

GRAIN GUARD

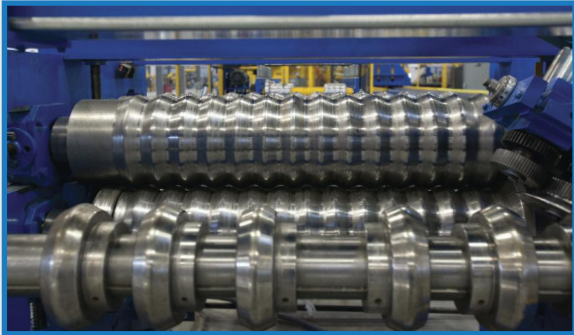


GRAIN GUARD

Grain Storage & Accessories

Committed to Quality

Grain Guard bins are manufactured using state of the art, roll-forming technology. Our 4" corrugation with unique 1/2" depth design and "W" profile stiffener provide optimum strength and stability.



World Class Manufacturing & Design

- Grain Guard's bin manufacturing line employs today's most advanced roll-forming equipment
- Designed with user satisfaction in mind, Grain Guard bins assemble quickly and easily without sacrificing strength and quality



Galvanized

- All Grain Guard bins are manufactured using G115 Galvanized Steel
- G115 provides 25% better protection against the elements than G90

The Complete Package

- Grain Guard offers years of experience producing industry leading aeration equipment and fans
- With a complete catalogue of aeration and storage equipment, Grain Guard provides the most effective product mix for your farm operation's performance and profitability
- Flexible options allow for custom configuration of your Grain Guard bin and aeration package



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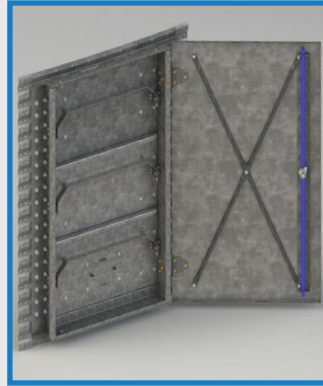
Features & Options

A complete line-up of features and options allow you to create a custom grain storage and aeration system to suit your farming operation.



Bin Unload

- High capacity
- 8" and 10" tube unload
- 10" U-trough unload
- 7" power sweep
- Large center hopper
- Pre-positioned intermediate hopper
- Incline, vertical or horizontal powerheads available



Door

- 3-panel design with auger chute, standard on all unstiffened bins and most stiffened bins
- 2-panel design with large auger chute available on select 15'-24' models
- Cam lock enclosures provide excellent fit every time
- Heavy-duty frame maintains sidewall integrity



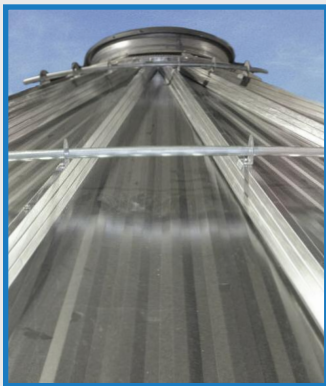
Full Floor Aeration

- Easy to install full floor aeration
- 7" wide plank, 12% open area
- Pre-punched wall flashing
- 13" and 17" floor support heights available
- 18 and 20 gauge available



Ladder Design

- Ladder with an improved safety cage
- Pre-assembled ladder sections for easy installation
- ANSI compliant



Roof Design

- Corrugated roof design with 30 degree slope on all models
- 3" high multi-step roof rib
- Pre-punched rolled edge flange for 18" round or 15" square roof vents
- 40" filler cap with remote opener
- Roof rings available to improve snow load rating



Stiffeners

- A wide range of stiffened bins available
- Wide gauge stiffener with splice plate joints makes for quick and easy assembly
- Roll formed "hat" design provides strength
- Unstiffened bins available in sizes from 15' to 48' in diameter

Aeration & Conditioning

Grain Guard offers an established catalogue of aeration and conditioning equipment for your grain storage management.



Axial Fan

- For aeration
- Maximum airflow at lower static pressures
- Galvanized steel housing that resists rust
- Balanced, cast aluminum blade
- Baldor motors (3450rpm)
- Available in 3hp – 18" dia., 5, 7 and 10hp – 24" dia. and 15hp - 28" dia.



In-Line Centrifugal Fan

- 18", 24" and 28" diameter openings
- Steel constructed airfoil rotor
- Aerodynamically designed inlet cone
- Weather-proof electrical controls
- Heavy-duty, air over cooled, Baldor motor
- Available in 3-10hp sizes



Low Speed Centrifugal Fan

- For aeration and grain drying
- Maximum airflow at lower to medium static pressures
- Galvanized 12 gauge steel housing that resists rust
- Adjustable feet to allow for levelling after installation
- Baldor motors (1725rpm)
- Powder coated steel impeller
- Available in 5, 7, 10, 15, 20, 25 and 30hp



High Speed Centrifugal Fan

- Adapts to most aeration systems
 - 3, 5 and 7.5hp have 9" x 14" outlet
 - 10hp has 12" x 17" outlet
- Airfoil precision balanced steel blades ensure maximum airflow and efficiency
- Enclosed, fan-cooled Baldor motor
- Available in 3, 5, 7.5 and 10hp models

Specifications*

Unstiffened Farm Bins Models 15-04 to 27-10

Model	Diameter		Eave Height		Overall Height		Volume (2)		Capacity (2)		
	ft-in	m	ft-in	m	ft-in	m	ft ³	m ³	bu	MT - wheat (3)	MT - corn (4)
15-04	14'11"	4.55	14'10"	4.52	19'4"	5.89	2808	80	2370	64	60
15-05	14'11"	4.55	18'6"	5.64	23'0"	7.01	3450	98	2910	79	74
15-06	14'11"	4.55	22'2"	6.75	26'8"	8.13	4091	116	3450	94	88
15-07	14'11"	4.55	25'10"	7.87	30'4"	9.25	4732	134	3990	108	101
15-08	14'11"	4.55	29'6"	8.99	34'0"	10.36	5373	152	4540	123	115
15-09	14'11"	4.55	33'2"	10.11	37'8"	11.48	6014	170	5080	138	129
15-10	14'11"	4.55	36'10"	11.22	41'4"	12.60	6655	188	5620	152	143
18-04	17'11"	5.46	14'10"	4.52	20'2"	6.16	4111	116	3470	94	88
18-05	17'11"	5.46	18'6"	5.64	23'10"	7.27	5034	143	4250	115	108
18-06	17'11"	5.46	22'2"	6.75	27'6"	8.39	5957	169	5030	136	128
18-07	17'11"	5.46	25'10"	7.87	31'2"	9.51	6880	195	5810	158	147
18-08	17'11"	5.46	29'6"	8.99	34'10"	10.63	7804	221	6590	179	167
18-09	17'11"	5.46	33'2"	10.11	38'6"	11.74	8727	247	7370	200	187
18-10	17'11"	5.46	36'10"	11.22	42'2"	12.86	9650	273	8150	221	207
21-04	20'11"	6.37	14'10"	4.52	21'1"	6.42	5686	161	4800	130	122
21-05	20'11"	6.37	18'6"	5.64	24'9"	7.53	6942	197	5860	159	149
21-06	20'11"	6.37	22'2"	6.75	28'5"	8.65	8199	232	6920	188	176
21-07	20'11"	6.37	25'10"	7.87	32'1"	9.77	9456	268	7980	216	203
21-08	20'11"	6.37	29'6"	8.99	35'9"	10.89	10712	303	9040	245	230
21-09	20'11"	6.37	33'2"	10.11	39'5"	12.00	11969	339	10100	274	257
21-10	20'11"	6.37	36'10"	11.22	43'1"	13.12	13225	375	11160	303	284
24-04	23'10"	7.28	14'10"	4.52	21'11"	6.68	7545	214	6370	173	162
24-05	23'10"	7.28	18'6"	5.64	25'7"	7.79	9186	260	7750	210	197
24-06	23'10"	7.28	22'2"	6.75	29'3"	8.91	10827	307	9140	248	232
24-07	23'10"	7.28	25'10"	7.87	32'11"	10.03	12469	353	10520	285	267
24-08	23'10"	7.28	29'6"	8.99	36'7"	11.15	14110	400	11910	323	302
24-09	23'10"	7.28	33'2"	10.11	40'3"	12.27	15751	446	13290	361	338
24-10	23'10"	7.28	36'10"	11.22	43'11"	13.38	17392	493	14680	398	373
27-04	26'10"	8.19	14'10"	4.52	22'9"	6.94	9699	275	8190	222	208
27-05	26'10"	8.19	18'6"	5.64	26'5"	8.06	11776	333	9940	270	252
27-06	26'10"	8.19	22'2"	6.75	30'1"	9.18	13853	392	11690	317	297
27-07	26'10"	8.19	25'10"	7.87	33'9"	10.29	15930	451	13450	365	342
27-08	26'10"	8.19	29'6"	8.99	37'5"	11.41	18008	510	15200	412	386
27-09	26'10"	8.19	33'2"	10.11	41'1"	12.53	20085	569	16950	460	431
27-10	26'10"	8.19	36'10"	11.22	44'9"	13.65	22162	628	18710	507	475

* Notes:

- 1) Grain bin volumes and capacities based on ASAE S413.1 DEC97
- 2) Volume based on 28° angle of repose in roof, filled to a height 25 mm (1") below the eave height
- 3) Wheat capacities based on product density of 770 kg/m³ (48.1 lbs/cu ft) and 5% compaction
- 4) Corn capacities based on product density of 721 kg/m³ (45.0 lbs/cu ft) and 5% compaction

Specifications*

Unstiffened Farm Bins Models 30-04 to 48-10

Model	Diameter		Eave Height		Overall Height		Volume (2)		Capacity (2)		
	ft-in	m	ft-in	m	ft-in	m	ft ³	m ³	bu	MT - wheat (3)	MT - corn (4)
30-04	29'10"	9.10	14'10"	4.52	23'8"	7.20	12159	344	10260	278	261
30-05	29'10"	9.10	18'6"	5.64	27'4"	8.32	14723	417	12430	337	316
30-06	29'10"	9.10	22'2"	6.75	30'12"	9.44	17288	490	14590	396	371
30-07	29'10"	9.10	25'10"	7.87	34'8"	10.56	19852	562	16760	454	426
30-08	29'10"	9.10	29'6"	8.99	38'4"	11.67	22417	635	18920	513	481
30-09	29'10"	9.10	33'2"	10.11	41'12"	12.79	24981	707	21090	572	536
30-10	29'10"	9.10	36'10"	11.22	45'8"	13.91	27546	780	23250	631	591
33-04	32'10"	10.01	14'10"	4.52	24'6"	7.47	14936	423	12610	342	320
33-05	32'10"	10.01	18'6"	5.64	28'2"	8.59	18039	511	15230	413	387
33-06	32'10"	10.01	22'2"	6.75	31'10"	9.71	21142	599	17840	484	453
33-07	32'10"	10.01	25'10"	7.87	35'6"	10.83	24245	687	20460	555	520
33-08	32'10"	10.01	29'6"	8.99	39'2"	11.94	27348	774	23080	626	586
33-09	32'10"	10.01	33'2"	10.11	42'10"	13.06	30451	862	25700	697	653
33-10	32'10"	10.01	36'10"	11.22	46'6"	14.18	33554	950	28320	768	719
36-04	35'10"	10.91	14'10"	4.52	25'5"	7.74	18041	511	15230	413	387
36-05	35'10"	10.91	18'6"	5.64	29'1"	8.86	21734	615	18340	498	466
36-06	35'10"	10.91	22'2"	6.75	32'9"	9.98	25427	720	21460	582	545
36-07	35'10"	10.91	25'10"	7.87	36'5"	11.10	29120	825	24580	667	624
36-08	35'10"	10.91	29'6"	8.99	40'1"	12.21	32813	929	27700	751	703
36-09	35'10"	10.91	33'2"	10.11	43'9"	13.33	36506	1034	30810	836	783
36-10	35'10"	10.91	36'10"	11.22	47'5"	14.45	40198	1138	33930	920	862
42-04	41'9"	12.73	14'10"	4.52	26'11"	8.19	25281	716	21340	579	542
42-05	41'9"	12.73	18'6"	5.64	30'7"	9.31	30307	858	25580	694	650
42-06	41'9"	12.73	22'2"	6.75	34'3"	10.43	35334	1001	29820	809	757
42-07	41'9"	12.73	25'10"	7.87	37'11"	11.55	40360	1143	34070	924	865
42-08	41'9"	12.73	29'6"	8.99	41'7"	12.67	45387	1285	38310	1039	973
42-09	41'9"	12.73	33'2"	10.11	45'3"	13.78	50413	1428	42550	1154	1081
42-10	41'9"	12.73	36'10"	11.22	48'11"	14.90	55440	1570	46790	1269	1188
48-04	47'9"	14.55	14'10"	4.52	28'8"	8.74	33967	962	28670	778	728
48-05	47'9"	14.55	18'6"	5.64	32'4"	9.86	40532	1148	34210	928	869
48-06	47'9"	14.55	22'2"	6.75	36'0"	10.98	47097	1334	39750	1078	1010
48-07	47'9"	14.55	25'10"	7.87	39'8"	12.10	53662	1520	45290	1229	1150
48-08	47'9"	14.55	29'6"	8.99	43'4"	13.21	60228	1705	50840	1379	1291
48-09	47'9"	14.55	33'2"	10.11	47'0"	14.33	66793	1891	56380	1529	1432
48-10	47'9"	14.55	36'10"	11.22	50'8"	15.45	73358	2077	61920	1679	1573

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215 Barons Street, PO Box 94, Nobleford, AB T0L 1S0 Ph: 1-800-565-2840 Web: www.grainguard.com Email: sales@edwardsgroup.ca