

A NEW GENERATION OF ELEVATORS



**SKANDIA
ELEVATOR**

THE LEADING COMPANY

SKANDIA ELEVATOR PRESENTS A NEW GENERATION OF ELEVATORS

A NEW DESIGN FOR OPTIMAL FLOW

FOR MANY YEARS, SKANDIA ELEVATOR HAS PRODUCED ELEVATORS AND CONVEYORS FOR MORE EFFICIENT GRAIN HANDLING. WITH INPUT FROM OUR CUSTOMERS, AND THROUGH CLOSE ANALYSIS OF MATERIALS HANDLING, WE HAVE NOW DEVELOPED A NEW GENERATION OF ELEVATORS. THE RESULT IS AN OPTIMISED FLOW, LESS WEAR AND SIMPLER MAINTENANCE, WHILE THE ELEVATORS CAN BE BUILT HIGHER.



THE NEW GENERATION IN BRIEF

SIMPLER SERVICE

Great focus has been given to the design in order to simplify service and maintenance. Among other things, the elevator hood is now dividable, the inspection hatches in the legs have been made larger and the boot has two extra cleaning hatches in the form of retractable cassettes on the short sides. These smart solutions provide more convenient access, which in turn simplifies the work and reduces downtime.

MORE RELIABLE OPERATION

The general design and function of the elevators have been revised in order to provide more reliable operation. As an example, the drive wheel is fully coated with ribbed friction rubber. This new solution provides an optimised grip and prevents material from attaching between the drive wheel and belt.

SIMPLER INSTALLATION AND ADJUSTMENTS

Revising the design of the individual components has meant that the assembly and adjustments have become simpler. A fast and secure installation also means getting the operation started more quickly.

HIGHER QUALITY

In order to meet customer requirements, we have increased the dimensions, changed belt type to VLE (Very Low Elongation), and optimised the power requirement. This means that we can build higher elevators. The new VLE belt stretches considerably less and has longer service life, which significantly reduces the need for retensioning. Naturally, this saves both time and money. In order to minimise the risk of wear, we have also increased the surface area of wearing surfaces in the elevator hood and the outlet, and also added wearing surfaces on all exposed surfaces in the elevator boot.



Clean out hatches on all side plates in the elevator boot.

ELEVATOR HEAD

- The elevator hood is dividable.
- There is an inspection hatch on each side plate in the head.
- The head pulley assembly is vertically detachable.
- The adjustment ratchets for belt alignment adjustment are easily accessible.
- The bearing housings are in a more compact design, which reduces the dimensions of the mechanical structure by 30–40 mm, and reinforces the supporting structure.
- The drive wheel is fully coated with ribbed friction rubber.
- A new design of elevator hood has been developed using simulations and calculations. The design now follows the trajectory of the grain, which minimises wear to the steel plate and damage to the grain.
- All exposed surface areas are equipped with plastic wearing surfaces.

BELT AND BELT TENSIONING

- VLE belt.
- More generous belt tensioning options.

ELEVATOR LEGS

- The elevator legs have larger cross-section.
- The leg joints are made of thicker steel plate.
- The bolted joints for the leg covers are fitted in external flanges, which facilitates the assembly of various accessories.
- The service doors are larger.

OTHER ITEMS

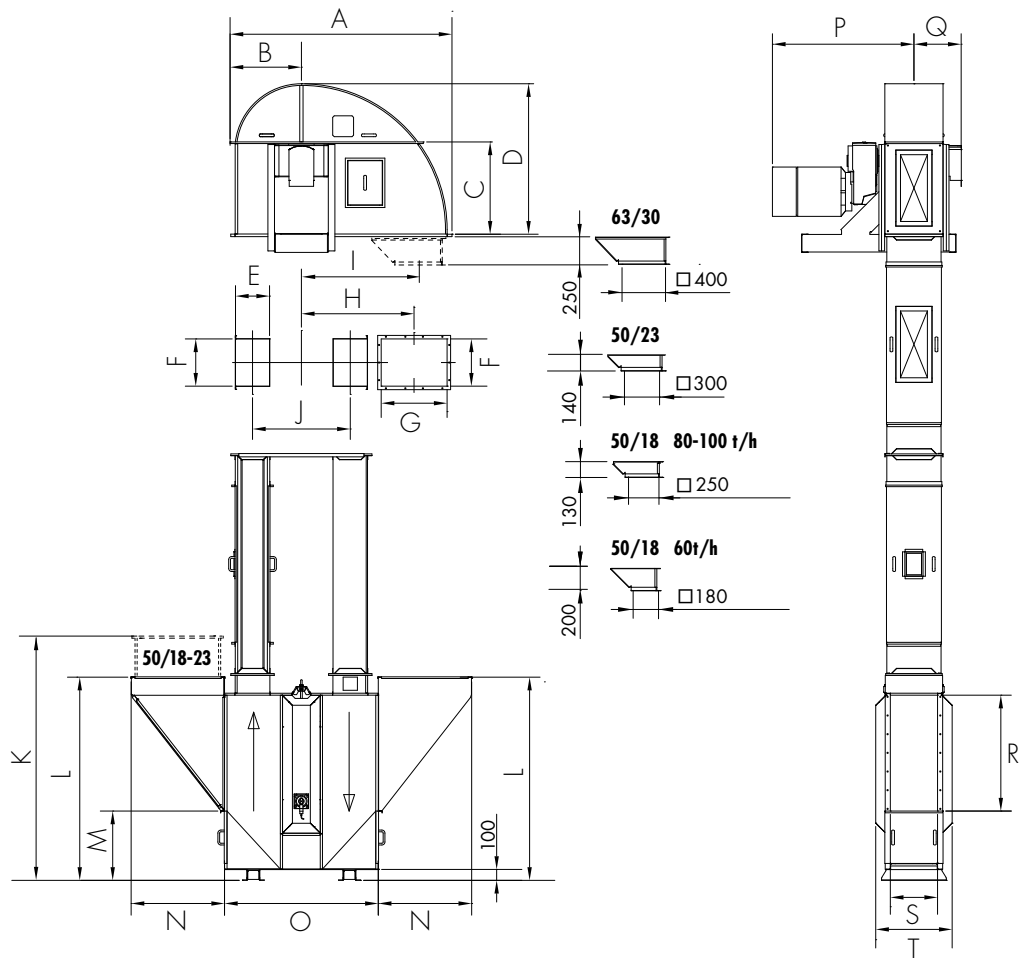
- The power requirement has been optimised.

ELEVATOR BOOT

- Clean out hatches are fitted on all side plates, on the short sides in the form of retractable cassettes.
- The tensioning screws are easily accessible from above.
- Complete mounting for belt alignment switch.
- Complete mounting for belt and slatted pulley scraper. The mounting adjusts automatically according to tensioner wheel setting.
- All exposed surface areas are equipped with plastic wearing surfaces.



TAKE A CLOSER LOOK AT THE NEW GENERATION H-LINE



	50/18	50/23	63/30
A	1470	1570	2020
B	505	525	650
C	700		840
D	1050	1100	1370
E	230	250	310
F	300	350	430
G	340	400	600
H	750	800	1025
I	□180	□250	□300
	834	799	853
J	680	700	890

	50/18	50/23	63/30
K	1645		-
L	1420		1850
M	535		631
N	496		850
O	1110	1150	1400
P	750-1225	850-1310	1000-1360
Q	397		430
R	850		1055
S	300	350	430
T	513	564	696

STANDARD EQUIPMENT

- Direct-mounted gearbox motor with support frame.
- Vertically detachable head pulley assembly.
- Back stop and speed monitor.
- Plastic wearing surfaces on exposed surfaces in the elevator hood, outlet and elevator boot.
- Dividable elevator hood.
- Drive wheel fully coated with ribbed friction rubber.
- Belt alignment adjustment in head and boot.
- Belt tensioning in boot.
- Higher support feet.
- Leg with two service doors, one with sight glass.
- Inspection hatch on both side plates in the head.
- Cleaning hatches on all side plates in the boot.
- Anti-static VLE belt and steel buckets.

ACCESSORIES

- Weather cover for gearbox motor.
- Inductive belt alignment switch.
- Explosion relief panels.
- Connections, inlet hoppers and valves for different needs.
- Dividable elevator hood with aspiration connection.
- Service platform, ladder with safety hoops & rest platform.
- Oil resistant belt.
- Belt and slatted pulley scraper.
- Plastic buckets.

SEH BELT & BUCKET ELEVATOR		50/18			50/23		63/30		
		60 t/h	80 t/h	100 t/h	120 t/h	150 t/h	200 t/h	250 t/h	300 t/h
Capacity for 750 kg/m ³	t/h	65-69	87-92	108-116	129-138	162-173	220-230	275-287	324-339
Capacity	m ³ /h	87-92	116-123	144-155	172-184	216-231	293-306	366-383	432-451
Speed/Belt speed (Nom.)	rpm	119-127 rpm/3.1-3.3 m/s			119-127 rpm/3.1-3.3 m/s		95-99 rpm/3.1-3.3 m/s		
Slatted pulley diameter	mm	500			500		630		
Bucket model/width	JET	180			230		300		
Max buckets/m belt	pcs	8.5			7.4		5.9		
Buckets/m belt	pcs	4.5	6.0	7.5	5.2	6.5	4.0	5.0	5.9
Bucket volume, net/gross	litre	1.4/1.7			2.4/3.0		5.2/6.7		
Material thickness buckets	mm	1.5			2.0		2.5		
Belt width	mm	200			250		330		
Belt type/standard		EP 630/1			EP 630/1, EP 800/1		EP 630/1, EP 800/1, EP 1000/2, EP 1250/2		
Leg, width/depth	mm	300/230			350/250		430/310		
Plate thickness, head/boot	mm	3.0			3.0		4.0		
Plate thickness, legs	mm	2.0			2.0		2.0		
ATEX class (standard equipment)		II 3D/0D							



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