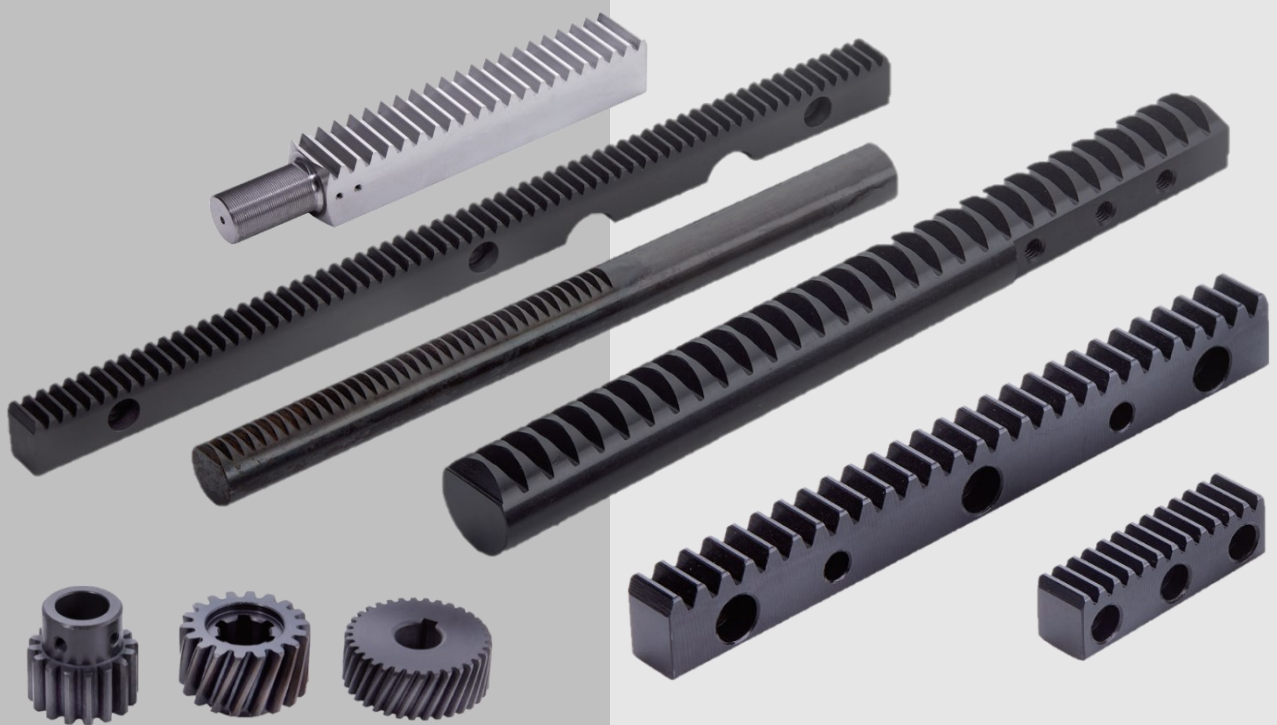
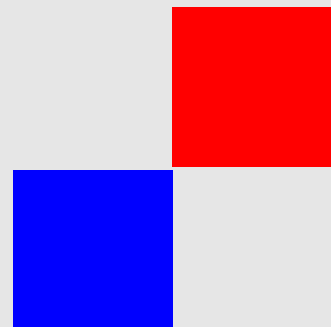




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SMD Gearbox Co., Ltd.



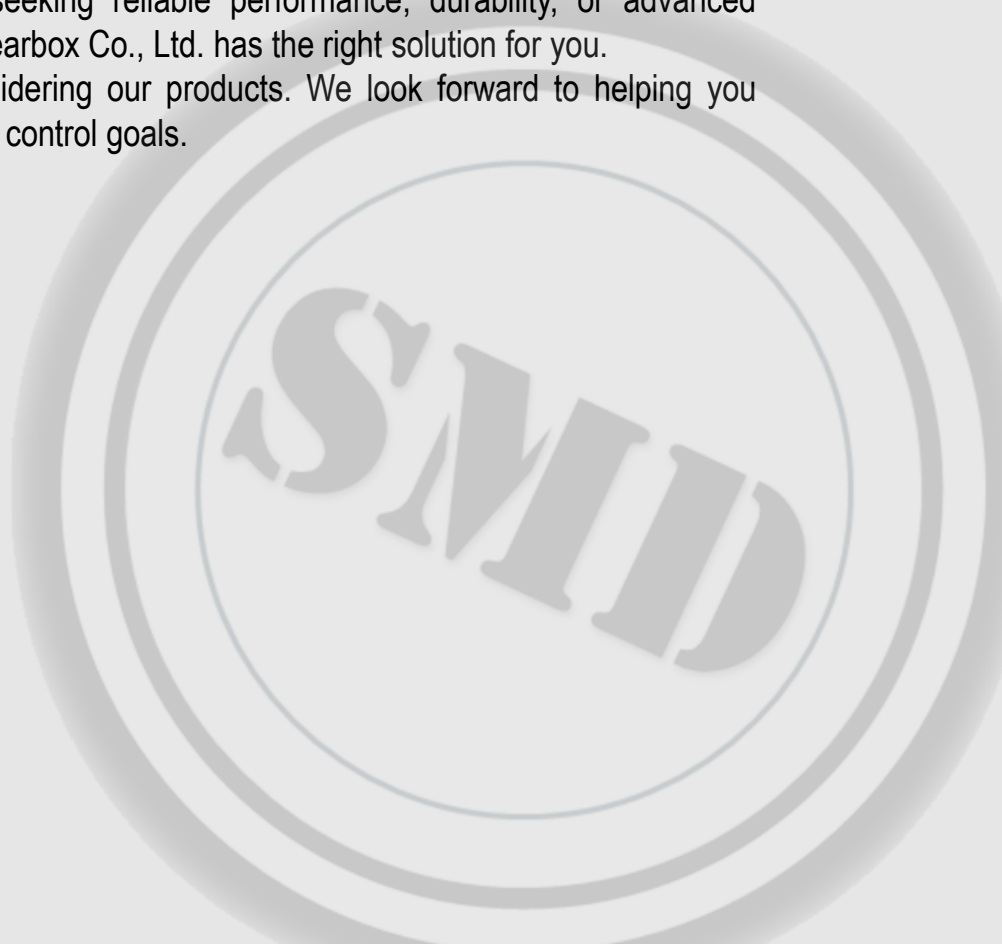
SMD Gearbox Co., Ltd.
Motion Control Solutions!

Introduction

At SMD Gearbox Co., Ltd., we are dedicated to providing top-notch motion control solutions that meet the diverse needs of our clients. Our commitment to excellence and precision has positioned us as a leader in the industry.

In this catalog, you will find detailed information about our product range, including various models and their specifications. We have highlighted the key features and benefits that set our products apart from the competition. Whether you are seeking reliable performance, durability, or advanced technology, SMD Gearbox Co., Ltd. has the right solution for you.

Thank you for considering our products. We look forward to helping you achieve your motion control goals.



SMD



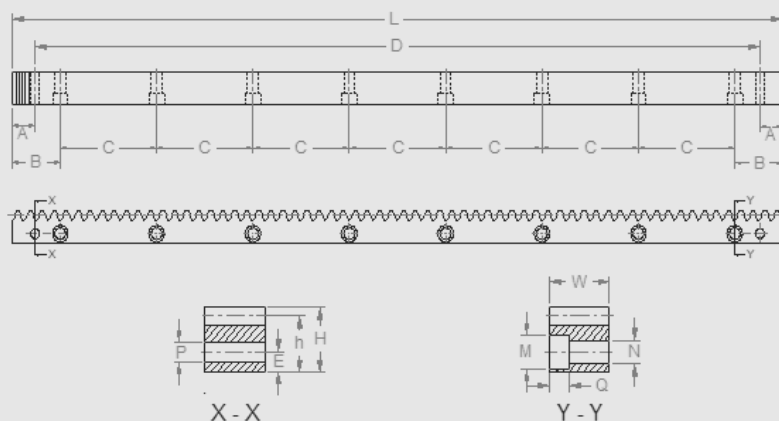
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CSGH

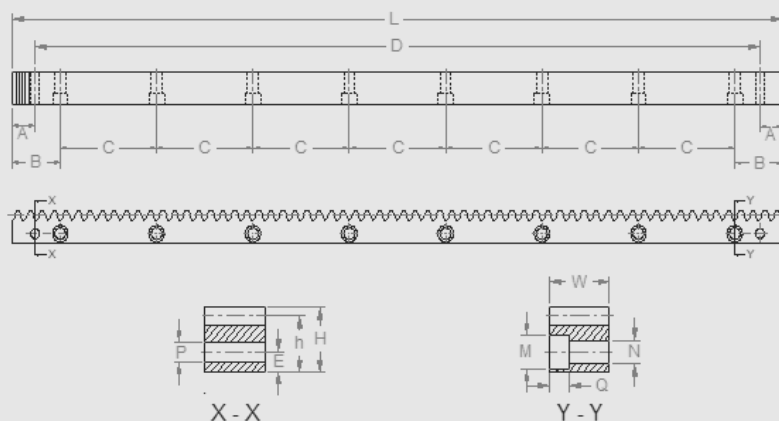


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CSGH M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
CSGH M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
CSGH M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
CSGH M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
CSGH M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
CSGH M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
CSGH M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
CSGH M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
CSGH M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
CSGH M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
CSGH M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
CSGH M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
CSGH M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
CSGH M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	S45C	Heat treatment	Tooth surface induction
Type	Straight	Quality grade	< JIS 2 > < DIN 6 >
Treatment of tooth	Grinding	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



CSMH

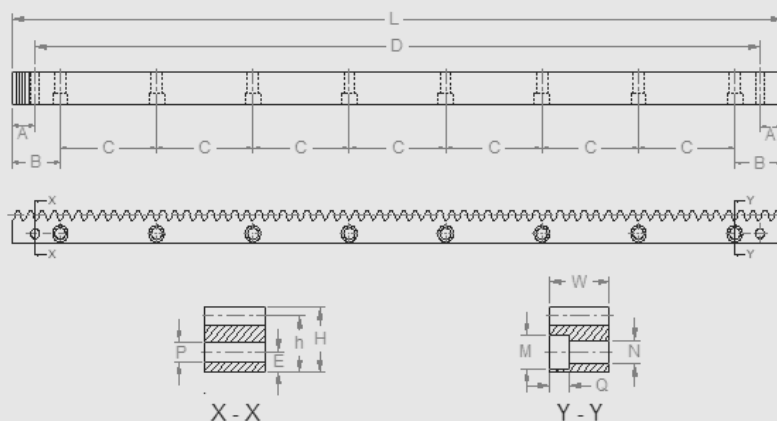


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CSMH M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
CSMH M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
CSMH M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
CSMH M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
CSMH M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
CSMH M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
CSMH M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
CSMH M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
CSMH M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
CSMH M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
CSMH M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
CSMH M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
CSMH M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
CSMH M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	S45C	Heat treatment	Tooth surface induction
Type	Straight	Quality grade	< JIS 6 > < DIN 10 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 50°~55°



CSH

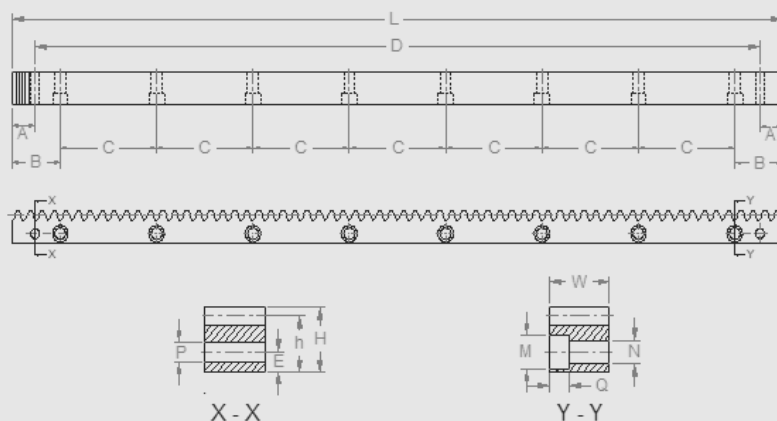


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CSH M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
CSH M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
CSH M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
CSH M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
CSH M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
CSH M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
CSH M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
CSH M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
CSH M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
CSH M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
CSH M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
CSH M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
CSH M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
CSH M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	S45C	Heat treatment	-
Type	Straight	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	Less than HRC 15°



CSMHG

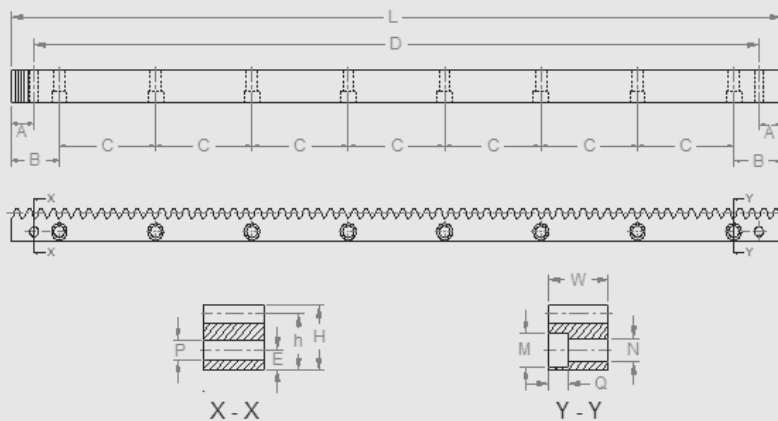


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CSMHG M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
CSMHG M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
CSMHG M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
CSMHG M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
CSMHG M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
CSMHG M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
CSMHG M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
CSMHG M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
CSMHG M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
CSMHG M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
CSMHG M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
CSMHG M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
CSMHG M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
CSMHG M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	S45C	Heat treatment	Tooth surface induction
Type	Straight	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



CSMQ

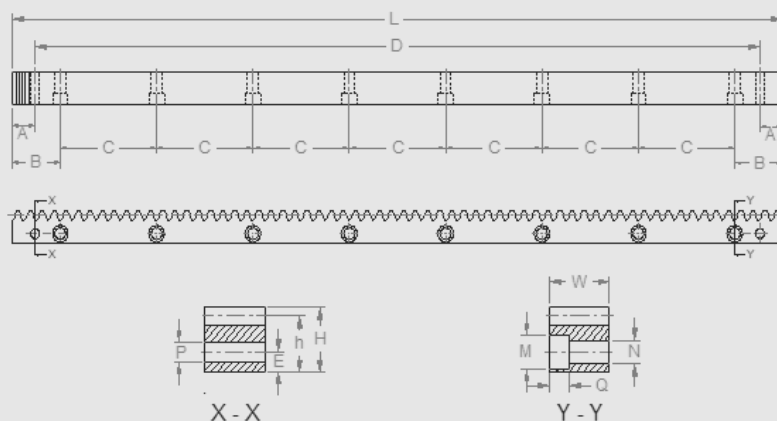


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CSMQ M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
CSMQ M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
CSMQ M02005	M2.0	502.64	80	25	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
CSMQ M02010	M2.0	1005.28	160	25	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
CSMQ M03005	M3.0	508.95	54	30	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
CSMQ M03010	M3.0	1017.90	108	30	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
CSMQ M04005	M4.0	502.64	40	40	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
CSMQ M04010	M4.0	1005.28	80	40	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
CSMQ M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
CSMQ M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
CSMQ M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
CSMQ M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
CSMQ M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
CSMQ M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	S45C	Heat treatment	Quenched
Type	Straight	Quality grade	< JIS 4 > < DIN 8 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 18°~22°



CSMQG

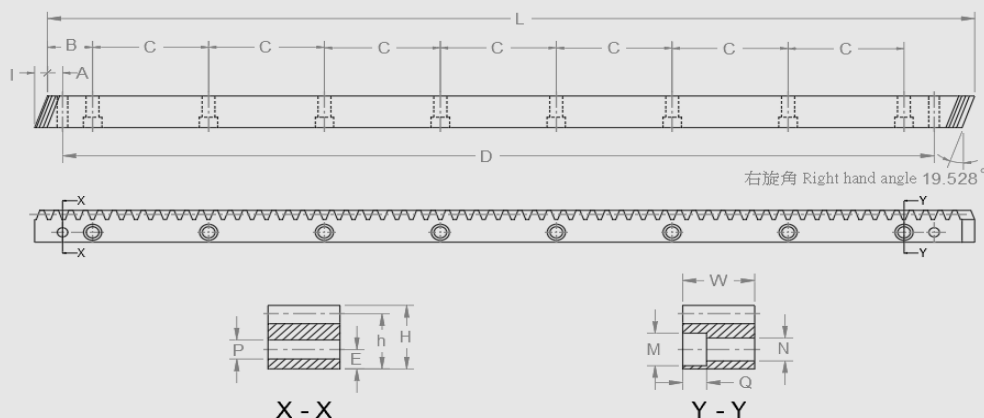


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CSMQG M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
CSMQG M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
CSMQG M02005	M2.0	502.64	80	25	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
CSMQG M02010	M2.0	1005.28	160	25	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
CSMQG M03005	M3.0	508.95	54	30	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
CSMQG M03010	M3.0	1017.90	108	30	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
CSMQG M04005	M4.0	502.64	40	40	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
CSMQG M04010	M4.0	1005.28	80	40	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
CSMQG M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
CSMQG M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
CSMQG M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
CSMQG M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
CSMQG M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
CSMQG M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	S45C	Heat treatment	Quenched
Type	Straight	Quality grade	< JIS 3 > < DIN 7 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 18°~22°



CHGH

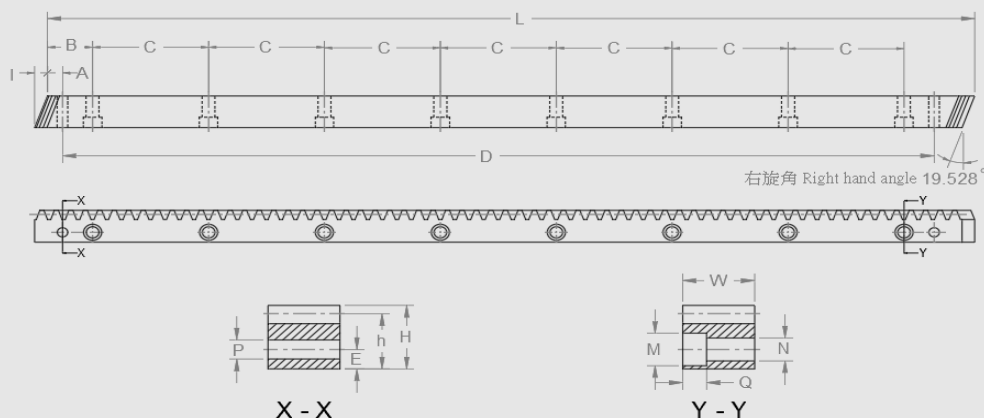


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CHGH M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
CHGH M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
CHGH M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
CHGH M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
CHGH M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
CHGH M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
CHGH M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
CHGH M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
CHGH M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
CHGH M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
CHGH M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
CHGH M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
CHGH M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
CHGH M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	S45C	Heat treatment	Tooth surface induction
Type	Helical	Quality grade	< JIS 2 > < DIN 6 >
Treatment of tooth	Grinding	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



CHMH

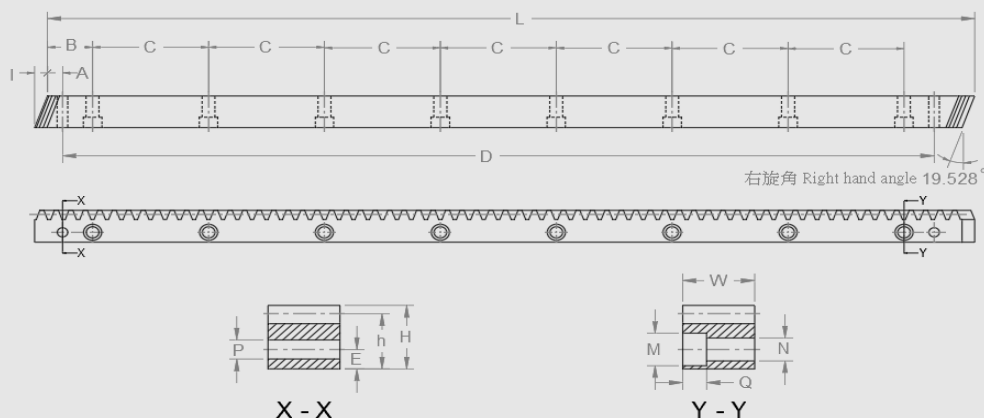


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CHMH M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
CHMH M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
CHMH M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
CHMH M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
CHMH M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
CHMH M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
CHMH M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
CHMH M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
CHMH M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
CHMH M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
CHMH M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
CHMH M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
CHMH M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
CHMH M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	S45C	Heat treatment	Tooth surface induction
Type	Helical	Quality grade	< JIS 6 > < DIN 10 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 50°~55°



CHM

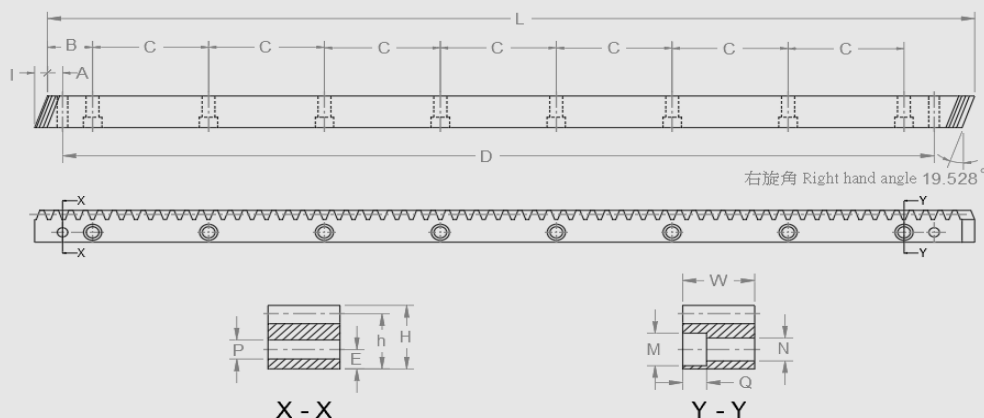


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CHM M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
CHM M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
CHM M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
CHM M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
CHM M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
CHM M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
CHM M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
CHM M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
CHM M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
CHM M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
CHM M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
CHM M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
CHM M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
CHM M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	S45C	Heat treatment	-
Type	Helical	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	Less than HRC 15°



CHMHG

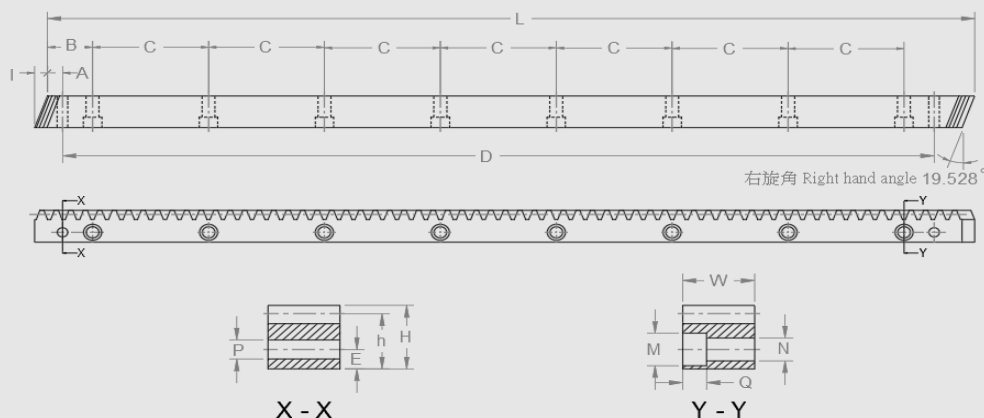


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CHMHG M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
CHMHG M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
CHMHG M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
CHMHG M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
CHMHG M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
CHMHG M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
CHMHG M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
CHMHG M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
CHMHG M05005	M5.0	500.	17.4	30	49	39	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
CHMHG M05010	M5.0	1000.	17.4	60	49	39	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
CHMHG M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
CHMHG M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
CHMHG M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
CHMHG M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	S45C	Heat treatment	Tooth surface induction
Type	Helical	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



CHMQ

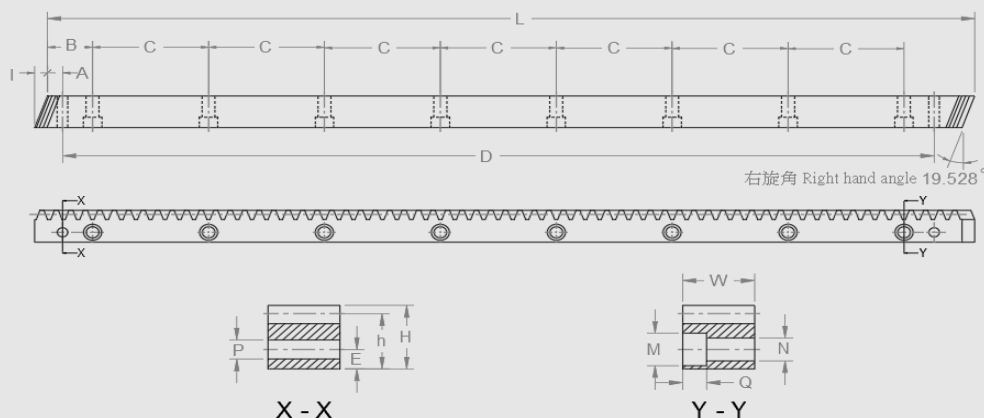


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CHMQ M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
CHMQ M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
CHMQ M02005	M2.0	500.	8.5	75	25	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
CHMQ M02010	M2.0	1000.	8.5	150	25	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
CHMQ M03005	M3.0	500.	10.3	50	30	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
CHMQ M03010	M3.0	1000.	10.3	100	30	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
CHMQ M04005	M4.0	506.67	13.8	38	40	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
CHMQ M04010	M4.0	1000.	13.8	75	40	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
CHMQ M05005	M5.0	500.	17.4	30	49	39	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
CHMQ M05010	M5.0	1000.	17.4	60	49	39	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
CHMQ M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
CHMQ M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
CHMQ M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
CHMQ M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	S45C	Heat treatment	Quenched
Type	Helical	Quality grade	< JIS 4 > < DIN 8 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 18°~22°



CHMQG

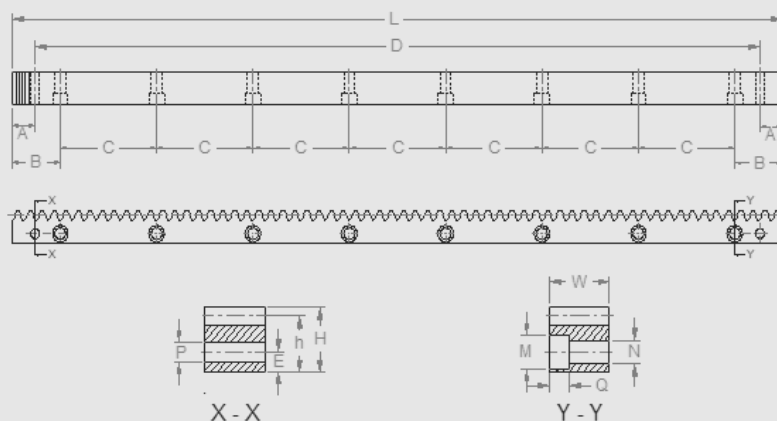


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
CHMQG M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
CHMQG M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
CHMQG M02005	M2.0	500.	8.5	75	25	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
CHMQG M02010	M2.0	1000.	8.5	150	25	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
CHMQG M03005	M3.0	500.	10.3	50	30	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
CHMQG M03010	M3.0	1000.	10.3	100	30	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
CHMQG M04005	M4.0	506.67	13.8	38	40	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
CHMQG M04010	M4.0	1000.	13.8	75	40	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
CHMQG M05005	M5.0	500.	17.4	30	49	39	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
CHMQG M05010	M5.0	1000.	17.4	60	49	39	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
CHMQG M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
CHMQG M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
CHMQG M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
CHMQG M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	S45C	Heat treatment	Quenched
Type	Helical	Quality grade	< JIS 3 > < DIN 7 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 18°~22°



MSGH

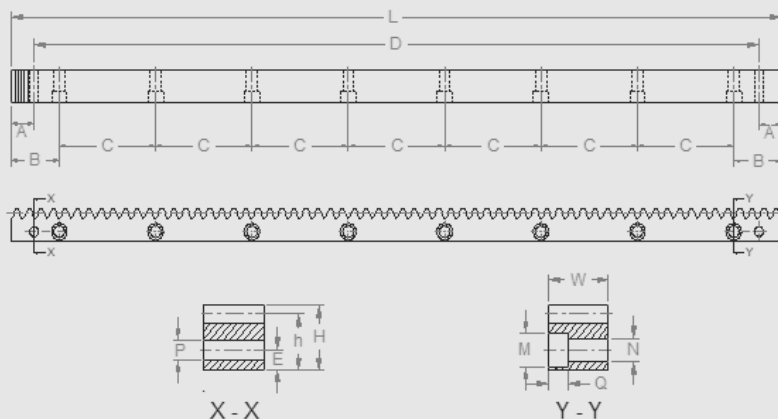


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MSGH M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
MSGH M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
MSGH M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
MSGH M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
MSGH M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
MSGH M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
MSGH M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
MSGH M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
MSGH M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
MSGH M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
MSGH M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
MSGH M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
MSGH M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
MSGH M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	SCM440	Heat treatment	Tooth surface induction
Type	Straight	Quality grade	< JIS 2 > < DIN 6 >
Treatment of tooth	Grinding	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



MSMH

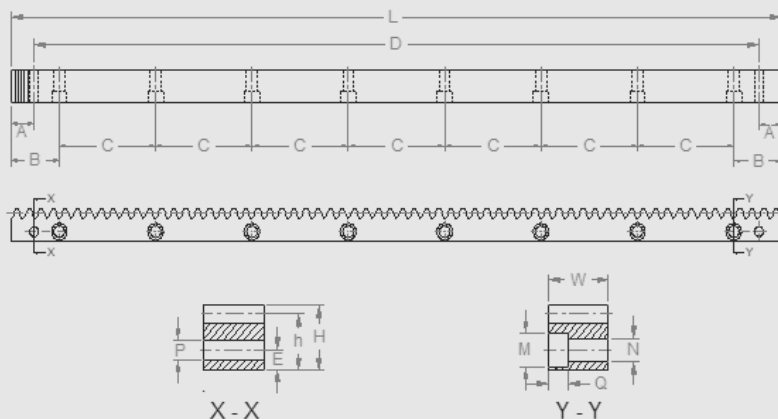


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MSMH M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
MSMH M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
MSMH M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
MSMH M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
MSMH M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
MSMH M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
MSMH M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
MSMH M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
MSMH M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
MSMH M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
MSMH M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
MSMH M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
MSMH M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
MSMH M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	SCM440	Heat treatment	Tooth surface induction
Type	Straight	Quality grade	< JIS 6 > < DIN 10 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 50°~55°



MSH

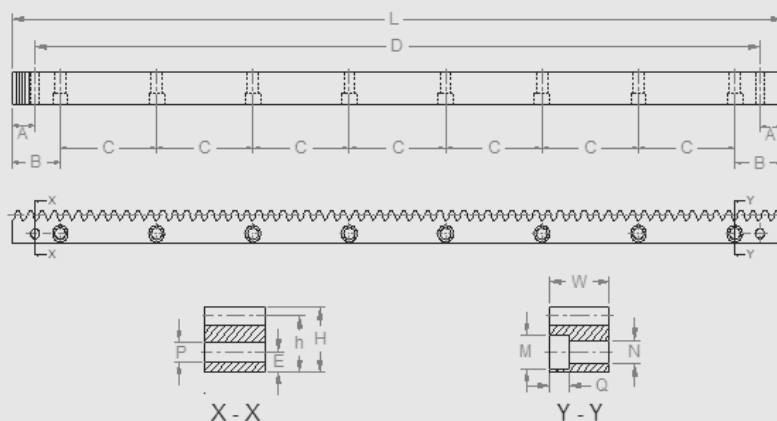


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MSH M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
MSH M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
MSH M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
MSH M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
MSH M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
MSH M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
MSH M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
MSH M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
MSH M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
MSH M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
MSH M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
MSH M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
MSH M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
MSH M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	SCM440	Heat treatment	-
Type	Straight	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	Less than HRC 15°



MSMHG

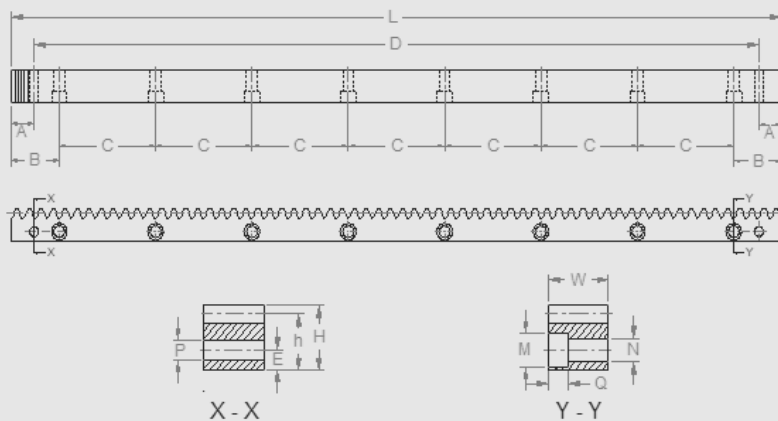


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MSMHG M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
MSMHG M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
MSMHG M02005	M2.0	502.64	80	24	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
MSMHG M02010	M2.0	1005.28	160	24	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
MSMHG M03005	M3.0	508.95	54	29	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
MSMHG M03010	M3.0	1017.90	108	29	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
MSMHG M04005	M4.0	502.64	40	39	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
MSMHG M04010	M4.0	1005.28	80	39	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
MSMHG M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
MSMHG M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
MSMHG M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
MSMHG M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
MSMHG M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
MSMHG M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	SCM440	Heat treatment	Tooth surface induction
Type	Straight	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



MSMQ

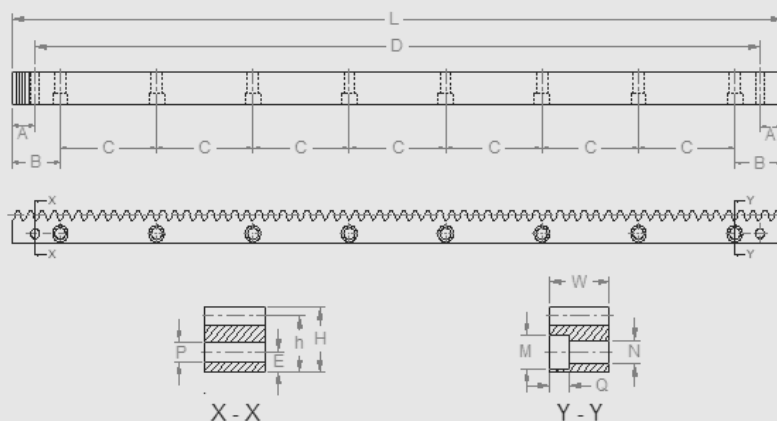


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MSMQ M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
MSMQ M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
MSMQ M02005	M2.0	502.64	80	25	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
MSMQ M02010	M2.0	1005.28	160	25	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
MSMQ M03005	M3.0	508.95	54	30	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
MSMQ M03010	M3.0	1017.90	108	30	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
MSMQ M04005	M4.0	502.64	40	40	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
MSMQ M04010	M4.0	1005.28	80	40	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
MSMQ M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
MSMQ M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
MSMQ M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
MSMQ M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
MSMQ M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
MSMQ M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	SCM440	Heat treatment	Quenched
Type	Straight	Quality grade	< JIS 4 > < DIN 8 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 18°~22°



MSMQG

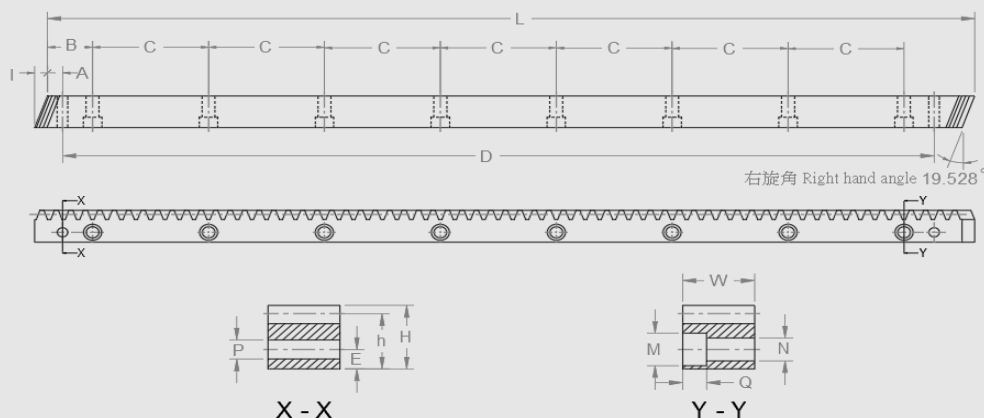


Code	Modul	L	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MSMQG M01505	M1.5	499.51	106	17	17	29	62.44	124.88	4	5.7	441.5	9.5	6	7	8	15.5
MSMQG M01510	M1.5	999.03	212	17	17	29	62.44	124.88	8	5.7	941.0	9.5	6	7	8	15.5
MSMQG M02005	M2.0	502.64	80	25	24	31.3	62.83	125.66	4	5.7	440.1	11	7	7	8	22
MSMQG M02010	M2.0	1005.28	160	25	24	31.3	62.83	125.66	8	5.7	942.7	11	7	7	8	22
MSMQG M03005	M3.0	508.95	54	30	29	34.4	63.62	127.23	4	7.7	440.1	15	10	9	9	26
MSMQG M03010	M3.0	1017.90	108	30	29	34.4	63.62	127.23	8	7.7	949.1	15	10	9	9	26
MSMQG M04005	M4.0	502.64	40	40	39	37.5	62.83	125.66	4	7.7	427.7	15	10	9	12	35
MSMQG M04010	M4.0	1005.28	80	40	39	37.5	62.83	125.66	8	7.7	930.3	15	10	9	12	35
MSMQG M05005	M5.0	502.65	32	49	39	30.1	62.83	125.66	4	11.7	442.4	20	14	13	12	34
MSMQG M05010	M5.0	1005.31	64	49	39	30.1	62.83	125.66	8	11.7	945.0	20	14	13	12	34
MSMQG M06005	M6.0	508.95	27	59	49	31.4	63.62	127.23	4	15.7	446.1	26	18	17	16	43
MSMQG M06010	M6.0	1017.90	54	59	49	31.4	63.62	127.23	8	15.7	955.0	26	18	17	16	43
MSMQG M08005	M8.0	502.64	20	79	79	26.6	62.83	125.66	4	19.7	449.5	33	22	21	25	71
MSMQG M08010	M8.0	1005.28	40	79	79	26.6	62.83	125.66	8	19.7	952.0	33	22	21	25	71

Material	SCM440	Heat treatment	Quenched
Type	Straight	Quality grade	< JIS 3 > < DIN 7 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 18°~22°



MHGH

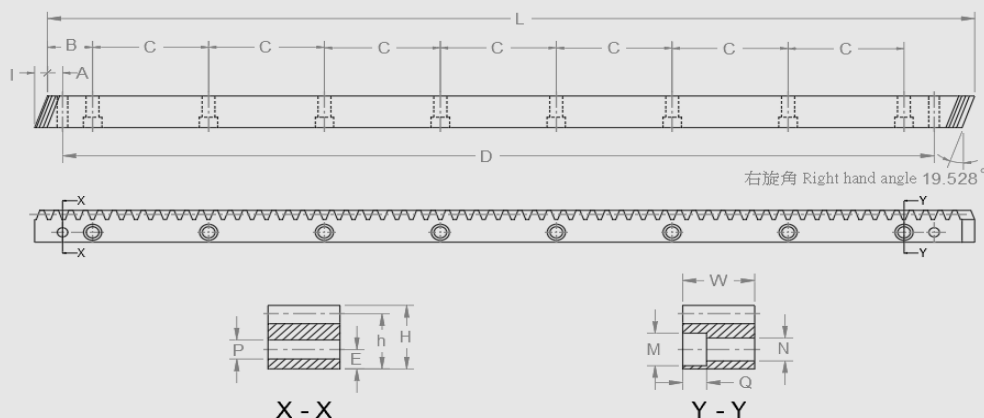


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MHGH M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
MHGH M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
MHGH M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
MHGH M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
MHGH M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
MHGH M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
MHGH M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
MHGH M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
MHGH M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
MHGH M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
MHGH M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
MHGH M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
MHGH M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
MHGH M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	SCM440	Heat treatment	Tooth surface induction
Type	Helical	Quality grade	< JIS 2 > < DIN 6 >
Treatment of tooth	Grinding	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



MHMH

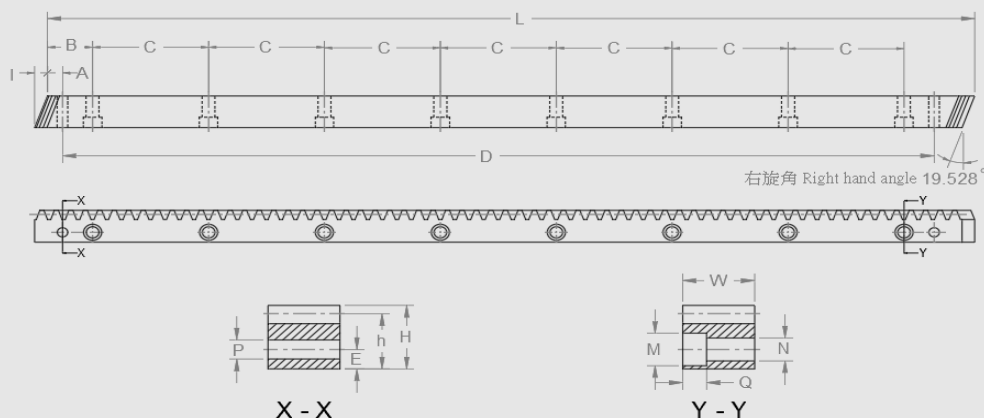


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MHMH M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
MHMH M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
MHMH M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
MHMH M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
MHMH M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
MHMH M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
MHMH M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
MHMH M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
MHMH M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
MHMH M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
MHMH M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
MHMH M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
MHMH M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
MHMH M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	SCM440	Heat treatment	Tooth surface induction
Type	Helical	Quality grade	< JIS 6 > < DIN 10 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 50°~55°



MHM

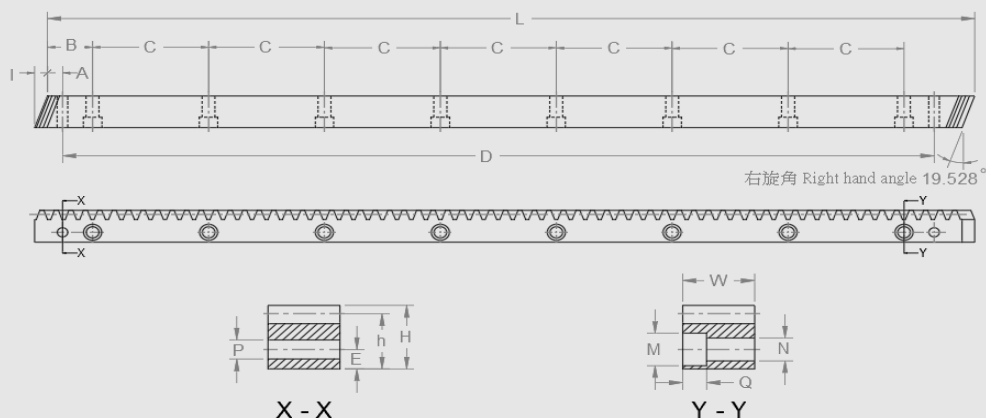


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MHM M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
MHM M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
MHM M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
MHM M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
MHM M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
MHM M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
MHM M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
MHM M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
MHM M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
MHM M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
MHM M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
MHM M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
MHM M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
MHM M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	SCM440	Heat treatment	-
Type	Helical	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	Less than HRC 15°



MHMHG

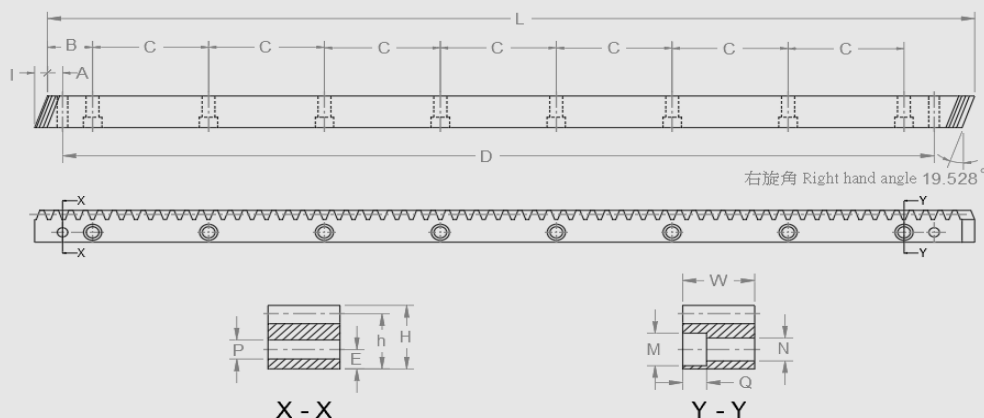


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MHMHG M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
MHMHG M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
MHMHG M02005	M2.0	500.	8.5	75	24	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
MHMHG M02010	M2.0	1000.	8.5	150	24	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
MHMHG M03005	M3.0	500.	10.3	50	29	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
MHMHG M03010	M3.0	1000.	10.3	100	29	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
MHMHG M04005	M4.0	506.67	13.8	38	39	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
MHMHG M04010	M4.0	1000.	13.8	75	39	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
MHMHG M05005	M5.0	500.	17.4	30	49	49	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
MHMHG M05010	M5.0	1000.	17.4	60	49	49	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
MHMHG M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
MHMHG M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
MHMHG M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
MHMHG M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	SCM440	Heat treatment	Tooth surface induction
Type	Helical	Quality grade	< JIS 5 > < DIN 9 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 50°~55°



MHMQ

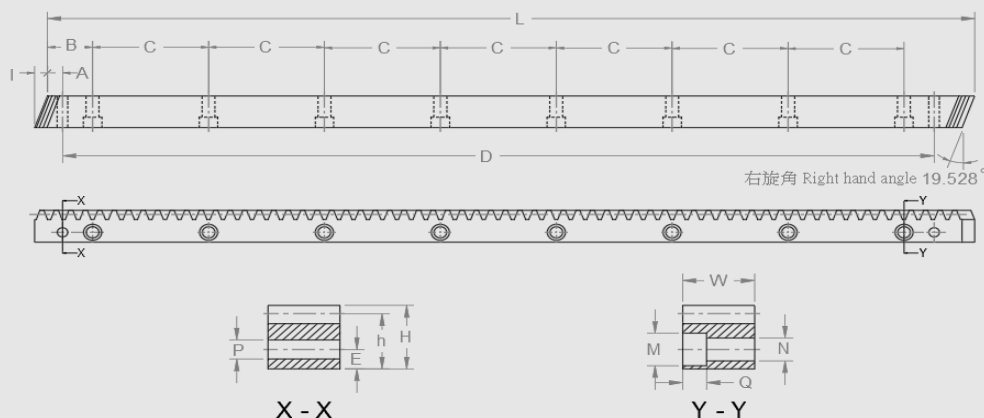


Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MHMQ M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
MHMQ M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
MHMQ M02005	M2.0	500.	8.5	75	25	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
MHMQ M02010	M2.0	1000.	8.5	150	25	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
MHMQ M03005	M3.0	500.	10.3	50	30	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
MHMQ M03010	M3.0	1000.	10.3	100	30	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
MHMQ M04005	M4.0	506.67	13.8	38	40	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
MHMQ M04010	M4.0	1000.	13.8	75	40	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
MHMQ M05005	M5.0	500.	17.4	30	49	39	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
MHMQ M05010	M5.0	1000.	17.4	60	49	39	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
MHMQ M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
MHMQ M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
MHMQ M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
MHMQ M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	SCM440	Heat treatment	Quenched
Type	Helical	Quality grade	< JIS 4 > < DIN 8 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Finish cutting	Tooth hardness	HRC 18°~22°



MHMQG



Code	Modul	L	I	Teeth	W	H	A	B	C	Holes	P	D	M	N	Q	E	h
MHMQG M01505	M1.5	500.	6	100	17	17	31.7	62.5	125	4	5.7	436.6	9.5	6	7	8	15.5
MHMQG M01510	M1.5	1000.	6	200	17	17	31.7	62.5	125	8	5.7	936.6	9.5	6	7	8	15.5
MHMQG M02005	M2.0	500.	8.5	75	25	24	31.7	62.5	125	4	5.7	436.6	11	7	7	8	22
MHMQG M02010	M2.0	1000.	8.5	150	25	24	31.7	62.5	125	8	5.7	936.6	11	7	7	8	22
MHMQG M03005	M3.0	500.	10.3	50	30	29	35.0	62.5	125	4	7.7	430.0	15	10	9	9	26
MHMQG M03010	M3.0	1000.	10.3	100	30	29	35.0	62.5	125	8	7.7	930.0	15	10	9	9	26
MHMQG M04005	M4.0	506.67	13.8	38	40	39	33.3	62.5	125	4	7.7	433.0	15	10	9	12	35
MHMQG M04010	M4.0	1000.	13.8	75	40	39	33.3	62.5	125	8	7.7	933.4	15	10	9	12	35
MHMQG M05005	M5.0	500.	17.4	30	49	39	37.5	62.5	125	4	11.7	425.0	20	14	13	12	34
MHMQG M05010	M5.0	1000.	17.4	60	49	39	37.5	62.5	125	8	11.7	925.0	20	14	13	12	34
MHMQG M06005	M6.0	500.	20.9	25	59	49	37.5	62.5	125	4	15.7	425.0	26	18	17	16	43
MHMQG M06010	M6.0	1000.	20.9	50	59	49	37.5	62.5	125	8	15.7	925.0	26	18	17	16	43
MHMQG M08005	M8.0	480.	28.0	18	79	79	120.	60.0	120	4	19.7	240.0	33	22	21	25	71
MHMQG M08010	M8.0	960.	28.0	36	79	79	120.	60.0	120	8	19.7	720.0	33	22	21	25	71

Material	SCM440	Heat treatment	Quenched
Type	Helical	Quality grade	< JIS 3 > < DIN 7 >
Treatment of tooth	Finish cutting	Pressure angle	20°
Surface treatment	Grinding	Tooth hardness	HRC 18°~22°



Steel Hardness Conversion Chart

Brinell HB	Rockwell HRC	Rockwell HRB	Vickers HV	Brinell HB	Rockwell HRC	Rockwell HRB	Vickers HV
627	60			199	15	93	199
613	59			191	14	92	197
601	58	746		190	13	92	186
592	57	727		186	12	91	184
572	56	694		183	11	90	183
552	55	649		180	10	89	180
534	54	120	589	175	9	88	178
513	53	119	567	170	7	87	175
504	52	118	549	167	6	86	172
486	51	118	531	166	5	86	168
469	50	117	505	163	4	85	162
468	49	117	497	160	3	84	160
456	48	116	490	156	2	83	158
445	47	115	474	154	1	82	152
430	46	115	458	SINCE ALL MATERIALS AND TESTING INSTRUMENTS ARE DIFFERENT, ALL VALUES ARE FOR REFERENCE ONLY.			
419	45	114	448				
415	44	114	438				
402	43	114	424				
388	42	113	406				
375	41	112	393				
373	40	111	388				
360	39	111	376				
348	38	110	361				
341	37	109	351				
331	36	109	342				
322	35	108	332				
314	34	108	320				
308	33	107	311				
300	32	107	303				
290	31	106	292				
277	30	105	285				
271	29	104	277				
264	28	103	271				
262	27	103	262				
255	26	102	258				
250	25	101	255				
245	24	100	252				
240	23	100	247				
233	22	99	241				
229	21	98	235				
223	20	97	227				
216	19	96	222				
212	18	95	218				
208	17	95	210				



Conversion Table Gear Pitch and Module

Module	Diametral Pitch	Circular Pitch (CP)		Module	Diametral Pitch	Circular Pitch (CP)		Module	Diametral Pitch	Circular Pitch (CP)	
M	DP	in	mm	M	DP	in	mm	M	DP	in	mm
25.4000	1	3.1416	79.7966	8.4667	3	1.0472	26.5989	2.3873	10.6395	0.2953	7.4999
25.2658	1.0053	3.1250	79.3750	8.2761	3.0691	1.0236	26.0001	2.3091	11	0.2856	7.2542
25	1.0160	3.0921	78.5400	8.0851	3.1416	1	25.4001	2.2500	11.2889	0.2783	7.0686
24.2552	1.0472	3	76.2000	8	3.1750	0.9895	25.1328	2.2282	11.3995	0.2756	7.0001
24	1.0583	2.9684	75.3984	7.9577	3.1919	0.9843	24.9999	2.1167	12	0.2618	6.6498
23.8732	1.0640	2.9528	75	7.8154	3.2500	0.9666	24.5528	2.0690	12.2764	0.2559	6.4999
23.2446	1.0927	2.8750	73.0252	7.6394	3.3249	0.9449	23.9999	2.0213	12.5664	0.2500	6.3501
22.2817	1.1399	2.7559	70	7.5798	3.3510	0.9375	23.8126	2	12.7000	0.2474	6.2832
22.2339	1.1424	2.7500	69.8500	7.2571	3.5000	0.8976	22.7989	1.9538	13	0.2417	6.1380
22	1.1545	2.7211	69.1152	7.0744	3.5904	0.8750	22.2249	1.9099	13.2994	0.2362	6.0001
21.2233	1.1968	2.6250	66.6751	7.0028	3.6271	0.8661	21.9999	1.8143	14	0.2244	5.6998
20.6901	1.2276	2.5591	65.0000	7	3.6286	0.8658	21.9912	1.7507	14.5084	0.2165	5.4999
20.3200	1.2500	2.5133	63.8373	6.7733	3.7500	0.8378	21.2789	1.7500	14.5143	0.2164	5.4978
20.2127	1.2566	2.5000	63.5000	6.5691	3.8666	0.8125	20.6374	1.6933	15	0.2094	5.3196
20	1.2700	2.4737	62.8320	6.3662	3.9898	0.7874	20	1.5915	15.9593	0.1969	4.9998
19.2020	1.3228	2.3750	60.3250	6.3500	4	0.7854	19.9491	1.5875	16	0.1963	4.9872
19.0986	1.3299	2.3622	60	6.0638	4.1888	0.7500	19.0500	1.5160	16.7552	0.1875	4.7626
18.1914	1.3963	2.2500	57.1501	6.0479	4.1998	0.7480	19	1.5	16.9333	0.1855	4.7124
18	1.4111	2.2263	56.5488	6	4.2333	0.7421	18.8496	1.4324	17.7325	0.1772	4.5000
17.5070	1.4508	2.1654	55	5.7296	4.4331	0.7087	18.0001	1.4111	18	0.1745	4.4331
17.1808	1.4784	2.1250	53.9752	5.6444	4.5000	0.6981	17.7324	1.2732	19.9491	0.1575	3.9998
16.9333	1.5	2.0944	53.1976	5.5585	4.5696	0.6875	17.4625	1.2700	20	0.1571	3.9898
16.1701	1.5708	2	50.8000	5.5000	4.6182	0.6803	17.2788	1.25	20.3200	0.1546	3.9270
16	1.5875	1.9790	50.2656	5.4113	4.6939	0.6693	17.0001	1.1141	22.7990	0.1378	3.5001
15.9155	1.5959	1.9685	50	5.0930	4.9873	0.6299	16.0001	1.0583	24	0.1309	3.3247
15.1595	1.6755	1.8750	47.6250	5.0800	5	0.6283	15.9593	1.0160	25	0.1257	3.1918
15	1.6933	1.8553	47.1240	5.0532	5.0265	0.6250	15.8751	1.0106	25.1327	0.1250	3.1749
14.5143	1.7500	1.7952	45.5981	5	5.0800	0.6184	15.7080	1	25.4000	0.1237	3.1416
14.3239	1.7733	1.7717	45	4.7746	5.3198	0.5906	14.9998	0.9549	26.5988	0.1181	2.9999
14.1489	1.7952	1.7500	44.4501	4.6182	5.5000	0.5712	14.5079	0.9071	28	0.1122	2.8497
14	1.8143	1.7316	43.9824	4.5479	5.5851	0.5625	14.2876	0.8467	30	0.1047	2.6599
13.1382	1.9333	1.6250	41.2749	4.5000	5.6444	0.5566	14.1372	0.8085	31.4159	0.1000	2.5399
13	1.9538	1.6079	40.8408	4.4563	5.6997	0.5512	13.9999	0.8	31.7500	0.0989	2.5132
12.7324	1.9949	1.5748	40.0001	4.2333	6	0.5236	13.2993	0.7958	31.9186	0.0984	2.5000
12.7000	2	1.5708	39.8983	4.1380	6.1382	0.5118	12.9999	0.7938	32	0.0982	2.4938
12.1276	2.0944	1.5000	38.1000	4.0425	6.2832	0.5000	12.6999	0.7500	33.8667	0.0928	2.3562
12.0958	2.0999	1.4961	38.0001	4	6.3500	0.4947	12.5664	0.7056	36	0.0873	2.2167
12	2.1167	1.4842	37.6992	3.9077	6.5000	0.4833	12.2764	0.7	36.2857	0.0866	2.1991
11.6223	2.1855	1.4375	36.5126	3.8197	6.6497	0.4724	11.9999	0.6684	38	0.0827	2.0998
11.4592	2.2166	1.4173	36.0002	3.6286	7	0.4488	11.3996	0.6366	39.8982	0.0787	1.9999
11.2889	2.2500	1.3963	35.4652	3.5372	7.1808	0.4375	11.1124	0.6350	40	0.0785	1.9949
11.1170	2.2848	1.3750	34.9251	3.5014	7.2542	0.4331	10.9999	0.6	42.3333	0.0742	1.8849
11	2.3091	1.3605	34.5576	3.5000	7.2571	0.4329	10.9956	0.5292	48	0.0654	1.6625
10.8225	2.3470	1.3386	33.9999	3.1831	7.9796	0.3937	10	0.5080	50	0.0628	1.5959
10.6117	2.3936	1.3125	33.3377	3.1750	8	0.3927	9.9745	0.5053	50.2655	0.0625	1.5874
10.1859	2.4936	1.2598	32	3.0319	8.3776	0.3750	9.5250	0.5	50.8000	0.0618	1.5708
10.1600	2.5000	1.2566	31.9186	3.0239	8.3996	0.3740	9.4998	0.4775	53.1976	0.0591	1.5001
10.1063	2.5133	1.2500	31.7499	3	8.4667	0.3711	9.4248	0.4	63.5000	0.0495	1.2566
10	2.5400	1.2368	31.4160	2.8648	8.8663	0.3543	9	0.3969	64	0.0491	1.2469
9.6010	2.6456	1.1875	30.1625	2.8222	9	0.3491	8.8662	0.3528	72	0.0436	1.1083
9.5493	2.6599	1.1811	30	2.7500	9.2364	0.3401	8.6394	0.3183	79.7965	0.0394	0.9999
9.2364	2.7500	1.1424	29.0170	2.7056	9.3878	0.3346	8.4999	0.3175	80	0.0393	0.9974
9.0957	2.7925	1.1250	28.5750	2.5465	9.9746	0.3150	8	0.3	84.6667	0.0371	0.9424
9	2.8222	1.1132	28.2744	2.5400	10	0.3142	7.9796	0.2646	96	0.0327	0.8312
8.9127	2.8499	1.1024	28.0001	2.5266	10.0531	0.3125	7.9375	0.2117	120	0.0262	0.6650
8.5904	2.9568	1.0625	26.9876	2.5	10.1600	0.3092	7.8540	0.2	127	0.0247	0.6283