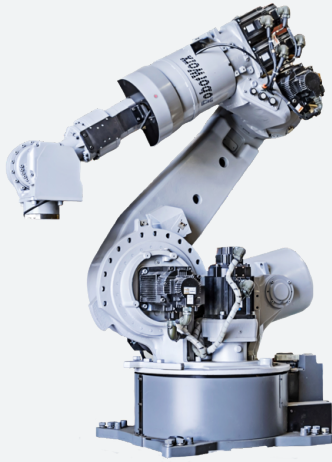


## Motoman ES165N



The Motoman ES165N "Expert Spot" robot is specifically designed to deliver unmatched performance and reliability in spot welding applications. To increase cable life, enhance safety, and reduce teaching time, the servo gun cables, air and water lines are routed through the ES165N's base and upper arm to the robot's wrist. The ES165N NX100 robot's compact, slim design allows it to reduce cycle time and reach into confined spaces, thus improving system productivity.

The ES165N's process-specific design, together with Motoman's patented multiple robot controller, ensures maximum productivity in spot welding applications. The standard ES165N NX100 is floor-mounted.

**For more information about the Motoman ES165N,  
contact a Robotworx representative today at 740-251-4312.**

### Robot Information

#### Robot Specifications

Axes:..... **6**  
Payload:..... **165 kg**  
H-Reach:..... **2651 mm**  
Repeatability: **±0.2 mm**  
Robot Mass: **1100 kg**  
Structure: ..... **Articulated**  
Mounting: ..... **Floor**

#### Robot Motion Speed

S-Axis.....**110 °/s (1.92 rad/s)**  
L-Axis.....**110 °/s (1.92 rad/s)**  
U-Axis.....**110 °/s (1.92 rad/s)**  
R-Axis.....**175 °/s (3.05 rad/s)**  
B-Axis.....**145 °/s (2.53 rad/s)**  
T-Axis.....**240 °/s (4.19 rad/s)**

#### Robot Motion Range

S-Axis.....**±180°**  
L-Axis.....**+76° - 60°**  
U-Axis.....**+230° - 142.5°**  
R-Axis.....**±360°**  
B-Axis.....**±130°**  
T-Axis.....**±360°**

#### Robot Controllers

**NX100 >**

#### Robot Applications

**Fiberglass Cutting >**  
**Resistance Welding >**

**Spot Welding >**  
**Welding Automation >**