

**Shunts and busbars**

**Flexible shunts**

Crucial to the performance of spot welding machines, flexible shunt technology is more complex than it may at first seem.

The correct design and material selection will radically change the life of a shunt.

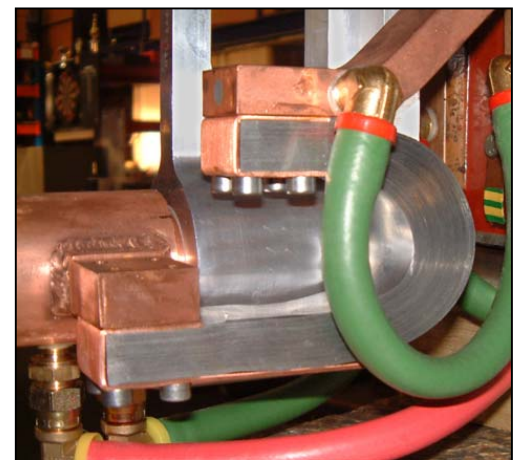
PW's exclusive tinned copper material reduces shunt temperature without the high cost of silver plating.

Standard copper down to 0.002" is also used.

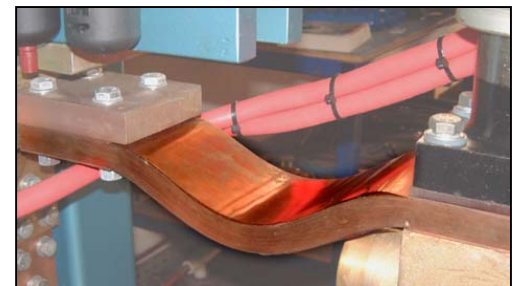


Shunts should be designed to the correct operating radius and the end caps, which can either hydraulically crimped or welded, made to ensure the shunt follows the correct working radius

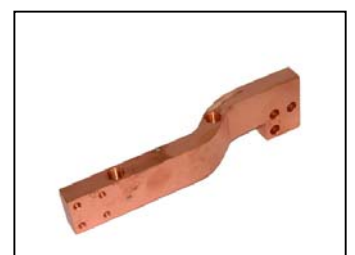
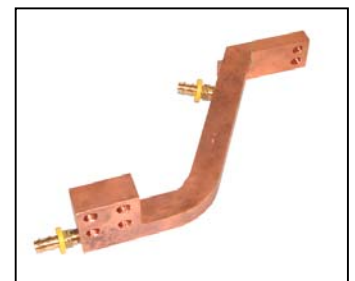
Shunts should always be replaced when 10% of the leaves are broken. Beyond this, severe overheating will occur, diminishing the machine's performance.



PW will make shunts for large or small machines to any size required. A simple dimensional sketch showing the overall dimensions and the hole centres is all that is required.



PW manufactures copper busbars, either air or watercooled, for use on many robot gun and multi-welder applications. The quality of the brazed joints is crucial to performance, as these need to be both mechanically sound to withstand the stresses of passing high currents and electrically good to ensure high conductivity and therefore low operating temperatures.



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