

Fixed Robotic

INDUSTRY

Automation

SOLUTION

LCM1500

EQUIPMENT

Fixed Robotic Arm

Fixed robots are commonly used throughout Industry 4.0 manufacturing lines to perform repetitive, mundane and sometimes dangerous tasks—freeing up humans for more complex, conceptual and safer roles. Many fixed robots feature an articulated arm which is used to lift, move and place or connect objects into a higher-level assembly. When the object being moved is heavy, and the speed of movement is fast, a large back EMF can be generated by the

stepping motor when the arm comes to a stop. The customer needed both a 600W and 1500W AC/DC power supply solution for different size arms. Advanced Energy's design engineers were able to quickly make modifications to its LCM600 and LCM1500 series, due to the DSP-based design, to absorb the back EMF energy while also addressing their lower standby current requirement of <math><0.5\text{mA}</math>.



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