

# CROWN – SILO BAGS

Crown Silo Bags are made of a seven-layers of Blown extruded technology with various polymers to achieve the best quality Silo Bags (Polyethylene) about 125-500 microns, with anti-slip and antistatic properties. We can also produce flame retardant silo bags.

The outer layer is white with UV protective coating while the inner layer in contact with the grain is black.

The diameter of 5-18 feet and to any length of 200 meters and above. Customisation is our speciality. Every Bag is folded with an automatic folding machine.



Images used are for representative purpose only



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## Application of Crown Silo Bags

- Ideal for storing all kinds of grains, dried fruits, fertilizers, fodder, and other stuff.
- Sealed immediately after filling up, trapping the oxygen that's used up by the grains and produces carbon dioxide. The anaerobic condition prevents the formation of fungus or insects in the bags.
- Special machines are used to load and unload grains and other products from these bags.

## Advantages



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- Retains original quality and quantity of the products
- Ideal for long term storage
- Perfect sealing and anaerobic conditions expel insects and fungus growth within the bag.
- Protects the goods from adverse climatic conditions during transit.
- Lower investment costs
- Lower total annual costs

## SILO BAGS - SPECIFICATION

Sl No	Specifiacion	Units	Standard
1	Width	mm	In house
2	Thickness	micron	In house
	GSM		180 - 240
3	Tensile Strength - MD	Kg/cm <sup>2</sup>	ASTM D882
4	Tensile Strength - TD	Kg/cm <sup>2</sup>	ASTM D882
5	Elongation MD	%	ASTM D882
6	Elongation TD	%	ASTM D882
7	Dart Impact Method - B	Grams	ASTM D1709
8	COF - static		ASTM D1894
9	COF - kinetic		ASTM D1894
10	WVTR	gm/m <sup>2</sup> /day	ASTM F 1249

1. Three or five or seven co-extruded layers of polyethylene plastic film UV protected.
2. Sizes:
  - a. Diameter of 5 to 18 feet
  - b. Length of 200m and higher (inhouse automatic folding machine)
3. Capacity ranges from 180-250 tons or higher (for dry products)
  - a. Dry products: soft wheat, durum wheat, maize, sorghum, soybean, rice, barley, sunflower, oats, every grain product.
  - b. Wet products: grains of any kind, silage, biomasses, mush, by products of industrial processes, forage.

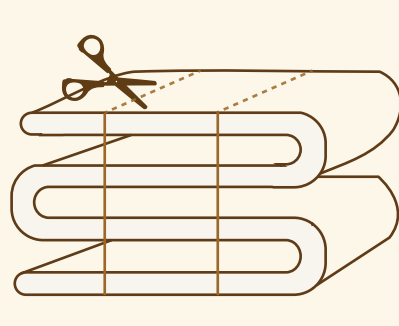
## SILO BAG - COMMON SIZES

Size	Thickness	Bags/ Pallet
9' x 200'	9.3 mil	8
9' x 250'	9.3 mil	6
10' x 250'	9.3 mil	6
10' x 300'	9.3 mil	6
10' x 500'	9.3 mil	2
10.5' x 500'	9.3 mil	2
12' x 200'	10 mil	4
12' x 300'	10 mil	4
12' x 400'	10 mil	2
12' x 500'	10 mil	2

Can produce to customised sizes

## Silage Bags Mounting Instructions

1. Take out the SILO bag from the box.
2. Cut the blue cords taking care NOT TO CUT the white cords.
3. Open, unfold and lay it out flat as shown.



4. Place the bag right between the backstop and the tunnel, with the black folded edges facing the tunnel and the white edges facing the backstop.
5. Now mount the bag onto the machine pushing it far forward.
6. Rotate the bag, so the plastic is levelled on the holding pan under the tunnel with the logo facing the side of the tunnel.
7. Now remove all the remaining white cords.
8. Grab the plastic at the lower inside edge and pull out almost 8-10 feet of the bag. In the case of grains, the bag has to be pulled from the outside edge.
9. Now attach the stretch rope and seal the free end.
10. Ensure that the bag is not binding on the machine, the rope and pan are well fastened.
11. Also ensure the 'stretch bars' with the filled bag DO NOT exceed 11" in height.
12. Extra room will be needed for expansion.
13. The RED rape you see near the logo indicates that 5 folds remain until the end of the bag.
14. On completion of filling seal, the open end immediately.
15. Now vent the bag quickly with a 3" to 4" strip of repair tape on the finished end.
16. Make a 1-inch 'X' through the tape and bag and let it vent for 2 to 3 days till it stops releasing the gas built up within and reseal. Please note that inhaling silage gases is hazardous.

**CAUTION!! Breathing silage gases can be extremely hazardous!**



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## Bag Capacity Chart

BAG SIZE	HEY SILAGE	CORN SILAGE	EAR CORN	GROUND SHELLED CORN	SHELLED CORN	GRAIN
	TONS	TONS	BUSHELS	BUSHELS	BUSHELS	BUSHELS
8 x 150	120 - 140	140 - 150	3200	4500	4500	4600
8 x 200	170 - 180	190 - 200	4300	6200	6200	6350
9 x 150	150 - 170	160 - 190	3900	5500	5500	5650
9 x 200	190 - 210	220 - 240	5300	7500	7500	7680
9 x 250	260 - 280	280 - 300	6600	9500	9500	9730
9 x 300	315 - 335	340 - 360	8000	11500	11500	11780
10 x 200	280	300	6100	8700	8700	8900
10 x 250	355	380	7700	11000	11000	11275
10 x 300	430	460	9400	13400	13400	13730
10 x 400	580	620	12700	18100	18100	18550
10 x 500	730	780	16000	22800	22800	23370
11 x 300	480	510	NA	NA	NA	NA
12 x 300	570	630	11500 - 13950	16530 - 19950	16530 - 19950	16530 - 19950
12 x 500	970	1070	19650 - 23800	28100 - 33950	28100 - 33950	28100 - 33950
14 x 500	1300	1360	NA	NA	NA	NA

Approximate values



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