

# MAFA Unik Industrial silo



MAFA supplies equipment for handling bulk goods for various types of industry. The range encompasses silos, mixers for dry products, transporting equipment and dosing-, weighing- and control systems.

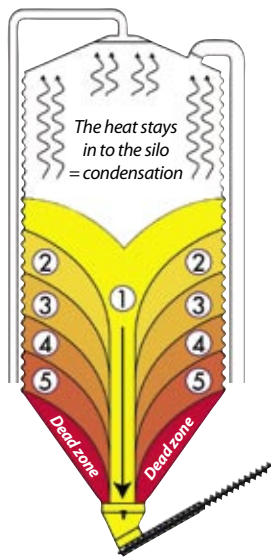
## MAFA Unik

Our best silo with "unique properties". Stable, simple design, manufactured in aluzinc plate, a Swedish high quality plate that combines the best properties of aluminium and zinc.

- Aluzinc only produces half the heat insulation in the silo compared with galvanized sheet-metal.
- Aluzinc has a service life that is 2 to 3 times as long galvanized sheet metal.
- Filling takes place gently via a wide radius curve and a large cyclone that minimises dust formation.
- The silo discharges from the bottom, so-called mass-flow (see reverse). Mass-flow ensures the least possible stratification, homogeneous material properties and traceability in material supplies.
- Smooth interior with special bolts and a steep cone mean that the silo can be emptied completely.
- Ventilation through the large cyclone removes all condensation problems.
- Several alternative auger boxes with progressive intakes for smooth and homogeneous onward transport.
- Large manhole hatch in the auger box.
- 7 year material warranty.

Model	Volume m <sup>3</sup>	Total height m	Diameter m	Weight kg
<b>Unik Small</b>				
UNS-6	6,3	5,33	1,88	380
UNS-9	8,9	6,29	1,88	450
UNS-12	11,5	7,25	1,88	520
<b>Unik</b>				
UN-12	12,0	6,45	2,34	685
UN-17	17,1	7,65	2,34	780
UN-22	22,3	8,85	2,34	880
UN-27	27,5	10,05	2,34	995
UN-33	32,6	11,25	2,34	1110
UN-38	37,8	12,45	2,34	1285
<b>Unik Big</b>				
UNB-25	24,6	7,87	3,10	1530
UNB-34	33,8	9,07	3,10	1690
UNB-43	42,9	10,27	3,10	1850
UNB-52	52,1	11,47	3,10	2155
UNB-61	61,3	12,67	3,10	2365
UNB-70	70,4	13,87	3,10	2525
UNB-80	79,5	15,07	3,10	2750

## MAFA Unik has mass-flow, providing unique benefits in materials handling



First in - last out

### Traditional silo with funnel flow

The silo is emptied by means of sliding in the middle of the silo. The heavier particles of material flow out first and the finer particles are last. A dead zone is formed at the bottom outer edge of the silo. There is a high level of separation and material hygiene deteriorates appreciably.

*(The figures in the drawings indicate the order in which the layers of powder are emptied)*

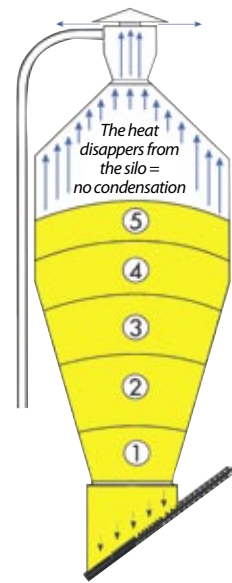
Tests show that a silo with traditional funnel flow can have an increased proportion of flour of up to 25% (= fine particles) at the end of the emptying process.

### MAFA Unik with mass flow

The prerequisites for mass flow are smooth silo walls, a steep cone and a special auger box. The silo is emptied from the bottom. All the material at the same level throughout the entire silo is emptied simultaneously. Separation is avoided, quality is maintained and hygiene is enhanced



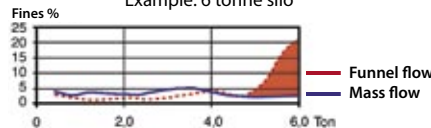
MAFA Unik with natural ventilation = no condensation



First in - first out

### Separation difference

Example: 6 tonne silo

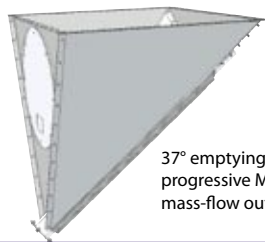


### Common to all MAFA Unik silos:

A large cyclone for even better filling and ventilation of the silo.



Special bolt with flat head prevents material residues in the silo.



37° emptying box with progressive MAFA auger for mass-flow out of the silo.

## Major advantages with Unik Big

- The MAFA Unik silo's unique emptying properties make it easy to replace two smaller silos with a single Unik Big and still obtain improved material hygiene.
- In common with the other MAFA Unik silos, the Unik Big model has mass-flow, which provides for homogeneous material regardless of which Unik-silo is selected.
- The external environment around Unik Big is also safeguarded thanks to the MAFA Unik cyclone's excellent separation capacity which delivers a clean environment around the silo with no unnecessary material residues



Further information on Mafa's range of silos is available at [www.mafa.se](http://www.mafa.se)

