8 Meter Bender



One of the largest bending machines in the industry



High quality bending achieved with craftsmanship and expertise

Able to achieve fan-shaped corrugation

Kikukawa's proprietary bending machine achieves 8 meter long bends with a single operation. In combination with our expertise and craftsmanship, difficult or complex bending including curvatures, nonparallel bending and corrugation is available for outsized metal sheets. This high precision metalcraft is sought for high-end projects requiring minimal joints.

Features

- 8 meter bending with a single operation
- High quality and high precision bending
- Accommodates outsized metal sheets
- Achieves designs with minimal joints

Technical Specifications

Applicable Materials Stainless Steel, Steel, Aluminium, Bronze Maximum Workable Size

500mm (W) x 8000mm (L) (Please consult with us about larger sizes)

Examples



Otemachi Place Southeast Entrance Round Column Covers (Aluminium)



Otemachi Place Sunken Garden Round Column Covers (Aluminium)

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Fibre Laser Welding



Laser welding the TIG tack-welded dual curved product



Accommodates large and dual curved products



Applicable to outsized mirror-polished stainless steel

Kikukawa provides high quality welding on outsized and dual curved products with fibre laser welding in combination with our expertise. With high intensity lasers and robotic arms, this technology achieves small beaded welds with high strength and minimal heatinduced distortion or discoloration. This solution is sought for high-end construction projects requiring complex shapes, minimal joints and high-quality finishes. Accommodates welding of dissimilar metals and experimentation.

Features

- Next-generation welding technology
- High quality and high strength welding with minimal distortion and deformation
- Accommodates outsized and dual curved products
- Accommodates small lots of high-variety product lines
- Long-distance continuous welding
- Accommodates welding of dissimilar metals

Technical Specifications

Applicable Materials Stainless Steel (0.8-6.0mm) Aluminium Alloy (1.0-5.0mm) Copper Alloy (1.0-3.0mm) Steel (0.8-6.0mm) Accommodates titanium and nickel alloy

Maximum Workable Size

1200mm (W) x 7000mm (L) x 1300mm (H) (Please consult with us about larger sizes)

Examples



Tokyu Plaza, Omotesando Harajuku Kaleidoscopic Exterior Panel (Stainless Steel)



The American School in Japan, Chofu Campus Decorative Exterior Gate (Stainless Steel)

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ONLY AT KIKUKAWA

Friction Stir Welding (FSW)



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



State-of-the-art FSW machine



Applicable to dissimilar metals

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, outsized 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

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)

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Incremental Forming



A rotating forming tool applied localized pressure to achieve the desired shape



Metalworking the bronze gate of Shiki Juraku



Incrementally formed samples

In combination with our expertise, Kikukawa optimizes the production of small lots of high variety product lines with incremental forming, a versatile dieless sheet forming technology. The desired shape is achieved by applying localized pressure on a thin sheet metal thus complex shapes that were difficult with conventional deforming methodologies are accommodated. Design or shape revisions and prototype productions are accommodated.

Features

- Eliminates die-making processes and costs
- Accommodates small lots of high-variety product lines
- Accommodates curvatures, polyhedrons and other complex shapes
- Cutting edge metalworking technology

Technical Specifications

Applicable Materials

Stainless Steel (up to 1.5mm) Aluminium Alloy (up to 3.0mm) Copper Alloy (up to 3.0mm)

Maximum Workable Size 2600mm (W) x 3000mm (L) (Please consult with us about larger sizes)

Examples



Shiki Juraku Bespoke Gate (Copper Alloy)



"Shades of Michelangelo" by Kuwasawa Design School and KIKUKAWA Chair (Aluminium)

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