

TEST SCHEME OF CLAMPING FORCE DISTRIBUTION OF THREE-WAY CATALYTIC CONVERTER

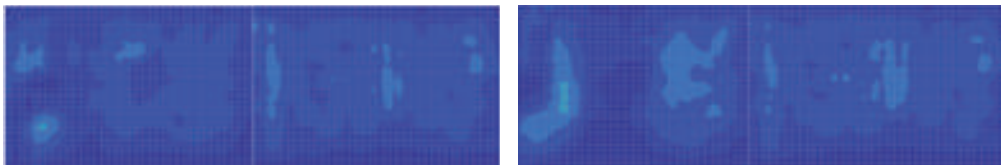
PROJECT INTRODUCTION

An automobile parts manufacturer needs to verify whether the structure of the three-way catalytic converter currently produced meets the planned strength of the design requirements, so it needs to measure the clamping force (pressure) and distribution of the three-way catalytic package. Different three-way catalytic converters use different materials internally, and the surface flatness after pressing is also inconsistent. During the production process of three-way catalytic packaging and pressing, due to design and production reasons, the three-way catalytic converter may fail to achieve the expected clamping effect.

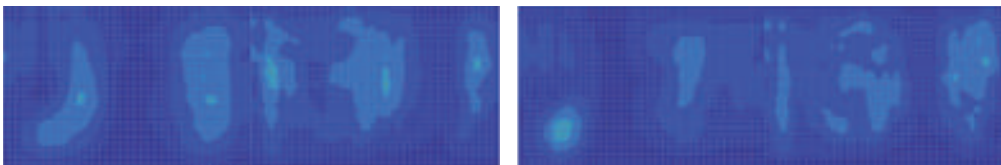


MEASUREMENT RESULT

Comparison effect diagram of the same force value and different angles of the confinement carabiner:



Comparison effect diagram of different force values and the same angle of the confinement snap:



The sensor is accurately positioned between the contact interface of the three-way catalytic converter and the packaging drum. On the three-way catalytic converter packaging equipment, we specially designed a confinement buckle, and the fine adjustment of its torque value and angle will cause corresponding changes in pressure. In the key link of packaging and pressing, the pressing pressure accurately reaches the preset design goal.

USE

Product Design Verification
Product Batch Inspection

ADVANTAGES

No structural changes required
Seamless product fit
Accurate pressure data

EQUIPMENT: D2

General Purpose
Distributed Pressure
Measurement System
DPM-G



MODEL	CN4509
Sensing area	456mm *90mm
No. of sensing points	2288, 44rows*52columns
Point density	5.7points/cm ²
Pressure ranges	10/800psi