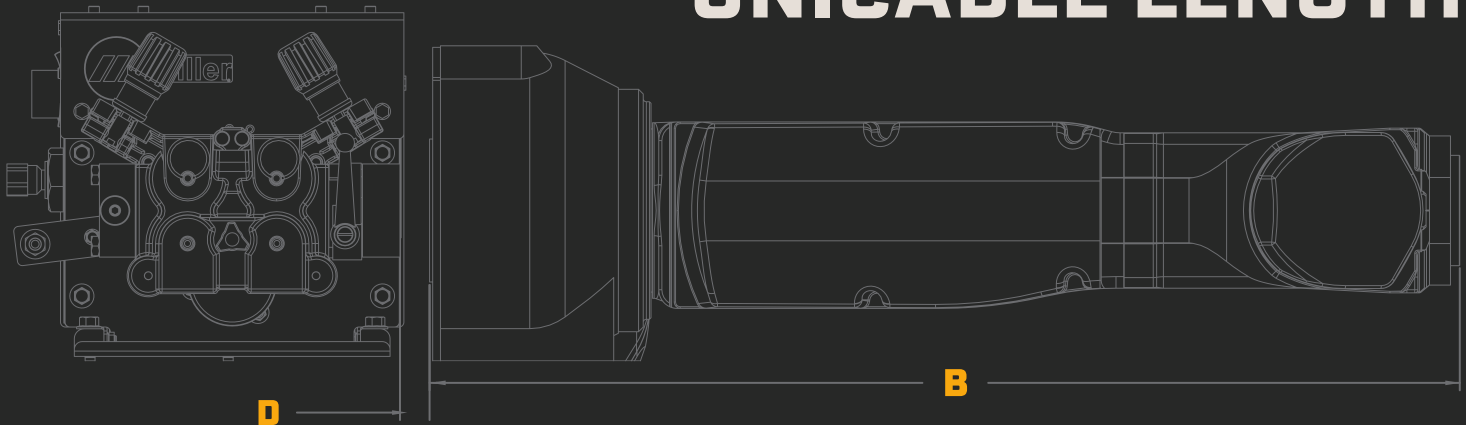


# HOW TO MEASURE FOR ATLAS LSR + UNICABLE LENGTH



**MEASURE THE LENGTH OF THE ROBOT ARM: INSERT A TAPE MEASURE THROUGH THE WRIST OF THE ROBOT AND MEASURE FROM THE END OF THE ROBOT ARM CASTING TO THE FACE PLATE ON THE WRIST → DIMENSION “B”.**

**MEASURE THE DISTANCE BETWEEN THE END OF THE ROBOT ARM CASTING AND THE POWER PIN MATING FACE ON THE WIRE FEEDER → DIMENSION “D”.**

**THESE DIMENSIONS ARE KNOWN AND SHOULD BE SELECTED BASED ON THE OPTIONS FOR THE TORCH:**

## “A” DIMENSION:

**SOLID MOUNT = 4.844” OR 123MM**

This dimension is from the end of the cable to the wrist of the robot; it is the same for all Solid Mount torch options.

## “C” DIMENSION:

**POWER PIN**

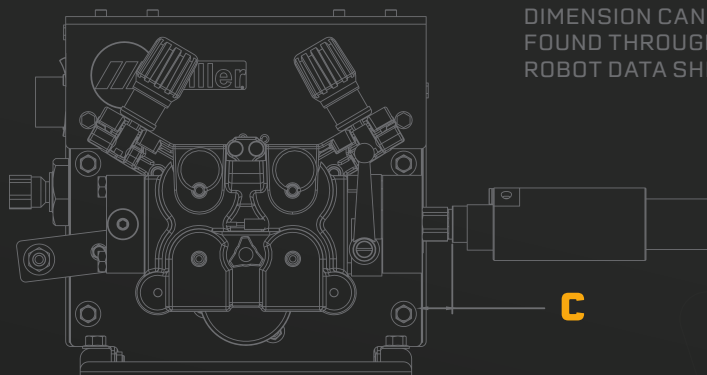
MILLER [214-1] = 0.730” OR 18.5 MM  
LINCOLN [214-40] = 1.385” OR 35.2 MM  
FRONIUS [214-41] = 0.874” OR 22.2 MM  
PANASONIC [214-30] = 1.635” OR 41.5 MM

## “S” DIMENSION:

**SLACK DIMENSION**

The Slack Dimension is based on the overall length of the cable and the robot window opening. This will account for the 1.5” of Slack needed in the cable when assembled to the robot.

ABB ROBOTS: 0.591” OR 15 MM  
FANUC IC AND ID: 0.591” OR 15 MM  
MOTOMAN: 0.591” OR 15 MM  
PANASONIC: 0.787” OR 20 MM  
KAWASAKI: 0.591” OR 15 MM  
KUKA: 0.591” OR 15 MM



ALTERNATIVELY, THIS DIMENSION CAN BE FOUND THROUGH THE ROBOT DATA SHEET.

## FORMULA TO CALCULATE LSR+ CABLE LENGTH:

$$A+B+D - C+S = \text{CABLE LENGTH}$$

**A =** TORCH MOUNT LENGTH

**B =** ROBOT ARM LENGTH

**C =** POWER PIN LENGTH

**D =** DISTANCE TO WIRE FEEDER

**S =** SLACK DIMENSION