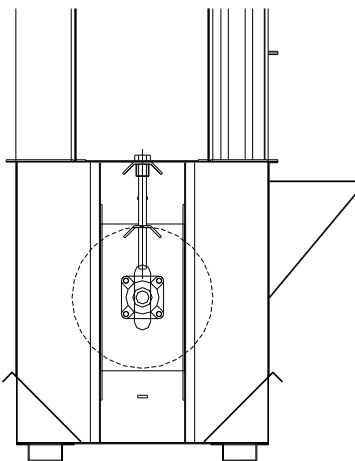
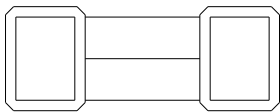
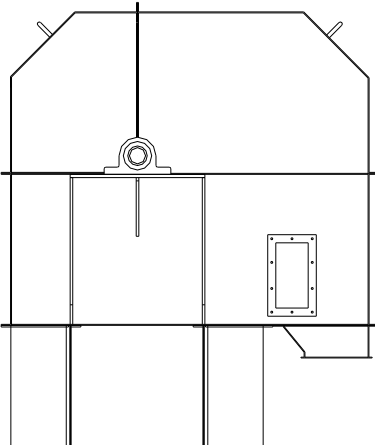


Bucket elevator

Datasheet no. 02 – 1

FM Bucket elevators are designed for vertical conveying of fine and coarse grained products. Manufactured and designed for industrial use.



Top and bottom sections are made from extra heavy materials. The top section is equipped with replaceable 10 mm Nonfric wear plate in the outlet.

The flange connections are dust proof. One of the leg pipes is supplied with inspection- and erection opening, with inspection glass. The elevator is in standard execution supplied with a strong belt, that is oil and fat resistant, and Starco type buckets.

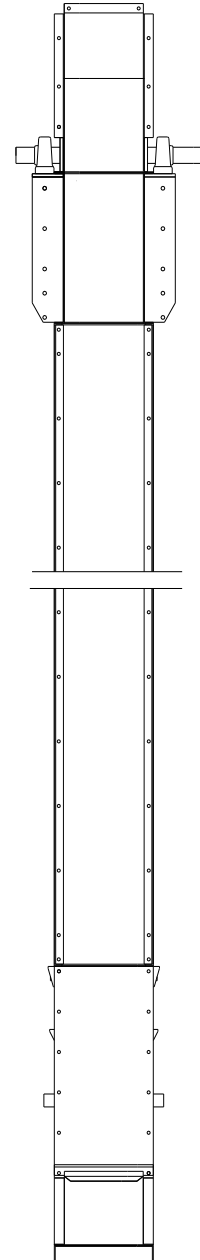
The elevator can be supplied with inlet in both sides, back stop, low speed guard and connection for aspiration.

The drive arrangement can be supplied as direct coupled geared motor, hollow shaft geared motor, or hollow shaft gear-box with v-belt drive from the electrical motor.

We supply the bucket elevators in the following executions :

- » Manufactured in St. 37 and painted surface in RAL 1013 (other colours on request).
- » Manufactured in St. 37 and hot dip galvanised, which is very suitable for outside installation.
- » Manufactured in stainless steel type AISI 304.
- » Manufactured in stainless steel type AISI 316.

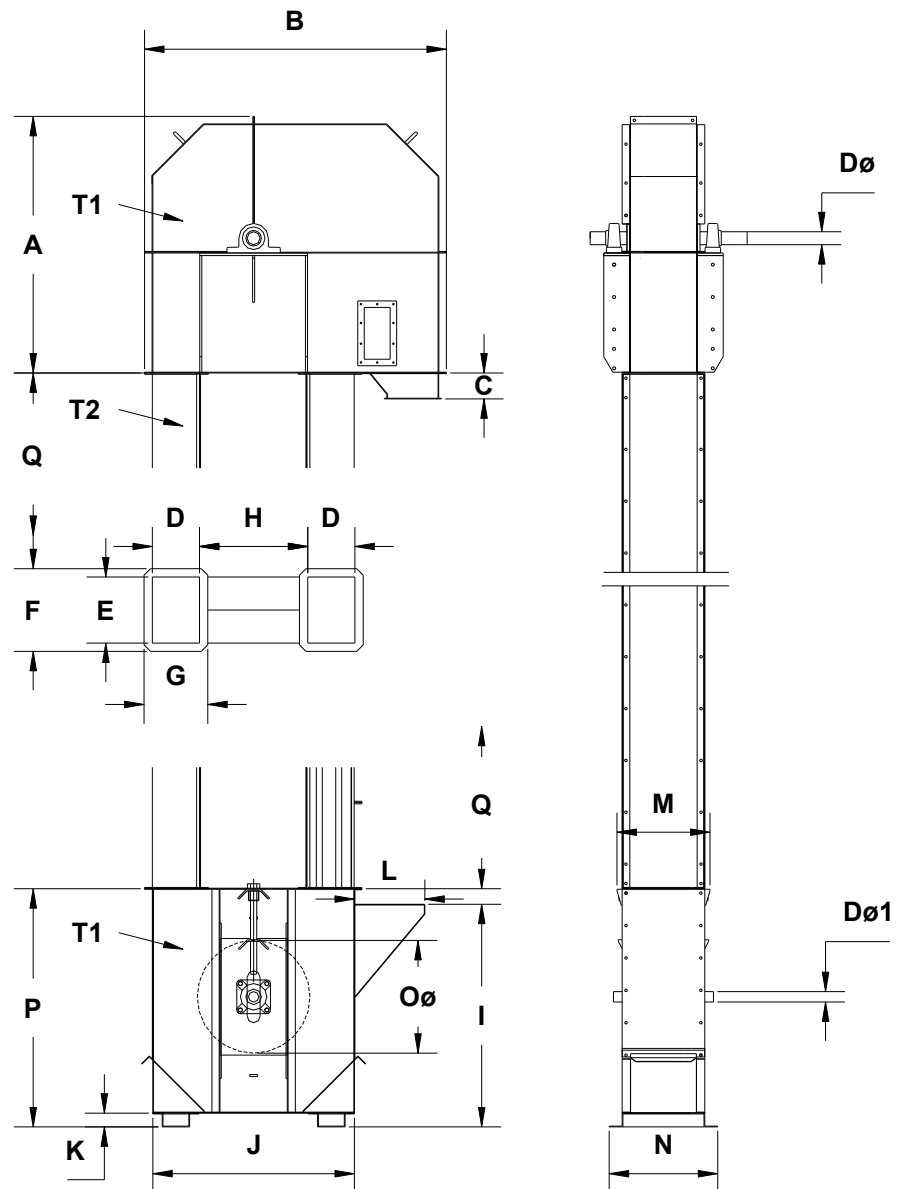
Conveying capacity up to 700 m³/h.



Bucket elevator

Datasheet no. 02 – 2

TYPE A 10 – A 64



Q-outlet is supplied according to capacity.

Type	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	T ₁	T ₂	d ^ø	D ^ø ₁	Max m ³ /h
A-10	714	890	119	143	155	219	207	254	736	544	46	272	260	314	278	806	1990	3	2	40	30	47
A-13	990	1165	100	182	205	269	246	414	857	780	56	272	310	370	435	929	1990	3	2	50	40	79
A-18	990	1165	100	182	255	319	246	414	857	780	56	272	360	420	435	929	1990	3	2	50	40	146
A-23	1316	1769	300	250	330	394	314	596	1240	1100	85	371	436	490	650	1272	1990	3	2	80	60	219
A-28	1316	1769	300	250	380	444	314	596	1240	1100	85	371	486	544	650	1272	1990	3	2	80	60	283
A-33	1544	2574	433	380	430	516	466	650	1645	1422	56	628	546	604	715	1691	1990	6	3	90	60	325
A-64	1544	2574	900	380	750	836	466	650	1645	1422	56	628	855	910	715	1691	1490	6	3	90	60	600

Bucket elevator

Datasheet no. 02 – 3

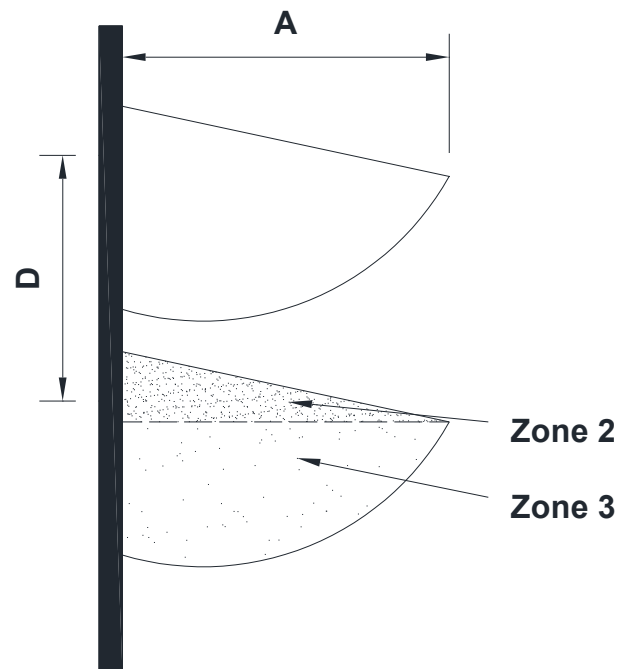
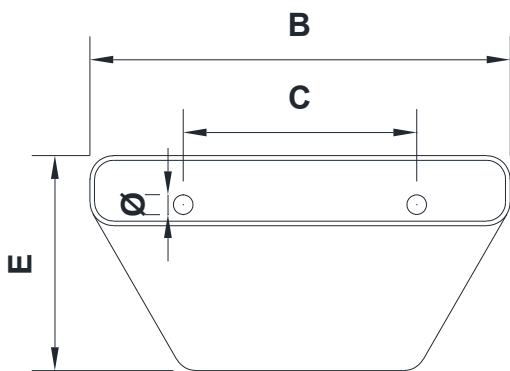


KAPACITETSSKEMA

Bucket Type	Td Pully Diameter	TØ Pully Circumference	1 mtr. /sec, equals	Buckets	Liters pr. bucket Zone 2	Belt speed in meters pr. second with capacity in m³/h Zone 2				
						1	1,5	2	2,5	3
SPS100-90 (S100-90 only available for spares)	0,278	0,873	68,7	5	0,33	5,94	8,91	11,88	14,85	17,82
				8		9,50	14,26	19,01	23,76	28,51
				10		11,88	17,82	23,76	29,70	35,64
				12		14,26	21,38	28,51	35,64	42,77
				13		15,44	23,17	30,89	38,61	46,33
				14		16,63	24,95	33,26	41,58	49,90
S130-120	0,435	1,367	43,9	7	0,68	17,14	25,70	34,27	42,84	51,41
				8		19,58	29,38	39,17	48,96	58,75
				9		22,03	33,05	44,06	55,08	66,10
				10		24,48	36,72	48,96	61,20	73,44
				11		26,93	40,39	53,86	67,32	80,78
				12		29,38	44,06	58,75	73,44	88,13
S180-140	0,435	1,367	43,9	6	1,29	27,86	41,80	55,73	69,66	83,59
				7		32,51	48,76	65,02	81,27	97,52
				8		37,15	55,73	74,30	92,88	111,46
				9		41,80	62,69	83,59	104,49	125,39
				10		46,44	69,66	92,88	116,10	139,32
				10,5		48,76	73,14	97,52	121,91	146,29
S230-165	0,65	2,042	29,4	5	2,47	44,46	66,69	88,92	111,15	133,38
				6		53,35	80,03	106,70	133,38	160,06
				7		62,24	93,37	124,49	155,61	186,73
				8		71,14	106,70	142,27	177,84	213,41
				9		80,03	120,04	160,06	200,07	240,08
S280-165	0,65	2,042	29,4	5	3,05	54,90	82,35	109,80	137,25	164,70
				6		65,88	98,82	131,76	164,70	197,64
				7		76,86	115,29	153,72	192,15	230,58
				8		87,84	131,76	175,68	219,60	263,52
				9		98,82	148,23	197,64	247,05	296,46
JET 33-250	0,715	2,246	26,7	2	8,95	64,44	96,66	128,88	161,10	193,32
				3		96,66	144,99	193,32	241,65	289,98
				4		128,88	193,32	257,76	322,20	386,64
				5		161,10	241,65	322,20	402,75	483,30
				2		123,84	185,76	247,68	309,60	371,52
JET 63-250	0,715	2,246	26,7	3	17,2	185,76	278,64	371,52	464,40	557,28
				4		247,68	371,52	495,36	619,20	743,04
				5		309,60	464,40	619,20	774,00	928,80
				5		309,60	464,40	619,20	774,00	928,80

ELEVATOR BUCKETS

- » Same bucket type suitable for all products
- » Heavy-duty construction w/o welding
- » More capacity on lesser space
- » Designed for gentle conveying
- » FM buckets are mounted on oil and fat resistant, antistatic and fireproof belt with a breaking load up to 1400 kilos pr cm². brudbelastning op til 1400



Technical data

Bucket type	Measurements in mm					Pl. mm	No's holes	Max. no's buckets	Weight kilo/kop	Capacity in litres		Bucket bolts Ø x længde
	A	B	C	D	E					2	3	
SP100	89	106	50	71	58	1,0	2 x 8,5	14,0	0,11	0,21	0,18	8 x 25
S130	114	138	70	83	80	1,5	2 x 8,5	12,0	0,35	0,68	0,50	8 x 25
S180	140	188	100	92	92	1,5	2 x 8,5	10,5	0,53	1,29	0,90	8 x 25
S230	163	239	120	111	108	2,0	2 x 11	9,0	1,01	2,47	1,84	10 x 30
S280	163	289	160	111	108	2,0	3 x 11	9,0	1,32	3,05	2,30	10 x 30
J33	253	340	240	200	190	3,0	4 x 11	5,0	4,10	8,95	6,70	10 x 30
J64	253	640	540	200	190	3,0	7 x 11	5,0	7,80	17,20	13,00	10 x 30

FEEDING SCREW

FM Bucket elevator can be supplied with feeding screws, enabling feeding the elevator with difficult goods, securing to reach the requested conveying capacity

All our bucket elevators can be supplied with the feeding screw securing maximum capacity in difficult products.

When supplying bucket elevators to difficult products such as meat and bone meal, fish meal and similar difficult products, we always recommend the use of the feeding screw system, securing the requested capacity.

An additional plus using this feeding system is that the building height of the inlet can be considerably lower than the traditional feeding height.

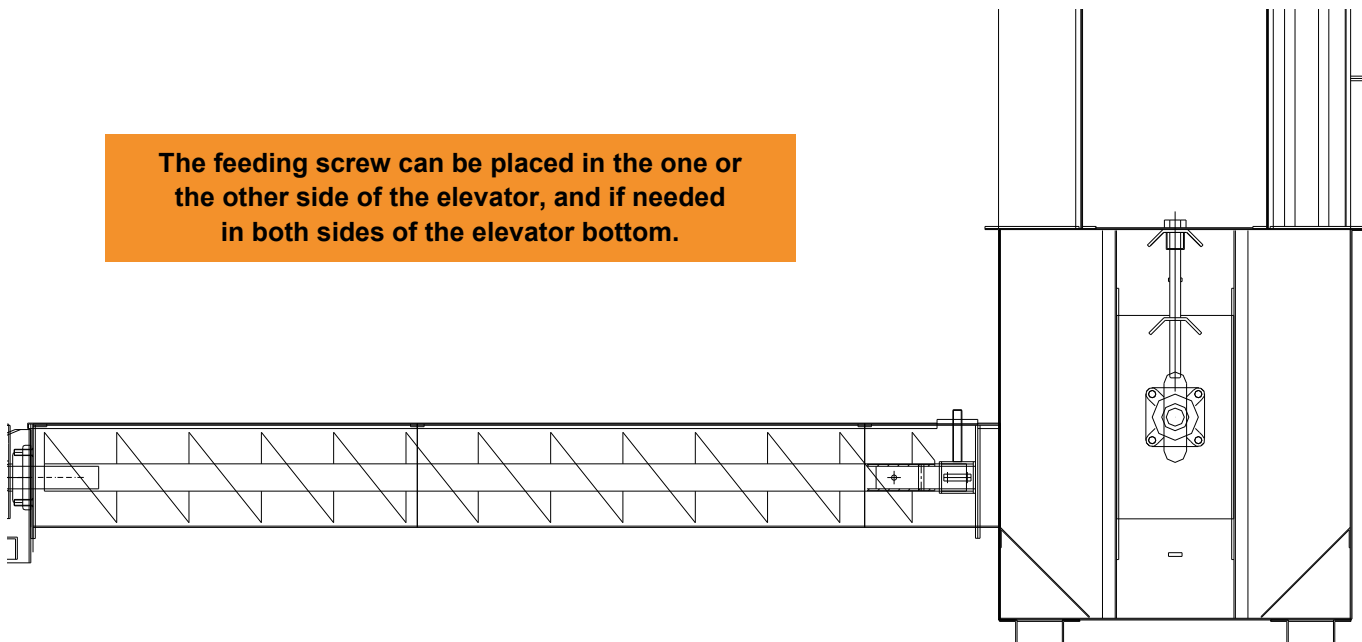
This alternative feeding of the elevator will not have any influence on the quality of the goods conveyed, when done correctly.

A 13 bucket elevator supplied with double feeding screws, and all in hot dip galvanised execution.

For conveying meat and bone meal to a heating plant.

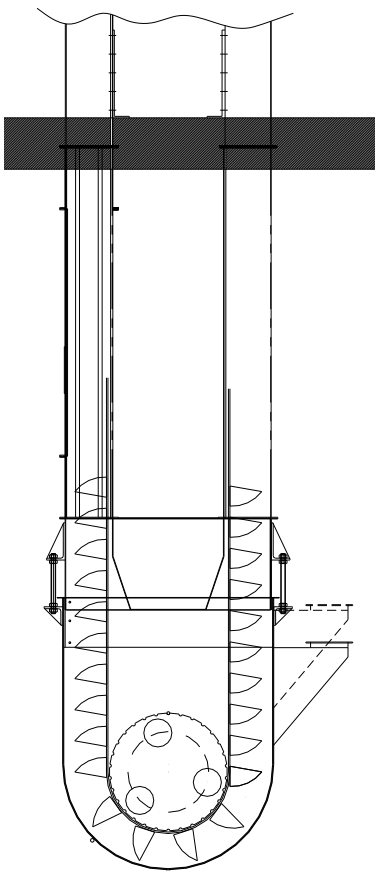


The feeding screw can be placed in the one or the other side of the elevator, and if needed in both sides of the elevator bottom.



PELLET CONVEYING

FM PELLET ELEVATOR is specially designed for gentle conveying, for example extruded fish feed pellets, and similar products, needing gentle handling. The pellet elevator is normally supplied in stainless steel AISI 304.



The elevator head is supplied in standard execution and is equipped with 10 mm Nonfric wear-plate in the outlet.

The elevator bottom is manufactured in rounded design enabling complete emptying of the elevator bottom, as the rounded bottom part is moving up and down along with the tightening of the belt.

The elevator is equipped with heavy belt that is oil and fat resistant type, and the buckets are Starco type in stainless steel. The elevator is supplied with inlet in one side, back stop, low speed guard, and can additionally be supplied with adaptor for aspiration.

The drive arrangement is supplied either as direct coupled geared motor, hollow shaft geared motor, or hollow shaft gear-box fitted on the shaft of the elevator head, and with V-belt drive from motor to gear-box.

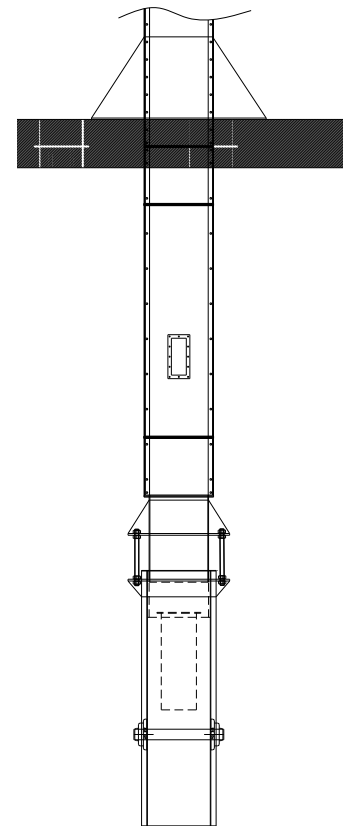
Inlet has to be done either with a flexible connection or telescopic tube, which follows the bottom part of the elevator whilst tightening the belt.

The elevator is designed either for hanging in a concrete intermediate floor, or can be supplied with support for standing on the floor.

Normally the elevator is supplied in stainless steel AISI 304. Can be supplied in stainless steel AISI 316, or mild steel on request.

Conveying capacities as pr. request.

Do not hesitate to ask us about further information if needed.



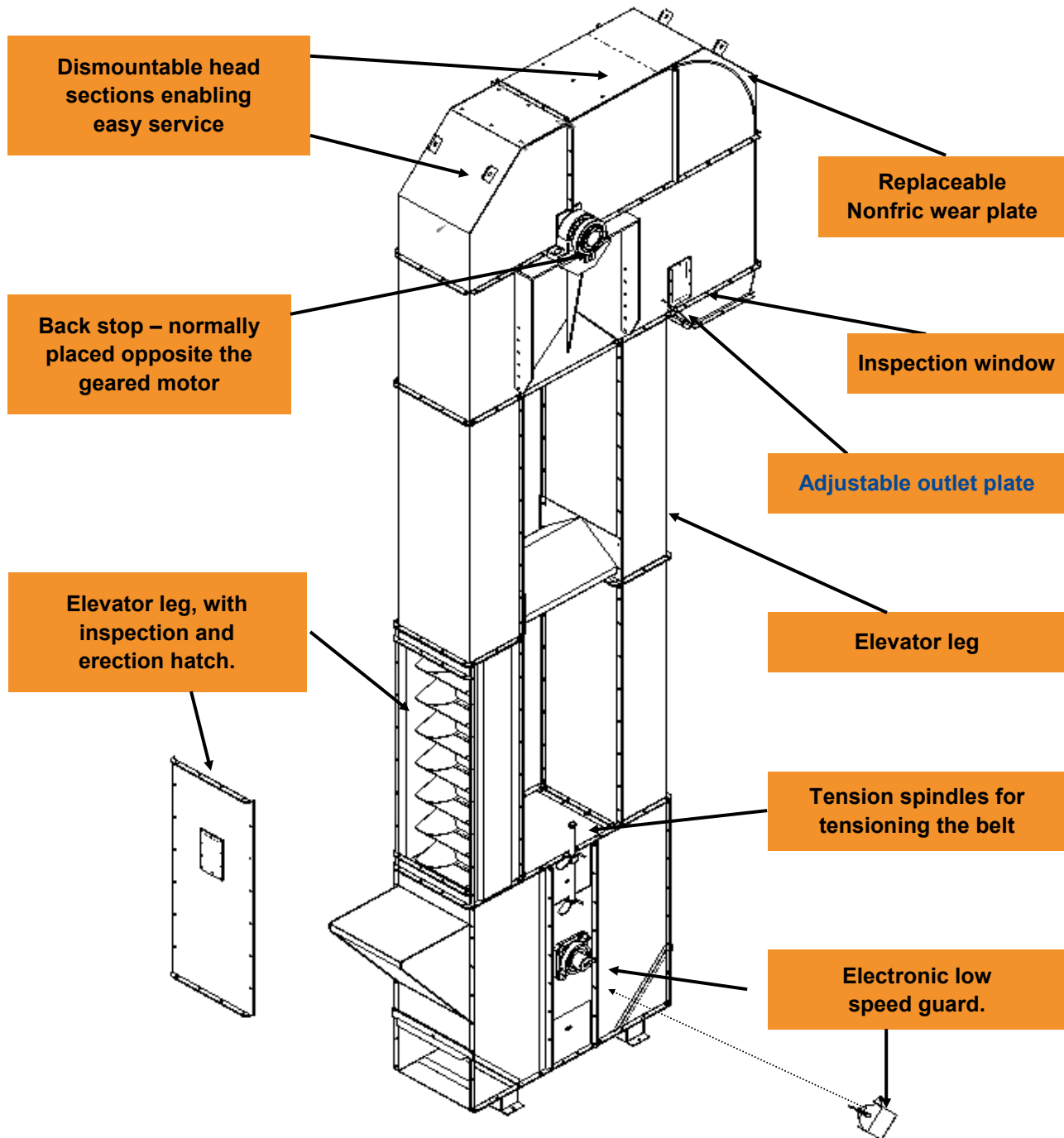
Bucket elevator

Datasheet no. 02 – 7



**FM Bulk
Handling**
FJORDVEJS

DESIGN



FILTER / PRESSURE RELEASE

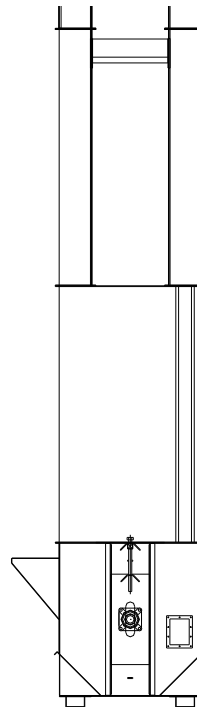
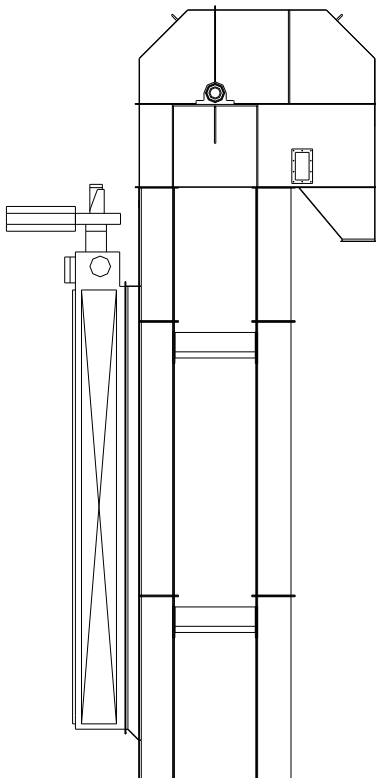
FM Bucket Elevator can be supplied with spot filters, pressure evening pipe, and pressure release openings.

Spot filter on bucket elevator:

All FM bucket elevators can be equipped with spot filters. Is normally placed on the leg where the elevator belt is moving up.

The use of spot filters is securing that the dust is kept in the material stream.

Type of filter is supplied according to request.

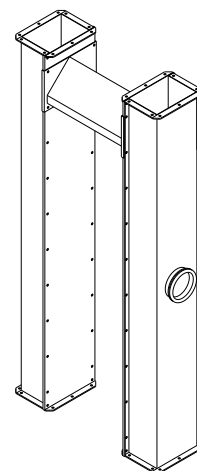


Pressure evening pipe:

The shown solution with one common elevator leg in the bottom of the elevator is evening out the air stream that always are inside the elevator, enabling more easy feeding with light material.

This solution is minimizing the up-going air stream in the inlet of the elevator.

Available on request, for all types of FM bucket elevators.



Pressure release:

Local regulations can be demanding pressure release on machinery.

FM normally supply this type, with a rubber lid that will be blown out, in the incident of overpressure in the elevator.

Other executions can be supplied on request.

Bucket elevator

Datasheet no. 02 – 9

DETAILS



The elevator head is provided with pedestal bearings, which are a very stable and strong structure, enabling dismantling both top cover parts for service and maintenance.

The outlet "house" will always be supplied with an inspection window.

The elevator bottom is fabricated from heavy steel plates. The elevator bottom is provided with flange bearings.

Tensioning of the belt is done via two spindles, one on each side of the elevator bottom.

The inlet hopper is supplied as a fully closed unit, ready for connecting to feeding pipes.

The electronic low speed guard is mounted in a solid bracket, fastened on the bearing bolts.

The bracket allows easy access to the bearing grease nipple.



The use of split bushings for fastening the drums on the shafts in the head, as well as in the bottom of the elevator, is enabling easy dismantling of the shafts, if needed, even after long operation time.