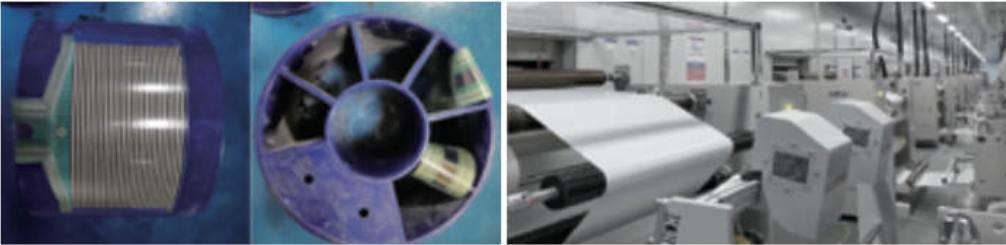


DIAPHRAGM WINDING PRESSURE TEST PROGRAM

PROJECT INTRODUCTION

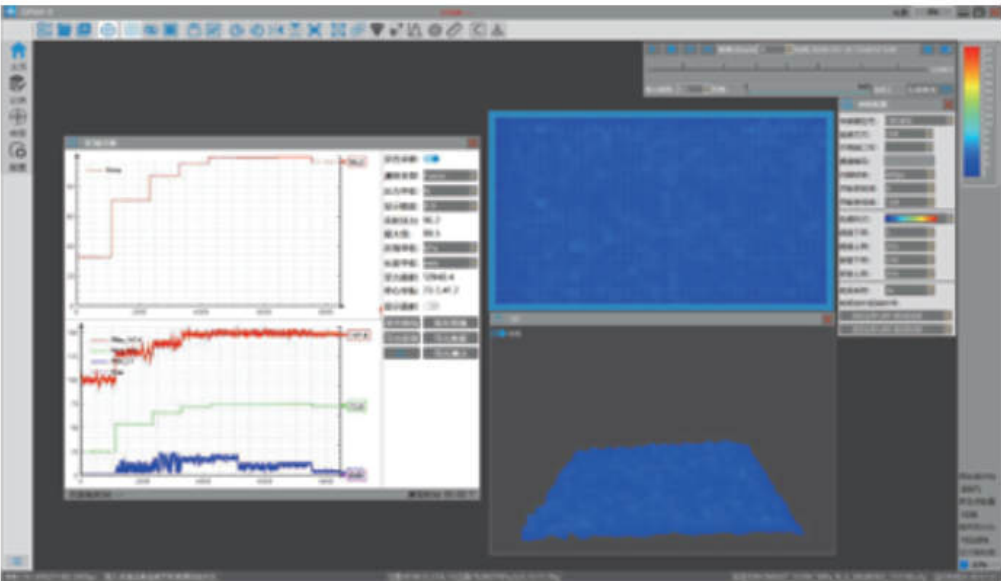
A domestic power battery head company produces battery diaphragms by slicing and winding with production equipment. The customer wants to quantify the change with our pressure distribution measurement system, adjust the parameters and improve the yield rate.



MEASUREMENT PROCESS

Two sensors of the same model are wound on different reels for testing, and the pressure after 1000, 2000, 3000 and 4000 turns are tested respectively, and the software records the pressure images and pressure data. Comparative analysis of the two sets of data.

MEASUREMENT RESULT



The test data show that the force and pressure will gradually increase in the early stage of winding, but after reaching a certain number of meters, the force and pressure inside the diaphragm tends to stabilize, and there is a decreasing trend. This is of reference significance for the subsequent research on the pressure balance point of the diaphragm winding process and the adjustment of the winding parameters.

USE

Experimental data validation

ADVANTAGES

Improvement of diaphragm rolls
Pressure equilibrium point
Adjustment of winding parameters

EQUIPMENT: D2

General Purpose
Distributed Pressure
Measurement System
DPM-G



MODEL	CN1408
Sensing area	148mm*85mm
No. of sensing points	1000, 25rows*40 columns
Point density	7.7points/cm ²
Pressure ranges	600psi