

CASE STUDY #1685 | TORQUEPRO

INDUSTRIAL INSERTION

Challenge

Brass fitting insertion into a plastic housing.
Torque testing brass connector within plastic housing to detect cracks.

Upon insertion of brass fitting into the plastic housing, a certain percentage of the plastic pieces were cracking. This problem was partially fixed by adding a metallic ring around the opening to strengthen the plastic. Unfortunately this did not fix the problem entirely, and added some frustration to the process. Even though the amount of cracks were reduced, it was still happening. It could not be physically noticed due to the metallic ring covering up the evidence.



Solution

Using a Promess TorquePRO unit, the customer can do a 100% inspection of all parts by doing a revolution versus torque test. This gave the customer a precise graph of the test, allowing them to give an upper and lower limit of the good part taught. This confirmed if the part was cracked (torque too loose) or not. Another solution would be to use either a Promess Motion Controller or EMAP for insertion of the brass fitting into the plastic to detect cracking of the part.

