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## TCM Corrosion Protection Package (CPP) protects against rust and humidity

TCM forklifts has raised the benchmark in corrosion protection with a new anti-corrosion assurance for its counterbalance truck range (FTB, FB and FHB). Its new CPP (Corrosion Protection Package) has been introduced to ensure that the highest level of protection is built-in for industries which have essential corrosion protection standards or who need to protect equipment from aggressive operating environments.

Typically food and chemicals sectors have impeccable hygiene and safety standards, now TCM forklifts which carry their CPP option are able to support and maintain these essential needs by ensuring protecting against rust.

To protect its equipment from corrosion in operating environments that present humid conditions or other corrosive conditions, TCM is offering a new type of optional Corrosion Protection Package.

The package offers a higher level of corrosion protection as the forklifts are coated with high-quality alloys to ensure comprehensive rust protection. This makes it easier to meet food standards such as HACCP (Hazard Analysis and Critical Control Points).



Moreover, customers benefit from an increased life time of the trucks and from lower repair costs.

The CPP includes two treatment stages, giving all parts of the forklift permanent resistance to corrosion and humidity. With the thermal spraying process, the chassis, all mast components, footplate, battery cover, side panels, controller cover and the counterweight are alloyed with 85 percent zinc and 15 percent aluminium in the first stage.

After subsequent painting, the forklift is permanently protected from corrosion, even in the case of slight damage. When the colour paint is then applied, the formation of toxic zinc oxide is also prevented. In a second stage, the overhead protection guard undergoes cathodic dip painting (KTL). With this electrochemical process, the work piece is completely soaked in an immersion bath of electrically conductive paint and thus coated. One advantage of this method is that cavities are also coated evenly.

The process is free of heavy metals and therefore very environmentally friendly. Other elements of the Corrosion Protection Package are galvanising the mast chain, conserving hose couplings with DENSO<sup>®</sup> tape and protecting all electric connections against moisture with Krytox<sup>®</sup> sealant. All parts of the chassis also have drainage openings, which channel the humidity back outside. Depending on the application, additional protection is available for electric motors and tilt cylinders.



The finishing with the CPP is particularly suitable for forklifts that are exposed to humidity, chemicals or salts in operational use. The coating process excludes the possibility of rust or paint particles becoming detached from the forklift and damaging the goods being transported or the work environment. TCM engineers and designers have developed the CPP in close cooperation with customers from the food, fishing and chemical industries and tailored it exactly to their requirements. The CPP is available for all TCM electric counterbalance trucks which are frequently used in a tough working environment. If demanded, expansion to other counterbalance truck ranges is possible.

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