

Transport rollcontainer

Development status

Phase 3

Technology validation and implementing it in real environment. Testing the technology outside of the laboratory and its adjustment to external conditions.

IP protection status

Community designs, No
008591416-0001, No
008591416-0002.

Partnering strategy

licensing

Institution

jctt Jihočeské Univerzitní
a Akademické centrum
transferu technologií
**University of South Bohemia in
České Budějovice**

Challenge

Courier services, currently a widely used form of delivery of consignments, use uniform dimensions for delivery vans. Shipments are compared in the car only roughly in order of delivery route, without special consideration for sorting. This method of storing consignments leads to an increase in delivery time due to delays in finding the relevant shipment. This problem can be solved by the technical means on which the shipments are clearly arranged. It is a so-called roll container, a transport "cabinet" that is adapted to the dimensions of the courier car.

Description

The subject of the solution is a specially developed technical means (rollcontejner), which is dimensionally adapted to meet the parameters of commonly used courier vehicles in terms of loading area, loading capacity and anchor points used for fixing cargo. The front of the technical device is equipped with a special system of closures, which can be opened very easily and quickly, but at the same time are able to effectively prevent the loss of consignments during handling and transport. The side and rear walls are then equipped with a special system of lightweight barriers so that the total weight of the roll-net is as low as possible. Both sides are then equipped with an innovative system on the front pillars for fast and safe anchoring of the rollcontainer on the loading area of the vehicle. The technical means are designed so that shipments can be quickly identified, which will greatly speed up and facilitate unloading at the customer's premises. Thanks to the wheeled chassis of each technical means, it is possible to load all shipments in bulk without the need for additional handling means. Handling can be carried out both in the vehicle and on the shipping area when preparing shipments for individual delivery lines. The main advantages of the solution include low acquisition costs, increased loading capacity of delivery vehicles, significant reduction of loading time requirements, ergonomic, safe, economical and very fast roll-end anchorage system on the loading area of the vehicle, increased safety of shipments (protection against damage) and low weight.

Commercial opportunity

The solution is intended for logistics operators who provide services in the field of piece shipment transport on the market (DHL, PPL, Geis, TNT, Post and others).