

SILOS



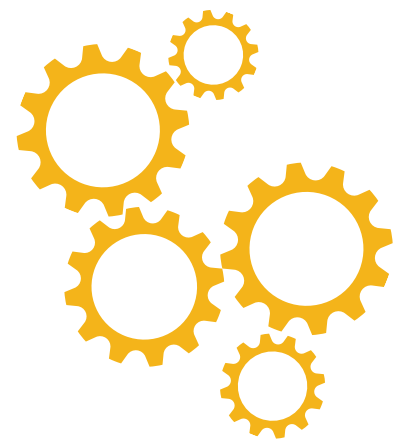
Industrial silos play an important role in storing and managing various materials and products. Here are several key purposes and areas of application for industrial silos:

- 1 Storage of raw materials
- 2 Inventory management
- 3 Manufacturing processes
- 4 Cost reduction
- 5 Safety and environmental aspects

In addition, SiloMasters holds several certifications including :

ISO9001:2015,
ISO14001:2015,
EN15085-2:2007,
EN1090-1:2009 + A1:2011,
EN ISO3834-2:2005,
EN 10346,
EC1935/2004.

SiloMasters is supported by a prominent Spanish industrial group with over 80 years of experience. Their specialized production unit spans 47,000 m², including 30,000 m² of covered area. Equipped with advanced machinery, the facility handles metal cutting, bending, rolling, profiling, welding, machining, painting, and metallizing, using continuous improvement methods.



ENGINEERING APPLIED WITH THE LATEST TECHNOLOGIES

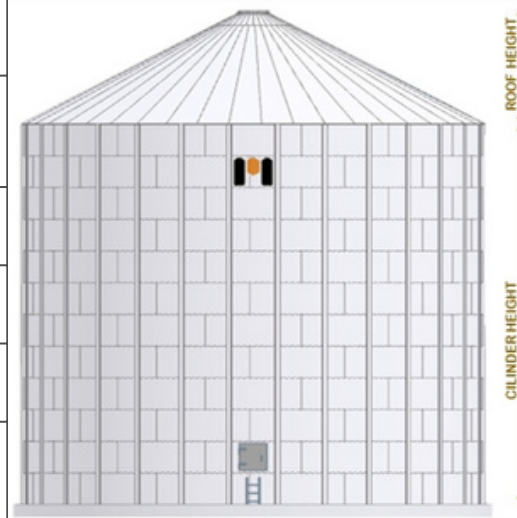
Our partners SiloMasters is characterized by a meticulous approach to silo design, emphasizing durability, functionality and serviceability.



- 1** Roof Design: Features a 30° pitch for optimal strength and to match the angle of repose of stored materials, reducing the risk of overfill and roof damage.
- 2** Construction: Utilizes one-piece roof panels and specially designed roof sheets for increased strength, perfect bolt tightness, and water dripping edge.
- 3** Wall Sheets: Engineered for extra strength, better joint overlapping, cleanliness, and faster erection, with specific corrugation dimensions for enhanced durability.
- 4** Stiffeners: Uses unique "OMEGA" profile stiffeners designed to optimize mechanical resistance and facilitate on-site assembly.
- 5** Anchoring: Includes reinforced anchor plates for stable fixation to foundations, ensuring efficient transmission of vertical loads.
- 6** Sealing: Provides sealed connections to prevent moisture ingress, thereby avoiding moisture accumulation in stored grain.
- 7** Accessories: Offers a range of accessories including roof inspection doors, level sensors, access doors, eaves platforms, ladders, maintenance doors, and aeration roof vents for enhanced functionality and maintenance ease.

FLAT BOTTOM SILOS CAPACITY SHEET

NUMBER OF RINGS	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
EAVES HEIGHT (m)	4.78	5.94	7.11	8.28	9.44	10.61	11.77	12.94	14.11	15.27	16.44	17.60	18.77	19.94	21.10	22.27	23.43	24.60	25.77	26.93	28.10	29.26	
Ø (m)	ROOF HEIGHT (m)	NET VOLUMEN (m3) / CAPACITY (tn) -- Indicated capacity considering product with 750kg/m3 of specific weight + 6% of compactation																					
3	0.85	3629	4536	5343	6149	6955	7863	8669															
4	1.14	6552	8064	9576	10987	12499	13911	153122															
5	1.43	10483	127101	150120	173138	196156	219175	241192															
6	1.71	152121	185148	218174	251200	284226	317253	350279	383305	416331													
7	2.00	211168	256204	300239	345275	390311	435346	480382	525418	570454													
8	2.29	280223	338269	397316	456363	515410	573456	632503	691550	749596	808643	867690											
9	2.58		434346	509405	583464	657523	732582	806641	880700	954759	1029819	1103877	1177936	1252996									
10	2.87		544433	635505	727578	819652	911725	1002797	1094870	1186943	12781017	13691089	14611162	15531235	16441307								
11	3.15		667531	778619	889707	1000795	1111884	1222972	13331060	14441148	15551237	16661325	17771413	18881501	19991590								
12	3.44			937745	1069850	1201955	13331060	14651165	15971270	17291375	18611480	19931586	21251690	22571795	23891900	25212005							
13	3.62				12671008	14221131	15771254	17321377	18871501	20421624	21971747	23521870	25071994	26622117	28172240	29722363							
14	3.91				14841180	16641323	18441466	20231609	22031752	23831895	25632038	27432181	29222324	31022467	32822610	34622753							
15	4.19					19271532	21331696	23401861	25462025	27522188	29592353	31652517	33712680	35782845	37843009	39903173	41973337	44033501					
16	4.48					22121759	24471946	26812132	29162319	31512506	33862692	36202878	38553065	40903252	43253439	45603626	47943812	50293999					
17	4.86					25192003	27842214	30492424	33142635	35792846	38443056	41093267	43743478	46393689	49043899	51694110	54344321	57004532	59654743	62304953			
18	5.15					28482265	31462502	34432738	37402974	40373210	43343446	46313682	49293919	52264155	55234391	58204627	61174864	64145100	67125337	70095573			
19	5.44					32012545	35322808	38633072	41943335	45263599	48573862	51884125	55194388	58504651	61814914	65125178	68435441	71745704	75065968	78376231			
20	5.73								43113428	46773719	50444010	54114302	57784594	61454886	65125178	68795469	72455760	76126052	79796344	83466636	87136927	90807219	94477511

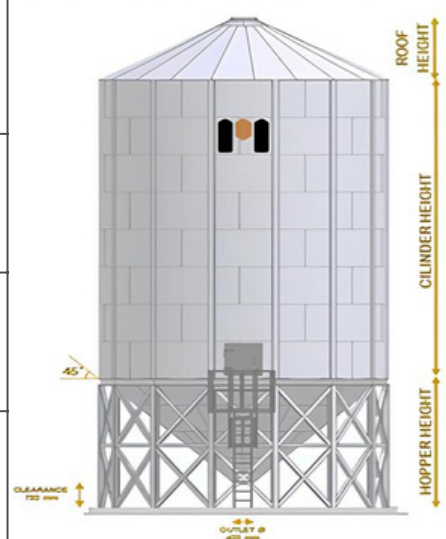


FLAT BOTTOM SILOS CAPACITY SHEET

NUMBER OF RINGS		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
EAVES HEIGHT (m)		4.78	5.94	7.11	8.28	9.44	10.61	11.77	12.94	14.11	15.27	16.44	17.60	18.77	19.94	21.10	22.27	23.43	24.60	25.77	26.93	28.10	29.26		
Ø (m)	ROOF HEIGHT (m)	NET VOLUMEN (m3) / CAPACITY (tn) -- Indicated capacity considering product with 750kg/m3 of specific weight + 6% of compactation																							
21	6.2							4786 3805	5190 4127	5595 4449	5999 4770	6404 5092	6808 5413	7213 5735	7617 6056	8022 6378	8426 6699	8831 7021	9235 7342	9640 7664	1004 47985	1044 88307			
22	6.31							5289 4205	5733 4558	6177 4911	6621 5264	7065 5617	7509 5970	7953 6323	8397 6676	8841 7029	9285 7382	9728 7734	1017 28087	1061 68440	1106 08793	1150 49146			
23	6.60							5821 4628	6306 5014	6791 5399	7277 5786	7762 6171	8247 6557	8732 6942	9217 7328	9703 7714	1018 88100	1067 38486	1115 88871	1164 39257	1212 99643	1261 410029			
24	6.89							6381 5073	6910 5494	7438 5914	7966 6333	8494 6753	9023 7174	9551 7594	1007 98013	1060 88434	1113 68854	1166 49273	1219 29693	1272 11014	1324 91053	1377 71095			
25	7.17							6972 5543	7545 5999	8118 6454	8691 6910	9265 7366	9838 7822	1041 8277	1098 8733	1155 9188	1213 9645	1270 10100	1327 71055	1385 01101	1442 41146	1499 71192			
26	7.46							7592 6036	8212 6529	8832 7022	9452 7515	1007 28008	1069 28501	1131 28994	1193 29486	1155 29979	1317 10472	1379 10965	1441 11458	1503 11951	1565 12444	1627 21293			
27	7.75							8242 6553	8911 7085	9580 7617	1024 88148	1091 78680	1158 69211	1225 49742	1292 31027	1359 21080	1426 01133	1492 91186	1559 71240	1626 61293	1693 51346	1760 31399			
28	8.4							8923 7094	9642 7666	1036 18237	1108 08809	1179 99381	1251 89952	1323 71052	1395 61109	1467 51166	1539 51224	1611 41281	1683 31338	1755 21395	1827 11452	1899 01509			
29	8.33							9636 7661	1040 78274	1117 8887	1195 09501	1272 10114	1349 21072	1426 41134	1503 51195	1580 61256	1657 81318	1734 91379	1812 01440	1889 21502	1966 31563	2043 41624			
30	8.62							1038 08253	1120 68909	1203 19565	1285 61022	1368 21087	1450 71153	1533 31219	1615 81284	1698 41350	1780 91415	1863 51481	1946 01547	2028 61612	2111 11678	2193 71744			
31	8.91							1115 78870	1203 89571	1291 91027	1380 11097	1468 21167	1556 41237	1644 51307	1732 71377	1820 81447	1908 91517	1997 11587	2085 21657	2173 41727	2261 51797	2349 61868	2437 81938		
32	9.20							1196 69513	1290 51026	1384 41100	1478 31175	1572 31250	1666 21324	1760 11399	1854 01474	1947 91548	2041 91623	2135 81698	2229 71772	2323 61847	2417 61922	2511 51996	2605 42071		

45° HOPPER SILOS CAPACITY SHEET

NUMBER OF RINGS		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		
CILINDER HEIGHT (m)		3.60	4.77	5.93	10.2 4	8.27	9.43	10.6 0	11.7 6	12.9 3	14.1 0	15.2 6	16.4 3	17.5 9	18.7 6	19.9 3	21.0 9	22.2 6	23.4 2	24.5 9	25.7 6		
Ø (m)	ROOF HEIGHT (m)	(*) HOPPER HEIGHT (m)	VOLUMEN (m3) / CAPACITY (tn) -- Indicated capacity considering product with 750kg/m3 of specific weight + 6% of compaction																				
			3	0.85	2.5	32 26	40 32	48 39	56 45	65 52	73 59	81 65	89 71										
4	1.14	2.55	59 47	74 59	88 70	103 82	118 94	132 105	147 117	162 129													
5	1.43	3.5	97 78	120 96	143 114	166 132	189 151	212 169	235 187	258 206													
6	1.71	3.55	147 117	180 144	213 170	246 196	279 222	312 249	345 275	378 301	411 327	444 353											
7	2.00	4.5		255 203	300 239	345 275	390 311	435 346	480 382	525 418	570 454	615 489											
8	2.29	4.55		346 276	405 322	464 369	522 415	581 462	640 509	699 556	757 602	816 649	875 696	933 742	992 789	1051 836							
9	2.58	5.5			529 421	604 481	678 540	752 598	827 658	901 717	975 776	1049 834	1124 894	1198 953	1272 1012	1347 1071	1421 1130						
10	2.87	5.55			674 536	766 609	858 683	949 755	1041 828	1133 901	1225 974	1316 1047	1408 1120	1500 1193	1591 1265	1683 1338	1775 1412	1867 1485					
11	3.15	6.5				952 757	1062 845	1173 933	1284 1021	1395 1110	1506 1198	1617 1286	1728 1374	1839 1463	1950 1551	2061 1639	2172 1727	2283 1815	2394 1904				
12	3.44	6.55				1162 924	1294 1029	1426 1134	1558 1239	1690 1344	1822 1449	1955 1555	2087 1660	2219 1765	2351 1870	2483 1974	2615 2079	2747 2184	2879 2289	3011 2394			
13	3.62	7.5					1554 1236	1709 1359	1864 1482	2019 1606	2174 1729	2329 1852	2484 1975	2639 2099	2794 2222	2949 2345	3104 2468	3259 2591	3414 2715	3569 2838	3724 2961	3879 3084	

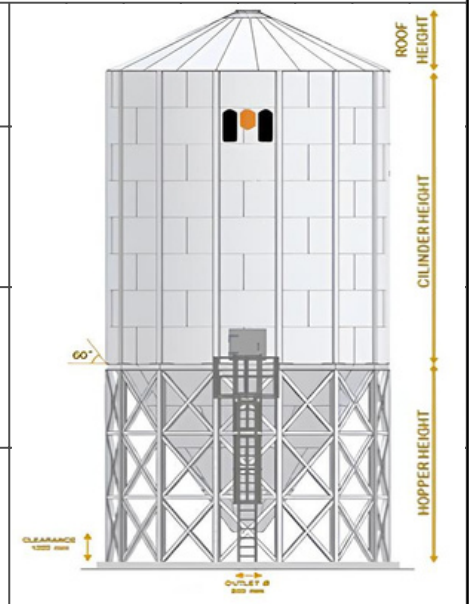


60° HOPPER SILOS CAPACITY SHEET

NUMBER OF RINGS	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
CYLINDER HEIGHT (m)	3.60	4.77	5.93	10.24	8.27	9.43	10.60	11.76	12.93	14.10	15.26	16.43	17.59	18.76	19.93	21.09	22.26	23.42	24.59	25.76

Ø (m)	ROOF HEIGHT (m)	(*) HOPPER HEIGHT (m)	VOLUMEN (m3) / CAPACITY (tn) -- Indicated capacity considering product with 750kg/m3 of specific weight + 6% of compactation																	
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3	0.85	2.91	3428	4234	5141	5947	6754	7560	8467	9274										
4	1.14	3.77	6552	8064	9475	10987	12499	138110	153122	168134										
5	1.43	4.64	10987	132105	155124	178142	201160	224179	247197	270215										
6	1.71	5.50	168134	201160	234187	267213	300239	333265	366291	399318	432344	465370								



7	2.00	6.37		288229	333265	378301	423337	468373	513408	558444	603480	647515								
8	2.29	7.24		395315	454361	513408	572455	630501	689548	748595	806641	865688	924735	982781						
9	2.58	8.10			599477	674536	748595	822654	896713	971772	1045831	1119890	1194950	12681009	13421067					
10	2.87	8.97			770613	862686	954759	1045831	1137904	1229978	13201050	14121123	15041196	15961269	16871342	17791415	18711488			
11	3.15	9.83				1079858	1190947	13011035	14121123	15231211	16341300	17451388	18561476	19671564	20781653	21891741	23001829	24111917	25222005	