



By ever increasing quality demands in the market and the associated zero-defect philosophy of ISO TS 16949, we must make you aware of the possible risks in the production, packaging and transport of your products. With this classification, we have to show you the risks associated with damage of stamped parts in series production process till they arrive in your home. This classification is valid if no item-specific PPM project-agreements, special packaging requirements or additional 100% final inspections have been agreed with our company.

Quality-Stage 1	Stamping parts in plastic reels and metal frame	Example
packaging	Parts mounted on vertical coil with interleaving paper in creel. Coil quantity fixed twice with spacers and safe	
possible damage during handling	Our tape products are usually under camera surveillance in common geometric definition (project-based agreement). Due to manufacturing-related backgrounds in handling can happen in that exposed pins inside and outside the coilstart (beginning and end of the tape about 2-3 meters per feed) and for interruptions caused partly slightly bent pins. This is justified from the manual winding of the tape and does not result in general. Please monitor for safety to avoid these separate sections for subsequent manufacturing problems and tool breakages	
possible damages transport	Transportation damage by shock and vibration during transportation and logistics are not impossible. Taking into account properly used here is no transport damage possible	
risk Assessment	PPM ≤ 10	

Quality Stage 2	<i>Stamping parts in plastic reels lying stacked on pallets</i>	Example
packaging	Parts stacked on coil with interleaving paper on Euro pallet. Fixing by central stringer tapes and reels or bow.	
possible damage during handling	Our tape products are usually under camera surveillance in common geometric definition (project-based agreement). Due to manufacturing-related backgrounds in handling can happen in that exposed pins inside and outside the coilstart (beginning and end of the tape about 2-3 meters per feed) and for interruptions caused partly slightly bent pins. This is justified from the manual winding of the tape and does not result in general. Please monitor for safety to avoid these separate sections for subsequent manufacturing problems and tool breakages	
possible damages transport	Risk of transport damage by impact, sharp braking and vibration during transport and logistics, as coils can break through impact and thus may damage parts of the wing. There is no general impact protection	
risk Assessment	PPM ≤ 20	

Our rankings can be found on the Internet [www.hapema-gmbh.de \ downloads](http://www.hapema-gmbh.de/downloads)

Notes on the forms FB 141 and FB 142 are also available in our measurement sample reports and Order Confirmations.