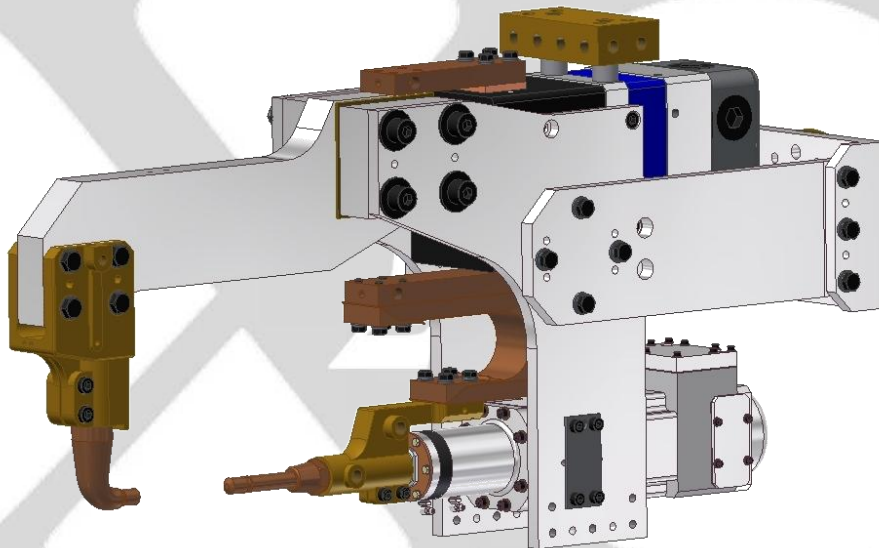




# X2C Servo Gun

- A New Generation of Modular Welding Gun -



**JIL** **OBARA**

# OBARA Corporation's **X<sub>2</sub>C** Weld Gun

**R**elying on 50 plus years of global resistance welding experience, the OBARA Corporation has developed new weld gun technology.

The **X<sub>2</sub>C** concept is the latest in modular weld gun design. Easily converted from an X gun to a C gun, the **X<sub>2</sub>C** is a robust and maintenance friendly design.

## **F**lexibility:

A single gun body with a standard mount bracket is used to construct both the X and C gun configurations. A specialized gun kit is then installed to create the X or C gun body assembly. Once an X or C body is assembled, then it is simple to install arm components to generate a complete gun. The common X and C body allows for these simple configuration changes. The mount bracket can also be repositioned to change the orientation of the weld gun.

## **L**ight Weight:

The new **X<sub>2</sub>C** concept also incorporates OBARA's experience in light weight gun designs. With thousands of lightweight guns in use globally, OBARA is the industry leader in light weight weld gun production. In addition to weight reduction, the new designs are narrower and symmetrical. This allows for easy access to weld spots and eliminates left and right handed components. Many robot suppliers have begun to introduce smaller and faster robots that have reduced capacity. These robots allow for the construction of high density weld cells. With more welding done in limited floor space, the lightweight and narrow guns are ideal.

## **C**ost Savings:

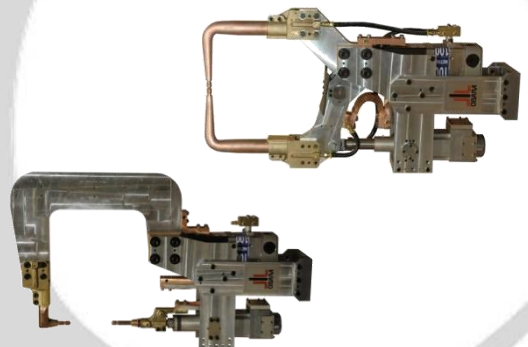
For cost savings, the **X<sub>2</sub>C** weld gun requires fewer spare parts. The custom designed MFDC transformer reduces the number of secondary circuit parts. The modular design eliminates the need for spare weld guns. Weight reduction allows robots to move faster and reduces cycle times. The standard designs are capable of generating weld forces up to 6000N, so the need for expensive, high pressure components is reduced.

## **D**esign:

An extensive 2D and 3D library of designs is available. OBARA's experienced design group can also customize tip holders and brackets as required.

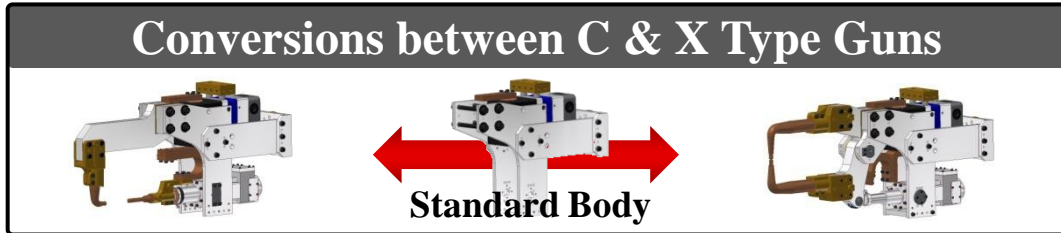
**The **X<sub>2</sub>C** weld gun design provides all the advantages required by today's modern body weld cells:**

- **Flexibility**
- **Lightweight**
- **Lower Operating Costs**
- **Increased Efficiency**



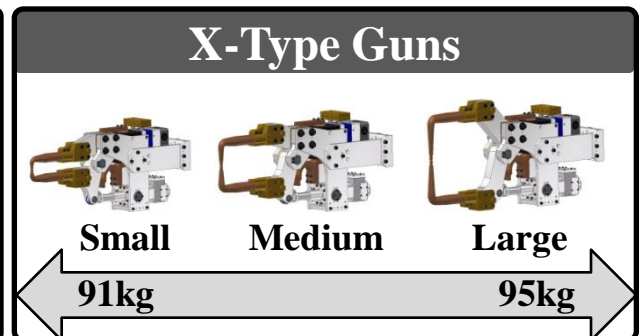
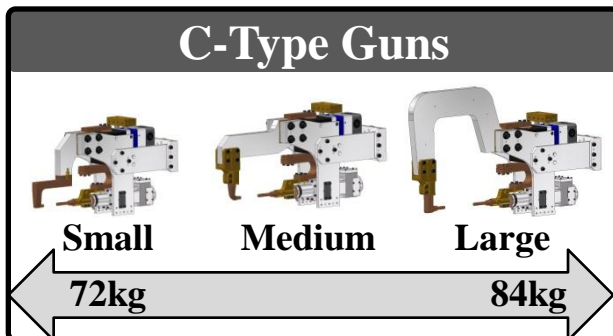
## ● Advanced Flexibility:

- ➔ Converts between C-Type and X-Type Guns
- ➔ Standard Body Concept
- ➔ Various Arm Designs with the same body



## ● Lightweight & Compact:

- ➔ Completely Symmetrical
- ➔ Narrow Body
- ➔ Lightweight (all models less than 100kg with MFDC Transformer)

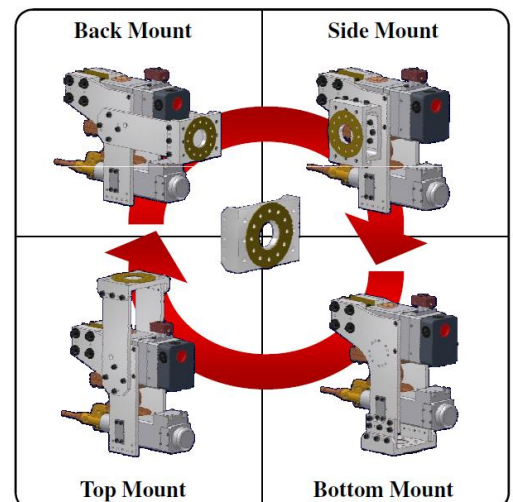


## ● Common Spare Parts:

- ➔ Standardized key components
- ➔ Universal Bracketing

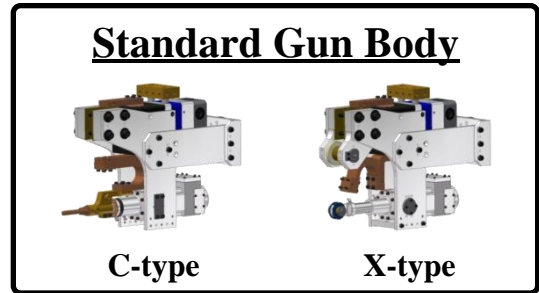
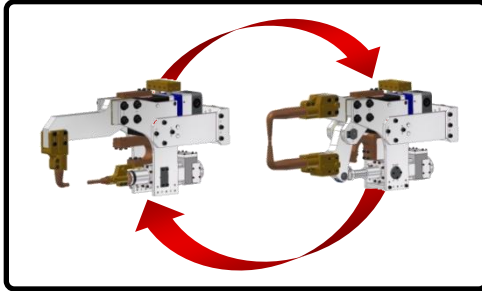
## ● High Performance:

- ➔ High Pressure (6000N standard)
- ➔ Multiple MFDC Transformers
- ➔ Maintenance Friendly Design



- **Standardized Design:**

- ➔ Covers 90% of Typical Weld Gun Requirements
- ➔ Dramatically Reduces Required Spare Parts
- ➔ Easily Converts to New Configurations



- **Suitable for Small Robots:**

- ➔ Lightweight & Compact
- ➔ No Reduction in Transformer Capacity

- **Ideal for Smaller Cells:**

- ➔ Symmetrical Design
- ➔ Narrow Body

- **Suitable for Increased Robot Speed:**

- ➔ Lighter design results in less stress and higher speeds
- ➔ Designed to accommodate stress up to 3G



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