

**MERIDIAN**

**SMOOTHWALL BINS**  
WESTERN

# SMOOTHWALL BINS

WESTERN



**MERIDIAN**



Since launching our first product 65 years ago, Meridian has set the standard in excellence for the storage and handling industry. Meridian has continuously incorporated the latest technological innovations to meet our customers' ever-changing needs. Meticulous attention to quality and detail reflects the attitude of an enthusiastic and skilled production team, providing confidence to each Meridian customer of a superior and dependable product. Meridian's best references are the thousands of farmers and commercial customers who have experienced the quality and value of the Meridian family of products.

Meridian and many Meridian dealers have trucks and trailers specifically designed to deliver and setup bins on each customer's yard. Our experienced drivers and dealers ensure each bin is positioned just right and ready to use.

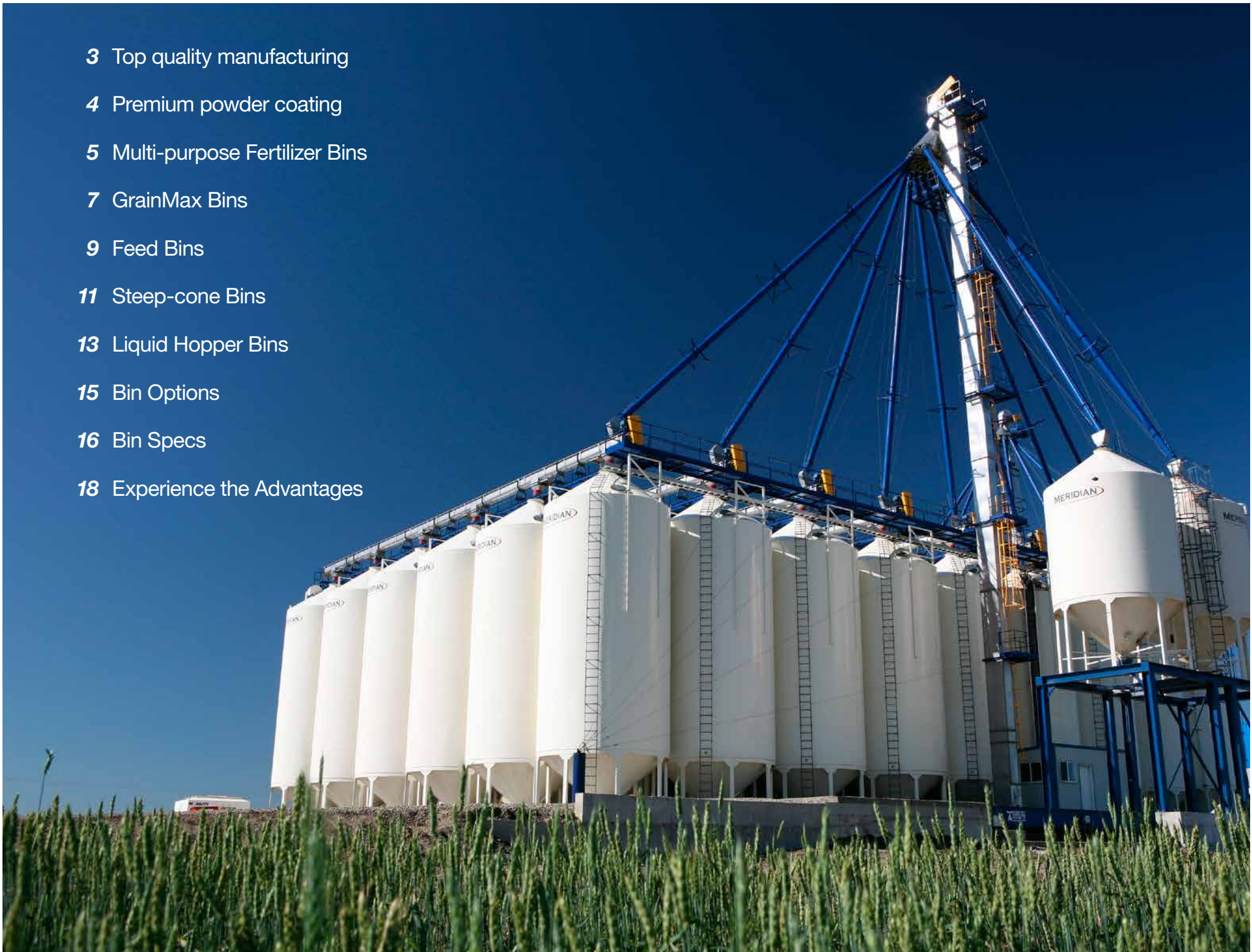
A proven leader in storage versatility, Meridian product innovations include double walled fuel tanks and speciality oil tanks, serving both the agriculture and petroleum industries, setting manufacturing standards in product and service excellence.

Meridian is continually investing in the latest technology, equipment and training programs in an ongoing effort to carefully design and develop a most efficient and durable product. Robots are utilized in highly repetitive and tight welding spots to ensure unsurpassed welding procedures.

**MERIDIAN**



- 3** Top quality manufacturing
- 4** Premium powder coating
- 5** Multi-purpose Fertilizer Bins
- 7** GrainMax Bins
- 9** Feed Bins
- 11** Steep-cone Bins
- 13** Liquid Hopper Bins
- 15** Bin Options
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# **TOP QUALITY MANUFACTURING**

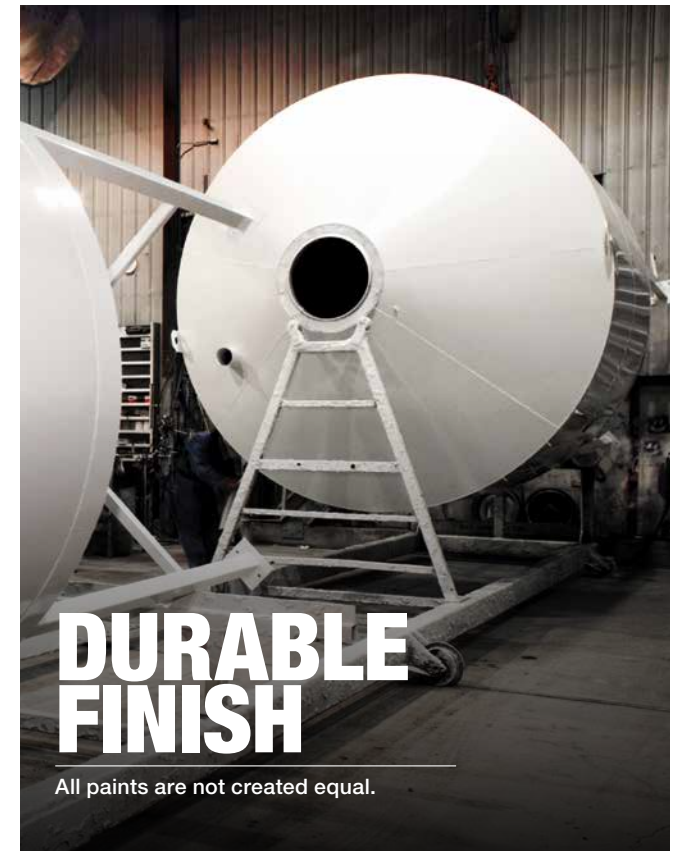


# **SUPERIOR AND DEPENDABLE**

Our products are backed with a 10 year structural and 5 year paint warranty.

All our steel components and materials are designed and selected utilizing our suppliers' latest technology to ensure the best quality bin for each application. HSS (Hollow Structural Steel) tubing, leg bands, leg rings, bracing and sheeting are carefully selected for strength and milling, followed by rigorous cleaning and storage standards.

# **PREMIUM POWDER COATING**



# **DURABLE FINISH**

All paints are not created equal.

## **HIGHLIGHTS**

- ▶ Twice the “salt spray rating” of regular powders
- ▶ Best in industry edge coverage on sharp surfaces
- ▶ Superior adhesion to all steel including seams and smooth surfaces
- ▶ Extra abrasion resistance
- ▶ Additional slip factor for improved product flow and cleanliness
- ▶ 10 year on structural integrity on SmoothWall hopper bins
- ▶ One year paint warranty for liquid and commercial SmoothWall hopper bins
- ▶ Five year paint warranty on all SmoothWall hopper bins (excluding liquid/commercial)

\*Some sizes in US are not available in a powder coat finish.



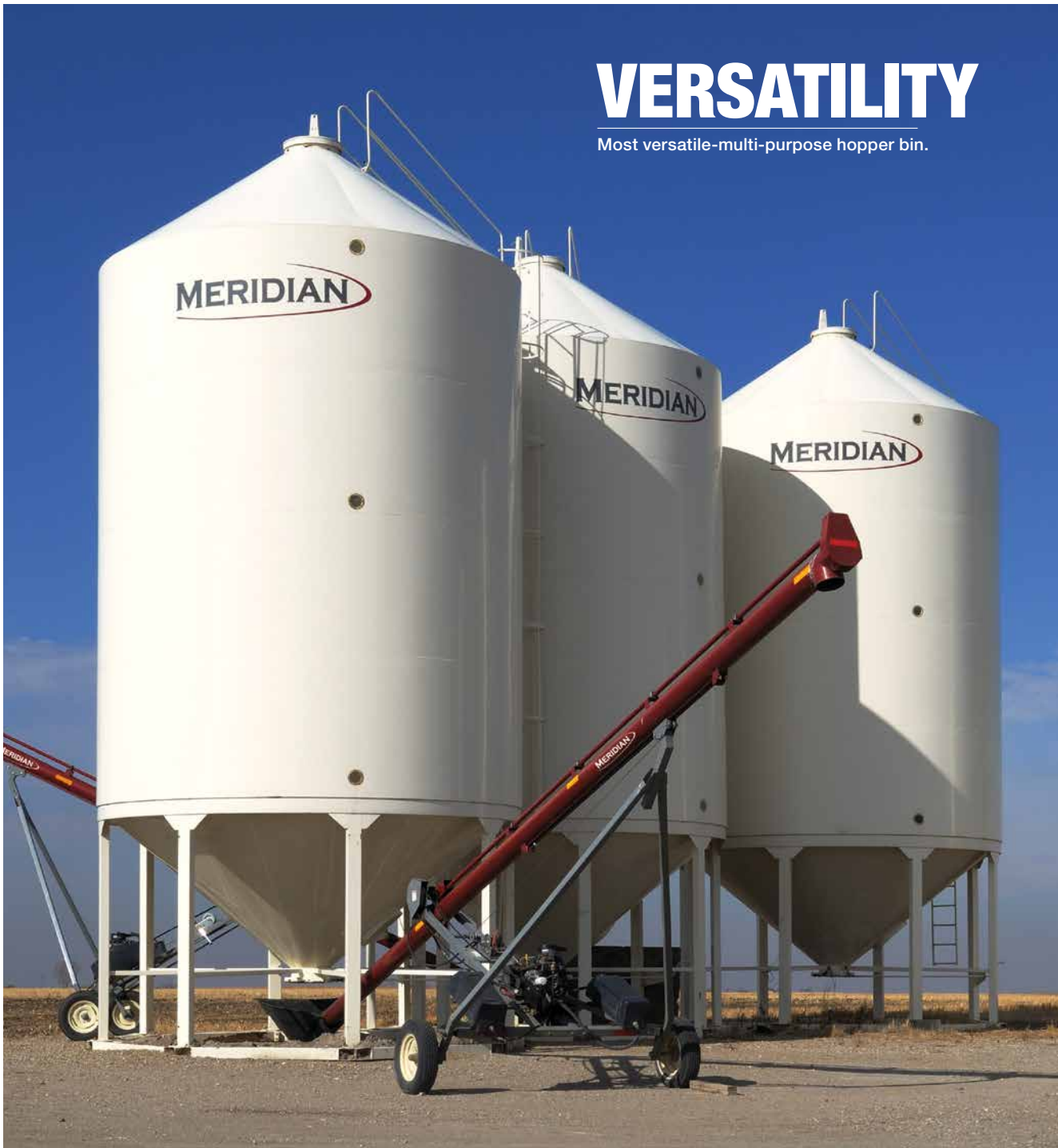


# MULTI-PURPOSE FERTILIZER BINS

Meridian multi-purpose bins are the #1 choice for fertilizer storage in Agribusiness and On-farm.

# VERSATILITY

Most versatile-multi-purpose hopper bin.



## **MEETS ALL YOUR NEEDS.**

Used to handle and store fertilizer, grain, feed and seed and extends to coal, sand and any other free-flowing, dry granular commodity. For those extremely corrosive products and environments like salt, Meridian offers a variety of powder chemistry options including zinc and epoxies to ensure years of trouble free storage. Contact Meridian's sales team for any questions regarding our bins, including Series II, powder coating options and custom build requirements.

### **GREAT FEATURES. GREAT QUALITY**

- ▶ HSS (hollow structural steel) legs and bracing
- ▶ Premium Rack-n-Pinion slide gate with crank
- ▶ Complete sidewall and roof ladder
- ▶ 25" top opening
- ▶ Vented top lid – spring loaded and ground operated
- ▶ Min. 40 degree bottom cone and 35 degree roof cone
- ▶ 24" clearance under the slide gate



**GRAINMAX BINS**





# SUPERIOR SELF CLEANING

Completely self-cleaning with no obstructions.

## **HIGH LEVEL PROTECTION.**

Grain Max hopper bins offer top quality grain and seed storage at prices comparable to corrugated hopper combos. Without bolts and ribs, the Grain Max seamless interior allows for safe and easy unloading, while ensuring no seed or contaminants are trapped on the walls or joints.

Completely self-cleaning with no obstructions, Grain Max hopper bins are the safest and most efficient grain bins available. You and your family will appreciate the quality and safety of Grain Max, and the time and energy saved handling grain in a smooth-wall bin.

## **GREAT FEATURES. GREAT QUALITY**

- ▶ HSS (hollow structural steel) legs and bracing
- ▶ Premium Rack-n-Pinion slide gate with crank
- ▶ Complete sidewall and roof ladder
- ▶ 25" top opening
- ▶ Vented top lid – spring loaded and ground operated
- ▶ Min. 40 degree bottom cone and 35 degree roof cone
- ▶ 24" clearance under the slide gate



# FEED BINS





**PERFECT  
SIZE**

Meridian feed bins are the perfect size to protect feed quality.



## **QUALITY. MANAGEMENT.**

Meridian's SmoothWall Feed bins are designed with feed quality and management in mind. The advantage of Meridian's SmoothWall design is very evident in feed storage. Smooth cone and side-wall surfaces, without bolts or ribs, a bottom cone of 55° or 60°s, and our exclusive high slip factor powder coating, ensure feed discharge without hang ups and entrapments, thus reducing spoilage and unnecessary expenses.

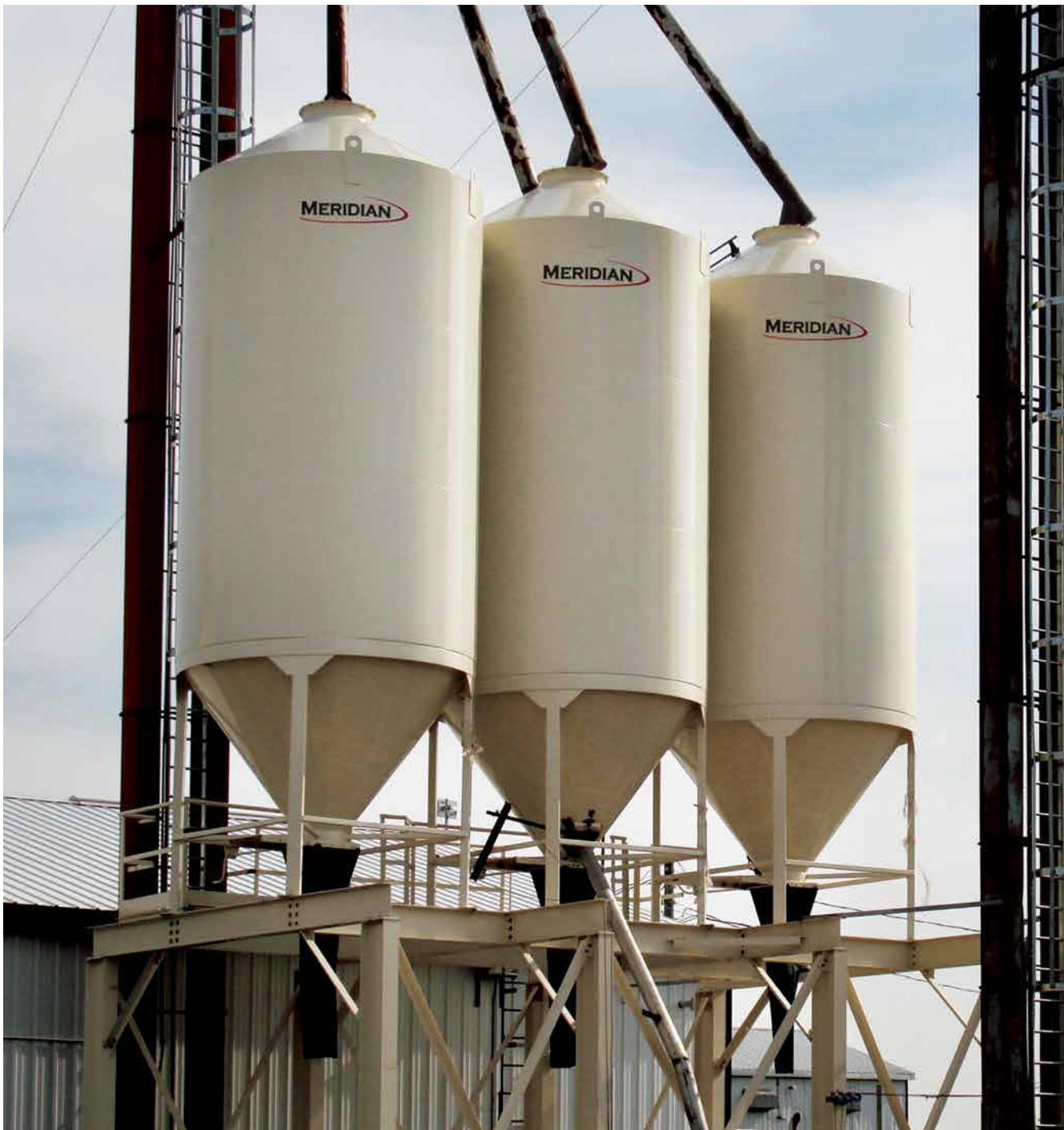
### **GREAT FEATURES. GREAT QUALITY**

- ▶ HSS (hollow structural steel) legs and bracing
- ▶ Premium Rack-n-Pinion slide gate with crank
- ▶ Complete sidewall and roof ladder
- ▶ 25" top opening
- ▶ Vented or non-vented top lid
- ▶ 55 degree or 60 degree bottom cone depending on model

A photograph showing a white, cylindrical steep-cone bin mounted on a metal support structure. The bin has a conical bottom section. It is situated on a roof or a similar elevated platform. In the background, there is a building with horizontal siding and a window. The sky is clear and blue. The text "STEEP-CONE BINS" is overlaid in large, bold, white letters at the bottom of the image.

# STEEP-CONE BINS





## **ELIMINATE HANG UPS.**

For commodities requiring a steeper cone and more capacity than a feed bin, the solution is a Meridian Steep Cone series. These bins are built with the same standards as the fertilizer series, but feature a 55° bottom cone in capacities up to 202 MT.

The variance of flow characteristics may result in some products bridging inside a bin. The Meridian Sales Team will ensure you receive the best bin design for your storage needs.

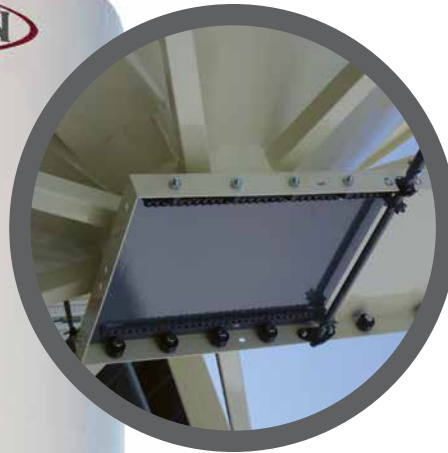
### **GREAT FEATURES. GREAT QUALITY**

- ▶ HSS (hollow structural steel) legs and bracing
- ▶ Premium Rack-n-Pinion slide gate with crank
- ▶ Complete sidewall and roof ladder
- ▶ 25" top opening
- ▶ Vented top lid – spring loaded and ground operated
- ▶ 55 degree or 60 degree bottom cone depending on model
- ▶ 30 degree roof cone
- ▶ 24" clearance under the slide gate



# LIQUID HOPPER BINS





Optional bolt on slide gate assembly for use with dry flowable products



Heavy duty flanged bottom opening with stainless steel bottom plate assembly.

## ULTIMATE STORAGE.

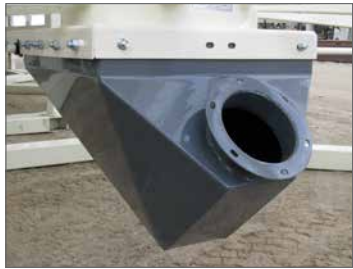
Meridian's Liquid hopper bins are the ultimate storage bins, taking versatility and multi-purpose to the extreme. In addition to storing all the dry flowable products of the fertilizer series, these bins are designed, engineered and painted to store a whole range of liquid products such as liquid fertilizer, liquid feed supplements and honey. With the exception of the bottom flange plate assembly, these bins look identical to the fertilizer bins, differing significantly however, in heavier gauge steel, welded inside and out, four coats of powder and other standard features.

### GREAT FEATURES. GREAT QUALITY

- ▶ Minimum 12 gauge construction
- ▶ Back welded - Inside and outside
- ▶ Pressure tested
- ▶ Sand blasted
- ▶ Interior has 2 coats of Meridian's epoxy powder
- ▶ Exterior has 2 coats of Meridian's exclusive premium powder finish with a Zinc undercoat
- ▶ Complete sidewall and roof ladder
- ▶ Heavy Duty flanged bottom opening with Stainless Steel Bottom Plate

# OPTIONS

	AERATION SYSTEM	BOTTOM MANWAY	ROOF MANHOLE	BIN LEVEL INDICATORS	POKE HOLE	LADDER CAGE AND HANDRAILS	BEAN LADDERS	STEEL FOUNDATIONS	SKID FOUNDATIONS	AUGER BOOTS AND AUGER MOUNTING TABS	PAIL SPOUT
Multi-purpose Fertilizer Bin	●	●	●	●	●	●	●	●			
GrainMax Bins		●	●	●		●			●	●	●
Feed Bins		●	●	●		●			●	●	●
Steep Cone Bins		●	●	●		●			●	●	



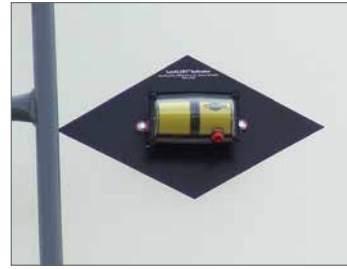
**Auger Boots**  
Fastens under slide gate assembly. Standard & Flex Auger boots available.



**Bottom Manway**  
Access hole in bottom cone.



**Fan Bracket**  
Support bracket mounted under fan.



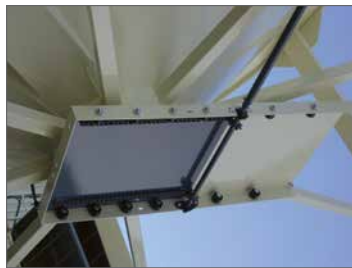
**LevAlert**  
Level indicator on sidewall.



**Poke Hole**  
8" x 8" access to discharge just above gate.



**Roof Manhole**  
Access hole in top cone.



**S.S. Slide Gate Assembly**  
Complete Stainless Steel assembly.



**Skid Foundation**  
Skid foundations are available for most bins.



**View Glass**  
4" round window on sidewall.



**Ladder Cage**  
Safety enclosure for added security.



# SPECS

## MULTI-PURPOSE FERTILIZER BINS

Model #	Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Min. Auger
<b>12' Diameter Bins - 45 Degree Bottom Cone</b>						
1205	806	949	29	27	16' 8"	36'
1208	1095	1288	40	36	19' 8"	36'
1210	1287	1514	47	43	21' 8"	41'
1212	1479	1740	54	49	23' 8"	46'
1215	1768	2080	64	58	26' 8"	51'
<b>14' Diameter Bins - 45 Degree Bottom Cone</b>						
1410	1826	2149	67	60	23' 3"	41'
1412	2088	2457	76	69	25' 3"	46'
1415	2481	2918	90	82	28' 3"	46'
1417	2742	3226	100	91	30' 3"	51'
1420	3135	3688	114	104	33' 3"	56'
<b>16' Diameter Bins - 40 Degree Bottom Cone</b>						
1610	2410	2836	88	80	23' 11"	41'
1612	2751	3237	100	91	25' 11"	46'
1615	3264	3840	119	108	28' 11"	51'
1617	3606	4242	132	119	30' 11"	56'
1620	4119	4845	150	136	33' 11"	61'
1625	4973	5851	181	165	38' 11"	71'
1630	5828	6856	213	193	43' 11"	71'
<b>18' Diameter Bins - 40 Degree Bottom Cone (FOB Build Plant) *Canada Only</b>						
1810	3161	3719	115	105	25' 6"	46'
1815	4242	4991	155	140	30' 6"	51'
1820	5324	6263	194	176	35' 6"	61'
1825	6405	7536	234	212	40' 6"	71'
<b>15'6" Diameter Bins - 40 Degree Bottom Cone (Available for NW USA Destinations)</b>						
1510	2241	2636	82	74	23' 9"	41'
1512	2561	3013	93	85	25' 9"	46'
1515	3043	3580	111	101	28' 9"	51'
1517	3363	3957	123	111	30' 9"	56'
1520	3845	4523	140	127	33' 9"	61'
1525	4646	5466	169	154	38' 9"	71'
1530	5448	6410	199	180	43' 9"	71'

## LIQUID BINS

Model #	Imp. Gallons	U.S. Gallons	Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Min. Auger
<b>12' Diameter Bins - 45 Deg. Bottom Cone</b>								
1212L	10878	13074	1479	1740	54	49	23' 8"	46'
<b>14' Diameter Bins - 45 Deg. Bottom Cone</b>								
1412L	15354	18449	2088	2457	76	69	25' 3"	46'
<b>15' 6" Diameter Bins - 40 Degree Bottom Cone (Available for NW USA Destinations)</b>								
1612L	20230	24305	2751	3237	100	91	25' 11"	46'
1512	18770	22542	2561	3013	93	85	25' 9"	46'
1515	22296	26777	3043	3580	111	101	28' 9"	51'
1517	24647	29600	3363	3957	123	111	30' 9"	56'
<b>16' Diameter Bins - 40 Degree Bottom Cone (Available for NW USA Destinations)</b>								
1612L	20230	24305	2751	3237	100	91	25' 11"	46'
1615L	24000	28832	3264	3840	119	108	28' 11"	51'
1617L	26514	31850	3606	4242	132	119	30' 11"	56'
1620L	30284	36378	4119	4845	150	136	33' 11"	61'

## FEED BINS

Model #	Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Min. Auger
<b>7 Diameter Bins - 60 Degree Bottom Cone</b>						
705	225	300	6	5.4	14' 3"	25'
708	353	415	8.3	7.5	17' 3"	28'
710	419	492	9.8	8.9	19' 3"	31'
<b>8 Diameter Bins - 55 Degree Bottom Cone</b>						
808	462	543	10.9	9.9	17' 6"	28'
810	547	644	12.9	11.7	19' 6"	31'
812	633	744	14.9	13.5	21' 6"	35'
<b>9 Diameter Bins - 55 Degree Bottom Cone</b>						
910	712	838	16.8	15.2	20' 6"	35'
912	820	965	19.3	17.5	22' 6"	37'
915	983	1156	23.1	21	25' 6"	41'
<b>10 Diameter Bins - 55 Degree Bottom Cone</b>						
1010	903	1063	21.3	19.3	21' 8"	35'
1012	1037	1220	24.4	22.1	23' 8"	25'
1015	1237	1455	29.1	26.4	26' 8"	43'

## STEEP CONE

Model #	Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Min. Auger
<b>12' Diameter Bins - 55° Bottom Cone</b>						
1205-55	889	1045	32	29	18' 10"	36'
1208-55	1177	1385	43	39	21' 10"	41'
1210-55	1369	1611	50	45	23' 10"	41'
1212-55	1562	1837	57	52	25' 10"	46'
1215-55	1850	2176	67	61	28' 10"	51'
<b>14' Diameter Bins - 55° Bottom Cone</b>						
1410-55	1957	2302	71	65	25' 11"	46'
1412-55	2219	2610	81	73	27' 11"	51'
1415-55	2611	3072	95	86	30' 11"	56'
1417-55	2873	3380	105	95	32' 11"	61'
1420-55	3266	3842	119	108	35' 11"	61'
<b>16' Diameter Bins - 55° Bottom Cone</b>						
1610-55	2678	3150	98	89	28' 1"	51'
1612-55	3020	3552	110	100	30' 1"	56'
1615-55	3532	4156	129	117	33' 1"	61'
1617-55	3874	4558	141	128	35' 1"	61'
1620-55	4387	5161	160	145	38' 1"	71'
1625-55	5241	6166	191	173	43' 1"	71'
1630-55	6096	7172	222	202	48' 1"	81'
<b>15'6" Diameter Bins - 55° Bottom Cone (Available for NW USA Destinations)</b>						
1510-55	2484	2923	91	82	27' 11"	51'
1512-55	2805	3300	102	93	29' 11"	56'
1515-55	3286	3866	120	109	32' 11"	61'
1517-55	3607	4244	132	119	34' 11"	61'
1520-55	4088	4810	149	135	37' 11"	71'
1525-55	4890	5753	178	162	42' 11"	71'
1530-55	5692	6697	208	188	47' 11"	81'

## GRAIN MAX

Model #	Bushels	Cubic Feet	Bin Diameter	Bin Height	Min. Auger
<b>14' Diameter Bins - 40 Degree Bottom Cone (FOB Build Plant) *Canada Only</b>					
GM2300	2301	2707	14'	26' 3"	46'
<b>15' 6" Diameter Bins - 40° Bottom Cone (Available for NW USA Destinations)</b>					
GM3000	3043	3580	15' 6"	28' 6"	51'
GM4000	3845	4523	15' 6"	33' 9"	61'
GM5000	4646	5466	15' 6"	38' 9"	71'
GM6000	5448	6410	15' 6"	43' 2"	71'
<b>16' Diameter Bins - 40° Bottom Cone (Available for NE USA Destinations)</b>					
GM3000	3264	3840	16'	18' 11"	51'
GM4000	4118	4845	16'	33' 11"	61'
GM5000	4973	5851	16'	38' 11"	71'
GM6000	5828	6856	16'	43' 11"	71'

## CALCULATIONS

Bushel capacities are approximate  
 Feed bin capacities are based on 40 lbs/ft<sup>3</sup>.  
 All fertilizer bins, steep cone bins and liquid bins capacities are based on 62 lbs/ft<sup>3</sup>.

To select the most appropriate bin size for your storage, please follow these steps:

- Determine product density (lbs/ft<sup>3</sup>).
- Convert the total tonnage being stored to lbs, then divide by the density. The result is the cubic foot capacity you require.

Example - You need to store 100 MT of urea fertilizer with a density of 48 lbs.  
 $100 \times 2204 = 220,400 / 48 = 4592$  (Min. ft<sup>3</sup> required)  
 Best model selection would be a 1620 or 1815.

To calculate a bins holding capacity of a specific product, follow these steps:

- Determine product density (lbs/ft<sup>3</sup>).
- Multiply the bins cubic foot capacity by the product density, then divide by 2204.

Example - Your fertilizer blend weights 57 lbs/ft<sup>3</sup> and your purchasing a model 1625 fertilizer bin.

Model 1625 =  $5851 \text{ ft}^3 \times 57 \text{ lbs} = 333,507 \text{ lbs} / 2204 = 151 \text{ MT}$ . Your new 1625 will hold about 151 MT of your specific fertilizer blend.



Storage and Handling | Experience the Advantages

## EXPERIENCE THE ADVANTAGES

Meridian is committed to manufacturing the highest quality products – with a full range of storage and handling options designed for any size of farm operation. Our vast network of dealers and customers across North America are ready to share with you their Meridian experience and how our family of products help to save time and money. The Meridian team of 1000-plus trained and dedicated employees delivers a superior product and is constantly looking at ways of improving our product lineup so we can better serve our customers.







Storage and Handling | Experience the **Advantages**

MULTI-PURPOSE FERTILIZER BINS • GRAINMAX BINS • FEED BINS • STEEP CONE BINS • LIQUID HOPPER BINS

[www.MeridianMFG.com](http://www.MeridianMFG.com)