

# KOBELCO

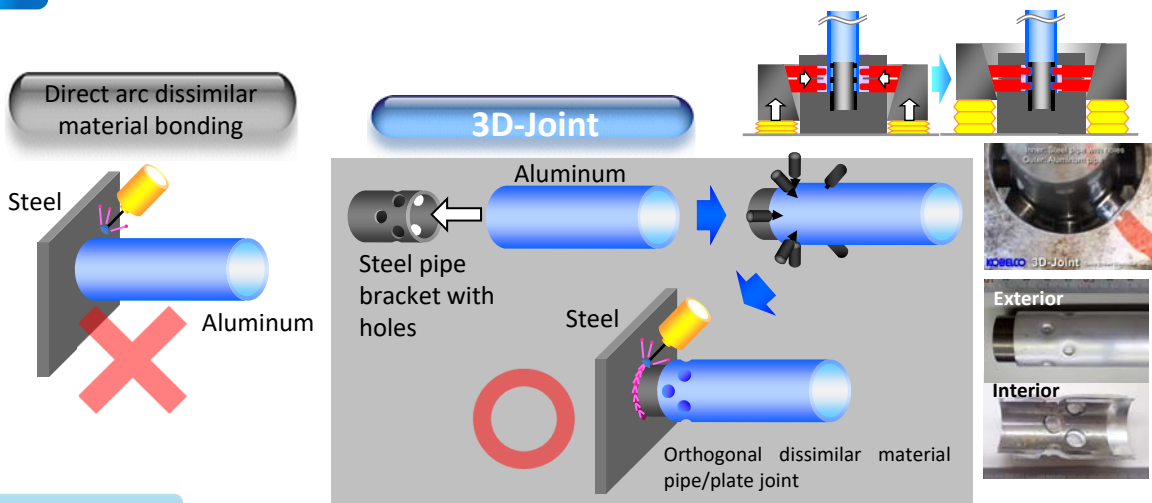
## 3D-Joint: a Multi-point Deep-drawn Dissimilar Metal Pipe Joints

3D-Joint: Dissimilar metal pipe joints using a multi-point deep drawing.

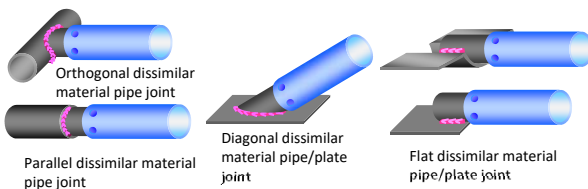
### Benefits

- Can be used with existing arc welding machine production lines without modification.
- Multiple points can be deep-drawn simultaneously for strong fastening with inexpensive equipment.
- Applicable to a wide range of joint types such as orthogonal and parallel joints.

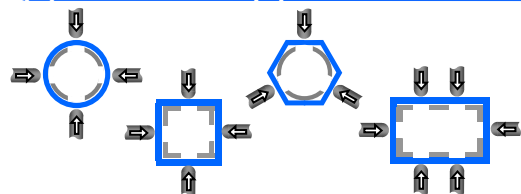
### Key Points



### Joint Patterns



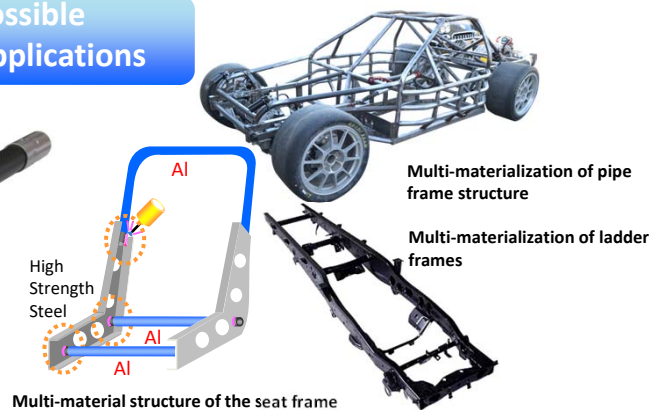
### Cross-sectional combination of main pipe and bracket pipe



### Prototype Sample



### Possible Applications



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