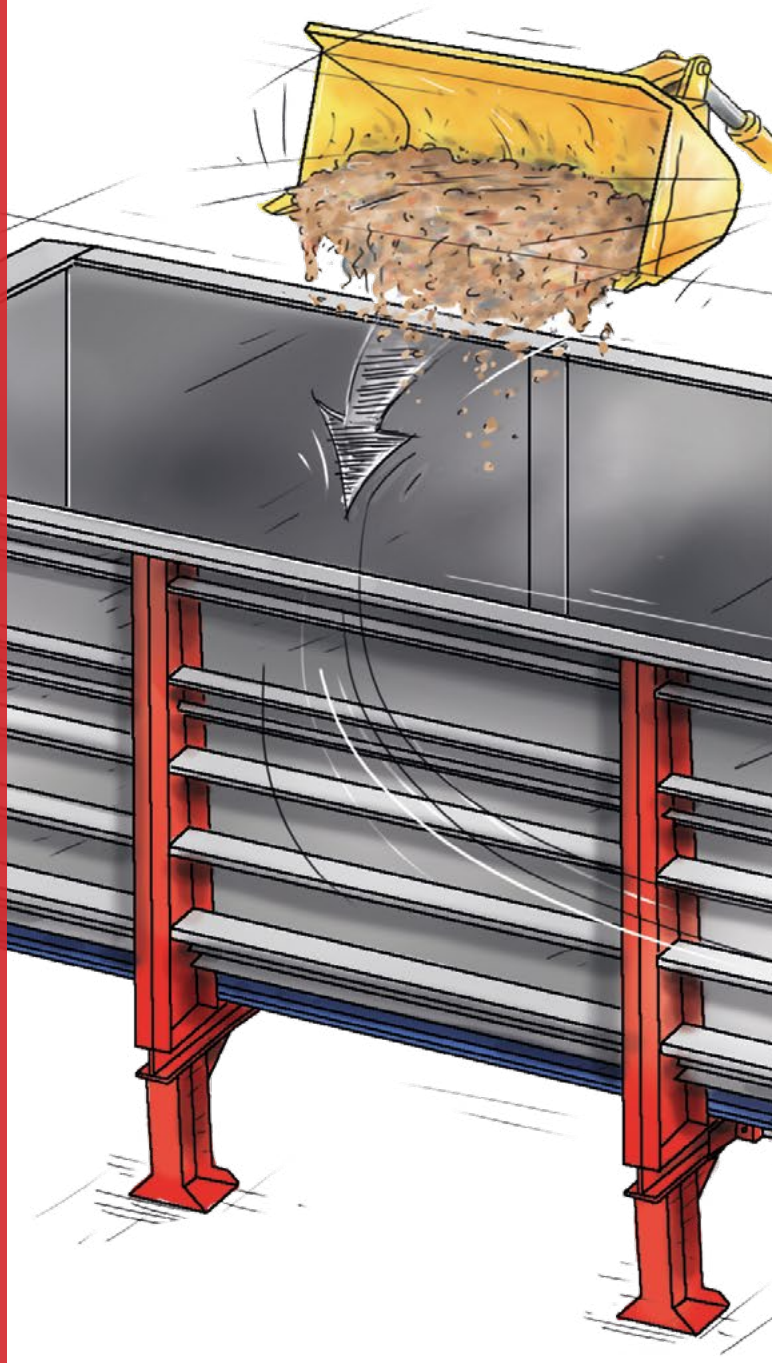
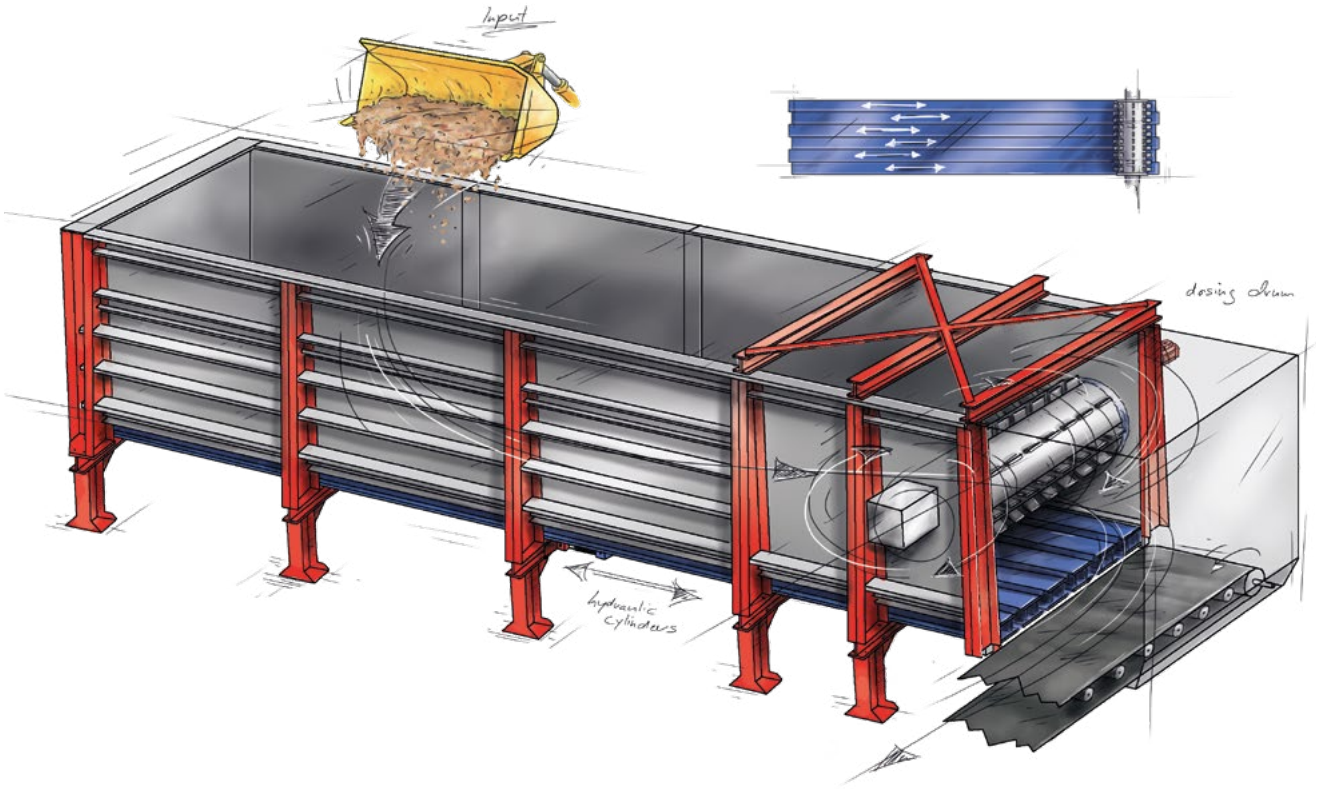
WESTERIA®
MOVING INNOVATION

MovingFloor®

DOSING | PRODUCT PRESENTATION



MovingFloor®



Dosing material with flexibility

The MovingFloor is a bunker system that helps you dose any type of material, ensuring an even and continuous flow. It has been engineered to facilitate on-site assembly and thanks to its flexible components the size of the machine can be increased or decreased as desired at any given time.

With the MovingFloor you can process substitute fuels, compost, mixed construction waste and much more. Its modules can be delivered within 6 weeks and shipped in standard sea containers.

About us

Westeria is a German company from Westphalia with over 60 years of experience producing innovative machinery. Since 1956, our product portfolio has largely grown to provide high-quality machines, technical expertise and excellent service to our clients. We are constantly developing new recycling machines and conveyor systems for what is perhaps the biggest challenge of the present day: make the circular economy a valuable and profitable reality all over the world.

Key advantages

Modularity

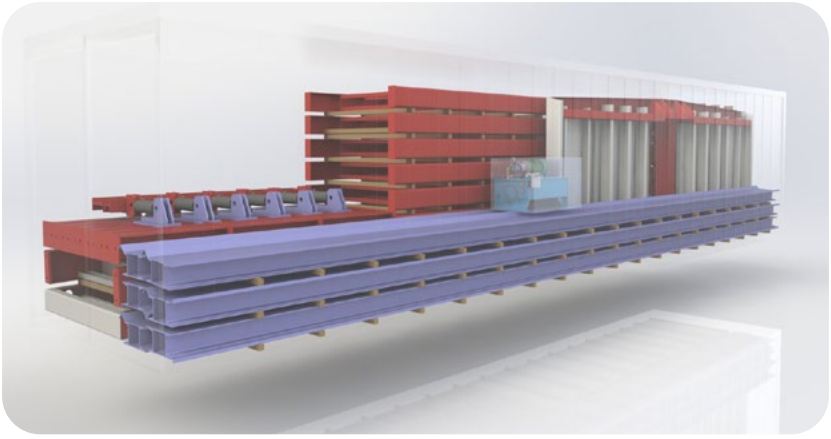
Size of the machine can be increased or decreased at any time, ensuring long-term value creation.

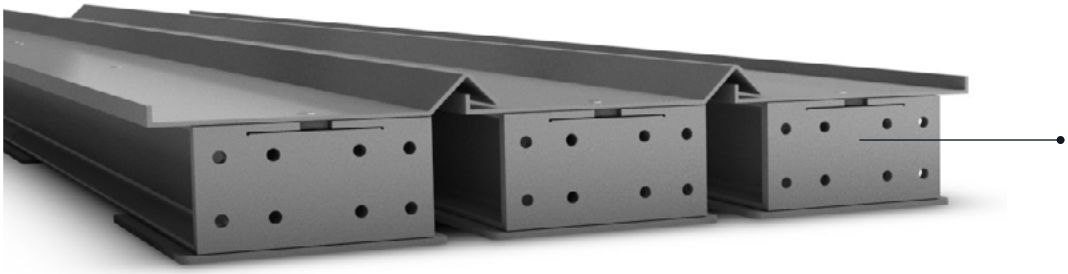
Fast assembly

The MovingFloor is easily and quickly assembled, as it was been conceived following the building kit principle.

Easy maintenance

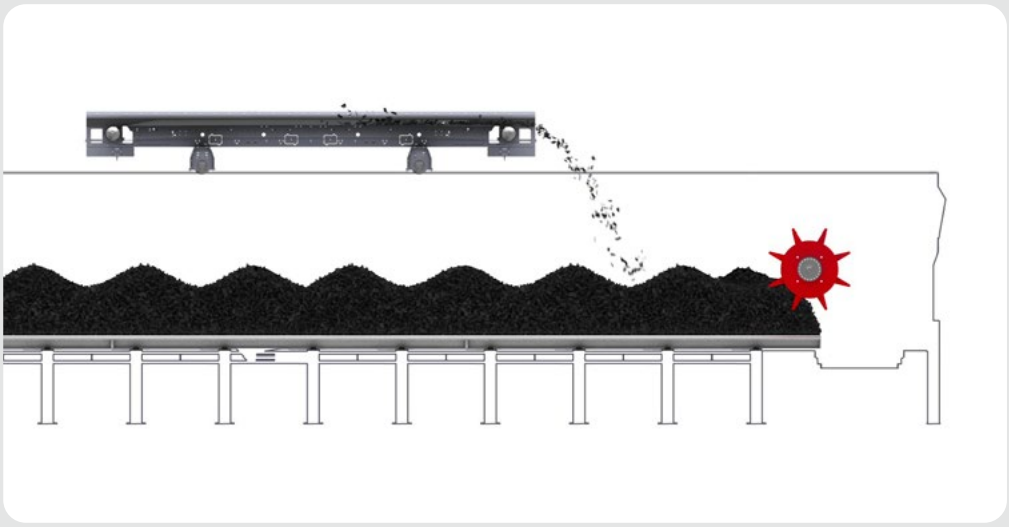
Minimum wear and tear costs due to omission of bearings, shafts, chains or conveyor belts.



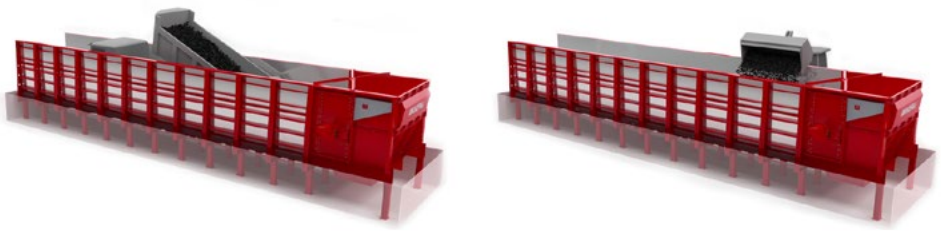


Robust sealing system with individually replaceable wear plates, supports up to 50 t/m^3 of material.

Application examples

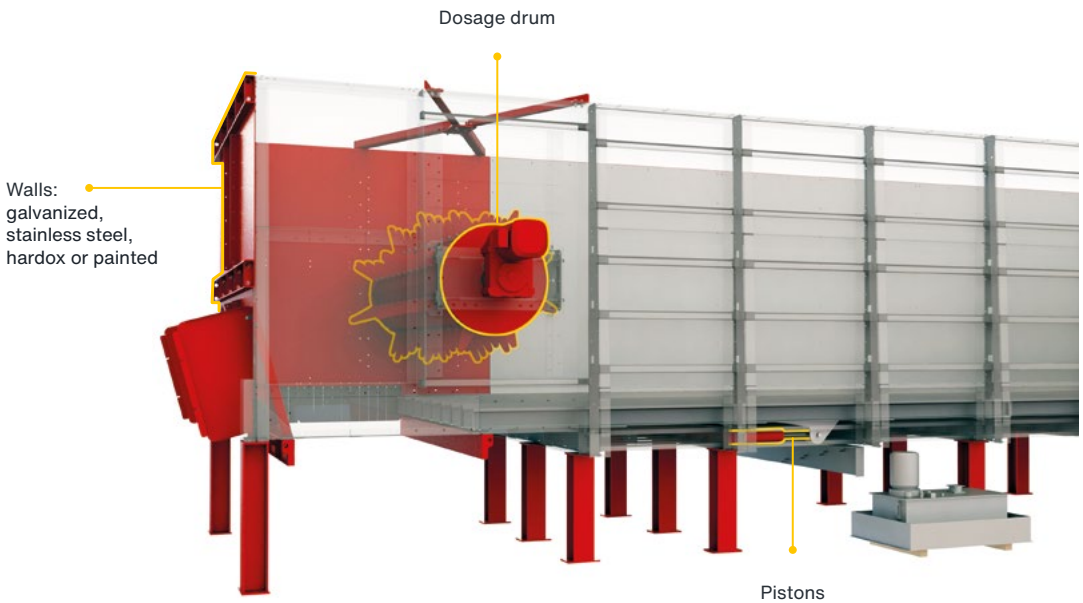


The MovingFloor can dose any bulk material for diverse applications, such as recycling or concrete processing plants.



Depending on the application, the material can be loaded in different ways.

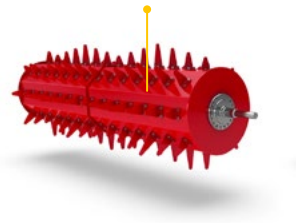
Options



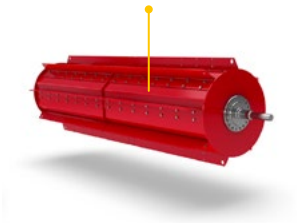
Equalisation drums

An equalisation drum can be added to ensure an constant material feeding even with a full bunker load. Its sealing system prevents materials jams between the casing wall and the drum. The height of the rollers can be easily adjusted.

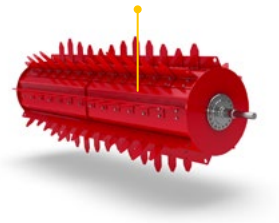
for shredded tires or biomass



for waste and compost



for construction waste



Material load

- Light: up to 0.3 t/m³
- Medium: up to 0.6 t/m³
- Heavy: up to 1.2 t/m³

Hydraulic pistons

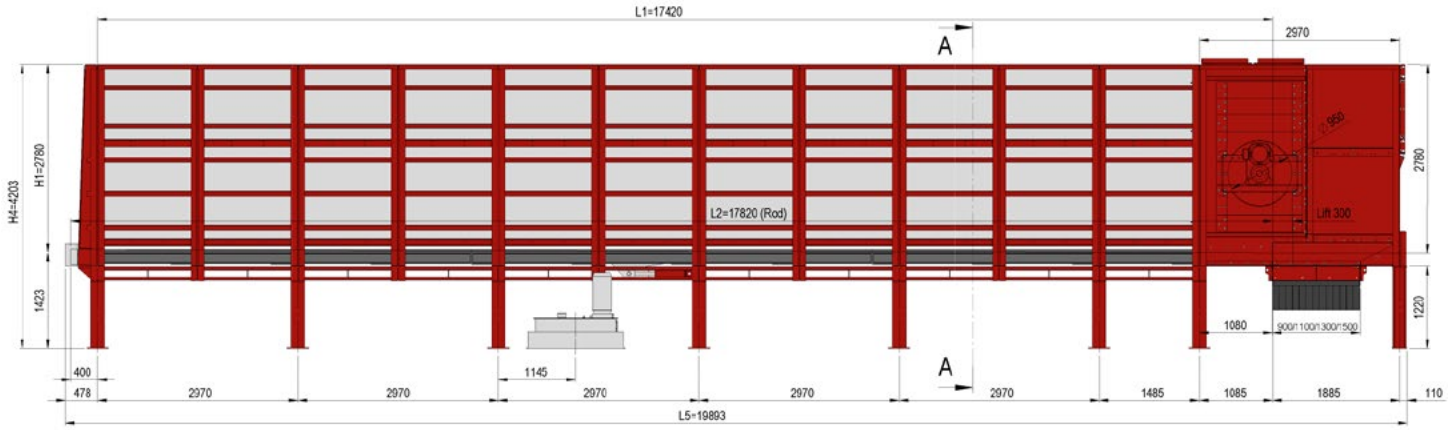
The MovingFloor can be configurated with five different hydraulic cylinder pistons with different diameters to fit any application.

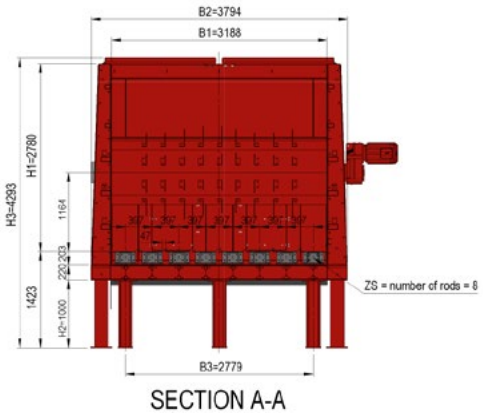
Integrable

Its technology can be integrated into existing concrete bunkers and ensures the maximum efficiency of connected sorting systems or incinerators.

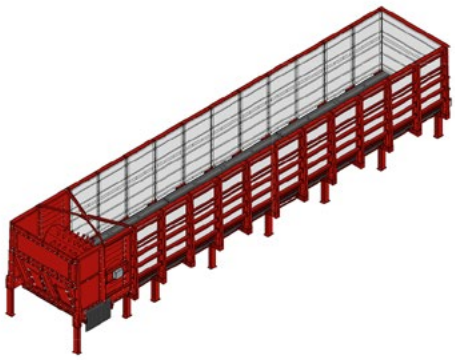
Technical information

MovingFloor Standard





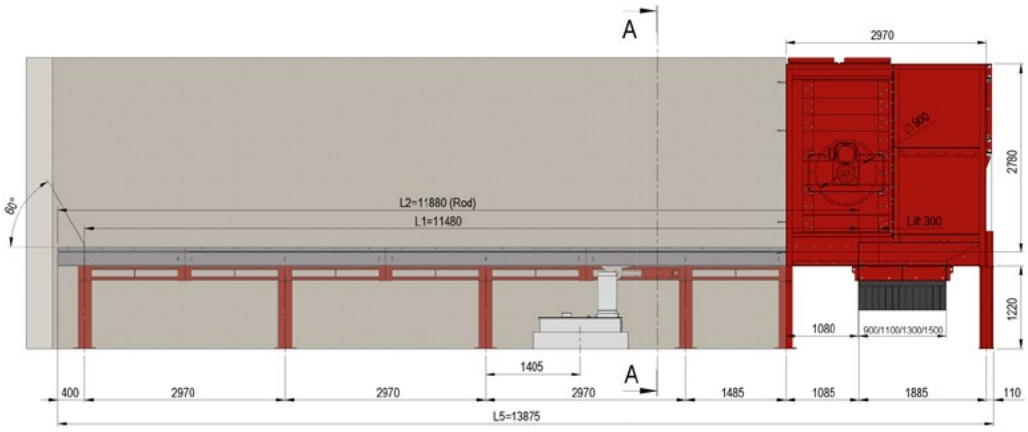
SECTION A-A

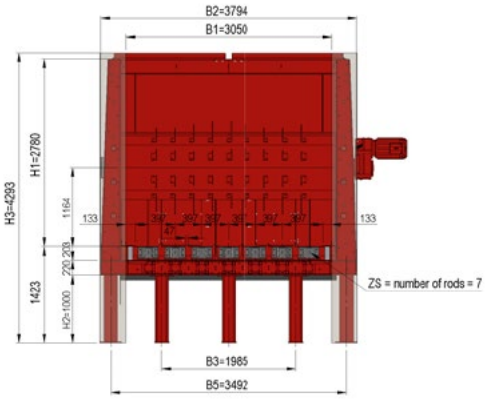


Drawed example: MovingFloor 160-18/3,8

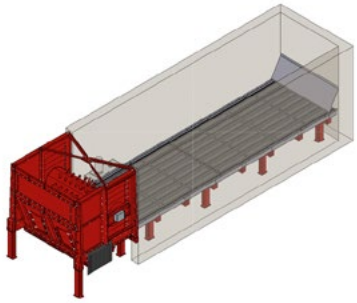
Model	Parameter	20-6/3,0	40-6/3,0	60-12/3,0	80-12/3,0	120-18/3,0	160-18/3,8	180-21/3,8	250-18/4,6	300-21/4,6	350-24/4,6	400-27/4,6	480-30/4,6
V	Calculatory volume (cbm) L1 / 1000 x B1 / 1000 x H1 / 1000	21	36	62	76	116	155	181	262	307	351	396	441
L1	Bunker internal length (mm)	5540	5540	11480	11480	17420	17420	20390	17420	20390	23360	26330	29300
L2	Rod length (mm)	5940	5940	11880	11880	17820	17820	20790	17820	20790	23760	26730	29700
L5	External length over everything (mm)	8013	8013	13953	13953	19893	19893	22863	19893	22863	25833	28803	31773
ZS	Number of rods division = 397 (number)	6	6	6	6	6	8	8	10	10	10	10	10
B1	Bunker internal width (mm)	2394	2394	2394	2394	2394	3188	3188	3982	3982	3982	3982	3982
B2	Bunker external dimensions over everything (mm)	3000	3000	3000	3000	3000	3794	3794	4588	4588	4588	4588	4588
B3	Support distance (mm)	1985	1985	1985	1985	1985	2 x 1389,5	2 x 1389,5	2 x 1786,5	2 x 1786,5	2 x 1786,5	2 x 1786,5	2 x 1786,5
B4	Width of discharge flange (mm)	2546	2546	2546	2546	2546	3340	3340	4134	4134	4134	4134	4134
H1	Side wall height from superstructure rods (mm)	1610	2780	2250	2780	2780	2780	2780	3780	3780	3780	3780	3780
H2	Support height: superstructure foundation up to beam (mm)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
H3	Height transfer chute with side stripes 1000 (mm)	4293	4293	4293	4293	4293	4293	4293	4293	4293	4293	4293	4293
H4	Feeding height: with a support height of 1000 (mm)	3033	4203	3673	4203	4203	4203	4203	5203	5203	5203	5203	5203
	Superstructure sliding floor to beam (mm)	423	423	423	423	423	423	423	423	423	423	423	423
	Superstructure sliding floor to beam (mm)	203	203	203	203	203	203	203	203	203	203	203	203
	Side covering of the rods (mm)	47	47	47	47	47	47	47	47	47	47	47	47
	Difference between internal and external width: B2 - B1 = (mm)	606	606	606	606	606	606	606	606	606	606	606	606
	Lift (mm)	300	300	300	300	300	300	300	300	300	300	300	300

MovingFloor for concrete bunkers





SECTION A-A



Drawed example: MovingFloor B 110

Model	Parameter	B 55	B 110	B 165	B 240	280	B 320	B 360	B 360
V	Calculatory volume (cbm) L2 / 1000 x B1 / 1000 x H1 / 1000	50	100	150	190	220	255	285	315
L1	Bunker internal length (mm)	5540	11480	17420	17420	20390	23360	26330	29300
L2	Rod length (mm)	5940	11880	17820	17820	20790	23760	26730	29700
L3	Internal length concrete wall (mm)	4935	10875	16815	16815	19785	22755	25725	28695
L5	External length over everything (mm)	7935	13875	19815	19815	22785	25755	28725	31695
ZS	Number of rods division = 397 (number)	7	7	7	9	9	9	9	9
B1	Bunker internal width (mm)	3050	3050	3050	3844	3844	3844	3844	3844
B2	External dimensions of overhead (mm)	3794	3794	3794	4588	4588	4588	4588	4588
B3	Support distance (mm)	1985	1985	1985	2 x 1389,5	2 x 1389,5	2 x 1389,5	2 x 1389,5	2 x 1389,5
B4	Width of discharge flange (mm)	3340	3340	3340	4134	4134	4134	4134	4134
B5	Support distance delivery side (mm)	3492	3492	3492	4286	4286	4286	4286	4286
H1	Side wall height from superstructure rods (mm)	2780	2780	2780	2780	2780	2780	2780	2780
H2	Support height: superstructure foundation up to beam (mm)	1000	1000	1000	1000	1000	1000	1000	1000
H3	Total height over all delivery heads: with a support height of 1000 (mm)	4293	4293	4293	4293	4293	4293	4293	4293
	Superstructure sliding floor to beam (mm)	423	423	423	423	423	423	423	423
	Side covering of the rods (mm)	47	47	47	47	47	47	47	47
	Difference between internal and external width: B2 - B1 = (mm)	744	744	744	744	744	744	744	744
	Lift (mm)	300	300	300	300	300	300	300	300

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