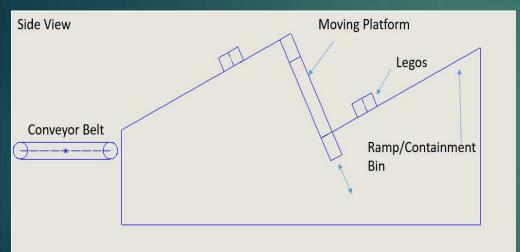
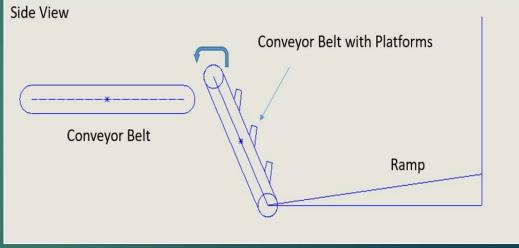
Concept Generation – Inlet Designs

Lift Platform

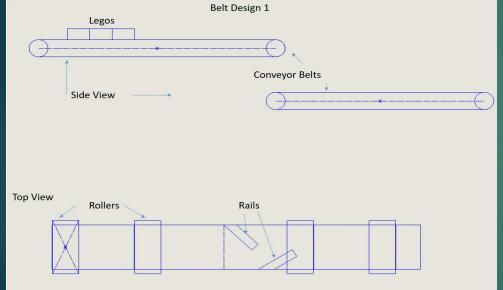


Conveyor Belt with Platforms

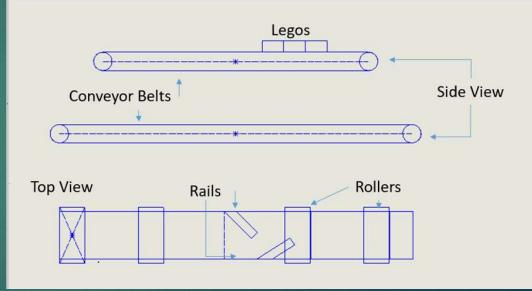


Concept Generation – Belt Designs

Simple Conveyor Belt System

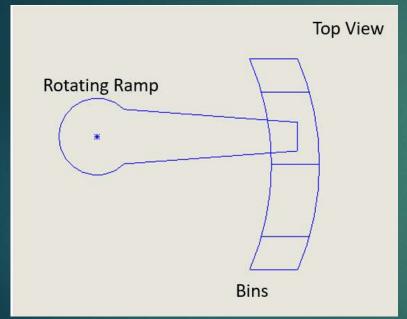


Compact Conveyor Belt Design

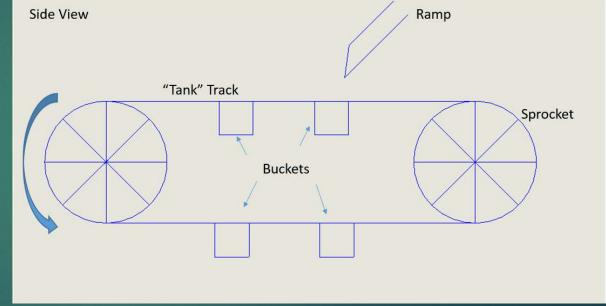


Concept Generation – Bin Designs

Rotating Ramp W/ Stationary Bins



Horizontal Tank Track



Decision Matrix

Inlets	Base Area	weight	Mass	weight	Large imput Volume	weight	Durability	weight			outcome
Lift platform	10	0.3	10	0.3	10	0.2	. 5	0.2			9
conveyorbelt with platforms	10	0.3	8	0.3	10	0.2	10	0.2			9.4
Belts	Base Area	weight	Mass	weight	Enclosed System to Prevent Pinch Points	weight	Cost	weight			outcome
simple conveyor belt system	6	0.3	9.5	0.3	7	0.1	. 10	0.3			5.4
compact conveyor belt system	10	0.3	10	0.3	10	0.1	. 5	0.3			7
Bins	Base Area	weight	Mass	weight	Enclosed System to Prevent Pinch Points	weight	Cycle Time	weight	#Types	weight	outcome
rotating ramp with stationary bins	1	0.3	10	0.3	2	0.1	. 3.3	0.05	2.6	0.15	4.1
horizontal tank track	10	0.3	6	0.3	10	0.1	. 10	0.05	10	0.15	7.8