Application Technology Center

We are working to develop solutions to technical challenges faced by customers of the KOBELCO Group (especially in the materials business divisions). With the mission of "**creating new solutions by connecting people and technologies around the world**" we collaborate with other research centers, business divisions, and affiliated companies to promote daily technological development with the aim of creating solutions that are unique to the KOBELCO Group and chosen by our customers.



Solutions for Structural Design

As a multi-material supplier, we provide various solutions for structural design and evaluation technologies that lead to low cost, lighter components.

<Evaluation Technologies>

Crash Test Facility

<Structural Design Technologies>



Example of Designing Multi-material Side Door Structure

(56)

We propose optimal solutions using many of our joining technologies that can be applied to similar and dissimilar materials.

Solutions for Joining



Solutions for Forming Process

We provide optimal solutions for forming processes that meet the quality requirements of components made of steel and aluminum sheets.

<Forming Process Design> <Forming Simulation > Displacement **Before Solution** ignificant Example of Springback Evaluation Wall Opening Maximum principal strain <Evaluation Technologies> After Solution Large Slight Wall Opening Example of a solution for improvement of Example of measurement of Small dimensional accuracies in sheet forming maximum principal strain distribution

KOBELCO



In addition to cost and weight reduction, we offer optimal solutions that consider CO₂ emissions from production to End-Of-Life.

