



## **ROBOSUIT™ INSTALLATION INSTRUCTIONS FOR THE MOTOMAN HP-SERIES ROBOT**

PRIOR TO INSTALLING THE ROBOSUIT™, CLEAN THE ROBOT SURFACE IF THE ROBOT HAS BEEN IN OPERATION WITHOUT ANY EFFECTIVE PROTECTION. DISCONNECT ANYTHING THAT WILL INTERFERE WITH INSTALLATION. NORMALLY, END-OF-ARM TOOLING DOESN'T INTERFERE. REMOVE OR FILE ANY SHARP EDGES WHICH COULD CUT THE SUIT. OPEN ALL ZIPPERS.

1. INSTALL THE LOWER ARM PIECE FIRST BY DRAPING IT OVER THE SHOULDER. LEAVE THE LIFTING "EYE" BOLTS ON THE ROBOT AND MAKE SURE THE BELLOWS (ACCORDIAN-STYLE FOLDS) ARE IN PROPER POSITION AROUND THE ROBOT'S LOWER ARM. ZIPPER THE SUIT CLOSED AND Tighten THE BELT AROUND THE BOTTOM OF THE ROTATING BASE (RED BAND). MAKE SURE EXCESS BELT MATERIAL IS NOT DANGLING.
2. INSTALL THE UPPER ARM PIECE NEXT... Positioning THE TOOL FLANGE PERPENDICULAR TO THE ARM WILL FACILITATE INSTALLATION. THE ZIPPER SHOULD BE SITUATED ALONG THE BOTTOM OF THE ARM. CLOSE THE ZIPPER AND SNAP THE BUTTON. CLAMP THE UPPER ARM PIECE BEHIND THE FLANGE IF THERE IS A POSSIBILITY THE SUIT COULD SLIP OFF THE FLANGE AND INTERFERE WITH THE TOOLING. MAKE CERTAIN THE CLAMP DOESN'T INTERFERE WITH THE TOOL-FLANGE ROTATION. THE UPPER ARM OVERLAYS THE LOWER ARM. DO NOT CLAMP THE TWO SUIT PIECES TOGETHER.
3. ATTACH ALL TOOLING AND RECONNECT ALL ELECTRIC/PNEUMATIC LINES THAT WERE DISCONNECTED. IF YOUR SUIT WAS CUSTOMIZED, VELCRO PANELS HAVE BEEN INCORPORATED TO ACCESS THE ROBOT WHERE ATTACHMENTS HAVE TO BE MADE. CAREFULLY CUT "CROSS-HAIRS" INTO THE ACCESS PANELS AS NEEDED FOR BOLTS OR CONNECTORS.
4. MAKE SURE THERE ARE NO OBJECTS FOR THE SUIT TO SNAG BEFORE PUTTING THE ROBOT INTO MOTION. SLOWLY MOVE THE ROBOT ONE AXIS AT A TIME BEGINNING WITH THE TOOL FLANGE (T-AXIS) AND ENDING AT THE BASE (S-AXIS) WHILE CHECKING FOR ANY FIT PROBLEMS.

SHOULD YOU HAVE ANY QUESTIONS, PLEASE CONTACT ROBOWORLD.