

## ABB IRB 6640ID-170



The Internal Dressing of the ABB IRB 6640ID-170 IRC5 offers higher motion control, predictable dress pack lifetime, longer dress pack lifetime, and less spare part cost. This is because the cables are routed inside the upper arm and follow the robot arm's every motion instead of swinging in irregular patterns. TrueMove and QuickMove also provide consistency as they help monitor loads and improve path precision to help increase the productivity and overall span of the robot's life.

The ID model is a huge advantage as the IRB 6640ID-170 tackles a variety of applications requiring payloads up to 170 kg, reaches up to 2750 mm. It also offers a smaller footprint with its ability to bend fully over backwards. Safety was important when developing this robot as it has a bunch of additional features such as movable mechanical stops, EPS, and load identification.

**For more information about the ABB IRB 6640ID-170,  
contact a Robotworx representative today at 740-251-4312.**

### Robot Information

#### Robot Specifications

Axes:..... 6  
Payload:..... 170 kg  
H-Reach:..... 2750 mm  
Repeatability:  $\pm 0.07$  mm  
Robot Mass: 1310 kg  
Structure: ..... Articulated  
Mounting: ..... Floor

#### Robot Motion Speed

Axis 1.....110 °/s (1.92 rad/s)  
Axis 2.....90 °/s (1.57 rad/s)  
Axis 3.....90 °/s (1.57 rad/s)  
Axis 4.....190 °/s (3.32 rad/s)  
Axis 5.....140 °/s (2.44 rad/s)  
Axis 6.....235 °/s (4.1 rad/s)

#### Robot Motion Range

Axis 1..... $\pm 170^\circ$   
Axis 2..... $+85^\circ - 65^\circ$   
Axis 3..... $\pm 70^\circ$   
Axis 4..... $\pm 180^\circ$   
Axis 5..... $\pm 300^\circ$   
Axis 6..... $\pm 100^\circ$

#### Robot Controllers

IRC5 >

#### Robot Applications

Machine Tending >  
Material Handling >

Spot Welding >