



FICHE TECHNIQUE AIRPORT \ **DESKS**





CONVEYOR BELTS ASSIGNED TO CHECK-IN ZONE

The check-in stations comprise 3 or 4 conveyor belts :

- T1 conveyor belt : Depositing weighing labelling;
- T2 conveyor belt : Baggage length check;
- T3 conveyor belt : Baggage height check and injection on collecting conveyor;
- Middle waiting conveyor belt in hall 4 only.



In the interests of standardisation, the design of these sets (particularly T1 and T2) will be similar to the existing ones in Hall 2 of Orly West Terminal.







The deskes comprise :

- A metal frame made of folded and welded sheet metal fixed to the floor by means of adjustable feet and anti-vibration pads,
- A cable channel for connecting the conveyor belts,
- Two running rails, one of which a V-rail for guiding the conveyor belts, the other flat the bearing. These rails are equipped with stops at the end,
- The supports and reinforcements intended for the maintenance of the edges,
- The side panels are made of grain 220 stainless steel sheet metal. The side panels have openings to let the "anti-depositing" flap open, between T2 and T3.
- At this point, the profile of the edges is examined to minimise the risk of luggage and straps jamming.
- Four castor supports with a system to adjust the conveyor belt height,
- Two nylon castors with a smooth bearing surface,
- Two V-grooved nylon castors for translation guidance.
- Two side members made of folded sheet metal,
- A reinforced sliding plate,
- Two end bearing supports receiving the drums,
- A double-directional driving drum,
- A turning drum,
- Cylindrical stress rollers under the return strand of the conveyor belt. These rollers are adjustable to allow the tightening and centring of the belt,
- A conveyor belt with grid profiles on the supporting face, 500 mm wide,
- A power connection box,
- A cell connection box,
- An anti-finger-trapping device, which is active during the reverse movement of the T1 depositing conveyor belt (Luggage return to the passenger) which immediately stops the conveyor belt when pressure is applied.



The man characteristics are as follows:

Width:

- Agent drop-off point = 500 mm
- Between furniture = 1,250 mm
- Set between conveyor belt and furniture = 5 mm Outside any double conveyor belt = 1,240 mm Outside any single conveyor belt = 617 mm Set between 2 double conveyor belts = 6 mm Needed between single conveyor belt sides = 535 mm (for a standard conveyor belt = 500 mm, i.e. a 17.5 mm set for each conveyor belt side)
- 🔹 Sides = 41 mm
- Conveyor belt length:
- T1 conveyor belt: Depositing Weighing Labelling = 1,615 mm;
- T2 conveyor belt: Baggage size check = 1,205 mm;
- T3 conveyor belt: Baggage injection "Junction"/ Wait "Hall 4" = 1,412 mm;
- T4 conveyor belt: Baggage injection "Hall 4" = 2,041 mm.
- Travel speeds:
- Transfer conveyor belt = 30 m/min
- Injection conveyor belt on collector = 60 m/min (enabling the desk/collector injection and arrangement of the baggage)
- These characteristics and performances are integrated into the characteristics taken into account, and will be approved during the feasibility studies (Interfaces with the furniture component general commercial contract: furniture of desks and partition)

INJECTION CONVEYOR BELT

Once the baggage weighing and size check is complete, it is sent to the injection belt. This allows the baggage to be positioned for injection on the collector. The baggage cannot be injected on the collectors is impossible while a control alarm is activated.







CHECK-IN DESKS WITHIN ACCEPTED SIZES

Loard characteristics

Transported loards must be within the following dimensions :

| BAGGAGE | |
|------------------|---|
| Length | 300 mm mini - 900 mm maxi |
| Width | 200 mm mini - 700 mm maxi |
| Height | 100 mm mini - 500 mm maxi |
| Weight | 0.500 kg mini - 60 kg maxi |
| Height Weight | 100 mm mini - 500 mm maxi 0.500 kg mini - 60 kg maxi |

Rates

Depends on case

Equipment characteristics

Single check-in desk within accepted sizes :

Single 3 conveyor belt desk :

- Length outside any 4,458 mm
- Width outside any 600 mm
- Flow of 30 60 items of baggage/hour/desk
- MTBF = 6,750 hours (18 hours x 365 days)
- MTTR = 3 hours
- Availability = 99,7%

Single 4 conveyor belt desk

- Length outside any 6,278 mm
- Width outside any 600 mm
- Flow of 30 60 items of baggage/hour/desk
- MTBF = 6,750 hours (18 hours x 365 days)
- MTTR = 3 hours
- Availability = 99.7%

Depositing / weighing / labelling unit

- Length outside any 1,610 mm
- Depositing height 365 mm on conveyor belt
- Output height 470 mm on conveyor belt
- Width outside any 600 mm
- Sliding plate made of galvanised sheet metal, width 535 mm
- INTERROLL driving drum 113 mm wide, built-in thermal protection, IP66/67 protection index, insulation class F, lifetime lubrification doing away with the need for maintenance
- 🔹 Power 0.18 Kw
- Speed 0.5 m/s



- Voltage 230/400 volts triple 50 hertz
- Width 510 mm, black criss-cross belt, vulcanised anti-static and fire-retardant finish
- Deflection rollers 060 mm steel axle 030 mm
- Tension roller 089 mm steel axle 020 mm
- Side covers stainless steel type Z6CN18/09 brushed grain 220 Thickness 2 mm
- Front cover stainless steel type Z6CN18/09 brushed grain 220 Thickness 3 mm
- Double-sensor weighing chassis, support belt mounted on wheels by us
- 1 cell/reflector holder
- Display units and weighing electronics
- With anti-finger-trapping bar mounted on the front panel
- Bent sheet metal guide rail to be fixed to the floor for castor circulation to facilitate cleaning and maintenance work
- Zinc-plated and stainless-steel brackets

Length check unit

- Length outside any 1,200 mm
- Input height 465 mm on conveyor belt
- Output height 465 mm on conveyor belt
- Width outside any 600 mm
- Sliding plate made of galvanised sheet metal, width 535 mm
- INTERROLL driving drum 113 mm wide, built-in thermal protection, IP66/67 protection index, insulation class
- F, lifetime lubrification doing away with the need for maintenance
- 🔹 Power 0.18 Kw
- Speed 0.5 m/s
- Voltage 230/400 volts triple 50 hertz
- Width 510 mm, smooth black PVC belt, vulcanised anti-static and fire-retardant finish
- Deflection rollers 060 mm steel axle 030 mm
- Tension roller 089 mm steel axle 020 mm
- 2 cell/reflector supports for size check Length
- Side covers stainless steel type Z6CN18/09 brushed grain 220 Thickness 2 mm
- Tubular frame conveyor belt support mounted on castors
- Bent sheet metal guide rail to be fixed to the floor for castor circulation to facilitate cleaning and maintenance work
- Zinc-plated and stainless-steel brackets

Height check unit

- Length outside any 1,412 mm
- Input height 465 mm on conveyor belt
- Output height 465 mm on conveyor belt
- Width outside any 600 mm
- Sliding plate made of galvanised sheet metal, width 535 mm
- INTERROLL driving drum 113 mm wide, built-in thermal protection, IP66/67 protection index, insulation class
- F, lifetime lubrification doing away with the need for maintenance
- Power 0.18 Kw
- Speed 0.5 m/s
- Voltage 230/400 volts triple 50 hertz
- Width 510 mm, smooth black PVC belt, vulcanised anti-static and fire-retardant finish
- Deflection rollers 060 mm steel axle 030 mm
- Tension roller 089 mm steel axle 020 mm





- 1 cell/reflector support
- Side covers stainless steel type Z6CN18/09 brushed grain 220 Thickness 2 mm
- Tubular frame conveyor belt support mounted on castors
- Bent sheet metal guide rail to be fixed to the floor for castor circulation to facilitate cleaning and maintenance work
- Zinc-plated and stainless-steel brackets.

Injection unit / Length check

- INTERROLL driving drum 113 mm wide, built-in thermal protection, IP66/67 protection index, insulation class
- Length outside any 2,038 mm
- Input height 465 mm on conveyor belt
- Output height 465 mm on conveyor belt
- Width outside any 600 mm
- Sliding plate made of galvanised sheet metal, width 535 mm F, lifetime lubrification doing away with the need for maintenance
- Power 0.33 Kw
- Speed 0.7 m/s
- Voltage 230/400 volts triple 50 hertz
- Width 510 mm, smooth black PVC belt, vulcanised anti-static and fire-retardant finish
- Deflection rollers 060 mm steel axle 030 mm
- Tension roller 089 mm steel axle 020 mm
- Zinc-plated deflection roller 070 mm steel axle 015 mm
- 2 cell/reflector supports
- Side covers stainless steel type Z6CN18/09 brushed grain 220 Thickness 2 mm for 3-conveyor belt desk made of painted steel for 4-conveyor belt desk
- Tubular frame conveyor belt support mounted on castors
- Deflection runners made of black HDPE at output
- Bent sheet metal guide rail to be fixed to the floor for castor circulation to facilitate cleaning and maintenance work
- Zinc-plated and stainless steel braked brackets

| 15 double desks | 3 conveyor belts |
|-----------------|------------------|
| 1 single desk | 3 conveyor belts |
| 4 double desks | 4 conveyor belts |
| 1 single desk | 4 conveyor belts |



Working conditions

Except for special circumstances, our equipment is designed to operate in a non-aggressive industrial environment, under cover and at an ambient temperature of between 5 and 40°C.

Regulations

Our equipme,t complies with the provisions of the EU directives below and the resulting obligations :

| FEM | European Materials Handling Federation |
|------------|---|
| NF/CE | International Recommendation on Electrotechniocal Equipment |
| IEC | European standards |
| ΙΑΤΑ | Recommendation |
| 2006/42/CE | EC Machinery Directive |
| 2006/95/CE | EC Low Voltage Directive |
| 204/108/CE | EMC (Electro-Magnetic Compatibility) |

Harmonised standards applied :

| DIN EN 349 | Minimum gaps to avoid crushing of parts of the human body. |
|----------------|---|
| DIN EN 619 | Safety and CEM requirements for mechanical handling equipment with individual loads. |
| DIN EN 953 | General requirements for the design and construction of fixed and movable guards. |
| DIN EN 13857 | Safety distances to prevent danger zones being reached by upper and lower limbs. |
| DIN EN 60204 1 | Safety of machinery - Electrical equipment of machines. Section 1 : general regulations. |
| DIN EN 60947 1 | Low-voltage equipment section 1 : General regulations. |



CHECK-IN DESK OUTSIDE ACCEPTED SIZES

Load characteristics

Transported loads must be within the following dimensions :

| BAGGAGES | |
|----------|----------------------------|
| Length | 300 mm mini - 900 mm maxi |
| Width | 200 mm mini - 700 mm maxi |
| Height | 100 mm mini - 500 mm maxi |
| Weight | 0.500 kg mini - 60 kg maxi |
| | |

Rates

Depends on case

Equipment characteristics

Check-in desk outside accepted sizes :

- Length outside any 2,800 mm
- MTBF = 3,650 hours (10 hours x 365 days)
- MTTR = 3 hours
- Availability= 99.5%
- Drop-off height 350 mm on belt
- Output height 500 mm on belt
- Width outside any 1,340 mm
- Galvanised metal sliding plate width 1,240 mm
- INTERROLL driving drum 13 mm wide, built-in thermal protection, IP66/67 protection index, insulation class F, lifetime lubrification doing away with the need for maintenance
- 🔹 Power 0.75 kW
- Speed 0.25 m/s
- Voltage 230/400 volts tri 50 hertz
- Width 1,200 mm, black criss-cross belt, vulcanised anti-static and fire-retardant finish
- Deflection rollers 060 mm wide steel axle 30 mm wide,
- Tension roller 89 mm wide steel axle 20 mm wide
- Deflection roller 70 mm wide steel axle 20 mm wide
- Side covers stainless steel type Z6CN18/09 brushed grain 220 thickness 2 mm
- Front cover stainless steel type Z6CN18/09 brushed grain 220 thickness 3 mm
- Weighing chassis, belt support mounted on wheels
- 1 cell/reflector holder at the conveyor unit outlet
- Weighing display and electronics
- With anti-finger-trapping bar mounted on the front panel
- Bent sheet metal guide rail to be fixed to the floor for castor circulation to facilitate cleaning and maintenance work
- Zinc-plated and stainless steel braked bolts



Equipment nomenclature

1 desk outside format

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