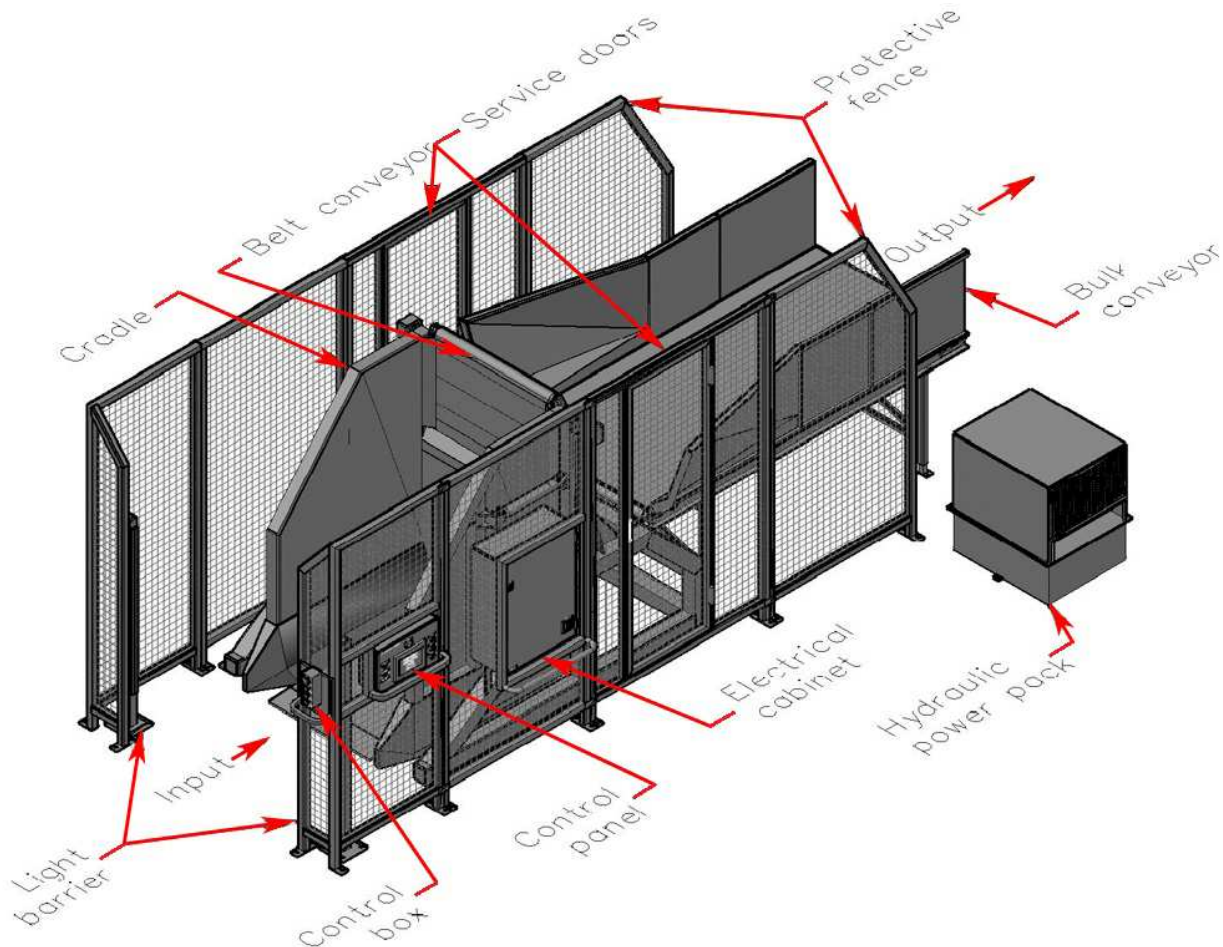


SYSTEM SPECIFICATION, INFORMATION AND FUNCTION DESCRIPTION

Hydraulic container tipper 2-steps (HCT2S-S), with a built-in belt conveyor and a subsequent bulk conveyor

Dimensions (mm)	Length	Width	Height	Note
Tipper (cradle)	1 660	1 245	1 985	
Tipper (frame)	2 475	1 680	1 985	
Bulk conveyor	2 650	1 945 / 1 350	*880 / **1 480	*From the floor and up to upper side of end roller. ** From the floor up to the top of the side guards.
Protective fence:	4 870	2 200	2 345	Equipped with 1 service hatch and 1 service door.
Total length:	6 060	2 200	2 345	Length of protective fence and part of the bulk conveyor.
Weight (Kg)	Tipper	Protective fence	Bulk conveyor	Hydraulic power unit
Weight (approximate):	1 100	400	400	78
Power consumption	Volt	Amps	kW	Note
Total system:	400 V	16 A	~7,5 kW	At maximum load
Miscellaneous				
Max load:	1 000 Kg (load carrier included).			
Max height:	3 450 mm (tipping position 2).			
Max tipping angle:	~135° (45°).			
Cycle time:	~ 55 sec. from loading position to tipping position 2 and back to loading position.			
Approved Load carriers:	Swedish- Norwegian- Danish- Yorks type MK3/MK4 Postal roller container, EUR 1-pallet (1200mm x 800 mm x 144) and *Swedish letter container (new and old version). *Note: he Swedish Postal Letter Container MAY NOT BE USED with the tipper unit unless equipped with a special type of locking device intended for this purpose. It is the Customer and / or operator's responsibility to ensure and verify that this is the case (this is an option).			

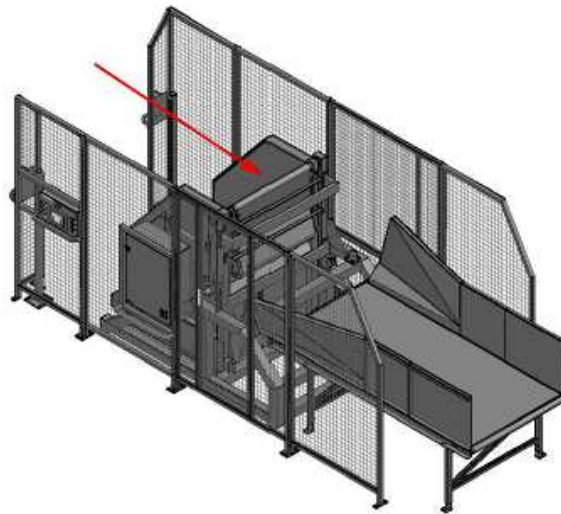
System overview



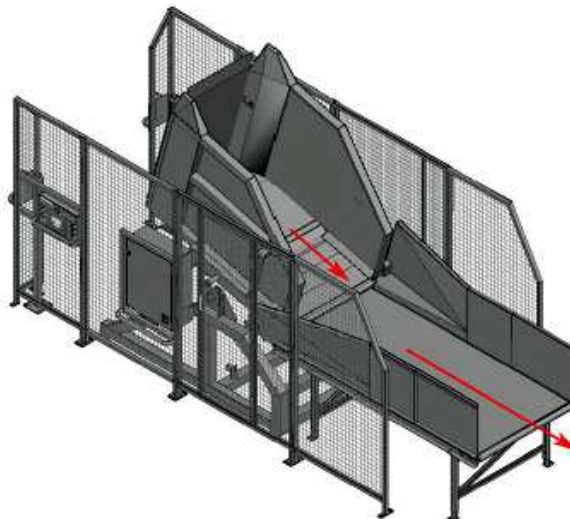
SYSTEM SPECIFICATION, INFORMATION AND FUNCTION DESCRIPTION

Hydraulic container tipper 2-steps (*HCT2S-S*),
with a built-in belt conveyor and a subsequent bulk conveyor

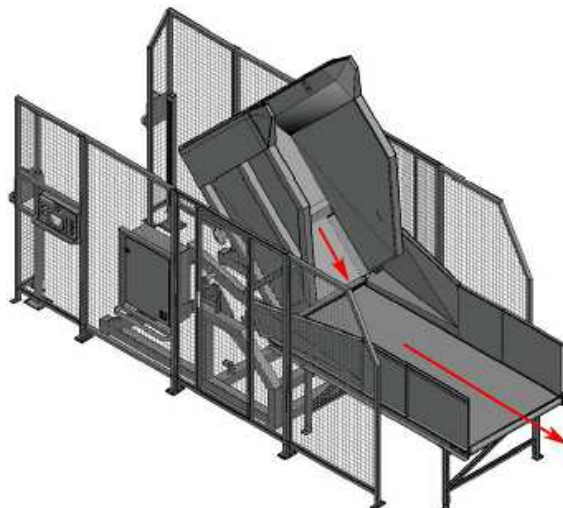
Tipping cycle



Loading position (*starting position*)



Tipping position 1 (*step 1*) ~115 °



Tipping position 2 (*step 2*) ~135 °

SYSTEM SPECIFICATION, INFORMATION AND FUNCTION DESCRIPTION

Hydraulic container tipper 2-steps (HCT2S-S), with a built-in belt conveyor and a subsequent bulk conveyor

Additional information and function description (*reduced*)

This type of **Hydraulic Container tipper 2-Steps (HCT2S-S)** is designed to perform unloading / emptying of goods and parcels etc. for further transport to a (*stand-alone*) subsequent conveyor / sorting system etc., and consists of the following main constituents components: Stand (*frame*) / Cradle (*with a locking mechanism and built-in belt conveyor*) / Protective fences (*2 sides*) with Service doors / Subsequent Bulk conveyor / Hydraulic cabinet / Electrical cabinet / Control panel and control box / etc.

For information on load carriers that are approved for use with this type of tipper see page 1, and / or current information sheet for load carriers. If further information on load carriers is required, please contact the Supplier.

i Some additional types of load carriers may possibly be used with this type of tipper unit, but only after approval from the Supplier.

The **maximum load weight** that this type of tipper is approved to handle is: **1000 kg** (*the maximum load weight includes the load carrier and load*).

It is the responsibility and obligation of the Customer and operators (*and all other relevant personnel*) to ensure that the maximum weight is **NOT being exceeded**, since unnecessary wear on the tipper unit will arise if this requirement is neglected, which can also lead to serious damages to the equipment, and pose a great risks for bodily injuries and / or death, and other harmful effects on the environment and surroundings.

The function of the tipper unit is to facilitate handling of goods / and parcels to be emptied from approved load carriers in "**2 steps**" (*phases*) onto the Bulk conveyor for onward transport and handling in a subsequent transport- / sorting system (*or the like*).

Emptying of goods / parcels:

- Preparation for a tipping cycle (*emptying process*): First, an approved load carrier must be correctly placed in the tipper's loading / start position, i.e. in the tipper's "cradle".
- To start the tipping cycle, the **[UP]** button on the control panel / control box must be activated.
- An automatic ongoing movement upwards is started and can be stopped at the influence of the pushbuttons **[UP]** or **[DOWN]** (*The tipper's movement up will also be stopped if the signal "ENABLE" from external system is being deactivated*). The tipper's movement is restarted by pressing the pushbutton **[UP]** again.
- The tipper will move unconditionally up to an angle of about **30 degrees** after that the system has locked the load carrier. Between the angle **30 degrees** and **tipping position 1** (*approx. 115 degrees*), a sensor for "**gap control**" is performing a test to prevent goods / parcels from being clamped between the conveyor and the tipper (*cradle*). The movement upwards will immediately be stopped if the sensor is affected, and is being restarted again automatically when the sensor becomes unaffected.
- When the tipper (*cradle*) has reached **tipping position 1**, the built-in (*integrated*) conveyor in the cradle of the tipper unit and the subsequent bulk conveyor will start. When the conveyor has been running for (**x**) seconds and no goods / parcels in the tipper is detected, the tipping movement will continue up to **tipping position 2** (*highest tipping position*).
- Between **tipping position 1 and 2**, the system will continuously perform a sensor test to prevent goods / parcels from being clamped between the conveyor and the tipper (*cradle*). If a sensor is affected, the movement upward will immediately be stopped and be restarted again automatically when the sensor becomes unaffected.
- At **tipping position 2** (*at an angle of approximately 135 °*), the remaining goods / parcels will slide- be conveyed out of the load carrier down onto the bulk conveyor for further transport out into the subsequent system for continued handling / transport.
- The movement **[UP]** will stop if the subsequent bulk conveyor is prevented from running or if the signal "ENABLE" from the external system is deactivated.

Return to position

- When the emptying of goods / parcels is completed after (**x**) seconds, the tipper will return automatically back to the loading / starting position.
- An automatic ongoing movement down is stopped when the pushbutton **[UP]** or **[DOWN]** is affected. The movement of the tipper is restarted by pressing the pushbutton **[DOWN]**.
- When the tipper unit has completed the emptying process and is stationary at the loading position (*starting position*) and the yellow indicator light is off, the operator may remove the empty load carrier and prepare a new load carrier for the next tipping cycle (*emptying process*).

Service doors

The tipper unit is equipped with 2 pc of **Service doors** located on the protective fences (*with safety switches that stops the tipper unit's motions immediately if a Service door is accidentally opened during operation*). The Service doors are intended for service / maintenance work and for removal of eventual jammed goods.

i **Note:** This type of tipper unit (HCT2S-S) does not have any kind of "shaking function".