



FICHE TECHNIQUE AIRPORT \

VALVES

■ VERTICAL DIVIDER (OR VALVE)

The vertical divider (valve) fitted on the HF/waste line is designed to direct baggage to two superimposed levels.

This system comprises:

- ◆ a conveyor belt,
- ◆ a metal chassis supporting the guides in vertical translation driven by a motorised assembly allowing the conveyor belt to move,
- ◆ a set of wire-mesh guards as close as possible to the equipment with access doors for maintenance. A "micro-contact" detection device must stop the operation of the conveyor and the valve when opening the access doors,
- ◆ sensors and cells for detecting the positions of the valve and luggage,
- ◆ mechanical and electrical protections to be designed such that maintenance work can be carried out under good conditions (accessibility, protection of staff, etc.)
- ◆ equipment insulation and maintenance boxes,
- ◆ mechanical locking chains.
- ◆ a manual system (crank) will enable the various movements of the valve to position it in a given position during a malfunction or adjustment work.

Since these types of vertical dividers present a major risk of trapping and shearing to staff, all personal safety measures will be taken by fitting appropriate guards. The system will be approved by a certified inspection body.

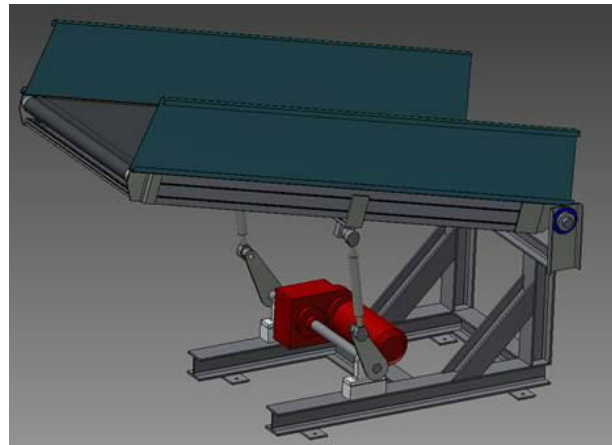
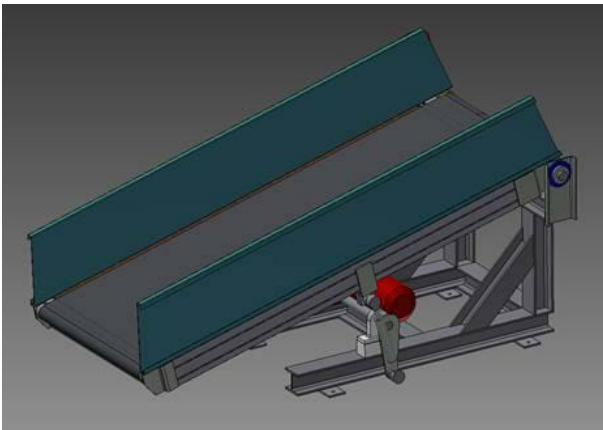
The interfaces with the upstream and downstream conveyor belts of this equipment will enable normal functioning without any malfunctions (such as baggage jamming.). The edges will be stabilised.

The drive unit as well as the conveyor belt construction will meet the same specifications as those stated for the conveyors.

■ STANDARD CHARACTERISTICS OF THE VERTICAL DIVIDER, VERTISWITCH TS 6610 MODEL

The conveyor and its pivoting system are very accessible thanks to their design and unobstructed supporting structure, which facilitates set-up, inspection and maintenance. It is therefore very easy to remove and replace the conveyor to reposition the conveyor belt.

Appropriate protective measures will be put in place around the Vertiswitch VS 1-0 FH / 0-1 FH to ensure operators are safe. These measures include a set of wire-mesh guards which are suitably shaped to be placed parallel to the equipment.



- Conveyor belt length: 3000 mm
- Belts :1000 mm
- Width between sides : 1040 mm
- Input height : 1050 mm
- Outup 1 : 500 mm
- Outup 2 : 1600 mm
- Angle +/- 11.5 °
- Speed : à définir (maxi 2 m/s)
- Deflection drum diam. 80 mm / 130 mm for the drive
- Flow : 0 à 1500 b/h
- Sides height 400 mm painted RAL x

■ ENVIRONMENT

Use inside of a building with an ambient temperature of : 5° à 40° C IATA Baggage standard

■ CONVEYOR BELT TYPE

FR Black type

Motorisations: SEW USOCOME

Movement: 2.2 kW with brake and 4 kW

Conveyor belt motorisation : 0.75 kW with brake without movimot

■ THE VERTISWITCH INCLUDES THE FOLLOWING EQUIPMENT



- 1x PEC at the input
- 1x PEC at the output
- 2x PEC at the output to check free space before movement
- 4x sensors for position control
- 2x safety limit switches, high and low points

These sensors are connected in an electrical connection box as per our wiring diagram.

The drives are connected in the second box :

- Encoder wheel ("tracking" model)
- Shock-absorber studs, structure Pins and mounting
- Wire-mesh guards
- Platform for height adjustment of the units
- PLC or system control./ Bus or profibus
- Speed controller on conveyor belt motorisation
- 2 sided wire-mesh guards, length 5 m, with 2 quickly removable panels.
- 2 sided wire-mesh guards, length 5 m, with 2 sliding panels on 1 side.

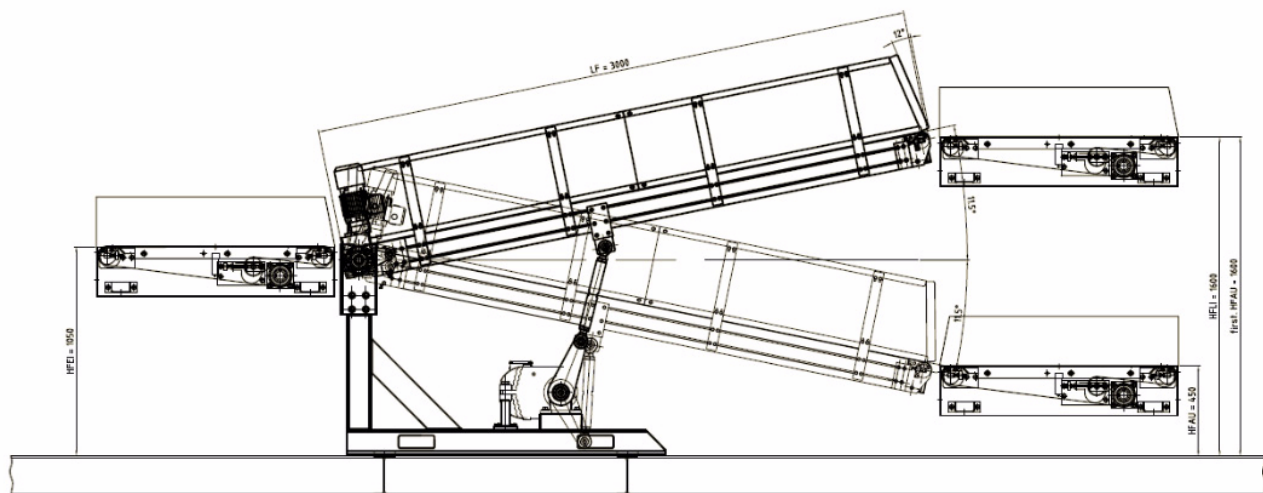


■ ADVANTAGES OF THE TS 6610

- Innovative design which reduces energy consumption
- Lightweight and extremely robust, this unit is very reliable
- Compliant with airport performance standards and performance levels
- Compact design, minimising space required
- Maintenance reduced to a minimum, 1 conveyor belt only
- The unit arrives on site assembled, set and ready to be wired (connection terminal blocks)
- A “robust crank rod” assisted by a Movimot unit guarantees fast and safe movement and strong reliability over time
- Smooth, vibration-free vertical movement
- The unit can be easily unloaded and quickly fitted on site thanks to its structure and the locations provided in this structure for the forks.
- Easy and low maintenance/Few spare parts
- Assembled on a welded steel structure to meet the most difficult usage and configuration requirements (cycle time/speed)

■ STANDARS SET-UP OF THE VALVE

Ht input	1050 mm
H1 output	500 mm
Ht2 output	1600 mm
Weight (approximate)	700 mm



■ ON SITE VALVE MAINTENANCE : BASE

- During maintenance work on the valve, it is advisable to provide a set of feet that attaches to the aluminium frame. We plan to use an environmentally friendly lifting system to keep the conveyor belt high up before fixing the feet.

■ LISTE DES RÉFÉRENCES

2003	Vienna Airport	Australia	2 units
2004	Mallorca Airport	Spain	12 units
2004	Malpensa Airport	Italy	2 units
2005	Turin Airport	Italy	4 units
2005	Incheon Airport	Rock	15 units
2005	Siemens AIC	Germany	1 unit
2005	Madrid Airport	Spain	2 units
2005	Gran Canaria Airport	Spain	18 units
2006	Malpensa Airport	Italy	1 unit
2006	Mallorca Airport	Spain	1 unit
2007	Madrid Airport	Spain	5 units
2007	Wuhan	PRC	2 units
2007	Airport Jerez	Spain	2+2 units
2007	Airport Menorca	Spain	6 units
2007	Airport Zaragoza	Spain	2 units (VS 0-1)
2007	Quebec	Canada	1 units (VS 0-1)
2007	Lisbon	Portugal	1 unit (VS 0-1)
2008	Dehli	India	26 units (VS 0-1)
2008	Bahrain	Bahrain	3 units (VS 0-1)
2008	Tarragona	Spain	1 unit (VS 0-1)
2008	Almeria	Spain	2 units (VS 0-1)
2008	Castellon	Spain	2 units (VS 0-1)
2009	Delhi	India	1 unit (VS 0-1)
2009	Frankfurt-IPZ	Germany	2 units (VS 0-1)