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Belt bucket elevators

GBW 80 to GBW 1250

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Gear types:	Spur gears, offset shaft gears and bevel gears
Drive types:	Direct drive
Gauge of vertical	2 mm (up to 19 m distance between centres) to 5 mm (up to 60 m
section steel sheet:	distance between centres)*
Shaft seals:	Braided seal
Bucket elevator foot:	Access doors/Inspection flaps/Movable inlet/Bucket conveyor/RPM monitoring/Tensioning unit
Bucket elevator head:	Inspection flaps/Misalignment monitor/Discharge plate adjustable
Containers:	DIN 15 231/DIN 15 232/DIN 15 233/DIN 15 234
Additional options:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/Exhaustion/
	Level indicator/Slip monitoring/Special bucket/Special housing/Bucket conveyor with moving scoop/
	Gravitational tensioning/Separate backstop/Large heights on request

	Filling ratio						Bu	cket wi	dth [mi	m]				
Becherform	%	80	100	125	160	200	250	315	400	500	630	800	1000	1250
Becherionii	76		Conveyor output [m3/h] at v = 1.3 m/sec											
madium daan	100	o.r.	o.r.	o.r.	11,1	17,5	22	35,1	51	74,1	108	157	292,5	o.r.
medium deep DIN 15 233	90	o.r.	o.r.	o.r.	10	15,7	19,8	31,6	45,9	66,7	97	141	263,3	o.r.
DIN 13 233	75	o.r.	o.r.	o.r.	8,3	13,1	16,5	26,3	38,2	55,5	81	118	219,4	o.r.
	100	o.r.	o.r.	o.r.	17,5	27,6	35,1	56,1	80,8	117	170	250	454,7	447,1
deep	90	o.r.	o.r.	o.r.	15,7	24,8	31,6	50,5	72,7	105,3	153	225	409,2	402,4
DIN 15 234	75	o.r.	o.r.	o.r.	13,1	20,7	26,3	42	60,6	87,7	127,5	187,5	341	335,3
	max 90**	o.r.	o.r.	o.r.	38	55	94	106	152	216	302	426	591	740

o.r. = on request, * Gauge depends on place of installation, ** v=1.83 m/s, min. Bucket spacing

Conveyor output m3/h (theor.): The conveyor speed [v] and bucket spacing are assumed averages. They are determined in each case by product being conveyed and conveyor output. The actual bucket filling ratio to be chosen depends on the characteristics of the material being conveyed.



Chain bucket elevators with round link chains KBW 160 to KBW 1000

Technical Data

Materials:	S235JR (St37)/1.4301/1.4571
Gear types:	Spur gears, offset shaft gears and bevel gears
Drive types:	Direct drive
Gauge of vertical	2 mm (up to 19 m distance between centres) to 5 mm (up to 60 m
section steel sheet:	distance between centres)*
Shaft seals:	Braided seal
Bucket elevator foot:	Access doors/Inspection flaps/Movable inlet/Bucket conveyor/RPM monitoring/Tensioning unit
Bucket elevator head:	Inspection flaps/Discharge plate adjustable
Containers:	DIN 15 231/DIN 15 232/DIN 15 233/DIN 15 234
Additional options:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/Exhaustion/
	Level indicator/Slip monitoring/Special bucket/Special housing/Bucket conveyor with moving scoop/
	Gravitational tensioning/Separate backstop/Large heights on request

	Filling ratio				Bucl	cet width [r	nm]			
Puelcat abana	Bucket shape %	160	200	250	315	400	500	630	800	1000
bucket snape			Conveyor output [m3/h] at v = 1.1 m/sec							
	100	8	12,8	15,5	24,8	39,5	54,8	76	103	137
medium deep DIN 15 233	90	7,2	11,5	14	22,3	35,5	49,3	68,4	92,7	123,3
DIN 13 233	75	6	9,6	11,6	18,6	29,6	41	57	77,2	102,7
	100	12,5	19,5	25	40	63	87	120	165	220
deep	90	11,2	17,5	22,5	36	56,6	78,3	108	148,5	198
DIN 15 234	75	9,4	14,6	18,7	30	47,3	62,5	90	124	165
	max 90**	23	36	57	71	92	128	177	242	317

o.r. = on request, * Gauge depends on place of installation, ** v=1.3 m/s, min. Bucket spacing

Conveyor output m3/h (theor.): The conveyor speed [v] and bucket spacing are assumed averages. They are determined in each case by product being conveyed and conveyor output. The actual bucket filling ratio to be chosen depends on the characteristics of the material being conveyed.





BW 160

Technical Data

Materials:	S235JR (St37)/1.4301
Traction mechanism:	Belt/Steel round link chain/Central chain
Bucket size:	160 - DIN 15234/1.5 litre
Bucket spacing:	400 mm
Gauge of vertical section steel sheet:	2 mm (up to 19 m distance between centres) to 3 mm (up to 30 m distance between centres) $\!^\star$
Sheet gauge of head:	4 mm
Sheet gauge, foot:	5 mm
Inlet I.W.:	180 mm x 180 mm
Outlet I.W.:	305 mm x 355 mm
Gear size SEW:	KAZ57/KAZ67/KAZ77/KAZ87
Drive bearing:	ø 50/60/70/80
Return chain bearing in foot:	ø 40
Driving drum:	ø 500
Return chain pulley:	ø 500
Belt misalignment monitoring:	4b Touch switch TS1V4CA
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
	Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
	Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/
	Heights over 30 m distance between centres on request



Bucket elevator

BW 200

Technical Data

Materials:	S235JR (St37)/1.4301
Traction mechanism:	Belt/Steel round link chain/Central chain
Bucket size:	200 - DIN 15234/2.36 litre
Bucket spacing:	400 mm
Gauge of vertical section steel sheet:	2 mm (up to 19 m distance between centres) to 3 mm (up to 30 m distance between centres)*
Sheet gauge of head:	4 mm
Sheet gauge, foot:	5 mm
Inlet I.W.:	220 mm x 220 mm
Outlet I.W.:	305 mm x 400 mm
Gear size SEW:	KAZ57/KAZ67/KAZ77/KAZ87
Drive bearing:	ø 50/60/70/80
Return chain bearing in foot:	ø 40
Driving drum:	ø 500
Return chain pulley:	ø 500
Belt misalignment monitoring:	4b Touch switch TS1V4CA
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
	Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
	Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/

Heights over 30 m distance between centres on request

^{*} Gauge depends on place of installation
* Gauge depends on place of installation





BW 250

Technical Data

al chain
en centres) to 3 mm (up to 30 m distance between centres)*
M18-AP6X/3D
2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
upling/Platform/ATEX design/Rupture discs/
et/Slip monitoring/Special bucket/Special housings/
p/Gravitational tensioning/Separate backstop/
en centres on request



Bucket elevator

BW 315

Technical Data

Materials:	S235JR (St37)/1.4301
Traction mechanism:	Belt/Steel round link chain/Central chain
Bucket size:	315 - DIN 15234/6 litre
Bucket spacing:	500 mm
Gauge of vertical section steel sheet:	3 mm (up to 19 m distance between centres) to 4 mm (up to 45 m distance between centres)*
Sheet gauge of head:	5 mm
Sheet gauge, foot:	5 mm
Inlet I.W.:	335 mm x 335 mm
Outlet I.W.:	425 mm x 560 mm
Gear size SEW:	KAZ77/KAZ87/KAZ97
Drive bearing:	ø 60/70/80/90
Return chain bearing in foot:	ø 50
Driving drum:	ø 630
Return chain pulley:	ø 630
Belt misalignment monitoring:	4b Touch switch TS1V4CA
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
	Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
	Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/

Heights over 45 m distance between centres on request

^{*} Gauge depends on place of installation

^{*} Gauge depends on place of installation



BW 400

Technical Data

S235JR (St37)/1.4301
Belt/Steel round link chain/Central chain
400 - DIN 15234/9.5 litre
550 mm
3 mm (up to 19 m distance between centres) to 4 mm (up to 45 m distance between centres)*
6 mm
6 mm
425 mm x 425 mm
555 mm x 670 mm
KAZ87/KAZ97/KAZ107
ø 80/90/100/110
ø 70
ø 710
ø 710
4b Touch switch TS1V4CA
4b with proximity switch Ni12U-EM18-AP6X/3D
as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/
Heights over 45 m distance between centres on request



Bucket elevator

BW 500

Technical Data

Materials:	S235JR (St37)/1.4301
Traction mechanism:	Belt/Steel round link chain/Central chain
Bucket size:	500 - DIN 15234/15 litre
Bucket spacing:	600 mm
Gauge of vertical section steel sheet:	3 mm (up to 19 m distance between centres) to 4 mm (up to 45 m distance between centres) *
Sheet gauge of head:	6 mm
Sheet gauge, foot:	6 mm
Inlet I.W.:	525 mm x 525 mm
Outlet I.W.:	490 mm x 800 mm
Gear size SEW:	KAZ97/KAZ107/KAZ127
Drive bearing:	ø 90/100/110/115/125
Return chain bearing in foot:	ø 80
Driving drum:	ø 800
Return chain pulley:	ø 800
Belt misalignment monitoring:	4b Touch switch TS1V4CA
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
	Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
	Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/

Heights over 45 m distance between centres on request

* Gauge depends on place of installation
* Gauge depends on place of installation



BW 630

Technical Data

S235JR (St37)/1.4301
Belt/Steel round link chain/Central chain
630 - DIN 15234/23.6 litre
650 mm
3 mm (up to 19 m distance between centres) to 4 mm (up to 45 m distance between centres)*
6 mm
6 mm
180 mm x 180 mm
540 mm x 1000 mm
KAZ97/KAZ107/KAZ127
ø 100/110/115/125/135
ø 90
ø 900
ø 900
4b Touch switch TS1V4CA
4b with proximity switch Ni12U-EM18-AP6X/3D
as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/
Heights over 45 m distance between centres on request



Bucket elevator

BW 800

Technical Data

Materials:	S235JR (St37)/1.4301
Traction mechanism:	Belt/Steel round link chain/Central chain
Bucket size:	800 - DIN 15234/37.5 litre
Bucket spacing:	700 mm
Gauge of vertical section steel sheet:	4 mm (up to 19 m distance between centres) to 5 mm (up to 60 m distance between centres)*
Sheet gauge of head:	8 mm
Sheet gauge, foot:	8 mm
Inlet I.W.:	830 mm x 830 mm
Outlet I.W.:	625 mm x 1200 mm
Gear size SEW:	KAZ107/KAZ127/KAZ157
Drive bearing:	ø 110/115/125/135/140
Return chain bearing in foot:	ø 100
Driving drum:	ø 1000
Return chain pulley:	ø 1000
Belt misalignment monitoring:	4b Touch switch TS1V4CA
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
	Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
	Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/
	Heights over 60 m distance between centres on request

^{*} Gauge depends on place of installation
* Gauge depends on place of installation



BW 1000

Technical Data

S235JR (St37)/1.4301
Belt/Steel round link chain/Central chain
1000 - DIN 15234/60 litre
800 mm
4 mm (up to 19 m distance between centres) to 5 mm (up to 60 m distance between centres)*
10 mm
10 mm
1040 mm x 1040 mm
630 mm x 1300 mm
KAZ107/KAZ127/KAZ157
ø 110/115/125/135/140
ø 110
ø 1250
ø 1250
4b Touch switch TS1V4CA
4b with proximity switch Ni12U-EM18-AP6X/3D
as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/
Heights over 60 m distance between centres on request



Bucket elevator

BW 1250

Technical Data

Materials:	S235JR (St37)/1.4301
Traction mechanism:	Belt/Steel round link chain/Central chain
Bucket size:	2 x 630/projection as 800, similar to DIN 15234/2 x 29.5 liters
Bucket spacing:	650 mm
Gauge of vertical section steel sheet:	4 mm (up to 19 m distance between centres) to 5 mm (up to 60 m distance between centres)*
Sheet gauge of head:	10 mm
Sheet gauge, foot:	10 mm
Inlet I.W.:	830 mm x 1290 mm
Outlet I.W.:	630 mm x 1550 mm
Gear size SEW:	KAZ107/KAZ127/KAZ157
Drive bearing:	ø 110/115/125/135/140
Return chain bearing in foot:	ø 100
Driving drum:	ø 1000
Return chain pulley:	ø 1000
Belt misalignment monitoring:	4b Touch switch TS1V4CA
RPM monitoring:	4b with proximity switch Ni12U-EM18-AP6X/3D
Surface finish:	as per Data Sheet DIN 12944-5 C2 or C3, RAL 1015/5010/6011/7035/9001 satin gloss
Additional options at extra:	Drive with spur gear motor and coupling/Platform/ATEX design/Rupture discs/
	Exhaustion/Level indicator/2. Inlet/Slip monitoring/Special bucket/Special housings/
	Bucket conveyor with moving scoop/Gravitational tensioning/Separate backstop/

Heights over 60 m distance between centres on request

^{*} Gauge depends on place of installation
* Gauge depends on place of installation

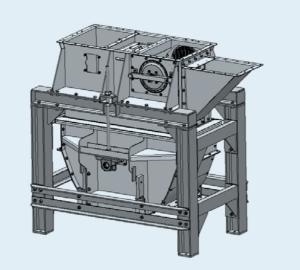


Accessories and custom-made parts

for elevators

Bucket conveyor with moving scoop

for remnant-free cleaning out of moving scoop



DIN-Bucket with belt

for belt bucket elevators (from size 160)



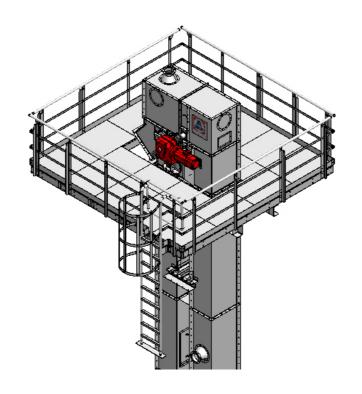
DIN-Bucket with steel round link chain

for chain bucket elevators (from size 160)



Bucket elevator head platform

Self-supporting, can be mounted anywhere on the elevator towers



Rex-Bucket with Rex chain

for central chain bucket elevators (from size 315)



Special buckets with ventilation holes

for fine, compact goods such as cement





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Reliable, high-performance technology is a prerequisite for economic and efficient production. To make sure that you can always rely on your plant, we not only supply first-class technology, but also a customized service portfolio. We want you to be able to focus on the essentials, and make optimum use of the potentials provided by your investments.

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