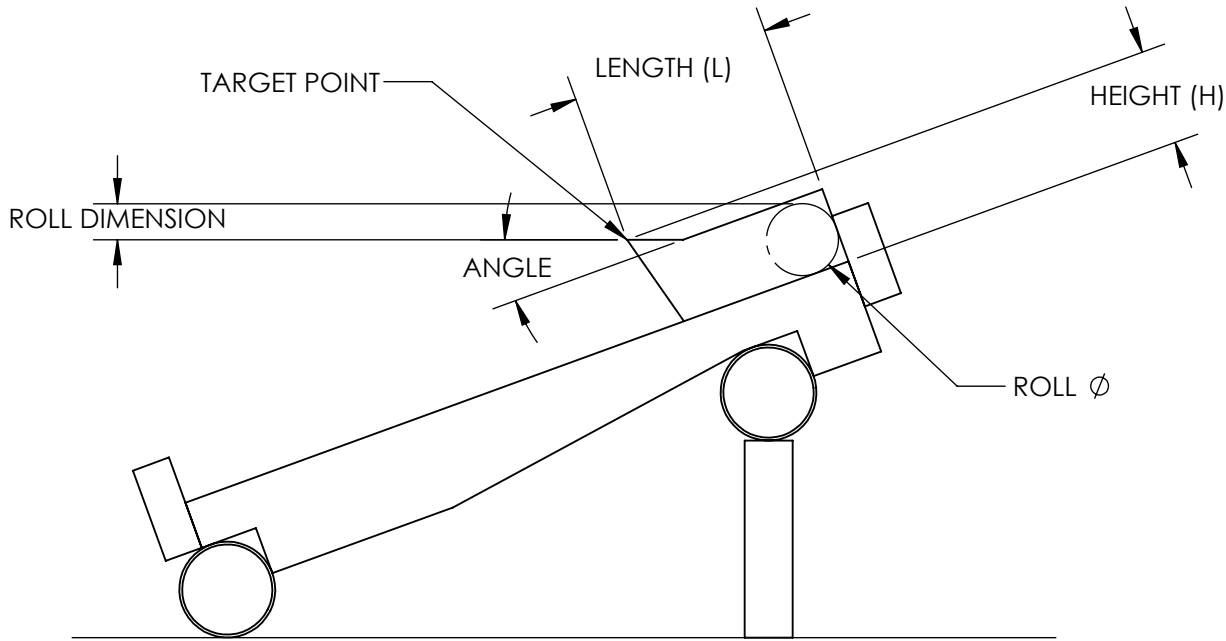


ROLL DIMENSION: INVERTED ANGLE  
 FORMULA:  
 $((L - (\frac{1}{2}ROLL)) * \sin(-ANGLE) = 1$   
 $((H - (\frac{1}{2}ROLL)) * \cos(-ANGLE) = 2$   
 $1 + 2 - (\frac{1}{2}ROLL) = ROLL DIMENSION$

NOTE: ANGLE INPUT IS A NEGATIVE VALUE.  
 SINE BAR IS SET TO GIVEN ANGLE.  
 ANY TARGET POINT MAY BE USED  
 AS LONG AS H AND L VALUES CORRESPOND  
 TO THIS POINT.



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES  
 TOLERANCES FOR BOTH SYSTEMS ARE:

|                 |               |                |  |                   |
|-----------------|---------------|----------------|--|-------------------|
| <b>ENGLISH:</b> |               | <b>METRIC:</b> |  | <b>ALL ANGLES</b> |
| FRACTIONS       | DECIMALS      | DECIMALS       |  |                   |
| ± 1/32          | .XX ± .01     | X.X ± 0.1      |  | X ± .1°           |
|                 | .XXX ± .002   | X.XX ± 0.01    |  | .XX ± .05°        |
|                 | .XXXX ± .0002 |                |  |                   |

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 Huntingdon, PA 16652

|                      |                 |                   |
|----------------------|-----------------|-------------------|
| MATERIAL<br>N/A      |                 |                   |
| FINISH<br>√ 32       | DRAWN BY<br>NWE | DATE<br>9/01/2015 |
| DO NOT SCALE DRAWING | APPROVED        | DATE              |

|                                |                     |              |
|--------------------------------|---------------------|--------------|
| ROLL DIMENSION: INVERTED ANGLE |                     |              |
| SIZE<br>A                      | DWG. NO.<br>RPT0003 | REV.<br>A    |
| SCALE: XX                      | FILE:               | SHEET 1 OF 1 |

|        |       |                 |                    |           |          |         |
|--------|-------|-----------------|--------------------|-----------|----------|---------|
| A      |       | Initial Release | NWE                | 9/01/2015 |          |         |
| PART # | REV # | ECN             | CHANGE DESCRIPTION | REV. BY   | ECN DATE | CHECKED |

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