# Conveyor Belt Bias Angle

## Quick divide guide

| Bias Angle | Divide Belt Width By |
|---|---|
| 10° | 5.67 |
| 17° | 3.27 |
| 22° | 2.48 |

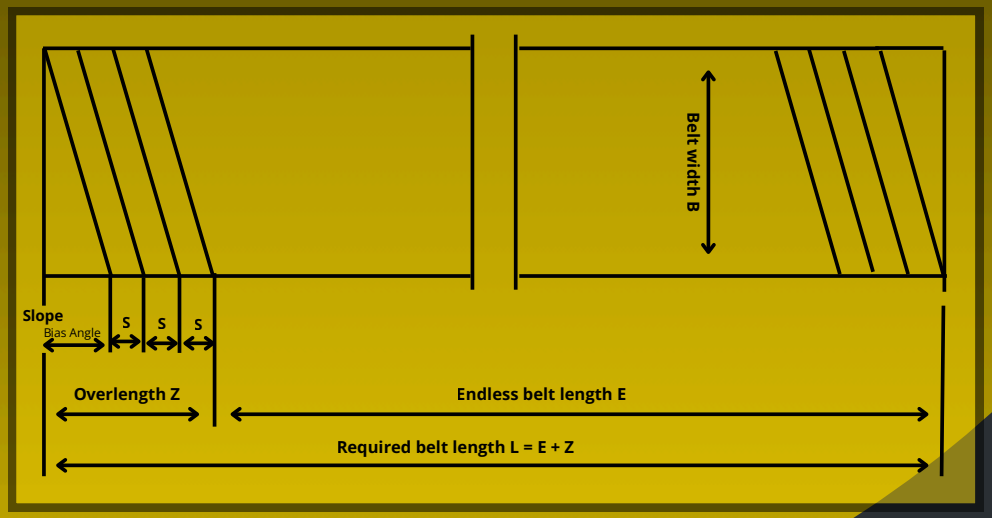
| Quick Marking |
|---|
| 10° = divide by 5.7 |
| 17° = divide by 3.3 |
| 22° = divide by 2.5 |

| Example: 1000mm belt |
|---|
| 1000 ÷ 5.67 = 176mm |
| 1000 ÷ 3.27 = 306mm |
| 1000 ÷ 2.48 = 403mm |

| Belt Width | Angle 22% / 2.48<br>Top Edge (TE)<br>Lead Angle (LA) | Angle 17% / 3.27<br>Top Edge (TE)<br>Lead Angle (LA) | Angle 10% / 5.67<br>Top Edge (TE)<br>Lead Angle (LA) |
|---|---|---|---|
| 2m | 808mm (TE) | 611mm (TE) | 353mm (TE) |
| 1800m | 727mm (TE)<br>1941mm (LA) | 550mm (TE)<br>1882mm (LA) | 318mm (TE)<br>1827mm (LA) |
| 1600m | 646mm (TE)<br>1725mm (LA) | 489mm (TE)<br>1568mm (LA) | 283mm (TE)<br>1624mm (LA) |
| 1500m | 606mm (TE)<br>1617mm (LA) | 458mm (TE)<br>1568mm (LA) | 265mm (TE)<br>1523mm (LA) |
| 1400m | 565mm (TE)<br>1509 (LA) | 428mm (TE)<br>1463mm (LA) | 247mm (TE)<br>1421mm (LA) |
| 1300m | 525mm (TE)<br>1402mm (LA) | 397mm (TE)<br>1359mm (LA) | 230mm (TE)<br>1320mm (LA) |
| 1200m | 484mm (TE)<br>1294 (LA) | 366mm (TE)<br>1254mm (LA) | 212mm (TE)<br>1218mm (LA) |
| 1000m | 404mm (TE)<br>1078mm (LA) | 305mm (TE)<br>1045mm (LA) | 176mm (TE)<br>1015mm (LA) |
| 900m | 363mm (TE)<br>970mm (LA) | 275mm (TE)<br>941mm (LA) | 159mm (TE)<br>913mm (LA) |
| 800m | 323mm (TE)<br>862mm (LA) | 244mm (TE)<br>836mm (LA) | 141mm (TE)<br>812mm (LA) |
| 750m | 303mm (TE)<br>808mm (LA) | 229mm (TE)<br>784mm (LA) | 132mm (TE)<br>761mm (LA) |
| 650m | 262mm (TE)<br>701mm (LA) | 198mm (TE)<br>679mm (LA) | 115mm (TE)<br>660mm (LA) |
| 600m | 242mm (TE)<br>647mm (LA) | 183mm (TE)<br>627mm (LA) | 106mm (TE)<br>609mm (LA) |
| 500m | 202mm (TE)<br>539mm (LA) | 152mm (TE)<br>522mm (LA) | 88mm (TE)<br>507mm (LA) |

*Dividing the belt width by 3 gives approximately 18.4° not 22°*

### *Splice configuration for step splices*




**Formula Symbols**
**S (mm) Step length, see table**
**B (mm) Belt width**
**Z (mm) Additional length for splice**


**The Conveyor Shop Ltd**
0116 231 2183
sales@theconveyorshop.co.uk
www.theconveyorshop.co.uk



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