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Carriage for overhead conveyor

Application / Challenges

Overhead conveyors ranging from light to heavy duty are used in industry on various different scales. Besides the track system, the carriages are the central component in these conveyors. faigle offers innovative solutions designed primarily for light to medium-sized carriages.

The wheels used in conveyor systems need to be extremely smooth-running with a burr-free surface, especially if they use gravity to move objects independently along gently sloping tracks. Low-wear, low-noise running over many years – including in environments where dust build-up can be a problem – is the defining feature of a reliable system.

The body of an overhead conveyor carriage is designed with the required centre of gravity in mind. A range of different functions need to be integrated, including the snapping open of the wheels, embedded QR codes or RFID chips, or the option of making modifications depending on the required hook geometry.

Discharge of electrostatic build-ups is also a key requirement for many customers.



Solution and materials

faigle's overhead conveyor carriages feature specially designed smooth-running ball bearings with a contact-less cover plate. A range of special high-performance plastics with excellent smooth-running properties, outstanding wear resistance and effective noise insulation qualities are available for the tyre. Enclosed tyres mounted on the outside of the carriage, which protects the ball bearing against dust and other environmental influences, are another option.

The main body is also made from high-performance plastics, and can be fibre-reinforced if required. Snap and slider geometries mean that additional functions can be integrated or shock absorbers fitted.

Special fillers in the material are used to increase the weight, so that the overhead conveyor's centre of gravity can be moved as required.

Antistatic designs are available for all parts on request. faigle delivers fully assembled carriages, including with an integrated RFID chip or laser-etched QR code if required.

Customer Benefits

- ✓ Safe operation on gravity lines due to very low rolling resistance
- ✓ No interference from dust or environmental influences due to largely covered ball bearings
- ✓ No assembly effort due to completely assembled delivery, on request incl. RFID chip or laser labeled
- ✓ Fewer components due to function integration and modular system
- ✓ Low-noise operation due to damping materials and precise concentricity
- ✓ Antistatic materials for safe dissipation of electrostatic charge on request