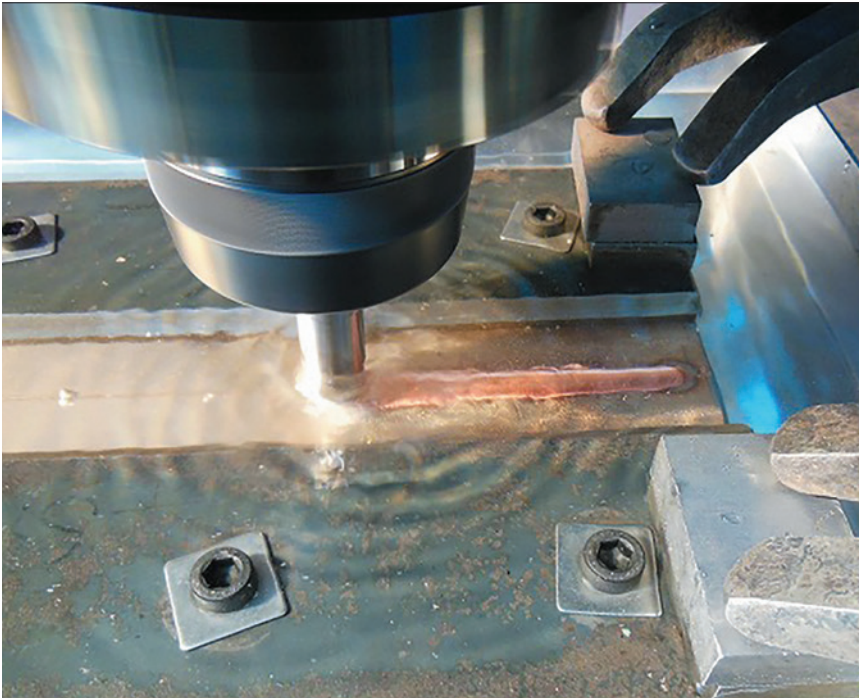




# Friction Stir Welding (FSW)



No consumables or shielding gasses required, and no sputter or toxic fumes produced

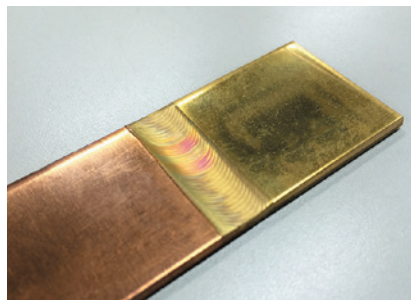
Kikukawa provides high-quality welding joints for flush metal surfaces with FSW in combination with our expertise. This technology involves pressing a rotating tool against the metal to generate frictional heat and rotational force to fluidize the surface, to join the pieces on a microstructural level. The resulting weld is high in strength with minimal heat-induced distortion or discoloration. This solution is sought for high-end construction projects requiring minimal joints, oversized products and high-quality finishes.

## Features

- Cutting-edge welding technology
- High quality sheet welding with minimal distortion and discoloration
- Accommodates small lots of high-variety product lines
- Accommodates production of sheet metals over the market available size
- Low environment impact



State-of-the-art FSW machine



Applicable to dissimilar metals

## Technical Specifications

### Applicable Materials

Aluminium (1.5-10.0mm)  
 Copper Alloy (1.5-6.0mm)  
 Magnesium (1.5-10.0mm)  
 \*Figures based on 1 path

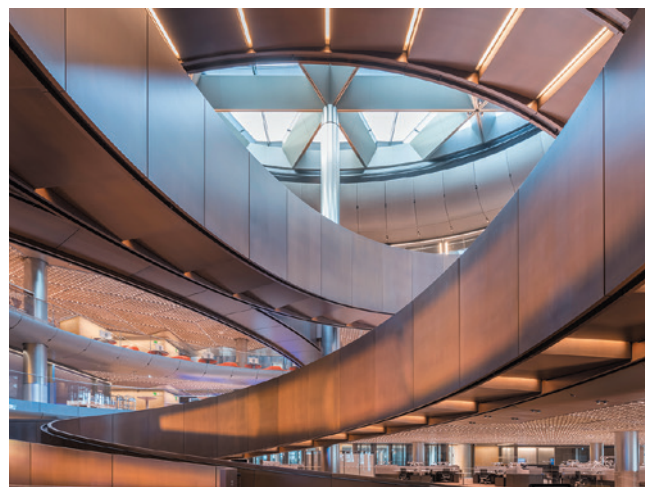
### Maximum Workable Size

2800mm (W) x 4000mm (L)  
 (Please consult with us about larger sizes)

## Examples



**Bloomberg European Headquarters**  
 Exterior Fins (Copper Alloy)



**Bloomberg European Headquarters**  
 Hypotrochoid Ramp (Copper Alloy)