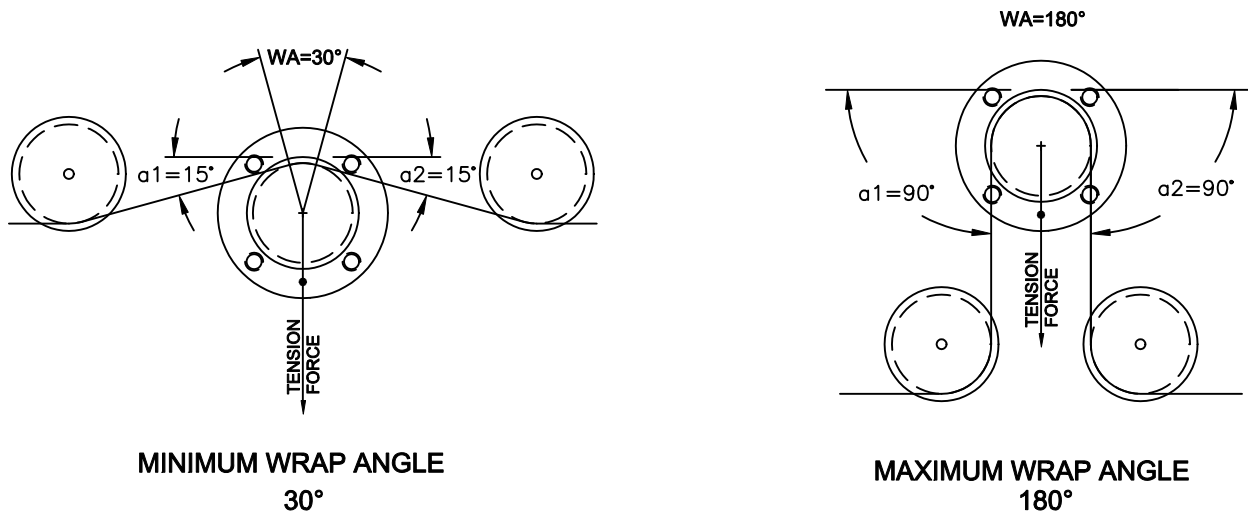


FIGURE 7
MATERIAL WRAP ANGLE ON SENSOR ROLLER

Wrap angle is the distance in degrees that the tensioned material contacts the sensor roller. TMI will typically show this as the sum of the deflection angles a_1 and a_2 . When angles a_1 and a_2 are known then the force on the sensor can be calculated to determine the tension sensor's capacity.



MINIMUM WRAP ANGLE
30°

MAXIMUM WRAP ANGLE
180°

FIGURE 8
MATERIAL WRAP ANGLE MINIMUM AND MAXIMUM

TMI tension sensors can be designed to work with wrap angles between 30° and 180°. Most 3 roller face plate models have wrap angles of 40° to 60°.