

# 歯研平歯車

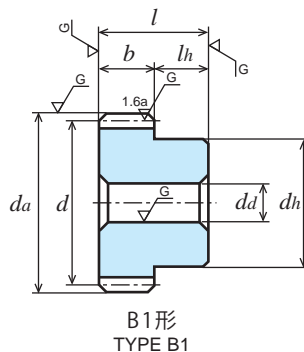
## GROUND SPUR GEARS

モジュール  
MODULE

3

圧力角 20° (並歯)  
20° PRESSURE ANGLE FULL DEPTH TOOTH

歯部高周波焼き入れ HRC49 ~ 55  
JIS B 1702-1 (ISO) 5 級  
System of accuracy: JIS B1702-1(ISO) class 5



### SCM435、440 クロムモリブデン鋼 (JIS G 4053)

Material : Chromium Molybdenum Steel (ISO 34CrMo4, 42CrMo4)

単位 : mm  
Dimensions : mm

商品記号 Catalogue Number	歯数 Number of Teeth <i>z</i>	基準円直径 Reference Diameter <i>d</i>	歯先円直径 Tip Diameter <i>da</i>	形 Type	歯幅 Face Width <i>b</i>	穴径 Bore Diameter <i>da</i> (H7)	ハブ外径 Hub Diameter <i>dh</i>	ハブ長さ Hub Projection <i>lh</i>	全長 Overall Length <i>l</i>	重量 Weight <i>W</i> (kg)
SG3S 14B - 3015	14	φ 42	φ 48	B1	30	φ15	φ34	20	50	0.4
SG3S 15B - 3015	15	φ 45	φ 51	B1	30	φ15	φ36	20	50	0.5
SG3S 16B - 3015	16	φ 48	φ 54	B1	30	φ15	φ36	20	50	0.5
SG3S 18B - 3020	18	φ 54	φ 60	B1	30	φ20	φ45	20	50	0.7
SG3S 20B - 3020	20	φ 60	φ 66	B1	30	φ20	φ45	20	50	0.8
SG3S 24B - 3020	24	φ 72	φ 78	B1	30	φ20	φ50	20	50	1.1
SG3S 25B - 3020	25	φ 75	φ 81	B1	30	φ20	φ50	20	50	1.2
SG3S 28B - 3025	28	φ 84	φ 90	B1	30	φ25	φ60	20	50	1.6
SG3S 30B - 3025	30	φ 90	φ 96	B1	30	φ25	φ60	20	50	1.7
SG3S 32B - 3025	32	φ 96	φ102	B1	30	φ25	φ60	20	50	1.9
SG3S 35B - 3030	35	φ105	φ111	B1	30	φ30	φ70	20	50	2.3
SG3S 36B - 3030	36	φ108	φ114	B1	30	φ30	φ70	20	50	2.5

Gear tooth surface completed with induction hardening, Hardness HRC49 to 55.

### 許容伝達動力表 曲げ強さ (kW)

Allowable transfer capability table (kW) Bending Strength

歯数 <i>z</i>	歯幅 <i>b</i>	回転速度 (min <sup>-1</sup> ) revolution/min						
		400	800	1,200	1,500	1,800	2,500	3,000
14	30	8.31	16.62	24.93	30.93	36.51	49.07	57.88
15	30	9.31	18.62	27.93	34.46	40.64	54.65	64.40
16	30	10.33	20.67	30.99	38.02	44.79	60.28	70.95
18	30	12.42	24.84	36.90	45.18	53.16	71.59	83.78
20	30	14.59	29.17	42.93	52.45	61.87	83.06	96.33
24	30	19.01	38.01	54.95	67.21	79.24	104.65	120.57
25	30	20.15	40.15	57.96	70.95	83.59	109.93	126.49
28	30	23.59	46.57	67.09	82.15	96.61	125.47	145.00
30	30	25.90	50.82	73.23	89.55	104.80	135.50	157.19
32	30	28.24	55.08	79.39	96.95	112.84	145.94	169.26
35	30	31.79	61.43	88.58	107.77	124.68	161.66	187.02
36	30	32.98	63.54	91.64	111.22	128.56	166.83	192.84

The above references are JGMA standard.

動力の換算式は P26 をご参照ください。Please refer to the conversion formulas of power on page P26.

### 歯面強さ (kW)

Allowable transfer capability table (kW) Surface Durability

回転速度 (min <sup>-1</sup> ) revolution/min						
400	800	1,200	1,500	1,800	2,500	3,000
1.81	3.68	5.60	7.02	8.36	11.43	13.62
2.08	4.25	6.47	8.06	9.59	13.13	15.64
2.38	4.86	7.40	9.17	10.91	14.95	17.78
3.04	6.21	9.38	11.61	13.79	18.92	22.39
3.78	7.73	11.59	14.32	17.06	23.34	27.37
5.52	11.31	16.68	20.65	24.60	33.13	38.59
6.01	12.28	18.09	22.41	26.69	35.79	41.64
7.60	15.42	22.69	28.14	33.45	44.30	51.76
8.77	17.71	26.08	32.30	38.21	50.39	59.08
10.03	20.15	29.69	36.74	43.23	57.01	66.83
12.09	24.10	35.54	43.81	51.24	67.75	79.19
12.82	25.49	37.60	46.25	54.04	71.51	83.51