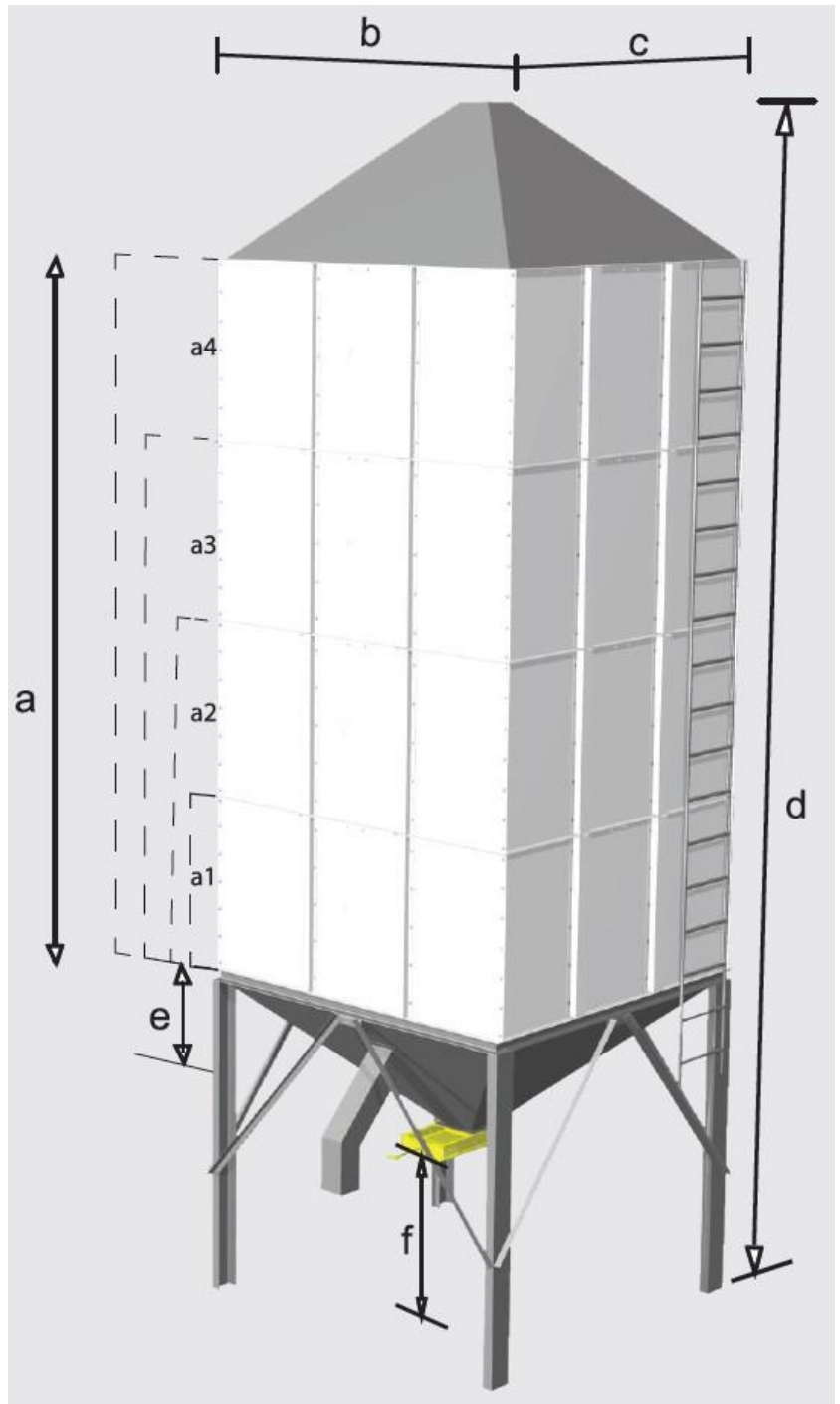
Silos are supplied with manual operated outlet valves in its standard for product/seed discharge control system. As an option manual operated ball bearing equip outlet valves or auto controlled pneumatic outlet valves are available upon request.

Support Frames/Legs

According to required discharge heights Support Frames designed and provided suitably.

Easy Down

For fragile seeds, free fall speed is reduced with 'Easy Down' feature, located in the center of inner Silo starting from intake and to the bottom of the silo.



Dimensions

Silo Height	a
Silo Length	b
Silo Width	c
Eave Height	d
Cone Height	e
Discharge Height	f

	SI32-1000		SI32-1200		SI32-1500		SI32-2000		SI32-2400		SI32-3500		SI32-4000	
Tüm Ölçüler mm	b	c	b	c	b	c	b	c	b	c	b	c	b	c
All dimensions in mm	1000	1000	1200	1200	1500	1500	2000	2000	2000	2400	3000	3000	4000	4000
a1	1000		1000		1000		1000		1000		3500		1000	
Kapasite Capacity axbxc = ...m³	1		1,44		2,25		4		4,8		31,5		16	
a2	2000		2000		2000		2000		2000		2000		2000	
Kapasite Capacity axbxc = ...m³	2		2,88		4,5		8		9,6		18		32	
a3	3000		3000		3000		3000		3000		3000		3000	
Kapasite Capacity axbxc = ...m³	3		4,32		6,75		12		14,4		27		48	
a4	4000		4000		4000		4000		4000		4000		4000	
Kapasite Capacity axbxc = ...m³	4		5,76		9		16		19,2		36		64	
Addition ilave	+		+		+		+		+		+		+	
Kapasite Capacity	KONI / CONE		KONI / CONE		KONI / CONE		KONI / CONE		KONI / CONE		KONI / CONE		KONI / CONE	
Kapasite Capacity	0,5		0,72		1,125		2		2,4		6,75		12	

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