2nd DFM	A - Power	Transmiss	sion Device					
		e a labour rate of:						
					CAD/hour			
	For 3D printed p	oarts you may assi l	ume a material cost o		CAD/cubic inch			
	and a manufactu	l I ring labour cost c	f:	ψ10.00	OAD/Cable IIIcii			
					minutes/build plat	е		
	For wood laser of	cut parts you may	assume a material co		CAD/ab a at			
			3mm thick 6mm thick		CAD/sheet CAD/sheet			
	For acrylic laser	cut parts you may	assume a cost of	ψ3.00	O/ (D/ Sheet			
	,	, , ,	3mm thick		CAD/sheet			
			6mm thick		CAD/sheet			
	• For any laser cu	t part you may as:	sume a manufacturi		minutes/sheet			
Overall budget in	an davias		Accombly Index	*	atura alidaa			
Overall budget p	er aevice		Assembly Index	* calculated per le * also called design				
Purchased Parts	\$2.80		13.6%					
Material	\$695.86				= (Total Theoretica	al Part Count)*3/(T	otal Assm Time)	
Labour	\$200.60		Total Assertations	rt Count	12			
Total	\$899.26		Total Assm Time		265			
Purchased Parts	<u> </u> 							
Part Name	Part Cost (CAD/per)	Number	Total Part Cost	Theoretical Part Count	Assembly Time per part (s)	Total Assembly Time (s)	Assembly Labour Cost	
Large nut	\$0.12	4	\$0.48		7	28	· · · · · · · · · · · · · · · · · · ·	
Large Washer	\$0.08		\$0.32			28	·	
Rod Small Bolt	\$1.00 \$0.08		· · · · · · · · · · · · · · · · · · ·			14	· · · · · · · · · · · · · · · · · · ·	
Small Nut	\$0.08	0		0		0	*	
Small Washer	\$0.08		·				T	
Slider	\$2.00	0	\$0.00	4		0	\$0.00	
Eye bolt	\$0.75		*			0	+	
Eye bolt nut	\$0.40	0	\$0.00	0	15	0	\$0.00	
Subtotal			\$2.80	4	91	70	\$2.14	
Manufactured Pa	arts							
Part Name	Material Cost (CAD/per)	Number	Total part material cost	Manufacturing Time (s)	Theoretical Part Count	Assembly Time per part (s)	Total Assembly Time (s)	Total Labour Cost
Handle	\$53.18	1	\$53.18	. ,	1	30		\$28.42
Piston Connector	\$4.59		\$4.59			30		\$28.42
Main Box	\$329.34	1	\$329.34	900		0	_	\$27.50
Crankshaft Combo Gear (12	\$63.72 \$79.31	3	\$63.72 \$237.93	900 900		30 30		\$28.42 \$30.25
Body Cap	\$0.90		\$0.90					\$27.65
Axle Connection (\$6.21	1	\$6.21	900		10	10	\$27.81
Subtotal			\$695.86	6,300	8	135	195	\$198.46
	n - 3D Printed Par							
Part volume Part volume	58097.969 3.545355593							
Material Cost		CAD/part						
Print Time		sec/part						
Piston Connector	 Calculation - 3D F	⊥ Printed Part						
Part volume	5014.674	mm^3						
Part volume	0.306014183							
Material Cost		CAD/part						
Print Time		sec/part						
Main Barr Oals 1	tion OD Print 15	Port						
	tion - 3D Printed P							
Part volume	359789.388							
Part volume	21.95569554							
Material Cost		CAD/part						
Print Time	2580	sec/part						
Crankshaft Calcu	 ation - 3D Printed	Part						
Part volume	69607.117	miny						

Part volume	4.247686895	cubic inches			
Material Cost	\$63.72	CAD/part			
Print Time	2580	sec/part			
Combo Gear Calculation (x3) - 3D Printed Part					
Part volume	86645.664	mm^3			
Part volume	5.287442827	cubic inches			
Material Cost	\$79.31	CAD/part			
Print Time	2580	sec/part			
Axle Connection Gear Calculation - 3D Printed Part					
Part volume	6780.929	mm^3			
Part volume	0.413797676	cubic inches			
Material Cost	\$6.21	CAD/part			
Print Time	2580	sec/part			
Body Cap Calculation - Laser Cut Part					
Parts/sheet	10				
Material Cost	\$0.90	cubic inches			
Manufacturing Tir	90	sec/part			