

Electrode Arms

PW manufactures a wide range of electrode arms for many users of spot welding equipment, including arms for standard pedestal welders.

PW design office can design your arms from sketches or samples and manufacture them from the highest quality materials.

PW's extensive experience in the automotive industry includes many years of designing and making electrode arms of all shapes and sizes.

We can recommend the right material, advise on electrode standards and design to suit the exact welding requirement.

We have full stress analysis facilities and can design strength and life into arms at the drawing stage.

Copper of up to 60mm dia can be bent using sophisticated machines which prevent 'necking' across the bends and maintain optimum strength throughout the life of the arm.

Brass webs can be welded onto the copper using high power Mig systems, far stronger than brazing, in order to ensure minimum arm deflection during the welding process

Flat chrome copper sheet can be used for complex shapes and cast arms can be made from chrome or beryllium copper.

Aluminium arms for large robot guns. These are manufactured by PW and then nickel plated to ensure there is no galvanic corrosion between the aluminium and the copper busbars.

FEA study by PW of special electrode arm for large robot welding gun

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