	Reaction Fluxes (nu)	Enzymes (E)	Process Machineries (P)	Target Concentrations (TC) Target Fluxes (TF)	RHS
Mass conservation	S	muC_E	muC_P	$muC\_TC + C\_TF$	
Process Capacity		$muMC\_E$	$muMC\_P - \text{diag}(k\_P)$	$muMC\_TC + MC\_TF$	
Enzyme Capacity (forward)	R_to_E	$-\text{diag}(k^+\_E)$			
Enzyme Capacity (backward)	$-R\_to\_E$	$-\text{diag}(k^-\_E)$			
Density Constraints		W_E	W_P	W_TC	D

Blocks needed:
S: stoichiometry matrix.
C_.: composition (production or degradation) matrix
MC_.: machinery costs
W_.: weight matrix
k_.: capacity vector
D: density limits for every compartment
R_to_E: reaction to enzyme mapping.