Arc Weldings manufacturer in china--Ningbo Chilon import and export Co.,Ltd.

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Welding refers to the uniting or fusing of pieces by using heat and/or compression so that the pieces form a continuum. The source of heat in welding is usually an arc flame produced by the electricity of the welding power supply. Arc-based welding is called arc welding.

The fusing of the pieces can occur solely based on the heat produced by the arc so that the welding pieces melt together. This method can be used in TIG welding, for example.

Usually a filler metal is, however, melted into the welding seam, or weld, either using a wire feeder through the welding gun (MIG/MAG welding) or by using a manual-feed welding rod. In this scenario, the filler metal must have approximately the same melting point as the material welded.

Before beginning with the welding, the edges of the weld pieces are shaped into a suitable welding groove, for example a V groove. As the welding progresses, the arc fuses together the edges of the groove and the filler, creating a molten weld pool.

For the weld to be durable, the molten weld pool must be protected from oxygenation and effects of the surrounding air, for example with shielding gases or slag. The shielding gas is fed into the molten weld pool with the welding torch. The welding electrode is also coated with a material that produces shielding gas and slag over the molten weld pool.

The most commonly welded materials are metals, such as aluminium, mild steel and stainless steel. Also plastics can be welded. In plastic welding, the heat source is hot air or an electric resistor.

In MIG/MAG welding, an arc is created with the power supply through the welding gun between the welding wire being fed and the work piece. The arc fuses the material being welded and the welding wire, thus creating the weld. The wire feeder continuously feeds welding wire through the welding gun throughout the welding process. The welding gun also provides shielding gas to the weld.

The MIG and MAG welding methods differ from each other in that MIG (metal inert gas) welding uses an inert shielding gas, which does not participate in the welding process, while MAG (metal active gas) welding employs an active shielding gas that participates in the welding process.

Usually the shielding gas contains active carbon dioxide or oxygen, and therefore MAG welding is by far more common than MIG welding. In fact, the term MIG welding is often accidentally used in connection with MAG welding

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