

System	Member	Teeth	Pitch Diameter (mm)	Thickness (mm)	Module (mm)	Contact Ratio (xN_p)	Torque (Nm)	Angular speed (rpm)
Self-locking PGT ($R_t = 1/12$)	Arm	–	–				M_c^α	ω_l
	1	48	113	5	2.35	1.61 ($\times 4$)	$5.79M_c^\alpha$	$1/12\omega_l$
	4'	20	47				$2.29M_c^\alpha$	$3.2\omega_l$
	2	44	110		2.5	1.64 ($\times 4$)	$4.79M_c^\alpha$	0
	4	20	50				$2.29M_c^\alpha$	$3.2\omega_l$
Multiplier ($R_t = 5$)	Ring	120	180	5	1.5	> 3 ($\times 3$)	$4.67M_c^\alpha$	0
	Planet	45	67.5			1.695 ($\times 3$)	$1.72M_c^\alpha$	$1.66/12\omega_l$
	Sun	30	45				$1.12M_c^\alpha$	$5/12\omega_l$
Multiplier ($R_t = 4$)	Ring	90	180	5	2	> 3 ($\times 3$)	$4.39M_c^\alpha$	0
	Planet	30	60			1.654 ($\times 3$)	$1.43M_c^\alpha$	$1/6\omega_l$
	Sun	30	60				$1.40M_c^\alpha$	$1/3\omega_l$
Multiplier ($R_t = 3$)	Ring	80	160	5	2	> 3 ($\times 4$)	$3.91M_c^\alpha$	0
	Planet	20	40			1.635 ($\times 4$)	$0.96M_c^\alpha$	$1/4\omega_l$
	Sun	40	80				$1.88M_c^\alpha$	$1/4\omega_l$
Multiplier ($R_t = 2$)	Arm	–	–		–		$2.77M_c^\alpha$	$1/6\omega_l$
	2	60	99.6	5	1.66	1.719 ($\times 3$)	$5.79M_c^\alpha$	$1/12\omega_l$
	4'	30	49.8				$2.95M_c^\alpha$	$1/3\omega_l$
	1	30	75		2.5	1.654 ($\times 3$)	$2.77M_c^\alpha$	0
	4	30	75				$2.95M_c^\alpha$	$1/3\omega_l$