

SPECIFICATIONS

CONVEYOR BELT SELF PROPELLED AR.200 EC



1.0 - PURPOSE

1.1 - Equipment selfpropelled suitable for loading and unloading of baggage from the aircraft able to carry out these operations of day and night, in all weather conditions in which it can operate on the large square.

1.2 - The equipment is essentially composed of a self-propelled chassis at diesel traction and with assembled a movable conveyor belt and liftable on the front side adapted to move the load described in point 1.1

2.0 - OPERATING FEATURES

- | | |
|---|------------|
| -Capacity Max. concentrated load | 600 kg |
| -Capacity Max. load evenly distributed on mt.8 to any elevation | 150 Kg / m |
| -Length Total: | 8010 mm |
| -Speed Max of traslation: | 30 km / h |

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- Speed Max of rotation Adjustable of the conveyor belt: 10 to 30 m / min
- Weight Overall vehicle: 3860 Kg
- Steering angle Internal: 55 °
- Slope Max surmountable: 15%
- Speed Max of the tape relieved , via button of approaching: 7 Km / h

3.0 - CHASSIS

3.1 - It 'built with beams U.P.N. welded and carinate with sheet suitably shaped.

The main longitudinal members are dimensioned so as to withstand the loads they are subjected; the working tension never exceeds the allowable tension of 17 daN / mm² and the sleepers are constructed with the same material suitably welded and ribbed.

3.2 - Front axle - tires 7.00-12 12PR 10bar

3.3 - Rear axle - tires 7.00-12 12PR 10bar

3.4 - The energy of the vehicle is given by a diesel heat engine , direct injection,

4.0 - DIMENSIONS

- Overall width: 2050 mm
- Total length wagon: 5050 mm
- Height min. from ground: 180 mm
- Roadway: 1780 mm
- Wheelbase: 2930 mm
- Cabin width: 860 mm

5.0 - AXLES

5.1 - Rear axle with differential , axle front steering.

5.2 - Crossbows at single blade.

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6.0 - DRIVERS' CABIN

6.1 - The cabin is fitted with:

- glasses.
- port-hole marine type on the roof.
- driver's seat, with adjustment.

6.2 - The dashboard, in non-reflective material is complete of:

- indicator fuel level
- hour meter
- starter key
- steering column switch, for the lights (position, low beam, high beam, turn signals, horn)
- indicator parking brake engaged
- indicator, lights (positions, high beam, turn signals).
- indicator conveyor belt raised
- joystick forward / neutral / reverse
- joystich for lifting the front of the conveyor belt
- key for the approach gradual to the aircraft.

6.3 - In the driving seat, there are also the following commands:

- brake pedal
- accelerator pedal
- lever of the brake of parking .
- deadman pedal

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7.0 - CONVEYOR BELT

7.1 - The structure made steel St 52.5, is consisting of two longitudinal beams shaped U and comes complete with a one decking (the catwalk) of sized 450 mm. with non-slip surface.

7.2 - The tape is equipped with handrails, height mm.1100 and with, foot beat, of height 200 mm.

The handrails are removable

7.3 - The terminal part of the handrails is extractable for a length of 850 mm.

7.4 - The conveyor belt is made from a series of galvanized rollers idler , interspersed with shelves in stainless steel suitably shaped

7.5 - The belt is with tread a honeycomb, flame retardant, with junction vulcanized.

7.6 - The transmission of motion is given by a rear roller, one hydraulic motor , complete with pinions and drive chain suitably rapportati for transmit the movement.

The roller is coated with vulcanized rubber.

7.7 - The tensioner of conveyor belt is placed in the front , where is positioned a roller coated with vulcanized rubber.

7.8 - The conveyor belt is hinged to a movable beam, fixed to the frame, which allows the rear lifting.

7.9 - The dimensions of the conveyor belt are:

- Belt width: 520 mm
- The belt length : 16300 mm
- Length conveyor: 8010 mm
- Width, side walkway: 400 mm
- Height Min. from Front ground: 1000 mm
- Height Max. from Front ground: 4000 mm
- Height Min. from the back ground: 560 mm
- Height Max. from the back ground: 900 mm

8.0 - TRASLATION OF THE VEHICLE

8.1 - Consists of a differential which transmits the motion to the rear wheels and by a hydrostatic motor 45 cc coupled with a reducer, rap. 1: 3.15.

The drive of hydrostatic motor is obtained via a hydrostatic pump with automotive 45 cc.

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Upon release the accelerator, it gets a soft stop of the vehicle. The arrest of the vehicle, is also obtained by pressing the mechanical brake.

The first makes a soft braking (engine brake), while the second much more energetic active the mechanical drum brakes.

For safety reasons, the traslation is permitted by the simultaneous presence of three safeties: micro switch parking brake, micro switch of the manual accelerator and micro switch of the conveyor belt lowered. The absence of one of these consensus causing stopping of the vehicle.

A button on the dashboard of the vehicle, bypasses the micro switch of the conveyor relieved up and allows to perform the approach to the aircraft door.

9.0 - POWER STEERING

9.1 - The power steering is obtained by means of a hydraulic steering unit by 80 cc, driven by a hydraulic pump by 11 cc applied to the heat engine.

9.2 - The power steering, complete with valves (anti-shock, anti-cavitation and max. Pressure), sends the hydraulic oil to the steering cylinder, allowing you to turn right or left, the vehicle.

10.0 - GROUP CONVEYOR BELT

10.1 - The group of the conveyor belt allows to load, both by the trolleys with the back side down, that by commercial vehicle, with the rear raised, allowing various load heights.

All the lift of front occurs in a time 20" about, with the pressure of oil max. 100 bar.

All the lift of the rear occurs in a time 10 "about,with the pressure of oil max. 100 bar.

The rotation of the tape (30 meters / min) is carried out by a hydraulic motor bidirectional,connected via chain, front and rear sprocket, to the rubber roller of traction.

10.2 - In the rear part of the conveyor belt, in a control panel are grouped the button commands for rotation in both directions, the stopping of the belt and the red mushroom button for emergency stop.

In the front part of the tape is located a control panel in which are grouped the button commands for the rotation and stopping of the belt.

11.0 - ELECTRICAL SYSTEM

11.1 - The power supply is guaranteed by two battery 12V DC 100 Ah connected in series to get 24 V DC. This voltage is used to power all the lights, wipers, and the solenoid valves of the vehicle. The alternator, of adequate size, applied to the diesel engine, ensures the recharge of the batteries

12.0 - HYDRAULIC SYSTEM

12.1 - The materials used for the pipes and fittings are those for high pressures. The max. pressure of the plant is 100 bar. for all services.

12.2 - The tank is equipped with a filtering element for the discharge, a vent, a filler plug with filter, a suction filter and ball valves which divide the aspirations for the pumps.

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12.3 - The capacity of the hydraulic oil tank is 100 liters.

12.4 - No. 2 cylinders, diameter 100 mm, complete with block valves, allow the lifting of both the front and rear.

12.5 - The plant is also equipped with emergency hand pump in case of failure for the descent of the belt.

13.0 - BRAKE SYSTEM

13.1 - The braking system is with brake booster to dual independent circuit (crossed).

Drum brakes on all four wheels - Parking brakes, mechanical on the rear wheels with cable and lever in the cabin for the working the brakes.

14.0 - FINISHES

14.1 - In the cabin is placed a adhesive label with the main instructions.

14.2 - Applied to the vehicle there are, written adhesive for the prevention of industrial accidents, the emergency buttons are identified and the declared loading capacity on the sides of the ramp.

14.3 - The vehicle is fitted with hooks for towing in the event of failure.

14.4 - All components, except for the rubber parts, plastic, stainless steel and chrome are subjected to:

Chassis, Conveyor frame, cabin and bonnets powder coated.

14.5 - The colors of the medium are according to your specific.

14.6 - All hydraulic cylinders are chrome plated with hard chrome.

14.7 - The vehicle is built with a high standard of execution and finishing.

The welds with good penetration are free from slag, are without grinding any except in the non-structural elements.

14.8 - The vehicle is equipped with suitable fire extinguisher housed in a special basket.

According to the airport norms, the vehicle is provided of the arrestor flame, red lights at the points of maximum footprint and working light.

14.9 - The vehicle is built according to the regulations of 01.04.1994 IATA AHM 925 - AHM 905 - AHM 910 - AHM 913 - AHM 915,

as well as the CNR 10011 - CNR 10012 - CNR 10021, responding to Presidential Decree 459 of 24.07.1996 (transposition Machinery Directive).

The vehicle is certificated CE – 2006/42 / CE - 89/336 / CE and is in compliance with UNI EN 292 part 1st and 2nd and UNI EN 60204-

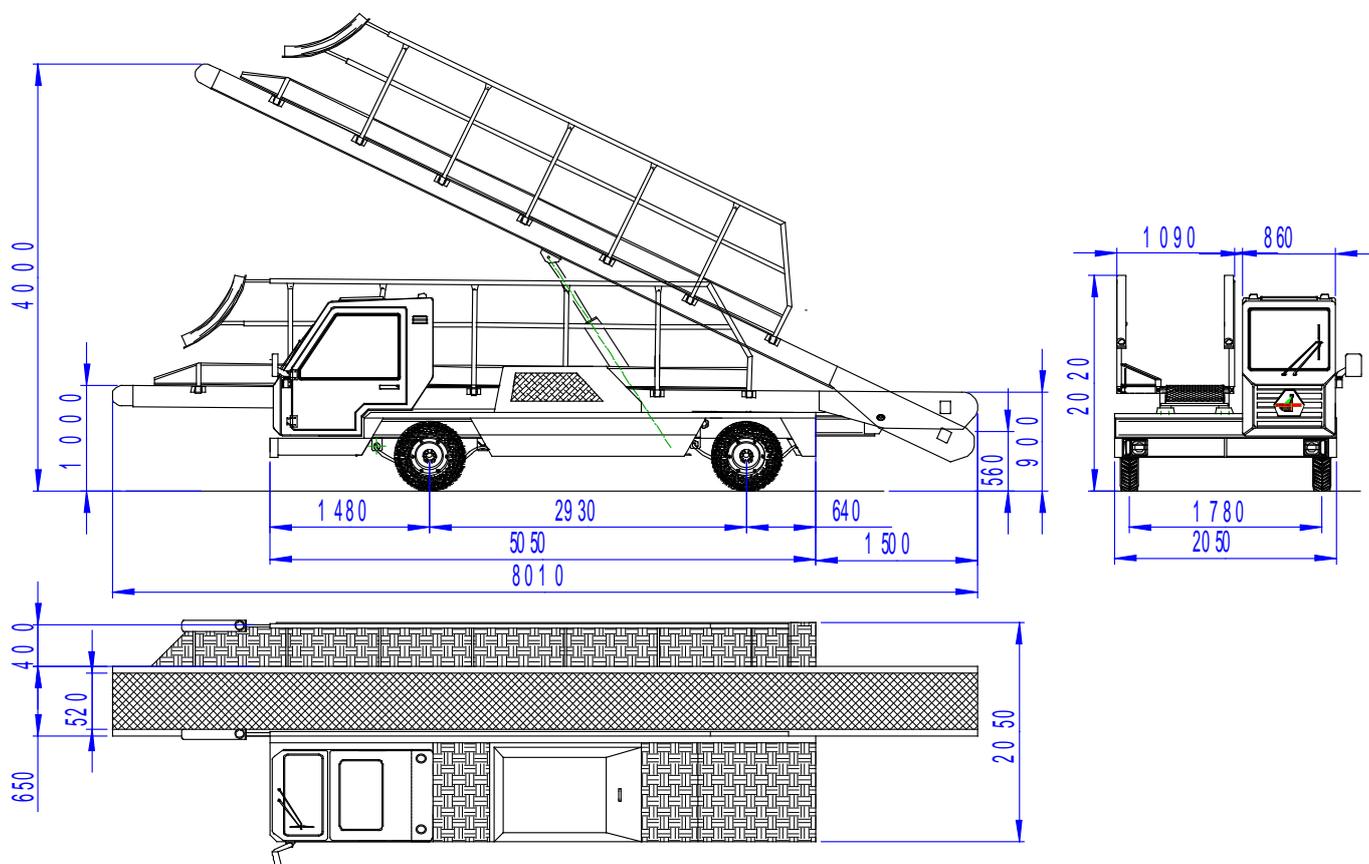
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1.5.0 – WARRANTY

15.0 - The guarantee specified in the terms of offer is subject to compliance with the instructions of the booklet use-maintenance. It is understood that they are excluded the warranty parts subject to wear.

DIMENSIONS



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SINCE 1952 TOW TRACTORS MODENA



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