KOTZUR

ON-GROUND SEALED GASTIGHT SILOS

A family owned Australian business

AUSTRALIAN MADE

APPLICATION

General Purpose Grain Storage

Long term Grain Storage with phosphine or controlled atmosphere insect control.

As a “hospital” silo for pest eradication of infested grain.

Commercial grain storage system.

Ask for further information on the importance of sealed silos in the drive to control insects and maintain grain free of chemical residue.

FEATURES

- Factory manufactured components, assembled on site.
- Engineered and certified to Australian Standards and Codes.
- All galvanised construction.
- Kotzur Silos are manufactured to Silo Sealing Standard AS 2628 (Sealed to 5 minute half pressure decay standard).
- Pest eradication without chemical residue and risk of insect resistance.
- Bin is protected with high capacity of oil bath relief valve.
- Clean Design – no internal stiffeners.
- All structural seals use high quality, long lasting materials.
- Sight glass level indication (one in each 1100mm wall strake).
- External wall/roof ladder system for roof access
- Range of unload and sweep auger combinations to suit each application.
- Covered by Kotzur 5 year warranty.
- All silo models can be varied/modified to specific customer requirements.

SPECIFICATIONS Effective 12 April 2023

GP 12 SERIES	CAPACITY M³	CAPACITY WHEAT[1] T	MAX LOAD T[2]	DIAMETER M	HEIGHT TO CENTRE [3]	HEIGHT TO EAVE [3]	AUGER LENGTH [4] M (FT)
GP 12-5	424	352	390	9.2	8.6	6.0	15.5 (51)
GP 12-6	496	412	456	9.2	9.7	7.1	17.4 (57)
GP 12-7	568	471	523	9.2	10.8	8.2	19.3 (63)
GP 12-8	640	531	589	9.2	11.9	9.3	21.2 (70)
GP 12-9	712	591	655	9.2	13.0	10.4	23.2 (76)
GP 12-10	784	651	721	9.2	14.1	11.5	25.1 (82)
GP 12-11	856	710	788	9.2	15.2	12.6	27.0 (89)
GP 12-12	928	770	854	9.2	16.3	13.7	28.9 (95)
GP 15 SERIES	**CAPACITY M³**	**CAPACITY WHEAT[1] T**	**MAX LOAD T[2]**	**DIAMETER M**	**HEIGHT TO CENTRE [3]**	**HEIGHT TO EAVE [3]**	**AUGER LENGTH [4] M (FT)**
GP 15-6	797	661	733	11.4	10.0	7.1	18.6 (61)
GP 15-7	910	755	837	11.4	11.1	8.2	20.5 (67)
GP 15-8	1022	848	940	11.4	12.2	9.3	22.5 (74)
GP 15-9	1135	942	1044	11.4	13.3	10.4	24.4 (80)
GP 15-10	1247	1035	1147	11.4	14.4	11.5	26.3 (86)
GP 15-11	1360	1129	1251	11.4	15.5	12.6	28.2 (93)
GP 15-12	1472	1222	1354	11.4	16.6	13.7	30.2 (99)
GP 15-13	1583	1314	1456	11.4	17.7	14.8	31.4 (103)
GP 15-14	1696	1408	1560	11.4	18.8	15.9	N/A
GP 15-15	1809	1502	1664	11.4	19.9	17.0	N/A
GP 15-16	1922	1595	1768	11.4	21.0	18.1	N/A
GP 15-17	2035	1689	1872	11.4	22.1	19.2	N/A
GP 15-18	2148	1783	1976	11.4	23.2	20.3	N/A
GP 18 SERIES	**CAPACITY M³**	**CAPACITY WHEAT[1] T**	**MAX LOAD T[2]**	**DIAMETER M**	**HEIGHT TO CENTRE [3]**	**HEIGHT TO EAVE [3]**	**AUGER LENGTH [4] M (FT)**
GP 18-5	1019	846	938	13.7	9.7	6.0	18.0 (60)
GP 18-6	1181	980	1087	13.7	10.8	7.1	19.9 (66)
GP 18-7	1343	1115	1236	13.7	11.9	8.2	21.8 (72)
GP 18-8	1505	1249	1385	13.7	13.0	9.3	23.7 (78)
GP 18-9	1667	1384	1534	13.7	14.1	10.4	25.6 (84)
GP 18-10	1829	1518	1683	13.7	15.2	11.5	27.5 (90)
GP 18-11	1991	1652	1832	13.7	16.3	12.6	29.5 (97)
GP 18-12	2153	1787	1981	13.7	17.4	13.7	31.4 (103)
GP 18-13	2315	1921	2130	13.7	18.5	14.8	33.3 (109)

1 - Wheat capacity based on typical consolidated/compacted bulk density in silo. **2 -** Max. Load based on engineering design for wheat at 920kg/m3 - this load will vary for products with differing properties. **3-** Overall height allows for 400mm concrete height – this will vary with unloader options. **4-** Auger lengths are indicative only and are based on 35° angle. As differing auger brands elevate to different angles, always check individual auger height.

SPECIFICATIONS Effective 12 April 2023

GP 20 SERIES	CAPACITY M³	CAPACITY WHEAT[1] T	MAX LOAD T[2]	DIAMETER M	HEIGHT TO CENTRE [3]	HEIGHT TO EAVE [3]	AUGER LENGTH [4] M (FT)
GP 20-10	2258	1874	2077	15.2	16.0	11.5	28.8 (94)
GP 20-11	2457	2040	2261	15.2	17.1	12.6	30.78 (101)
GP 20-12	2657	2205	2444	15.2	18.2	13.7	32.76 (107)
GP 20-13	2856	2370	2628	15.2	19.3	14.8	N/A
GP 20-14	3055	2536	2811	15.2	20.4	15.9	N/A
GP 20-15	3255	2701	2994	15.2	21.5	17.0	N/A
GP 20-16	3454	2867	3178	15.2	22.6	18.1	N/A
GP 20-17	3653	3032	3361	15.2	23.7	19.2	N/A
GP 20-18	3853	3198	3545	15.2	24.8	20.3	N/A
GP 20-19	4052	3363	3728	15.2	25.9	21.4	N/A
GP 20-20	4251	3529	3911	15.2	27.0	22.5	N/A
GP 22 SERIES	**CAPACITY M³**	**CAPACITY WHEAT[1] T**	**MAX LOAD T[2]**	**DIAMETER M**	**HEIGHT TO CENTRE [3]**	**HEIGHT TO EAVE [3]**	**AUGER LENGTH [4] M (FT)**
GP 22-10	2777	2304	2555	16.7	16.4	11.5	29.5 (97)
GP 22-11	3020	2506	2778	16.7	17.5	12.6	31.4 (103)
GP 22-12	3262	2707	3000	16.7	18.6	13.7	33.3 (109)
GP 22-13	3504	2908	3224	16.7	19.7	14.8	N/A
GP 22-14	3746	3110	3447	16.7	20.8	15.9	N/A
GP 22-15	3989	3311	3670	16.7	21.9	17.0	N/A
GP 22-16	4231	3512	3892	16.7	23.0	18.1	N/A
GP 22-17	4473	3713	4115	16.7	24.1	19.2	N/A
GP 22-18	4716	3913	4338	16.7	25.2	20.3	N/A
GP 22-19	4959	4116	4562	16.7	26.3	21.4	N/A
GP 22-20	5202	4317	4786	16.7	27.4	22.5	N/A

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COMMERCIAL AND SPECIAL REQUIREMENTS

The Company has a range of non-standard options and variations for specific applications. These include;

- Range of unloader size and duty cycle designs
- Roof loads to carry conveyors.
- Designs for high wind and seismic regions.
- Storage of products other than grain.
- Design and construct of integrated storage and conveying systems
- Custom size/geometry silos.

WARRANTY - Kotzur Pty Ltd are confident in the quality of the products they design, manufacture and supply. The company guarantees its product for a period of five years from date of purchase. This guarantee covers faulty design, engineering and workmanship however does not include problems arising from factors over which they have no control. These factors include footings constructed by others, negligent damage, unintended use of products, poor maintenance of care, normal wear and tear. Please note that this warranty excludes Consequential losses.

SILO ACCESS OPTIONS

All of our flat bottom silos can be fitted with a spiral staircase or ladder, as well as being combined with a walkway between silos that are positioned next to each other.

Our spiral staircase system was introduced in 2014 and, as with our ladders, all components are designed by Kotzur and fully comply with relevant Australian quality and safety standards.

SPIRAL STAIRCASE VS LADDER

SILO AERATION OPTIONS

Grain aeration is a powerful tool that offers harvest flexibility and better control of grain quality in storage; therefore increasing marketing opportunities both at harvest and during storage.

Without aeration, grain in storage will retain its harvest temperature and moisture for long periods of time. This can lead to increase insect activity, moulding and quality degradation.

Aeration Cooling Solutions

Aeration cooling aims to maintain grain quality during storage. By maintaining low temperature and creating uniformity through the grain, mould and insects are less likely to develop. Cooling can be achieved with airflow rates of 2-3 l/s/T (litres per second per tonne).

- **In-floor Aeration System:** Is the solution for flat bottom silos.

Aeration Drying Solutions

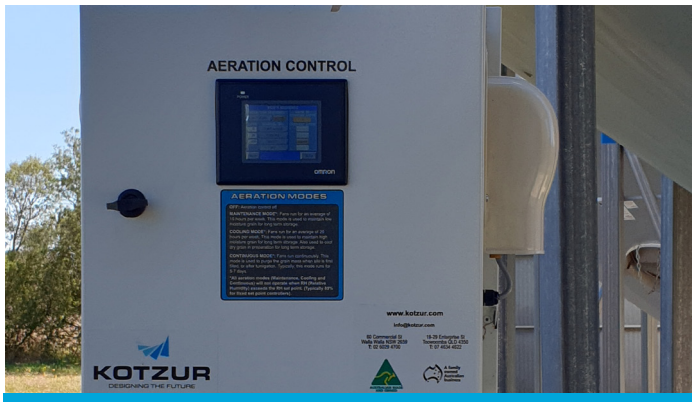
Aeration drying relies on a high volume of air passing through the grain to slowly remove moisture. Aeration drying requires higher airflow rates of 15-50l/s/T in order to effectively move drying fronts through and carry moisture out of the stored grain.

- **Full-floor Aeration System:** is the solution for flat bottom silos. This ensures high volume of air passing through the grain.

Kotzur Aeration Controller

The Kotzur Aeration Controller has been designed to operate the silo fans for a determined number of hours a day, when the ambient weather conditions are optimum for cooling.

The unit is equipped with a temperature and humidity sensor that reads the ambient temperature and humidity in 'real time'. These readings are used in the controller to calculate the 'wet bulb' temperature, which is then compared to a 'set point' temperature. When the wet bulb temperature is above the set point temperature the fans will automatically turn on.



KOTZUR AERATION CONTROLLER


IN-FLOOR AERATION SYSTEM