



Module 1

Catalog No.	Module	No. of teeth	Bore	Hub dia.	Pitch dia.	Outside dia.	Face width	Hub width	Total length	Metal core dia. <small>NOTE 1</small>
	<i>m</i>	<i>z</i>	A _{H7}	B	C	D	E	F	G	H
PU1-30	1	30	8	20	30	32	10	10	20	20
PU1-35	1	35	8	25	35	37	10	10	20	25
PU1-40	1	40	10	25	40	42	10	10	20	28
PU1-50	1	50	10	30	50	52	10	10	20	34
PU1-60	1	60	10	40	60	62	10	10	20	45
PU1-80	1	80	10	40	80	82	10	10	20	45

Module 1.5

PU1.5-30	1.5	30	10	30	45	48	15	12	27	30
PU1.5-35	1.5	35	10	33	52.5	55.5	15	12	27	36
PU1.5-40	1.5	40	10	40	60	63	15	12	27	45
PU1.5-50	1.5	50	12	40	75	78	15	12	27	45
PU1.5-60	1.5	60	12	50	90	93	15	12	27	55
PU1.5-80	1.5	80	12	60	120	123	15	12	27	85

Module 2

PU2-20	2	20	10	22	40	44	20	14	34	22
PU2-25	2	25	10	30	50	54	20	14	34	30
PU2-30	2	30	10	35	60	64	20	14	34	35
PU2-35	2	35	12	40	70	74	20	14	34	45
PU2-40	2	40	15	55	80	84	20	14	34	60
PU2-50	2	50	15	60	100	104	20	14	34	65
PU2-60	2	60	15	60	120	124	20	14	34	85

NOTE 1: Even though the holding strength at the material interface is designed to be stronger than the teeth, a secondary operation may weaken the holding strength. When the core O.D. is the same as the hub diameter, you may see some serration on the hub. There is no effect on the strength of the gear.



Plastic Spur Gears with Stainless Steel Core

Specifications

Precision grade	JIS N9 grade (JIS B1702-1: 1998) OLD JIS 5 grade (JIS B1702: 1976)	Tooth hardness	115~120HRR
Gear teeth	Standard full depth	Surface treatment	—
Pressure angle	20°	Tooth surface finish	Cut
Material	MC901 with SUS303 core	Datum reference surface for gear cutting	Bore
Heat treatment	—	Secondary Operations	Possible

Shape	Allowable torque (N-m) <small>NOTE 2</small>	Allowable torque (kgf-m)	Backlash (mm) <small>NOTE 3</small>	Weight (kgf)	Catalog No.
	Bending strength	Bending strength			
S1	1.025	(0.1045)	0.12 ~ 0.26	0.05	PU1-30
S1	1.25	(0.1275)	0.12 ~ 0.26	0.08	PU1-35
S1	1.482	(0.1511)	0.12 ~ 0.26	0.08	PU1-40
S1	1.956	(0.1995)	0.12 ~ 0.26	0.13	PU1-50
S1	2.412	(0.246)	0.14 ~ 0.28	0.23	PU1-60
S1	3.335	(0.3401)	0.14 ~ 0.28	0.25	PU1-80

S1	3.46	(0.3528)	0.14 ~ 0.3	0.15	PU1.5-30
S1	4.222	(0.4305)	0.16 ~ 0.32	0.21	PU1.5-35
S1	5.001	(0.51)	0.16 ~ 0.32	0.31	PU1.5-40
S1	6.604	(0.6734)	0.16 ~ 0.32	0.34	PU1.5-50
S1	8.141	(0.8302)	0.16 ~ 0.32	0.52	PU1.5-60
S1	11.26	(1.148)	0.18 ~ 0.36	1	PU1.5-80

S1	4.908	(0.5005)	0.18 ~ 0.34	0.1	PU2-20
S1	6.541	(0.667)	0.18 ~ 0.34	0.2	PU2-25
S1	8.201	(0.8363)	0.2 ~ 0.36	0.28	PU2-30
S1	10	(1.02)	0.2 ~ 0.36	0.41	PU2-35
S1	11.86	(1.209)	0.2 ~ 0.36	0.71	PU2-40
S1	15.65	(1.596)	0.2 ~ 0.36	0.9	PU2-50
S1	19.3	(1.968)	0.22 ~ 0.38	1.3	PU2-60

NOTE 2: The allowable torques shown in the table are calculated values using the Lewis formula.
Please see page 27 for more details.

NOTE 3: The backlash values shown in the table are the theoretical values of a pair of identical gears in mesh.