FOR STORAGE OF CEMENT AND OTHER DRY BULK MATERIALS

Standard silos in factory-welded design

Areas of Application

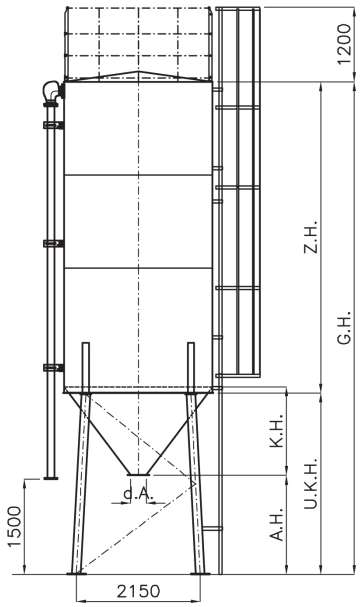
The aggregate and cement silo in proven STANELLE quality made of sheet steel for the storage of cement and other dry bulk materials with a maximum bulk density of 1400 kg/m³.

Details / design

As far as transport permits, the silos are manufactured in one piece and welded tightly. Equipped with loading and transport eyes, inspection opening NW 500, as well as welding frame or welding opening for a Stanelle type SDAK 150 overpressure/vacuum flap in the silo roof and on the silo cylinder a filling line DN100, up to height outlet flange, hot-dip galvanised, with fixed coupling type A and a STANELLE filling bend type FLOW BOW®.
The basic equipment includes a crushing cone inside the cone and a water-repellent ring outside the cone.
The substructure consists of 4 tubular steel supports, with all necessary bandages, Head and base plates as well as anchor screws. Outlet flange height approx. 1.500mm above foundation. Anchor bars must be provided and concreted in by the customer. All screws are hot-dip galvanized, anchor screws black.
Standard types with different diameters and silo contents are available for the domestic market. In addition, we also offer other diameters and silo sizes according to customer requirements. The standard cone angle is 53°. For difficult to discharge media, steeper cone inclinations must be used and the discharge of the bulk material must be supported by special discharge aids, e.g. Stanelle LUALO air looseners or ASK1xxx discharge vibrating basket. As accessories we offer various prescribed and necessary accessories such as filling pipes, fixed ladders, roof edge railings, overpressure dampers, filters, level probes and discharge aids.

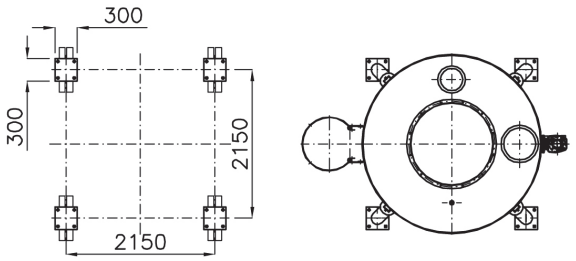
Finish

The corrosion protection on the outside of the standard types consists of rust removal by blasting, degree of rust removal SA 1 and a 2-component universal primer. Optionally, we also supply rust removal up to SA 2.5 and exterior paintwork with 2-component top coat in various RAL colours as well as interior paintwork and special paintwork.



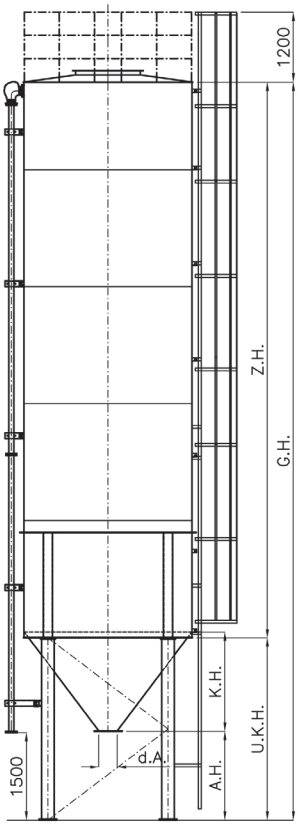
CEMENTSILO Ø 2400

Inhalt m³	U.K.H. mm	Z.H. mm	G.H. mm	G.G. kg		d.A. mm	A.H. mm	K.H. mm
24	2750	5010	7760	1800		200	1395	1455
33	2750	7010	9760	2200		250	1430	1420
39	2750	8410	11160	2600		300	1465	1385
						350	1495	1355
						400	1530	1320



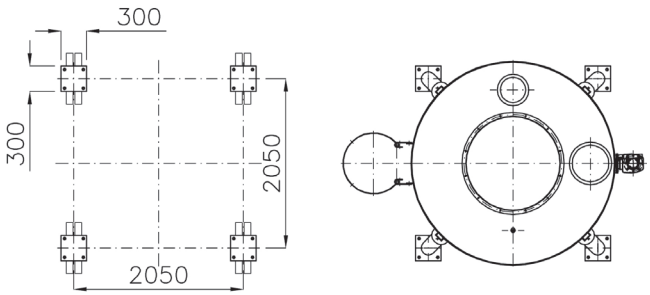
d.A. = Diameter discharge
A.H. = Discharge height
K.H. = Cone height

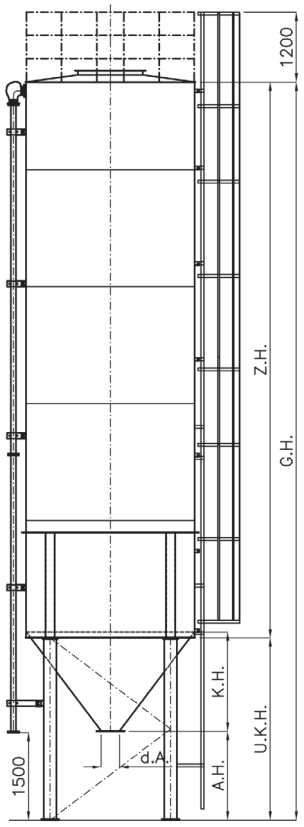
U.K.H. = Substructure height
Z.H. = Cylinder height
G.H. = Total height



CEMENTSILO Ø 2900

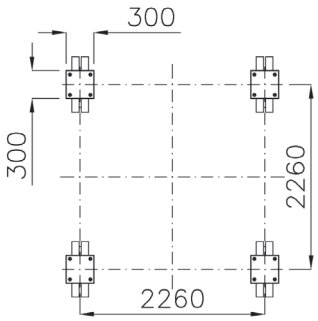
Content m³	U.K.H. mm	Z.H. mm	G.H. mm	G.G. kg		d.A. mm	A.H. mm	K.H. mm
32	3120	4530	7650	2150		200	1475	1775
42	3120	6030	9150	2500		250	1515	1735
48	3120	7030	10150	2650		300	1545	1705
64	3120	9530	12650	4000		350	1580	1670
80	3120	12030	15150	4900		400	1615	1635
96	3120	14530	17650	5550		500	1680	1570
						600	1745	1505
						800	1880	1370

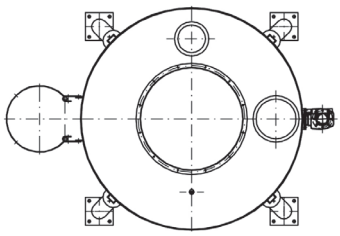


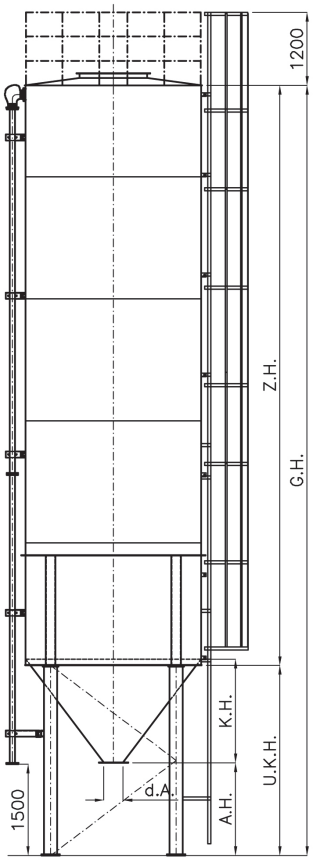


CEMENTSILO Ø 3200

Content m³	U.K.H. mm	Z.H. mm	G.H. mm	G.G. kg		d.A. mm	A.H. mm	K.H. mm
55	3220	6510	9730	3350		250	1480	1950
64	3220	7510	10730	3900		300	1505	1915
80	3220	9510	12730	4700		350	1540	1880
96	3220	12010	15230	5600		400	1570	1850
128	3220	15510	18730	7800		500	1640	1780
						600	1705	1715
						800	1840	1580
						1000	1970	1450

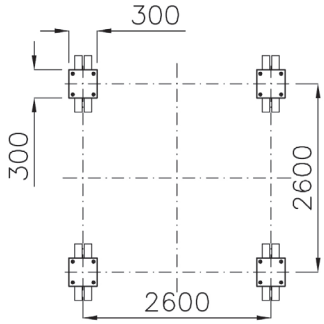


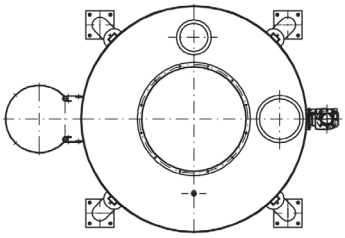




CEMENTSILO Ø 3700

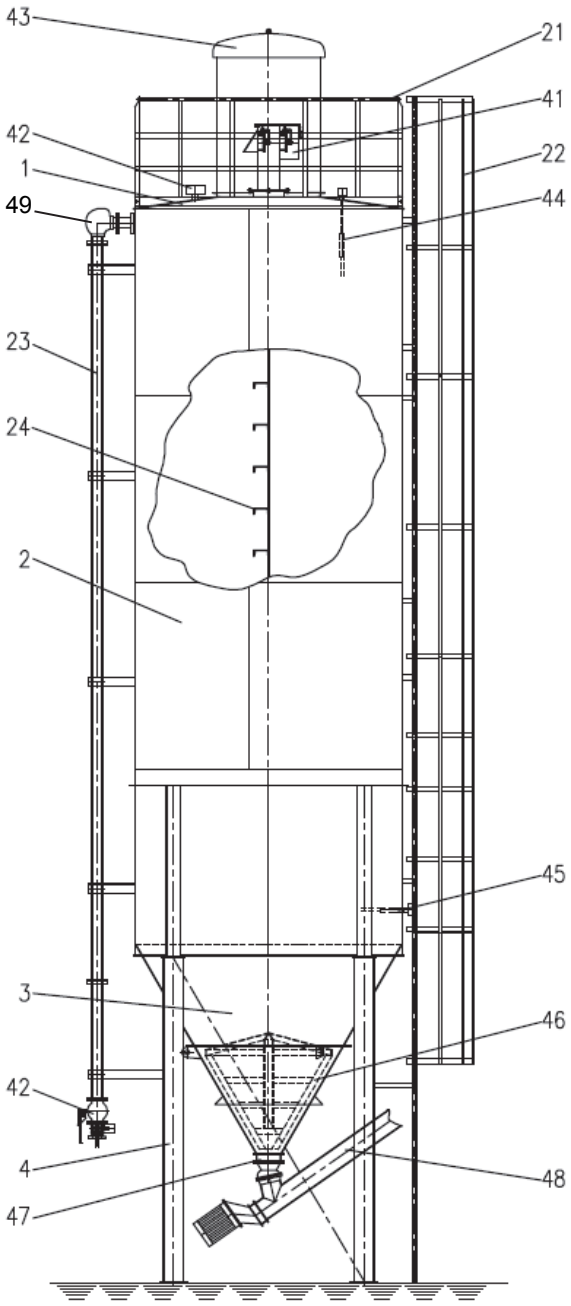
Content m³	U.K.H. mm	Z.H. mm	G.H. mm	G.G. kg		d.A. mm	A.H. mm	K.H. mm
70	3660	6150	9670	4500		250	1500	2460
80	3660	7010	10670	5000		300	1535	2425
102	3660	9010	12670	6000		400	1605	2355
129	3660	11510	15170	7650		500	1680	2280
156	3660	14010	17670	9300		600	1750	2210
						700	1820	2140
						800	1890	2070
						900	1960	2000





Construction of a silo

Depending on requirements, the silo consists of the following main groups:



Silo:
1 Roof with control opening
2 Steel cylinder
3 Cone with water-repellent ring, crushing cone and outlet flange
4 Substructure / clamps / support frame

Supplement:
21 Railing
22 Fixed ladder with / without resting platform
23 Injection nozzle
24 Partition

Components:
41 Overpressure/vacuum flap SDAK 150
42 Safety devices (e.g. overfill protection)
43 Filters with / without control PNEUFIX / STAFI
44 Level indicator Max.
45 Level indicator Min.
46 Discharge aids ASK / LUALO
47 Shut-off systems SMFS
48 Conveying organs
49 Deflector elbow Flow-Bow ®

Support anchorage with 4 anchor screws (example)

Fzul.=4x35.55kN = 142.2kN