17 Static strength of coupling devices for trailer towed by small vehicles:

17.1 Definition:

17.1.1 Coupling device of small vehicle connecting to the trailer: means the device connecting small vehicle and trailer, which can be divided into the towing bracket and coupling component separately.

17.1.2 Towing bracket: contains the framing structure and coupling ball, installed in small vehicle linked to trailer.

17.1.3 Coupling component: installed in the trailer linked to small vehicle, used to couple together with the towing bracket of small vehicle.

17.1.4 Declared load: the maximum traction or bearing load of vehicle components, declared by manufacturers.

17.2 Static strength of coupling devices for trailer towed by small vehicles shall according to suitable types and range of principle：Except for the brand and type series shall be the same, also shall comply with following regulation: (the towing brackets and coupling components can be applied together or separately)

17.2.1 The same declaring load by the manufacturer.

17.2.2 The same bolting dimension or sphere diameter of towing brackets.

17.3 Description of the function and specification: Shall describe installing method, location and the declaring load.

17.4 Inspection standard:

17.4.1 The application direction and value of force.

17.4.2 Judging standard: when the external tensile force, compressed force and thrust force applied to the vehicle components have exceed the force specified below, the component under test shall not break and separated off therewith.

17.4.2.1 Forward & backward: twice of the manufacturer’s declared load.

17.4.2.2 Right & left: 70% of the manufacturer’s declared load.

17.4.2.3 Up & down: equal to the manufacturer’s declared load.

17.4.3 The towing brackets and the coupling components can be tested together or separately.