

SMOOTHWALL BINS

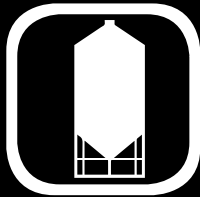
MERIDIAN



MERIDIAN



GRAINMAX BINS ARE COMPLETELY
SELF CLEANING AND OBSTRUCTION
FREE WITH **UNMATCHED EFFICIENCY.**
GM4000 PICTURED



Meridian GrainMax Hopper Bins offer top quality grain and seed storage at prices comparable to corrugated hopper combos. Without bolts and ribs, the GrainMax’s seamless interior allows for safe and easy unloading, while ensuring no seed or contaminates trapped on the walls or joints.

Completely self-cleaning with no obstructions, Meridian GrainMax Hopper Bins are the safest and most efficient grain bins available. You and your family will appreciate the quality and safety of GrainMax bins, as well as the time and energy saved handling grain in a smoothwall bin.

STANDARD FEATURES:

- HSS (hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate assembly with crank
- Complete sidewall and roof ladder
- 25” top opening
- Vented top lid – spring loaded and ground operated

- Minimum 40 degree bottom cone and 35 degree roof cone
- 24” clearance under the slide gate
- Retractable ladder

GM4000
GRAINMAX SERIES APROX. 4,000 BUSHELS



Model Number	Approx. Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Recommended Auger
14' Diameter GrainMax - 40 Degree Bottom Cone						
GM2300	2301	2707	69	63	26'-3"	46'
15.5' Diameter GrainMax - 40 Degree Bottom Cone						
GM3000	3003	3575	90	82	28'-9"	53'
GM4000	3796	4515	114	103	33'-9"	66'
GM5000	4591	5457	138	125	38'-9"	66'
GM6000	5385	6399	162	147	43'-9"	72'
16' Diameter GrainMax - 40 Degree Bottom Cone						
GM3000	3264	3840	98	89	28'-11"	53'
GM4000	4118	4845	124	112	33'-11"	66'
GM5000	4973	5851	149	135	38'-11"	66'
GM6000	5828	6856	175	159	43'-11"	72'
18' Diameter GrainMax - 40 Degree Bottom Cone						
GM5300	5324	6263	160	145	35'-6"	66'
GM6400	6405	7536	192	174	40'-6"	66'
GM7500	7488	8809	225	204	45'-6"	79'
20' Diameter - 40 Degree Bottom Cone						
2035	10589	12585	318	288	51'-10"	85'

Not all sizes available in all regions. Contact smoothwall@meridianmfg.com for full details.

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

- Determine product density (lbs/ft³).
- Convert the total tonnage being stored to lbs, then divide by the density.

The result is the cubic foot capacity you require.
Ex. You need to store 100 MT of urea fertilizer with a density of 48 lbs.
100 x 2204 = 220,400 / 48 = 4592 (Min. ft³ required).

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

- Determine product density (lbs/ft³).
- Multiply the bins cubic foot capacity by the product density, then divide by 2204.

Ex. Fertilizer blend weighs 57 lbs./ft3 & you are purchasing a model 1620 fertilizer bin. Model 1620 = 4837 ft3 x 57 lbs. = 275,709/2204 = 125 MT.
Your new 1620 will hold approx. 125 MT of your specific fertilizer blend.



GRAIN



SEED



FERTILIZER

MULTI-PURPOSE BINS

Model Number	Approx. Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Recommended Auger
12' Diameter Multi-Purpose - 45 Degree Bottom Cone						
1205	806	949	29	27	16'-8"	33'
1208	1095	1288	40	36	19'-8"	39'
1210	1287	1514	47	43	21'-8"	39'
1212	1479	1740	54	49	23'-8"	46'
1215	1768	2080	64	58	26'-9"	46'
14'-0" Diameter Multi-Purpose - 45 Degree Bottom Cone						
1410	1801	2146	67	60	23'-4"	46'
1412	2060	2454	76	69	25'-4"	46'
1415	2449	2914	90	82	28'-4"	53'
1417	2708	3222	100	91	30'-4"	53'
1420	3097	3683	114	104	33'-4"	59'
15.5' Diameter Multi-Purpose - 40 Degree Bottom Cone						
15610	2241	2636	82	74	23'-9"	41'
15612	2526	3010	93	85	25'-9"	46'
15615	3003	3575	111	101	28'-9"	53'
15617	3320	3952	123	111	30'-9"	59'
15620	3796	4515	140	127	33'-9"	66'
15625	4589	5455	169	153	38'-9"	66'
15630	5383	6396	198	180	43'-9"	72'
16' Diameter Multi-Purpose - 40 Degree Bottom Cone						
1610	2410	2831	88	80	23'-11"	46'
1612	2751	3233	100	91	25'-11"	46'
1615	3264	3835	119	108	28'-11"	53'
1617	3606	4237	131	119	30'-11"	59'
1620	4119	4837	150	136	33'-11"	66'
1625	4973	5839	181	164	38'-11"	66'
1630	5828	6842	212	192	43'-11"	72'
18' Diameter Multi-Purpose - 40 Degree Bottom Cone						
1810	3161	3719	115	105	25'-6"	46'
1815	4242	4991	155	140	30'-6"	53'
1820	5324	6263	194	176	35'-6"	66'
1825	6405	7536	234	212	40'-6"	66'
1830	7488	8809	273	248	45'-6"	79'

CALCULATIONS
Bushel capacities are approximate. All fertilizer bins, steep cone bins and liquid bins capacities are based on 62 lbs/ft³.
Not all sizes available in all regions. Contact smoothwall@meridianmfg.com for full details.

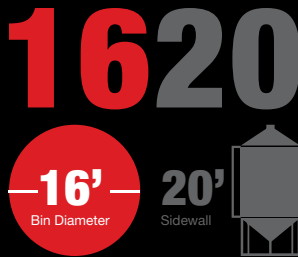


Meridian's Multi-Purpose Bins are used to handle and store fertilizer, grain, feed and seed as well as coal and any other free-flowing, dry granular commodity. With a powder coat finish inside and out, these heavy-duty bins offer dependable storage along with resistance to corrosion and abrasion, even when storing fertilizer. 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.

STANDARD FEATURES:

- HSS (hollow structural steel) legs and bracing
- Premium Rack-n-Pinion slide gate assembly with crank
- Complete sidewall and roof ladder
- 25" top opening
- Vented top lid – spring loaded and ground operated
- Minimum 40 degree bottom cone and 35 degree roof cone
- 24" clearance under the slide gate
- Interior powder coat finish
- Stainless steel slide plate
- Retractable ladder





PRESERVE YOUR FEED QUALITY
WITH **MERIDIAN FEED BINS**



Shown with available vent tube & fill tube

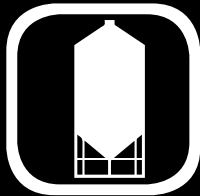
Model Number	Approx. Bushels	Cubic Feet	Imp. Tons	Metric Tonnes	Bin Height	Recommended Auger
7' Diameter Feed Bins - 60 Degree Bottom Cone						
705	252	301	6.3	5.7	14'-9"	33'
708	349	416	8.7	7.9	17'-9"	33'
710	414	492	10.3	9.3	19'-9"	39'
8' Diameter Feed Bins - 55 Degree Bottom Cone						
808	456	543	11.4	10.3	18'	39'
810	541	643	13.5	12.2	20'	39'
812	625	744	15.6	14.1	22'	39'
9' Diameter Feed Bins - 55 Degree Bottom Cone						
910	703	837	17.5	15.9	21'	39'
912	811	964	20.2	18.3	23'	46'
915	971	1154	24.2	21.9	26'	46'
10' Diameter Feed Bins - 55 Degree Bottom Cone						
1010	892	1061	22.2	20.1	22'-2"	39'
1012	1024	1218	25.5	23.1	24'-2"	46'
1015	1222	1453	30.4	27.6	27'-2"	53'

CALCULATIONS

Bushel capacities are approximate.
Feed bin capacities are based on 40 lbs/ft³.

LARGER DIAMETER & CAPACITY BINS SUITABLE FOR FEED AVAILABLE, SEE NEXT PAGE FOR STEEP CONE BIN SPECIFICATIONS.

Not all sizes available in all regions. Contact smoothwall@meridianmfg.com for full details.



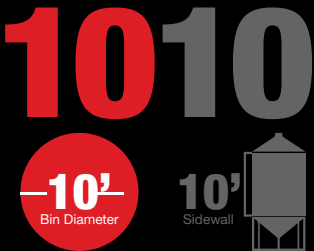
Meridian's SmoothWall Feed Bins are designed with feed quality and management in mind. The advantage of Meridian's SmoothWall design is very evident in feed storage. Smooth cone and side-wall surfaces, without bolts or ribs, a bottom cone of 55 or 60 degrees, and our exclusive interior high slip factor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

Ask our sales team about available options such as feed tubes, vent tubes, level indicators and more.

STANDARD FEATURES:

- HSS (hollow structural steel) legs and bracing
- Complete sidewall and roof ladder
- Retractable ladder
- 25" top opening
- Vented top lid – spring loaded and ground operated

- Minimum 30" clearance under discharge ring
- Interior powder coat finish
- Premium Rack-n-Pinion slide gate assembly with crank





The **MERIDIAN AIRMAX®** system **cools & dries grain and seed, minimizes** the risk of **bugs**, allows **earlier harvest** and **significantly decreases** the chance of **spoilage**.



MODELS	MAX BIN SIZE (BUSHELS) ¹	RECOMMENDED HOPPER BIN SIZE ²	DIMENSIONS	DIA. I.D	WEIGHT (LBS)	SCREEN SURFACE (INCHES)	INLET SIZE AND TYPE	HEIGHT INTO GRAIN CAV-ITY 35° CONE ³	HEIGHT INTO GRAIN CAVITY 40° CONE ³	HEIGHT INTO GRAIN CAVITY 55° CONE ³
VERTICAL AERATION – ONE PIECE										
V3004	3500	14' & 16' bins up to 3500 bushels. Models 1615, GM3 and smaller	30" x 4'	20"	385	6299	9" x 14" Rect	n/a	86"	n/a
V3006	5000	14' & 16' bins up to 5000 bushels. Models 1625, GM5 and smaller	30" x 6'	20"	440	9656	9" x 14" Rect	n/a	110"	n/a
V3008	6000	14' & 16' bins up to 6000 bushels. Models 1630, GM6 and smaller	30" x 8'	20"	525	13132	9" x 14" Rect	n/a	134"	n/a
V4504	7000	14', 16' & 18' bins up to 7000 bushels. Models 1825, GM64 and smaller	45" x 4'	30"	580	9301	14" x 17" Rect	n/a	95"	n/a
VERTICAL AERATION – SECTIONAL (DESIGNED FOR RETROFITTING EXISTING HOPPER BINS AND HIGH-FLOW APPLICATIONS) ⁴										
VS3004	5000	All bins up to 5000 bushels	30" x 4'	20"	420	5245	9" x 14" Rect	80"	86"	99"
VS3006	8000	All bins up to 8000 bushels	30" x 6'	20"	500	7990	9" x 14" Rect	104"	110"	123"
VS4504	15000	All bins up to 15000 bushels	45" x 4'	30"	600	7925	14" x 17" Rect	88"	95"	116"
VS4506	20000	All bins up to 20000 bushels	45" x 6'	30"	745	12100	14" x 17" Rect	112"	119"	140"
HORIZONTAL AERATION (REMOVABLE FOR FERTILIZER STORAGE AND AVAILABLE FOR RETROFITTING EXISTING BINS)										
H1808	5000	14' & 16' bins up to 3300 bushels. Models 1615, GM3 and smaller	18" x 8'	n/a	155	3478	18" Rnd	38"	44"	n/a
H2408	6500	14', 16' & 18' bins up to 5000 bushels. Models 1625, 1820, GM500 and smaller	24" x 8'	n/a	235	4660	24" Rnd	44"	50"	n/a
H2410	6500	14', 16' & 18' bins up to 6500 bushels. Models 1630, 1825, GM6, GM64 and smaller	24" x 10'	n/a	285	6284	24" Rnd	51"	59"	n/a
H2410-HD	8,500	Up to 18' diameter	24" x 10'	24"	360	6284	24" Rnd	51"	59"	n/a
H2412-HD	11,000	Up to 20' diameter	24" x 12'	24"	425	7908	24" Rnd	58"	68"	n/a

1. Recommended bushel capacities for Meridian AirMax® system.
2. Recommended bin model(s) for maximum grain drying and aeration results.

3. Distance from gate to top of aeration mechanism.
4. Meridian AirMax™ Sectional system is an exclusive and unique aeration product allowing installation of vertical aeration in existing hopper bins. This unit is built heavier than the one-piece Meridian AirMax®, withstanding weights up to 20,000 bushels.

VERTICAL SECTIONAL AERATION

- Aeration system design enables natural air grain drying as conditions permit
 - Continuous screen from top to bottom
 - Angle rib construction distributes point load pressures
 - 24" rib spacing maximizes aeration area
 - Full leg support 4" up aeration
 - Complete interior screen perforated to lid
- Duct clean out shroud
 - Factory installed in 40 & 45 degree Meridian bins
 - 3 leg design

HORIZONTAL AERATION

- Aeration design enables easy removal of aeration tube for cleaning or fertilizer storage
- Continuous screen from end to end
- Angle rib construction distributes point load pressures
- 24" rib spacing maximizes aeration area
- Fits 40 & 45 degree cones
- Bolt-in version is available for installation into existing hopper bins
- Removable duct



VERTICAL ONE PIECE AERATION

- Aeration system design enables natural air grain drying as conditions permit
 - Continuous screen from top to bottom
 - Angle rib construction distributes point load pressures
 - 24" rib spacing maximizes aeration area
 - Full leg support 4" up aeration
- Complete interior screen perforated to lid
 - Duct clean out shroud
 - Factory installed in 40 & 45 degree Meridian bins
 - 3 leg design

AIRMAX® FANS



1 Fan Mounting Bracket



1 Centrifugal Fans



In-line Fans

AIRMAX® AERATION



Vertical One Piece Aeration



Vertical Sectional Aeration



Horizontal Aeration

VERTICAL NATURAL AIR DRYING SYSTEM:

- Designed to easily retrofit your existing hopper bins
- Retro system is designed and approved for installation in steeper cones and use in high moisture grain
- Larger screen surface area maximizes the effectiveness of your drying, cooling and aeration efforts
- Optional extra support leg increases stability in high-flow applications
- Full support legs ensure a durable, problem free system

HORIZONTAL AERATION SYSTEM:

- Easily removed for quick cleaning or when storing fertilizer
- Larger screen surface area maximizes effectiveness for cooling and aerating grain
- Bolt-in kit available for installation in existing hopper bins



OPTIONS

BIN ACCESS OPTIONS



Pale Spout



2 Poke Hole



3 Bottom Manway



4 Roof Manhole



Top Lid Lever Assembly

LEVEL INDICATORS



5 LevAlert



6 View Glass



Liquid Site Gauge Valve



7 Ladder Cage & Handrails



Fall Arrest

MISCELLANEOUS OPTIONS



Bean Ladder



8 Skid Foundation



9 Rack-n-Pinion slide gate assembly

DISCHARGE OPTIONS



Auger Boot



Slide Gate to Chore Time Adaptor

OTHER OPTIONS SUCH AS LEG EXTENSIONS, FILL TUBES, ROOF VENTS, AND VENT TUBES AVAILABLE. CONTACT SMOOTHWALL@MERIDIANMFG.COM FOR FULL LIST OF OPTIONS AND AVAILABILITY.

WITH A FULL RANGE OF CUSTOM OPTIONS, **MERIDIAN SMOOTHWALL BINS** ARE DESIGNED FOR YOUR OPERATION.