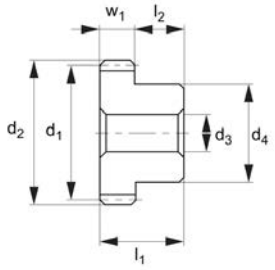

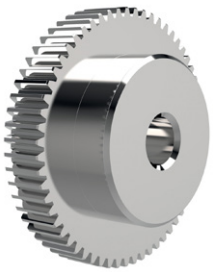

R5185

Material
Carbon steel (ISO C45).
Accuracy to JIS B 1702-1 (ISO) class 8.

Technical Notes
20° pressure angle, full depth tooth.
Amount of backlash when assembling gears = 0,05 - 0,125mm.

Tips
Module 1.25 for gears with 14-120 teeth see R5180, for gears with 8-11 teeth see R5181, for gears with 8-10 teeth see R5182, for gears with 12-17 teeth see R5183.
To calculate the max. allowable torque that the gear can produce (in Nm) take the figure (in Watts) from the transfer capability table below, and apply to formula: **Torque (in Nm) = 9550*[value in kW(from table below)/rpm]**. Apply a suitable safety factor depending on frequency of use, type of working etc.

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H7	d_4	l_1	l_2	Torque Nm max.	Weight g
R5185.125-018-10	*m* 1.25	18	22.5	25.0	10	6 tol. H8	16	25	15	9.87	48.5
R5185.125-018-15	*m* 1.25	18	22.5	25.0	15	8 tol. H8	16	30	15	14.81	58.7
R5185.125-019-10	*m* 1.25	19	23.8	26.3	10	6 tol. H8	16	25	15	10.73	52.9
R5185.125-019-15	*m* 1.25	19	23.8	26.3	15	8 tol. H8	16	30	15	16.10	64.0
R5185.125-020-10	*m* 1.25	20	25.0	27.5	10	8 tol. H8	20	25	15	11.59	65.7
R5185.125-020-15	*m* 1.25	20	25.0	27.5	15	10 tol. H8	20	30	15	17.39	76.3
R5185.125-021-10	*m* 1.25	21	26.3	28.8	10	8 tol. H8	20	25	15	12.46	69.6
R5185.125-021-15	*m* 1.25	21	26.3	28.8	15	10 tol. H8	20	30	15	18.69	82.2
R5185.125-022-10	*m* 1.25	22	27.5	30.0	10	8 tol. H8	20	25	15	13.34	73.8
R5185.125-022-15	*m* 1.25	22	27.5	30.0	15	10 tol. H8	20	30	15	20.01	88.4
R5185.125-023-10	*m* 1.25	23	28.8	31.3	10	8 tol. H8	24	25	15	14.23	94.4
R5185.125-023-15	*m* 1.25	23	28.8	31.3	15	10 tol. H8	24	30	15	21.34	111.2
R5185.125-024-10	*m* 1.25	24	30.0	32.5	10	8 tol. H8	24	25	15	15.11	98.9
R5185.125-024-15	*m* 1.25	24	30.0	32.5	15	10 tol. H8	24	30	15	22.67	118.0
R5185.125-025-10	*m* 1.25	25	31.3	33.8	10	8 tol. H8	24	25	15	16.01	103.6
R5185.125-025-15	*m* 1.25	25	31.3	33.8	15	10 tol. H8	24	30	15	24.02	125.1
R5185.125-026-10	*m* 1.25	26	32.5	35.0	10	8 tol. H8	28	25	15	11.19	127.8
R5185.125-026-15	*m* 1.25	26	32.5	35.0	15	10 tol. H8	28	30	15	25.38	151.7
R5185.125-027-10	*m* 1.25	27	33.8	36.3	10	8 tol. H8	28	25	15	17.83	132.9
R5185.125-027-15	*m* 1.25	27	33.8	36.3	15	10 tol. H8	28	30	15	26.75	159.3
R5185.125-028-10	*m* 1.25	28	35.0	37.5	10	8 tol. H8	28	25	15	18.14	138.2
R5185.125-028-15	*m* 1.25	28	35.0	37.5	15	10 tol. H8	28	30	15	27.69	167.3
R5185.125-029-10	*m* 1.25	29	36.3	38.8	10	8 tol. H8	28	25	15	19.10	143.7
R5185.125-029-15	*m* 1.25	29	36.3	38.8	15	10 tol. H8	28	30	15	28.65	175.5
R5185.125-030-10	*m* 1.25	30	37.5	40.0	10	8 tol. H8	30	25	15	20.05	160.1
R5185.125-030-15	*m* 1.25	30	37.5	40.0	15	10 tol. H8	30	30	15	30.56	194.8
R5185.125-032-08	*m* 1.25	32	40.0	42.5	8	10	30	18	10	17.19	123.3
R5185.125-032-13	*m* 1.25	32	40.0	42.5	13	12	30	25	12	28.65	172.6
R5185.125-034-08	*m* 1.25	34	42.5	45.0	8	10	30	18	10	19.10	133.5

Spur Gears - Module 1.25

carbon steel - 18-120 teeth

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H7	d_4	l_1	l_2	Torque Nm max.	Weight g
R5185.125-034-13	*m* 1.25	34	42.5	45.0	13	12	30	25	12	31.51	189.2
R5185.125-035-08	*m* 1.25	35	43.8	46.3	8	10	36	18	10	20.05	163.2
R5185.125-035-13	*m* 1.25	35	43.8	46.3	13	12	36	25	12	32.47	227.1
R5185.125-036-08	*m* 1.25	36	45.0	47.5	8	10	36	18	10	20.05	168.7
R5185.125-036-13	*m* 1.25	36	45.0	47.5	13	12	36	25	12	33.42	236.0
R5185.125-038-08	*m* 1.25	38	47.5	50.0	8	10	36	18	10	21.96	180.1
R5185.125-038-13	*m* 1.25	38	47.5	50.0	13	12	36	25	12	36.29	254.5
R5185.125-040-08	*m* 1.25	40	50.0	52.5	8	10	40	18	10	23.87	210.9
R5185.125-040-13	*m* 1.25	40	50.0	52.5	13	12	40	25	12	38.20	296.6
R5185.125-042-08	*m* 1.25	42	52.5	55.0	8	10	40	18	10	24.83	223.5
R5185.125-042-13	*m* 1.25	42	52.5	55.0	13	12	40	25	12	41.06	317.1
R5185.125-044-08	*m* 1.25	44	55.0	57.5	8	10	40	18	10	26.74	236.8
R5185.125-044-13	*m* 1.25	44	55.0	57.5	13	12	40	25	12	43.93	338.6
R5185.125-045-08	*m* 1.25	45	56.3	58.8	8	10	40	18	10	27.69	243.6
R5185.125-045-13	*m* 1.25	45	56.3	58.8	13	12	40	25	12	44.88	349.8
R5185.125-046-08	*m* 1.25	46	57.5	60.0	8	10	40	18	10	27.69	250.6
R5185.125-046-13	*m* 1.25	46	57.5	60.0	13	12	40	25	12	45.84	361.2
R5185.125-048-08	*m* 1.25	48	60.0	62.5	8	10	40	18	10	29.60	265.1
R5185.125-048-13	*m* 1.25	48	60.0	62.5	13	12	40	25	12	48.70	384.7
R5185.125-050-08	*m* 1.25	50	62.5	65.0	8	12	45	18	10	31.51	301.5
R5185.125-050-13	*m* 1.25	50	62.5	65.0	13	14	45	25	12	51.57	432.7
R5185.125-052-08	*m* 1.25	52	65.0	67.5	8	12	45	18	10	32.47	317.3
R5185.125-052-13	*m* 1.25	52	65.0	67.5	13	14	45	25	12	53.48	458.2
R5185.125-054-08	*m* 1.25	54	67.5	70.0	8	12	45	18	10	34.38	333.6
R5185.125-054-13	*m* 1.25	54	67.5	70.0	13	14	45	25	12	56.34	484.8
R5185.125-055-08	*m* 1.25	55	68.8	71.3	8	12	45	18	10	35.33	342.1
R5185.125-055-13	*m* 1.25	55	68.8	71.3	13	14	45	25	12	57.30	498.4
R5185.125-056-08	*m* 1.25	56	70.0	72.5	8	12	45	18	10	36.29	350.6
R5185.125-056-13	*m* 1.25	56	70.0	72.5	13	14	45	25	12	59.21	512.3
R5185.125-058-08	*m* 1.25	58	72.5	75.0	8	12	45	18	10	37.24	368.1
R5185.125-058-13	*m* 1.25	58	72.5	75.0	13	14	45	25	12	61.12	540.9
R5185.125-060-08	*m* 1.25	60	75.0	77.5	8	12	50	18	10	39.15	415.6
R5185.125-060-13	*m* 1.25	60	75.0	77.5	13	14	50	25	12	63.98	605.6
R5185.125-062-08	*m* 1.25	62	77.5	80.0	8	12	50	18	10	41.06	434.4
R5185.125-062-13	*m* 1.25	62	77.5	80.0	13	14	50	25	12	66.85	636.2
R5185.125-064-08	*m* 1.25	64	80.0	82.5	8	12	50	18	10	42.02	453.8
R5185.125-064-13	*m* 1.25	64	80.0	82.5	13	14	50	25	12	68.76	667.7
R5185.125-065-08	*m* 1.25	65	81.3	83.8	8	12	50	18	10	42.97	463.8
R5185.125-065-13	*m* 1.25	65	81.3	83.8	13	14	50	25	12	70.67	683.9
R5185.125-066-08	*m* 1.25	66	82.5	85.0	8	12	50	18	10	43.93	473.9
R5185.125-066-13	*m* 1.25	66	82.5	85.0	13	14	50	25	12	71.62	700.3
R5185.125-068-08	*m* 1.25	68	85.0	87.5	8	12	50	18	10	45.84	494.5
R5185.125-068-13	*m* 1.25	68	85.0	87.5	13	14	50	25	12	74.49	733.8
R5185.125-070-08	*m* 1.25	70	87.5	90.0	8	14	55	18	10	46.79	542.4
R5185.125-070-13	*m* 1.25	70	87.5	90.0	13	16	55	25	12	76.40	798.0
R5185.125-072-08	*m* 1.25	72	90.0	92.5	8	14	55	18	10	48.70	564.3
R5185.125-072-13	*m* 1.25	72	90.0	92.5	13	16	55	25	12	80.22	833.6
R5185.125-075-08	*m* 1.25	75	93.8	96.3	8	14	55	18	10	51.57	598.3
R5185.125-075-13	*m* 1.25	75	93.8	96.3	13	16	55	25	12	84.04	888.8
R5185.125-080-08	*m* 1.25	80	100.0	102.5	8	14	60	18	10	55.39	693.4
R5185.125-080-13	*m* 1.25	80	100.0	102.5	13	16	60	25	12	90.72	1028.0
R5185.125-084-08	*m* 1.25	84	105.0	107.5	8	14	60	18	10	58.25	740.0
R5185.125-084-13	*m* 1.25	84	105.0	107.5	13	16	60	25	12	95.50	1110.0
R5185.125-085-08	*m* 1.25	85	106.3	108.8	8	14	60	18	10	59.21	760.0
R5185.125-085-13	*m* 1.25	85	106.3	108.8	13	16	60	25	12	96.45	1130.0
R5185.125-090-08	*m* 1.25	90	112.5	115.0	8	16	65	18	10	63.03	860.0
R5185.125-090-13	*m* 1.25	90	112.5	115.0	13	18	65	25	12	103.14	1280.0
R5185.125-095-08	*m* 1.25	95	118.8	121.3	8	16	65	18	10	66.85	930.0
R5185.125-095-13	*m* 1.25	95	118.8	121.3	13	18	65	25	12	109.82	1390.0
R5185.125-096-08	*m* 1.25	96	120.0	112.5	8	16	65	18	10	67.80	940.0
R5185.125-096-13	*m* 1.25	96	120.0	112.5	13	18	65	25	12	110.78	1420.0
R5185.125-100-08	*m* 1.25	100	125.0	127.5	8	16	65	18	10	71.62	1000.0
R5185.125-100-13	*m* 1.25	100	125.0	127.5	13	18	65	25	12	116.51	1500.0
R5185.125-105-08	*m* 1.25	105	131.3	133.8	8	16	70	18	10	75.44	1120.0
R5185.125-105-13	*m* 1.25	105	131.3	133.8	13	18	70	25	12	123.19	1690.0
R5185.125-110-08	*m* 1.25	110	137.5	140.0	8	18	75	18	10	79.26	1240.0
R5185.125-110-13	*m* 1.25	110	137.5	140.0	13	20	75	25	12	129.88	1870.0

Order No.	Module	No. of teeth z	Pitch dia. d_1	d_2	w_1	d_3 tol. H7	d_4	l_1	l_2	Torque Nm max.	Weight g
R5185.125-115-08	*m* 1.25	115	143.8	146.3	8	18	75	18	10	84.04	1330.0
R5185.125-115-13	*m* 1.25	115	143.8	146.3	13	20	75	25	12	136.56	2010.0
R5185.125-120-08	*m* 1.25	120	150.0	152.5	8	18	80	18	10	87.86	1500.0
R5185.125-120-13	*m* 1.25	120	150.0	152.5	13	20	80	25	12	142.29	2220.0