



3-DEM™

Discrete Element Methods (DEM)

DISCHARGING CONVEYOR:

CONVEYOR NAME	
BELT WIDTH (in.)	
BELT SPEED (FPM)	
HEAD PULLEY DIAMETER (Including lagging)	

RECEIVING CONVEYOR:

CONVEYOR NAME	
BELT WIDTH (in.)	
BELT SPEED (FPM)	
What are supporting the loading area? (impact idlers or impact beds)	

AUTOCAD DRAWING SHOWING CONVEYOR-TO-CONVEYOR DIMENSIONS MATERIAL PROPERTIES (MINIMUM REQUIREMENTS):

The final requirement for analysis is the physical description of the material being transferred. This is the area where some simplifying assumptions are made to facilitate the modeling technique. This can range from simple to complex depending on the material and experience of the person doing the analysis. But in general, this will determine the best simulation characteristics for the material and any physical tests and any additional analysis that are needed to better approximate the material on an individual basis. Material properties include but are not limited to these:

*MATERIAL TYPE (ex. Coal, copper...)	
LOOSE DENSITY (lb/cu ft.)	
*BANK DENSITY (lb/cu ft.)	
*FLOW RATE (TPH)	
*MATERIAL SIZE DISTRIBUTION	
MOISTURE CONTENT (Range)	

*REQUIRED

Any material laboratory test results of internal friction would be appreciated but are generally not required.



SME

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