

Overall Details

Gear_ratio_total	Eff._total
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65.143	0.47292
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Stage 1

Gear	Teeth	Module_mm	Diameter_mm	Face_Width_mm	Lewis_Form_Factor	Stress_MPa	Factor_Safety	Tan._Force_N	Rad._Force_N	Torque_Nm	RPM	Power_W	V_rel_m_s
{'Sun' }	15	1.6722	25.083	6	0.289	5.9505	10.083	17.254	6.2801	0.6492	1500	101.98	1.97
{'Planet 1'}	30	1.6722	50.167	6	0.358	3.2661	18.37	11.732	4.27	0.29427	-503.91	15.528	1.3236
{'Ring' }	57	1.75	99.75	6	0.4174	3.7268	16.1	16.333	5.9449	2.4439	0	0	0
{'Planet 2'}	14	1.75	24.5	6	0.276	8.2892	7.2383	24.022	8.7434	0.29427	-503.91	15.528	0.64642
{'Carrier' }	NaN	NaN	75.25	NaN	NaN	NaN	NaN	35.754	NaN	4.0357	164.06	69.336	0.64642

Gear_Ratio	Planet_Diamater_mm	Overall_Diameter_mm	Eff._Mesh	Eff._Ack	Num_Planets	Safety_Factor	S_y_MPa	Pressure_Angle_deg
9.1429	125.42	125.42	0.75	0.67993	3	3	60	20

Stage 2

Gear	Teeth	Module_mm	Diameter_mm	Face_Width_mm	Lewis_Form_Factor	Stress_MPa	Factor_Safety	Tan._Force_N	Rad._Force_N	Torque_Nm	RPM	Power_W	V_rel_m_s
{'Sun' }	12	2.2727	27.273	9	0.245	19.686	3.0479	98.651	35.906	4.0357	164.06	69.336	0.23428
{'Planet 1'}	21	2.2727	47.727	9	0.325	10.322	5.813	68.616	24.974	1.6374	-57.566	9.8709	0.14386
{'Ring' }	42	2.5	105	9	0.393	8.5865	6.9877	75.926	27.635	11.958	0	0	0
{'Planet 2'}	12	2.5	30	9	0.245	19.803	3.0299	109.16	39.732	1.6374	-57.566	9.8709	0.090424
{'Carrier' }	NaN	NaN	75	NaN	NaN	NaN	NaN	177.78	NaN	20	23.026	48.226	0.090424

Gear_Ratio	Planet_Diamater_mm	Overall_Diameter_mm	Eff._Mesh	Eff._Ack	Num_Planets	Safety_Factor	S_y_MPa	Pressure_Angle_deg
7.125	122.73	122.73	0.75	0.69554	3	3	60	20

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