FlexGun
Electrically driven servo weld gun

The demands for high process speed, production reliability and genuine quality is a main focus in the automotive industry. ABB Robotics offers a proven Electric Servo Gun, FlexGun, with parallel arm movements as integrated solution controlled by the robot controller.

Developed and manufactured by ABB Robotics, the FlexGun is a modular system. The same body can be combined with standard or specific arms, for either X or C/J guns. This concept offers a wide range of welding solutions to meet all the expectations of the industry with short delays.

The parallel arm movement enhances the rigidity of the arms to guarantee the process quality.

**Key features and benefits**
- Same gun body for all models (X and C/J Gun) so we have less spare parts
- Designed for heavy electrode force in stable welding conditions
- Easy to change between X and C/J Gun
- Centre of gravity near the robot attachment
- Robot simulation simplified by the gun symmetry
- Drive unit integrated in robot control to reach higher performance
- Easy access for maintenance

**Options**
- Robot attachment bracket (in-line, 40 or 90 degrees)
- Electrode tips (16 or 20mm standard)
FlexGun standard offer

Options
Depth of gun arm configurations are available. Maximal force 600 daN. The maximal gun opening is 250 mm. On parallel gun type, the depth depends on the length of two parts: the arm length and the electrode holder.

For other configurations and dimensions, please contact ABB.

Welding transformer
The FlexGun supports the ISO transformer MFDC.

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01 FlexGun X Type
02 FlexGun C/J Type
03 FlexGun body

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01

02

03

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FlexGun standard offer

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