## MIXED MODEL CALCULATIONS WORKSHEET

MODEL	А	В	С	D
MODEL QTY				
TIME AVAILABLE	SECONDS	TOTAL DEMAND, TO		

STEP	DESCRIPTION		CALCULATION			RESULT			
1	Determine GCD	Largest number that divides evenly into all MODEL QTYs							
2	Total Operator ( Time	otal Operator Cycle ime		Time observe each model. Record time in seconds.			В	С	D
3	Get Sequence Qtys		Divide MODEL QTY by GCD (step 1).  Repeat each letter starting with longest by the sequence qty. if D = 4, C = 2, DDDDCC		A B C D  MIXED MODEL SEQUENCE				
4	Takt Time (TT)		Time Available / Total Demand			IVIIXE	ט ואוטנ	JEL SEQ	UENCE
5	Average Weight Cycle Time (AW								
	Model	Qty		% (Qty / SUM of Model Qty)		CT step 2)		WCT (% * CT)	
	А								_
	В								
	С								
	D						_		
6	# of Operators		AWCT / TT						
7	Line Speed AWCT / # of Operators (round to the nearest w			# of Operators o the nearest whole numb	er)				
8	Determine OCT for each model		Model CT / # of Operators			A	В	С	D
9	Determine pitch		Distance between units. Measured in inches.						
10	Determine inches / second		Pitch (inches) / Line Speed (seconds)						
	Determine Zone Size					Model	ОСТ	Mode Start	
11			Loop through each model to determine			D			
			where the operator will end. The largest number is zone size – circle it.  Length of travel		D				
					С				
			OCT (step 8) * inches/second (step 10).			В			
					В				
						A			
						D		0	

LINE DESIGN SETTINGS							
TAKT TIME	LINE SPEED	# OF OPERATORS	WORK ZONE SIZE	LINE SIZE	PITCH	SEQUENCE (DDCCB)	