



Choosing the right Size Belt Conveyor

A Belt Conveyor can only move product as long as it is below that products degree of repose. Once the belt conveyor goes past the angle of repose the product will roll back down the belt.

The table below indicates the maximum height a conveyor can move product at 26 degrees. The actual degree of repose will vary on the moisture content and size of the grain. As a general rule of thumb 26 degrees is the maximum angle a belt conveyor will work efficiently at. It is worth noting Barley and Durum Wheat have a degree of repose of 25 degrees.

Length of Belt Conveyor

Maximum Reach at 26 degrees

30 foot	13 foot (4 meters)
35 foot	15 foot (4.6 meters)
40 foot	17 foot (5.2 meters)
45 foot	19 foot (5.8 meters)
55 foot	24 foot (7.3 meters)
65 foot	28 foot (8.5 meters)
75 foot	32 foot (9.8 meters)
85 foot	37 foot (11 meters)
95 foot	41 foot (12 meters)
105 foot	46 foot (14 meters)
120 foot	52 foot (16 meters)

Degree Of Repose

Wheat	26 Degrees	Corn	26 Degrees
Urea	26 Degrees	Durum Wheat	25 Degrees
Chicpeas	29 Degrees		
Barley	25 Degrees		