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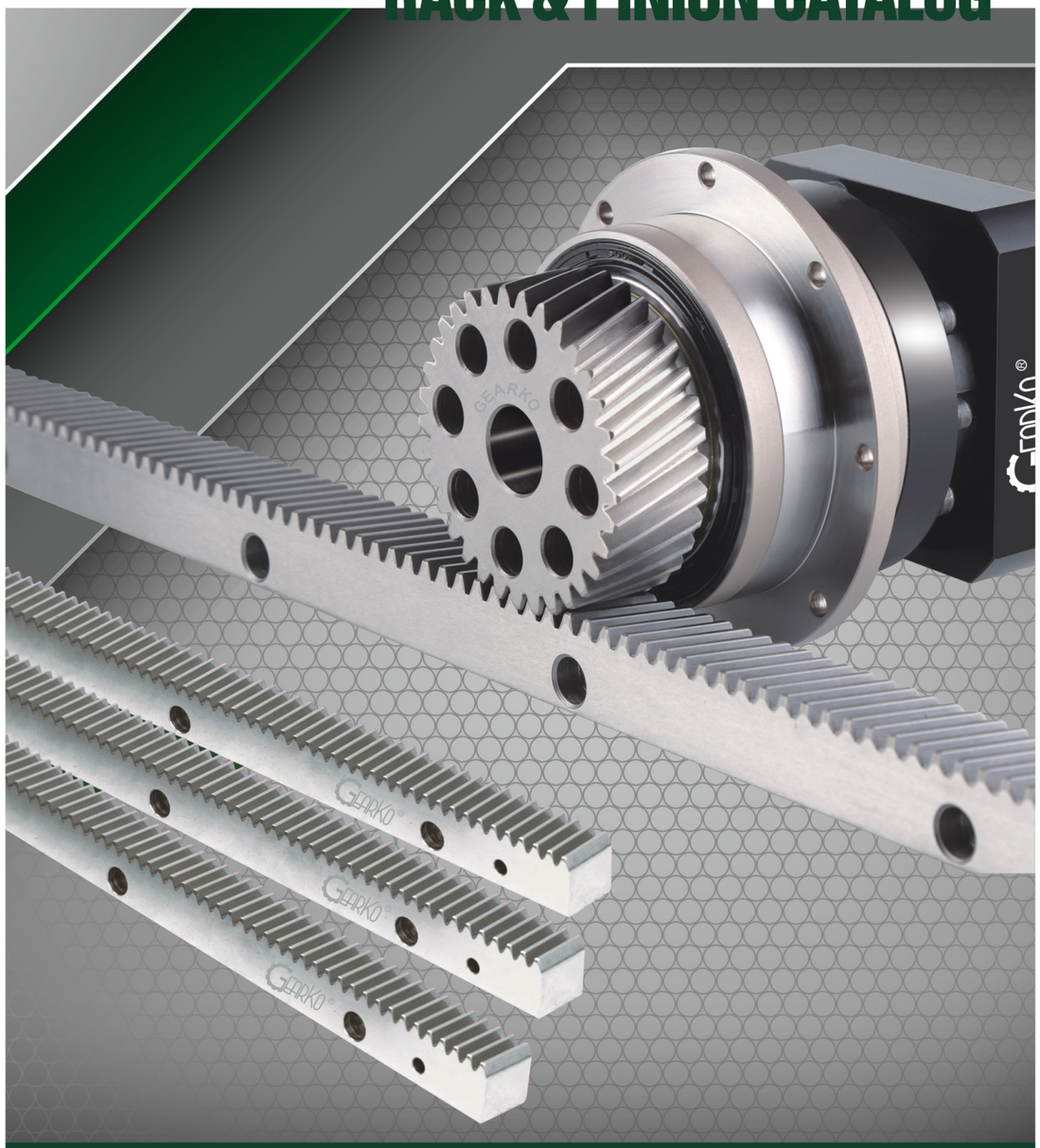
GEARKO®

RACK & PINION CATALOG



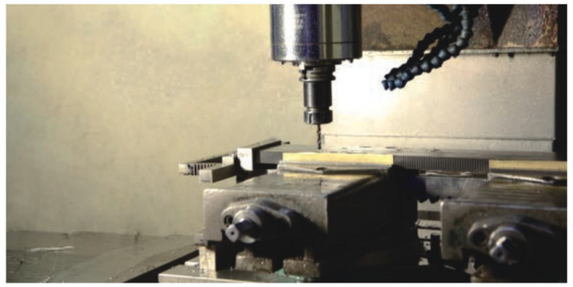
PASSION FOR PRECISION TRANSMISSION

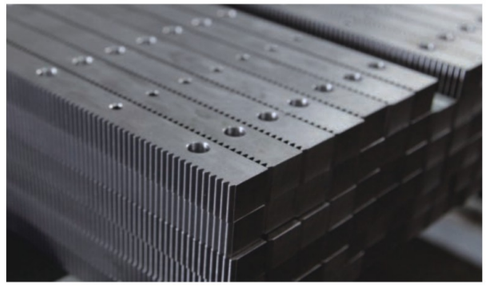
GEARKO RACK

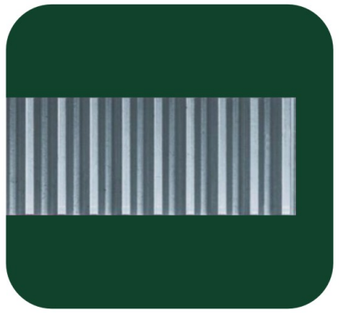
HIGH PRECISION RACK AND PINION

Code Description

Material	Rack Type	Shape	Teeth Treatment	Hardness	Module	Length	Holes	Sides Ground
C	S	T	G	H/Q	20	05	N	-G
C=S45C	S=Straight	T=Tetragon	G=Ground	H=Hardened	M2	05=500mm	N=No Holes	G=Sides Ground
M=SCM440	H=Helical	R=Round	M=Milled	Q=Quenched & Tempered		10=1,000mm		

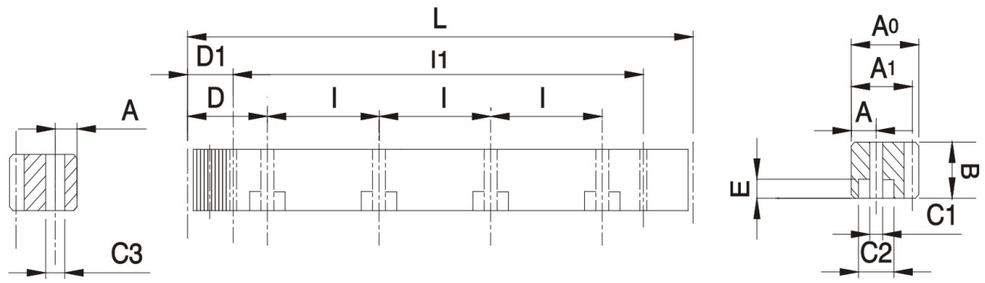






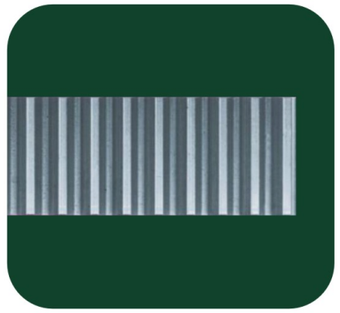
CSTGH Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 48-52
Teeth Type	Straight	**Surface Treatment**	Ground
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	S45C	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.036mm/1000mm		



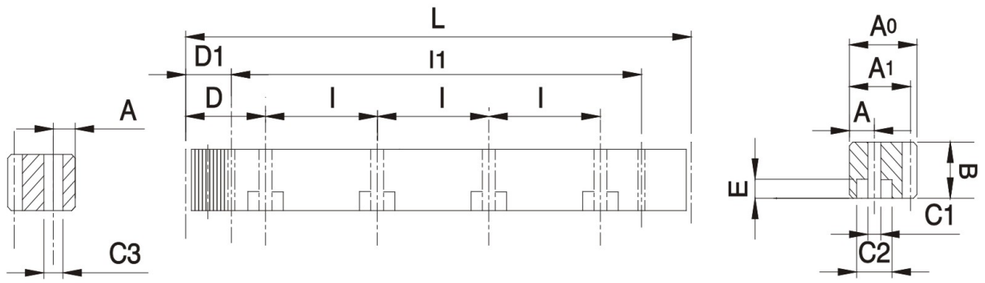
Dimension:mm

Code			Module	L	Tooth No.	B	A0	A1	D	l	Hole No.	A	C1	C2	E	D1	l1	C3
CSTGH	010	05	1	499.51	159	15	15	14	–	–	–	–	–	–	–	–	–	–
CSTGH	015	05	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	7	11	7	29	440.5	5.7
CSTGH	015	10	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	7	11	7	29	941.0	5.7
CSTGH	020	05	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
CSTGH	020	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
CSTGH	030	05	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
CSTGH	030	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
CSTGH	040	05	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
CSTGH	040	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
CSTGH	050	05	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.3	11.7
CSTGH	050	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7
CSTGH	060	05	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
CSTGH	060	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
CSTGH	080	05	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
CSTGH	080	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.0	19.7
CSTGH	100	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.66	753.96	19.7
CSTGH	120	12	12	1017.90	27	120	120	108	63.6	127.23	8	40	39	58	38	127.23	763.4	19.7



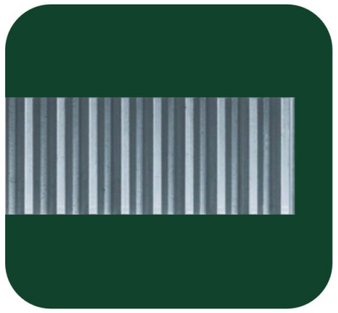
CSTMQ Specifications

Precision Grade	DIN 8	**Teeth Hardness**	HRC 18-20
Teeth Type	Straight	**Surface Treatment**	
Pressure Angle	20°	**Treatment of Teeth**	Milled
Material	S45C	**Heat Treatment**	Quenched
Total Pitch Error	0.1mm /1000mm		



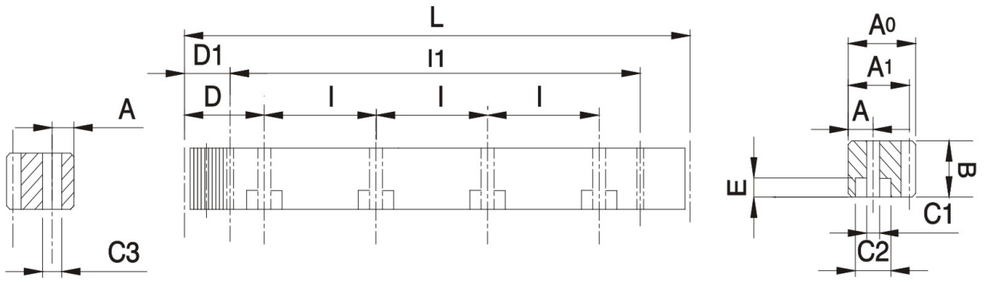
Dimension:mm

Code			Module	L	Teeth No.	B	A0	A1	D	l	Hole No.	A	C1	C2	E	D1	l1	C3
CSTMQ	010	05	1	499.51	159	15	15	14	–	–	–	–	–	–	–	–	–	–
CSTMQ	015	05	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	7	11	7	29	441.5	5.7
CSTMQ	015	10	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	7	11	7	29	941.0	5.7
CSTMQ	020	05	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
CSTMQ	020	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
CSTMQ	030	05	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
CSTMQ	030	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
CSTMQ	040	05	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
CSTMQ	040	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
CSTMQ	050	05	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
CSTMQ	050	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7
CSTMQ	060	05	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
CSTMQ	060	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
CSTMQ	080	05	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
CSTMQ	080	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.0	19.7
CSTMQ	100	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.67	753.96	19.7



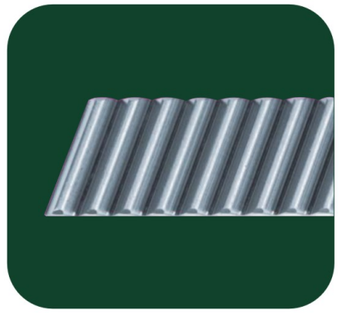
CSTMH Specifications

Precision Grade	DIN 10	**Teeth Hardness**	HRC 48-52
Teeth Type	Straight	**Surface Treatment**	
Pressure Angle	20°	**Treatment of Teeth**	Milled
Material	S45C	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.2mm /1000mm		



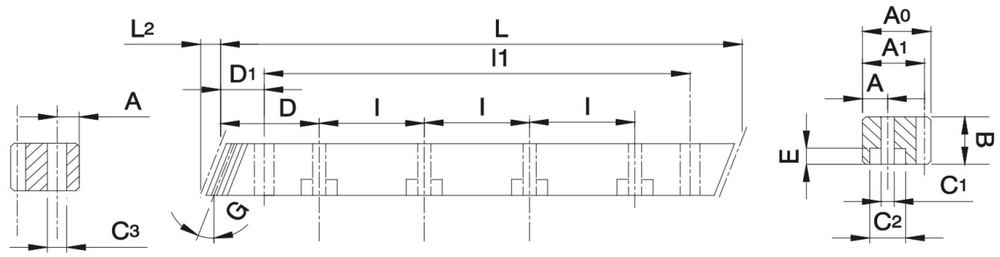
Dimension:mm

Code			Module	L	Tooth No.	B	A0	A1	D	I	Hole No.	A	C1	C2	E	D1	I1	C3
CSTMH	010	05	1	499.51	159	15	15	14	–	–	–	–	–	–	–	–	–	–
CSTMH	015	05	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	7	11	7	29.0	441.5	5.7
CSTMH	015	10	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	7	11	7	29.0	941.0	5.7
CSTMH	020	05	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
CSTMH	020	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
CSTMH	030	05	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
CSTMH	030	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
CSTMH	040	05	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
CSTMH	040	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
CSTMH	050	05	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
CSTMH	050	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7
CSTMH	060	05	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
CSTMH	060	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
CSTMH	080	05	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.45	19.7
CSTMH	080	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.0	19.7
CSTMH	100	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7



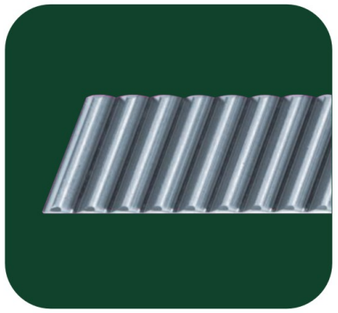
CHTGH Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 48-52
Teeth Type	Helical	**Surface Treatment**	Ground
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	S45C	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.036mm/1000mm	**Right Hand Angle**	19°31' 42''



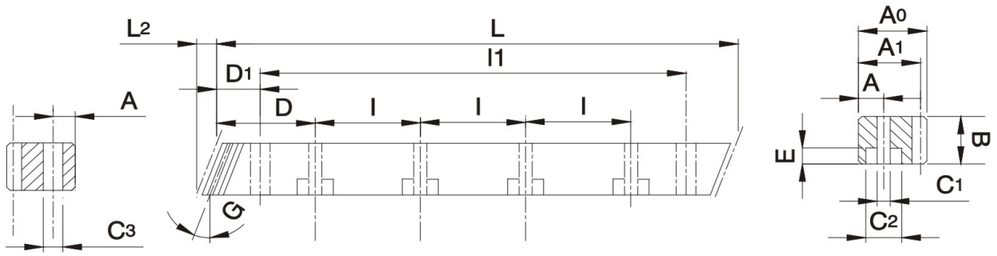
Dimension:mm

Code			Module	L	L2	Tooth No.	B	A0	A1	D	I	Hole No.	A	C1	C2	E	D1	I1	C3
CHTGH	010	05	1	500.00	3.14	150	15	15	14	–	–	–	–	–	–	–	–	–	–
CHTGH	015	05	1.5	500.00	6.7	100	19	19	17.5	62.50	125	4	8	7	11	7	31.7	436.6	5.7
CHTGH	015	10	1.5	1000.00	6.7	200	19	19	17.5	62.50	125	8	8	7	11	7	31.7	936.6	5.7
CHTGH	020	05	2	500.00	8.5	75	24	24	22	62.50	125	4	8	7	11	7	31.7	436.6	5.7
CHTGH	020	10	2	1000.00	8.5	150	24	24	22	62.50	125	8	8	7	11	7	31.7	936.6	5.7
CHTGH	030	05	3	500.00	10.3	50	29	29	26	62.50	125	4	9	10	15	9	35.0	430.0	7.7
CHTGH	030	10	3	1000.00	10.3	100	29	29	26	62.50	125	8	9	10	15	9	35.0	930.0	7.7
CHTGH	040	05	4	506.67	13.8	38	39	39	35	62.50	125	4	12	10	15	9	33.3	433.0	7.7
CHTGH	040	10	4	1000.00	13.8	75	39	39	35	62.50	125	8	12	10	15	9	33.3	933.4	7.7
CHTGH	050	05	5	500.00	17.4	30	49	39	34	62.50	125	4	12	14	20	13	37.5	425.0	11.7
CHTGH	050	10	5	1000.00	17.4	60	49	39	34	62.50	125	8	12	14	20	13	37.5	925.0	11.7
CHTGH	060	05	6	500.00	20.9	25	59	49	43	62.50	125	4	16	18	26	17	37.5	425.0	15.7
CHTGH	060	10	6	1000.00	20.9	50	59	49	43	62.50	125	8	16	18	26	17	37.5	925.0	15.7
CHTGH	080	05	8	480.00	28.0	18	79	79	71	60.00	120	4	25	22	33	21	120.0	240.0	19.7
CHTGH	080	10	8	960.00	28.0	36	79	79	71	60.00	120	8	25	22	33	21	120.0	720.0	19.7
CHTGH	100	10	10	1000.00	35.11	30	99	99	89	62.50	125	8	32	33	48	32	125.0	750.0	19.7
CHTGH	120	10	12	1000.00	42.56	25	120	120	108	40.00	125	8	40	39	58	38	125.0	750.0	19.7



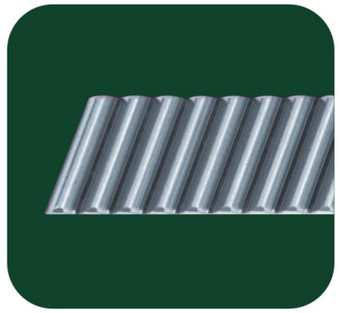
CHTMQ Specifications

Precision Grade	DIN 8	**Teeth Hardness**	HRC 18-20
Teeth Type	Helical	**Surface Treatment**	
Pressure Angle	20°	**Treatment of Teeth**	Milled
Material	S45C	**Heat Treatment**	Quenched
Total Pitch Error	0.1mm/1000mm	**Right Hand Angle**	19°31' 42''



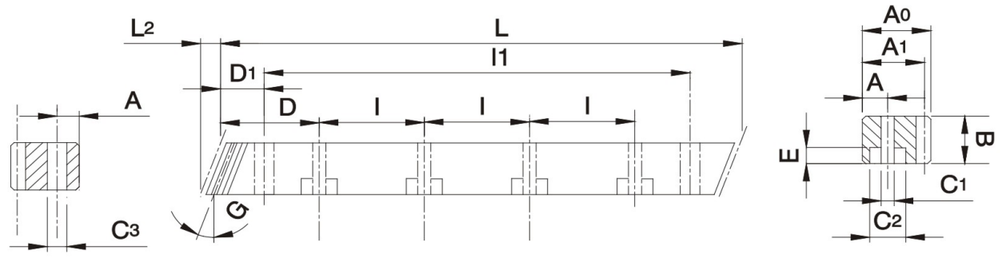
Dimension:mm

Code			Module	L	L2	Tooth No.	B	A0	A1	D	l	Hole No.	A	C1	C 2	E	D1	l1	C3
CHTMQ	010	05	1	500.00	3.14	150	15	15	14	–	–	–	–	–	–	–	–	–	–
CHTMQ	015	05	1.5	500.00	6.7	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.6	5.7
CHTMQ	015	10	1.5	1000.00	6.7	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.6	5.7
CHTMQ	020	05	2	500.00	8.9	75	24	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7
CHTMQ	020	10	2	1000.00	8.9	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7
CHTMQ	030	05	3	500.00	10.6	50	29	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7
CHTMQ	030	10	3	1000.00	10.6	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7
CHTMQ	040	05	4	506.67	14.2	38	39	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7
CHTMQ	040	10	4	1000.00	14.2	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7
CHTMQ	050	05	5	500.00	17.4	30	49	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7
CHTMQ	050	10	5	1000.00	17.4	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7
CHTMQ	060	05	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7
CHTMQ	060	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7
CHTMQ	080	05	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120.0	240.0	19.7
CHTMQ	080	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120.0	720.0	19.7
CHTMQ	100	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7



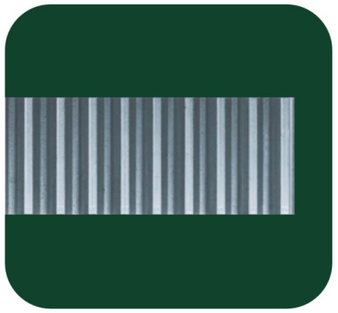
CHTMH Specifications

Precision Grade	DIN 10	**Teeth Hardness**	HRC 48-52
Teeth Type	Helical	**Surface Treatment**	
Pressure Angle	20°	**Treatment of Teeth**	Milled
Material	S45C	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.2mm/1000mm	**Right Hand Angle**	19°31' 42''



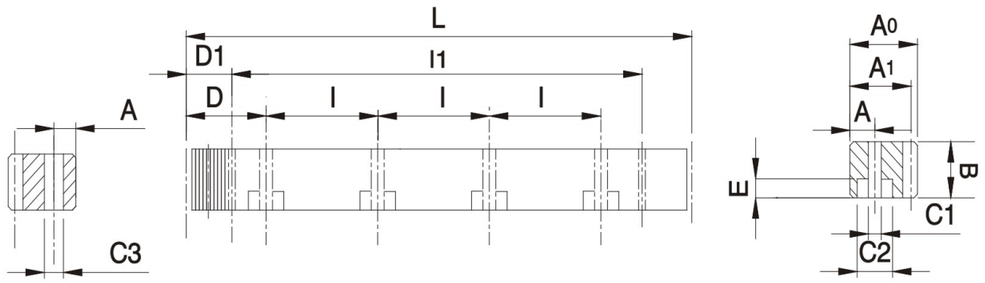
Dimension:mm

Code			Module	L	L2	Tooth No.	B	A0	A1	D	l	Hole No.	A	C1	C2	E	D_1	l1	C_3
CHTMH	010	05	1	500.00	5.35	150	15	15	14	–	–	–	–	–	–	–	–	–	–
CHTMH	015	05	1.5	500.00	6.7	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.6	5.7
CHTMH	015	10	1.5	1000.00	6.7	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.6	5.7
CHTMH	020	05	2	500.00	8.5	75	24	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7
CHTMH	020	10	2	1000.00	8.5	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7
CHTMH	030	05	3	500.00	10.3	50	29	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7
CHTMH	030	10	3	1000.00	10.3	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7
CHTMH	040	05	4	506.67	13.8	38	39	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7
CHTMH	040	10	4	1000.00	13.8	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.0	7.7
CHTMH	050	05	5	500.00	17.4	30	49	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7
CHTMH	050	10	5	1000.00	17.4	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7
CHTMH	060	05	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7
CHTMH	060	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7
CHTMH	080	05	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120	240.0	19.7
CHTMH	080	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120	720.0	19.7
CHTMH	100	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125	750.0	19.7
CHTMH	120	10	12	1000.00	42.56	25	120	120	108	40	125	8	40	39	58	38	102.5	750.0	19.7



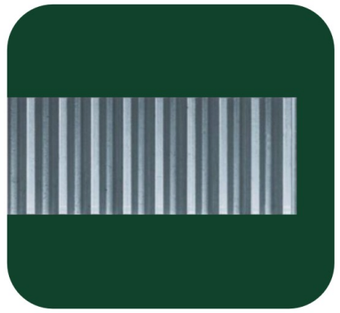
MSTGH Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 50~55
Teeth Type	Stralight	**Surface Treatment**	Ground
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	SCM440	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.036mm/1000mm		



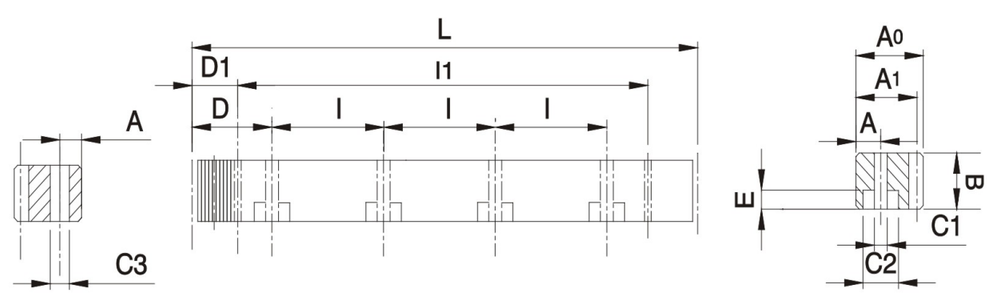
Dimension:mm

Code			Module	L	Tooth No.	B	A0	A1	D	I	Hole No.	A	C1	C2	E	D1	I1	C3
MSTGH	010	05	1	499.51	159	15	15	14	–	–	–	–	–	–	–	–	–	–
MSTGH	015	05	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	7	11	7	29.0	441.5	5.7
MSTGH	015	10	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	7	11	7	29.0	941.0	5.7
MSTGH	020	05	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
MSTGH	020	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
MSTGH	030	05	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
MSTGH	030	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
MSTGH	040	05	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
MSTGH	040	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
MSTGH	050	05	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
MSTGH	050	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7
MSTGH	060	05	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
MSTGH	060	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
MSTGH	080	05	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
MSTGH	080	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.0	19.7
MSTGH	100	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7



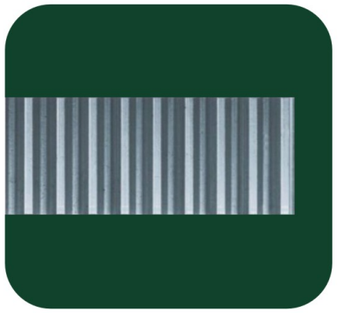
MSTMQ Specifications

Precision Grade	DIN 8	**Teeth Hardness**	HRC 21-24
Teeth Type	Stralight	**Surface Treatment**	
Pressure Angle	20°	**Treatment of Teeth**	Milled
Material	SCM440	**Heat Treatment**	Quenched
Total Pitch Error	0.1mm/1000mm		



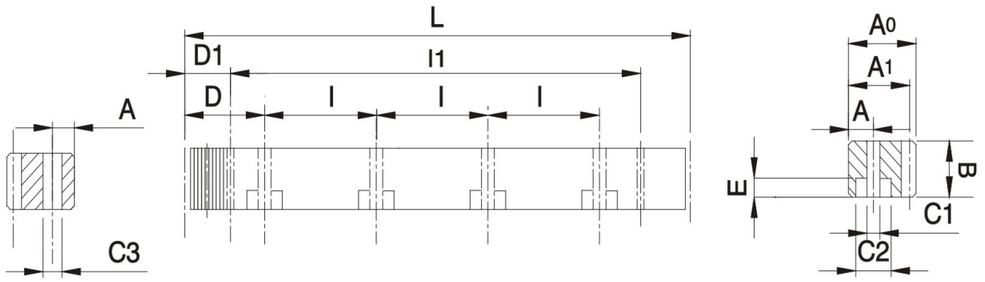
Dimension:mm

Code			Module	L	Tooth No.	B	A0	A1	D	I	Hole No.	A	C1	C2	E	D1	I1	C3
MSTMQ	010	05	1	499.51	159	15	15	14	–	–	–	–	–	–	–	–	–	–
MSTMQ	015	05	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	7	11	7	29.0	441.5	5.7
MSTMQ	015	10	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	7	11	7	29.0	941.0	5.7
MSTMQ	020	05	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
MSTMQ	020	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
MSTMQ	030	05	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
MSTMQ	030	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
MSTMQ	040	05	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
MSTMQ	040	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
MSTMQ	050	05	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
MSTMQ	050	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7
MSTMQ	060	05	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
MSTMQ	060	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
MSTMQ	080	05	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
MSTMQ	080	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.0	19.7
MSTMQ	100	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7



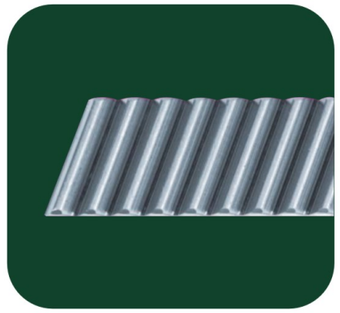
MSTMH Specifications

Precision Grade	DIN 10	**Teeth Hardness**	HRC 50~55
Teeth Type	Stralight	**Surface Treatment**	
Pressure Angle	20°	**Treatment of Teeth**	Milled
Material	SCM440	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.2mm/1000mm		



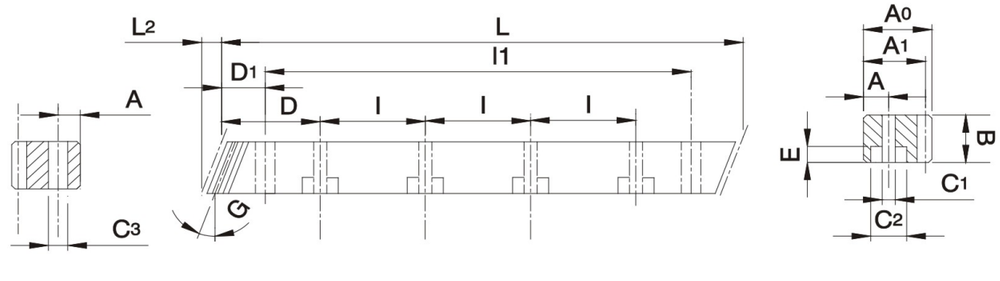
Dimension:mm

Code			Module	L	Tooth No.	B	A0	A1	D	I	Hole No.	A	C1	C2	E	D1	I1	C3
MSTMH	010	05	1	499.51	159	15	15	14	–	–	–	–	–	–	–	–	–	–
MSTMH	015	05	1.5	499.51	106	19	19	17.5	62.44	124.88	4	8	7	11	7	29.0	441.5	5.7
MSTMH	015	10	1.5	999.03	212	19	19	17.5	62.44	124.88	8	8	7	11	7	29.0	941.0	5.7
MSTMH	020	05	2	502.65	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
MSTMH	020	10	2	1005.31	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
MSTMH	030	05	3	508.94	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
MSTMH	030	10	3	1017.88	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
MSTMH	040	05	4	502.65	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
MSTMH	040	10	4	1005.31	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
MSTMH	050	05	5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
MSTMH	050	10	5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945.0	11.7
MSTMH	060	05	6	508.94	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
MSTMH	060	10	6	1017.88	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
MSTMH	080	05	8	502.65	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
MSTMH	080	10	8	1005.31	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952.0	19.7
MSTMH	100	10	10	1005.31	32	99	99	89	62.83	125.66	8	32	33	48	32	125.7	753.96	19.7



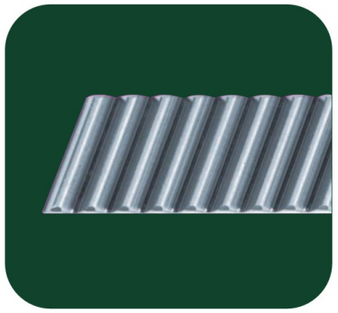
MHTGH Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 50~55
Teeth Type	Helical	**Surface Treatment**	Ground
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	SCM440	**Heat Treatment**	Teeth surface induction hardened
Total Pitch Error	0.036mm/1000mm		



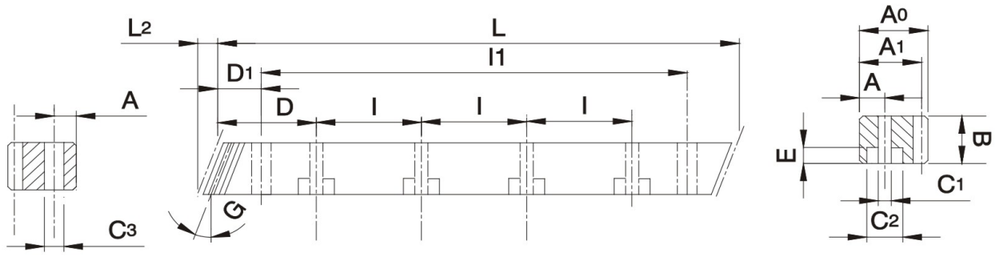
Dimension:mm

Code			Module	L	L2	Tooth No.	B	A0	A1	D	I	Hole No.	A	C1	C2	E	D1	I1	C3
MHTGH	010	05	1	500.00	5.35	150	15	15	14	–	–	–	–	–	–	–	–	–	–
MHTGH	015	05	1.5	500.00	6.7	100	19	19	17.5	62.50	125	4	8	7	11	7	31.7	436.6	5.7
MHTGH	015	10	1.5	1000.00	6.7	200	19	19	17.5	62.50	125	8	8	7	11	7	31.7	936.6	5.7
MHTGH	020	05	2	500.00	8.5	75	24	24	22	62.50	125	4	8	7	11	7	31.7	436.6	5.7
MHTGH	020	10	2	1000.00	8.5	150	24	24	22	62.50	125	8	8	7	11	7	31.7	936.6	5.7
MHTGH	030	05	3	500.00	10.3	50	29	29	26	62.50	125	4	9	10	15	9	35.0	430.0	7.7
MHTGH	030	10	3	1000.00	10.3	100	29	29	26	62.50	125	8	9	10	15	9	35.0	930.0	7.7
MHTGH	040	05	4	506.67	13.8	38	39	39	35	62.50	125	4	12	10	15	9	33.3	433.0	7.7
MHTGH	040	10	4	1000.00	13.8	75	39	39	35	62.50	125	8	12	10	15	9	33.3	933.4	7.7
MHTGH	050	05	5	500.00	17.4	30	49	39	34	62.50	125	4	12	14	20	13	37.5	425.0	11.7
MHTGH	050	10	5	1000.00	17.4	60	49	39	34	62.50	125	8	12	14	20	13	37.5	925.0	11.7
MHTGH	060	05	6	500.00	20.9	25	59	49	43	62.50	125	4	16	18	26	17	37.5	425.0	15.7
MHTGH	060	10	6	1000.00	20.9	50	59	49	43	62.50	125	8	16	18	26	17	37.5	925.0	15.7
MHTGH	080	05	8	480.00	28.0	18	79	79	71	60.00	120	4	25	22	33	21	120.0	240.0	19.7
MHTGH	080	10	8	960.00	28.0	36	79	79	71	60.00	120	8	25	22	33	21	120.0	720.0	19.7
MHTGH	100	10	10	1000.00	35.11	30	99	99	89	62.50	125	8	32	33	48	32	125.0	750.0	19.7



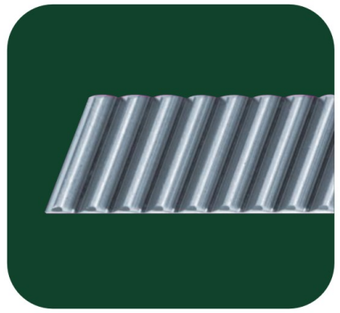
MHTMQ Specifications

Precision Grade	DIN 8	Teeth Hardness	HRC 21-24
Teeth Type	Helical	Surface Treatment	
Pressure Angle	20°	Treatment of Teeth	Milled
Material	SCM440	Heat Treatment	Quenched
Total Pitch Error	0.1mm /1000mm	Right Hand Angle	19°31' 42''



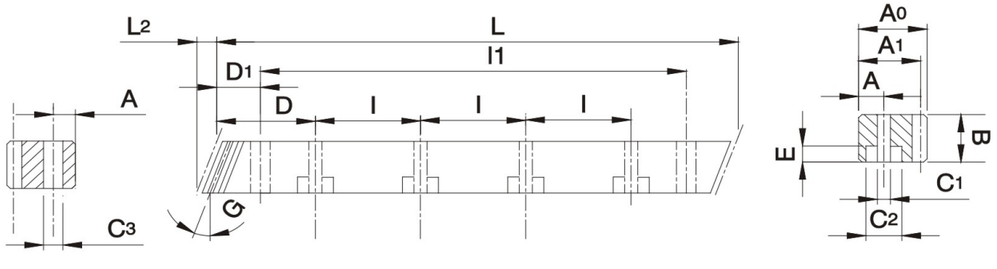
Dimension:mm

Code			Module	L	L2	Tooth No.	B	A0	A1	D	l	Hole No	A	C1	C2	E	D1	l1	C3
MHTMQ	010	05	1	500.00	5.35	150	15	15	14	–	–	–	–	–	–	–	–	–	–
MHTMQ	015	05	1.5	500.00	6.7	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.6	5.7
MHTMQ	015	10	1.5	1000.00	6.7	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.6	5.7
MHTMQ	020	05	2	500.00	8.9	75	24	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7
MHTMQ	020	10	2	1000.00	8.9	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7
MHTMQ	030	05	3	500.00	10.6	50	29	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7
MHTMQ	030	10	3	1000.00	10.6	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7
MHTMQ	040	05	4	506.67	14.2	38	39	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7
MHTMQ	040	10	4	1000.00	14.2	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7
MHTMQ	050	05	5	500.00	17.4	30	49	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7
MHTMQ	050	10	5	1000.00	17.4	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7
MHTMQ	060	05	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7
MHTMQ	060	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7
MHTMQ	080	05	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120.0	240.0	19.7
MHTMQ	080	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120.0	720.0	19.7
MHTMQ	100	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125.0	750.0	19.7



MHTMH Specifications

Precision Grade	DIN 10	Teeth Hardness	HRC 50~55
Teeth Type	Helical	Surface Treatment	
Pressure Angle	20°	Treatment of Teeth	Milled
Material	SCM440	Heat Treatment	Teeth surface induction hardened
Total Pitch Error	0.2mm /1000mm	Right Hand Angle	19°31' 42''



Dimension:mm

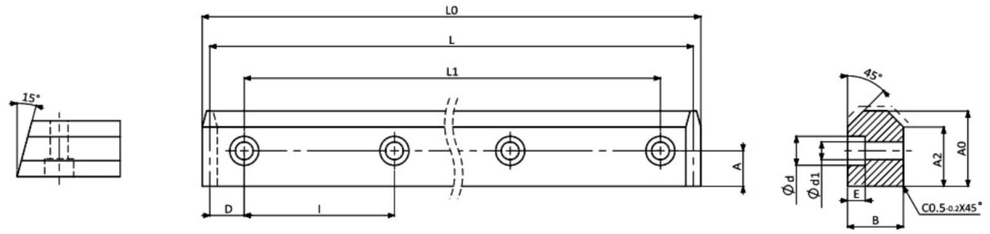
Code			Module	L	L2	Tooth No.	B	A0	A1	D	l	Hole No.	A	C1	C2	E	D1	l1	C3
MHTMH	010	05	1	500.00	5.35	150	15	15	14	–	–	–	–	–	–	–	–	–	–
MHTMH	015	05	1.5	500.00	6.7	100	19	19	17.5	62.5	125	4	8	7	11	7	31.7	436.6	5.7
MHTMH	015	10	1.5	1000.00	6.7	200	19	19	17.5	62.5	125	8	8	7	11	7	31.7	936.6	5.7
MHTMH	020	05	2	500.00	8.5	75	24	24	22	62.5	125	4	8	7	11	7	31.7	436.6	5.7
MHTMH	020	10	2	1000.00	8.5	150	24	24	22	62.5	125	8	8	7	11	7	31.7	936.6	5.7
MHTMH	030	05	3	500.00	10.3	50	29	29	26	62.5	125	4	9	10	15	9	35.0	430.0	7.7
MHTMH	030	10	3	1000.00	10.3	100	29	29	26	62.5	125	8	9	10	15	9	35.0	930.0	7.7
MHTMH	040	05	4	506.67	13.8	38	39	39	35	62.5	125	4	12	10	15	9	33.3	433.0	7.7
MHTMH	040	10	4	1000.00	13.8	75	39	39	35	62.5	125	8	12	10	15	9	33.3	933.4	7.7
MHTMH	050	05	5	500.00	17.4	30	49	39	34	62.5	125	4	12	14	20	13	37.5	425.0	11.7
MHTMH	050	10	5	1000.00	17.4	60	49	39	34	62.5	125	8	12	14	20	13	37.5	925.0	11.7
MHTMH	060	05	6	500.00	20.9	25	59	49	43	62.5	125	4	16	18	26	17	37.5	425.0	15.7
MHTMH	060	10	6	1000.00	20.9	50	59	49	43	62.5	125	8	16	18	26	17	37.5	925.0	15.7
MHTMH	080	05	8	480.00	28.0	18	79	79	71	60.0	120	4	25	22	33	21	120	240.0	19.7
MHTMH	080	10	8	960.00	28.0	36	79	79	71	60.0	120	8	25	22	33	21	120	720.0	19.7
MHTMH	100	10	10	1000.00	35.11	30	99	99	89	62.5	125	8	32	33	48	32	125	750.0	19.7

Content of Guideway Racks

Code	Material	Type	Type	Shape	Teeth Treatment	Hardness	CP	Grade DIN
MSVGH-CP	SCM440	Straight	V Type Guideway Rack	Hexgan	Teeth Ground	Hardened HRC 53°–58°	5,7.5,10	DIN6
MNVGH-00	SCM440	N/A	V Type Guideway	Hexgan	Ground	Hardened HRC 53°–58°	N/A	DIN6
MSTGH-CP	SCM440	Straight	Guideway Rack	Tetragon	Teeth Ground	Hardened HRC 53°–58°	5,7.5,10	DIN6
MNTGH-00	SCM440	N/A	Guideway	Tetragon	Ground	Hardened HRC 53°–58°	N/A	DIN6

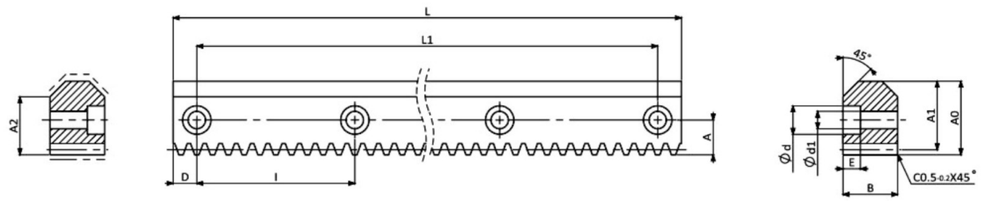
Guideway Rack Code Instruction

Material	Type	Shape	Teeth Treatment	Hardness	Circular Pitch	Length	Grade
M	S/H	V/T	G	H	CP	10	Q6
M=SCM440	S=Straight H=Helical	V=V Type Bar T=Tetragon Bar	G=Teeth Ground /Ground	H=Hardened	CP=Circular Pitch	CP5=1030 CP7.5=1230 CP10=1230	Q=DIN



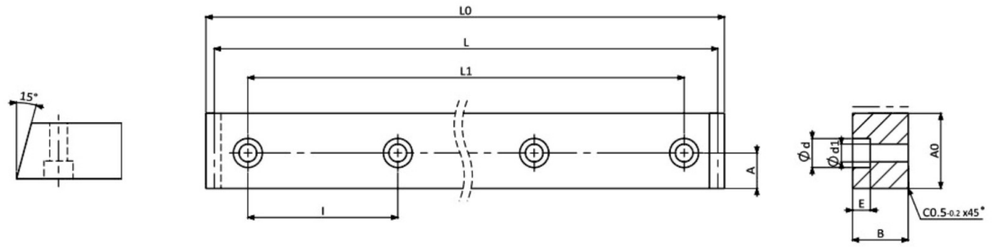
Dimension:mm

Code	No	Q	L0	L	L1	B	A0	D	I	ød	ød1	E	A2	KG
MNVGH-00	1	-Q6	1033.89	1030	1000	14.5	24.5	15	100	11	7	6.8	20.0	2.3
MNVGH-00	2	-Q6	1035.23	1030	1000	19.5	29.5	15	100	15	9	9	23.5	3.6
MNVGH-00	3	-Q6	1236.62	1230	1200	24.7	33.0	15	100	15	9	9	25.2	6.3
MNVGH-00	4	-Q6	1239.27	1230	1200	34.6	46.6	15	100	18	11	11	36.7	12.5



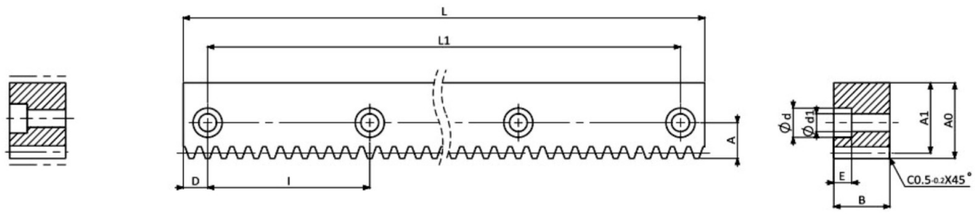
Dimension:mm

Code	No	Q	CP	L	L1	Module	B	A0	A1	D	I	A	ød	ød1	E	A2	KG
MSVGH-CP 050 10	1	-Q6	5	1030	1000	1.5915	14.5	24.5	22.91	15	100	11.5	11	7	6.8	20.0	2.2
MSVGH-CP 050 10	2	-Q6	5	1030	1000	1.5915	19.5	29.5	27.91	15	100	14.0	15	9	9	23.5	3.5
MSVGH-CP 075 12	1	-Q6	7.5	1230	1200	2.3873	24.7	33.0	30.61	15	100	14.5	15	9	9	25.2	5.8
MSVGH-CP 100 12	1	-Q6	10	1230	1200	3.1831	34.6	46.6	43.42	15	100	18	18	11	11	36.7	11.7



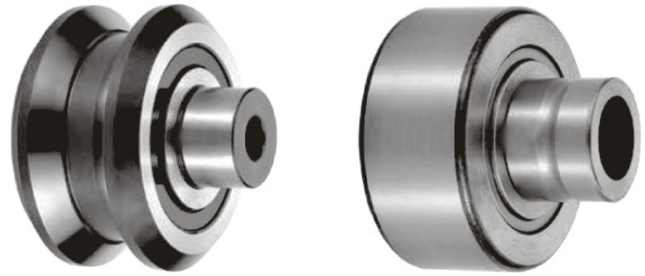
Dimension:mm

Code	No	Q	L0	L	L1	B	A0	D	I	ød	ød1	E	KG
MNTGH-00	1	-Q6	1033.89	1030	1000	14.5	24.5	15	100	11	7	6.8	2.5
MNTGH-00	2	-Q6	1035.23	1030	1000	19.5	29.5	15	100	15	9	9	4.0
MNTGH-00	3	-Q6	1236.62	1230	1200	24.7	33.0	15	100	15	9	9	6.8
MNTGH-00	4	-Q6	1239.27	1230	1200	34.6	46.6	15	100	18	11	11	13.4



Dimension:mm

Code	No	Q	CP	L	L1	Module	B	A0	A1	D	I	A	ød	ød1	E	KG
MSTGH-CP 050 10	1	-Q6	5	1030	1000	1.5915	14.5	24.5	22.91	15	100	11.5	11	7	6.8	2.2
MSTGH-CP 050 10	2	-Q6	5	1030	1000	1.5915	19.5	29.5	27.91	15	100	14.0	15	9	9	3.5
MSTGH-CP 075 12	1	-Q6	7.5	1230	1200	2.3873	24.7	33.0	30.61	15	100	14.5	15	9	9	5.8
MSTGH-CP 100 12	1	-Q6	10	1230	1200	3.1831	34.6	46.6	43.42	15	100	18	18	11	11	11.7

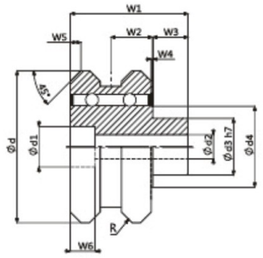


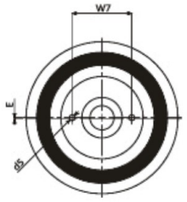
Content of Rollers

Code	Material	Type	Shaft Dia.
UV	SUJ2 (100Cr6)	V Type Roller	15 20 25 35
UR	SUJ2 (100Cr6)	Round Roller	15 20 25 35

Rollers Code Instruction

Material	Type	Shaft Diameter	Excenter
U=SUJ2 (100Cr6)	V=V Type R=Round	15 20 25 35	Y=1mm N=0mm
			Y=1mm N=0mm



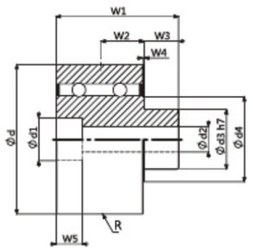


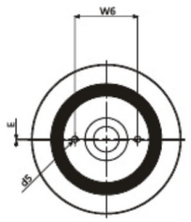
V Type Roller

Dimension:mm

Code	Shaft Dia.	Excenter	ød	ød1	W1	W5	W2	W3	W4	W6	R	ød2	ød3	ød4	W7	d5	Ga(μm)	KG
UV15Y	15	1 mm	53	13.5	35	2	12	12	1	9	R250	8.4	15h7	23.8	18.5	2.6x3	−3/+5	0.23
UV15N	15	0 mm	53	13.5	35	2	12	12	1	9	R250	8.4	15h7	23.8	18.5	2.6x3	−3/+5	0.23
UV20Y	20	1 mm	63	16.5	46	3	16	15	1	11	R300	10.5	20h7	27.7	22.5	2.6x3	−3/+5	0.45
UV20N	20	0 mm	63	16.5	46	3	16	15	1	11	R300	10.5	20h7	27.7	22.5	2.6x3	−3/+5	0.45
UV25Y	25	1 mm	77	20.5	60	3.5	20.5	20	1	13	R360	13	25h7	35.6	27.5	4.1x4.5	−3/+5	1.00
UV25N	25	0 mm	77	20.5	60	3.5	20.5	20	1	13	R360	13	25h7	35.6	27.5	4.1x4.5	−3/+5	1.00
UV35Y	35	1 mm	107	28.5	84	7.5	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5	−3/+5	2.50
UV35N	35	0 mm	107	28.5	84	7.5	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5	−3/+5	2.50

Ga(μm) Internal Axial Tolerance





Round Roller

Dimension:mm

Code	Shaft Dia.	Excenter	ød	ød1	W1	W2	W3	W4	W5	R	ød2	ød3	ød4	W6	d5	Ga(μm)	KG
UR15Y	15	1 mm	47	13.5	35	12	12	1	9	R500	8.4	15h7	23.8	18.5	2.6x3	−3/+5	0.16
UR20Y	20	1 mm	72	16.5	46	16	15	1	11	R500	10.5	20h7	27.7	22.5	2.6x3	−3/+5	0.63
UR25Y	25	1 mm	85	20.5	60	20.5	20	1	13	R500	13	25h7	35.6	27.5	4.1x4.5	−3/+5	1.00
UR35Y	35	1 mm	100	28.5	84	30	25	1	17.5	R500	17	40h7	56.9	42	4.1x4.5	−3/+5	2.70

SG16 Grinding Spur Gears

Module 2

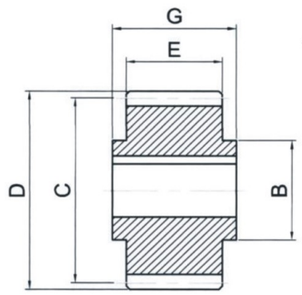


Fig.1

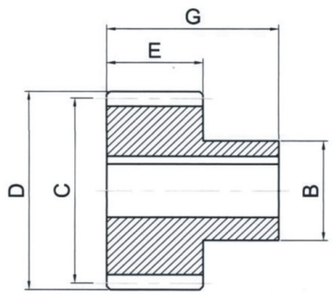
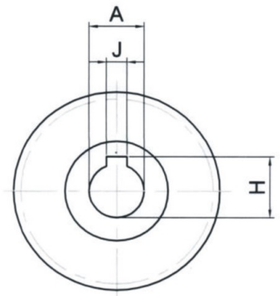


Fig. 2



Module 2

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
SG16-M2-16-15-1	1	16	15	25	32	36	28	30	5	17.3
SG16-M2-18-15-1	1	18	15	30	36	40	28	30	5	17.3
SG16-M2-18-20-1	1	18	20	25	36	40	28	30	6	22.8
SG16-M2-20-15-1	1	20	15	25	40	44	28	30	5	17.3
SG16-M2-20-20-1	1	20	20	30	40	44	28	30	6	22.8
SG16-M2-22-15-1	1	22	15	25	44	48	28	30	5	17.3
SG16 M2-22-25-1	1	22	25	36	44	48	28	30	8	28.3
SG16-M2-25-22-2	2	25	22	36	50	54	28	56	6	24 8
SG16-M2-25-30-1	1	25	30	45	50	54	28	30	8	33.3
SG16-M2-28-30-2	2	28	30	50	56	60	28	60	8	33.3
SG16-M2-28-35-1	1	28	35	48	56	60	28	30	10	38.3
SG16-M2-32-16-2	2	32	16	30	64	68	28	54	5	18.3
SG16-M2-32-22-2	2	32	22	36	64	68	28	56	6	24.8
SG16-M2-32-25-1	1	32	25	36	64	68	28	30	8	28.3
SG16-M2-32-32-2	2	32	32	55	64	68	28	65	10	35.3
SG16-M2-36-25-1	1	36	25	36	72	76	28	30	8	28.3
SG16-M2-36-40-2	2	36	40	62	72	76	28	65	12	43.3
SG16-M2-40-25-1	1	40	25	36	80	84	28	30	8	28.3
SG16-M2-40-32-2	2	40	32	55	80	84	28	65	10	35.3
SG16-M2-40-45-2	2	40	45	68	80	84	28	65	14	48.8

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	--
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	SCM440	**Datum Reference**	Bore
Heat Treatment	Induction hardened	**Secondary Operations**	Possible except teeth

Module 3

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
SG16-M3-18-25-1	1	18	25	36	54	60	28	30	8	28.3
SG16-M3-20-25-1	1	20	25	36	60	66	28	30	8	28.3
SG16-M3-20-35-1	1	20	35	48	66	66	28	30	10	38.3
SG16-M3-22-22-2	2	22	22	36	66	72	28	56	6	24.8
SG16-M3-22-25-2	2	22	25	44	66	72	28	60	8	28.3
SG16-M3-22-30-1	1	22	30	45	66	72	28	30	8	33.3
SG16-M3-22-32-2	2	22	32	55	66	72	28	65	10	35.3
SG16-M3-25-25-1	1	25	25	36	75	81	28	30	8	28.3
SG16-M3-25-40-2	2	25	40	62	75	81	28	65	12	43.3
SG16-M3-25-45-1	1	25	45	58	75	81	28	30	14	48.3
SG16-M3-28-22-2	2	28	22	36	84	90	28	56	6	24.8
SG16-M3-28-30-1	1	28	30	45	84	90	28	30	8	33.3
SG16-M3-28-32-2	2	28	32	55	84	90	28	65	10	35.3
SG16-M3-28-35-2	2	28	35	55	84	90	28	65	10	38.3
SG16-M3-28-45-2	2	28	45	68	84	90	28	65	14	48.8
SG16-M3-32-25-1	1	32	25	36	96	102	28	30	8	28.3
SG16-M3-32-40-2	2	32	40	62	96	102	28	65	12	43.3
SG16-M3-32-45-1	1	32	45	58	96	102	28	30	14	48.8
SG16-M3-36-35-1	1	36	35	48	108	114	28	30	10	38.3
SG16-M3-36-45-2	2	36	45	68	108	114	28	65	14	48.8

SG16 Grinding Spur Gears

Module 4

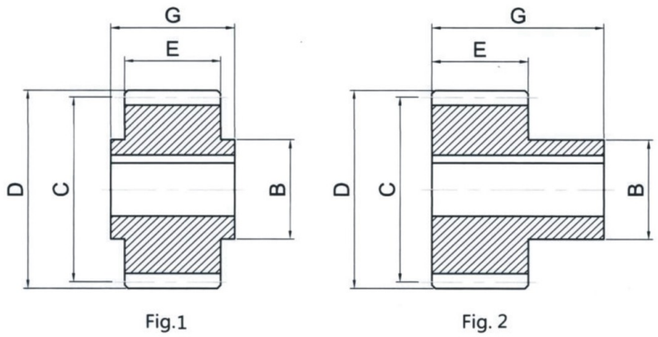
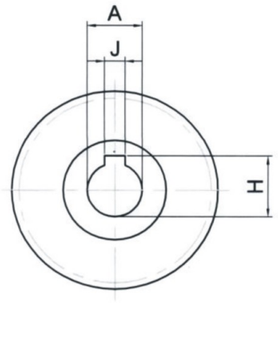


Fig.1

Fig. 2



Module 4

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
SG16-M4-20-32-2	2	20	32	55	80	88	40	75	10	35.3
SG16-M4-20-35-1	1	20	35	52	80	88	40	50	10	38.3
SG16-M4-20-40-2	2	20	40	62	80	88	40	75	12	43.3
SG16-M4-20-45-1	1	20	45	65	80	88	40	50	14	48.8
SG16-M4-22-35-1	2	22	35	52	88	96	40	50	10	38.3
SG16-M4-22-45-2	2	22	45	68	88	96	40	75	14	48.8
SG16-M4-25-32-2	2	25	32	55	100	108	40	75	10	35.3
SG16-M4-25-35-2	2	25	35	55	100	108	40	75	10	38.3
SG16-M4-25-40-2	2	25	40	62	100	108	40	75	12	43.3
SG16-M4-25-45-1	1	25	45	65	100	108	40	50	14	48.8
SG16-M4-25-55-2	2	25	55	80	100	108	40	80	16	59.3
SG16-M4-28-35-1	1	28	35	52	112	120	40	50	10	38.3
SG16-M4-28-45-2	2	28	45	68	112	120	40	75	14	48.8
SG16-M4-32-35-1	2	32	35	52	128	136	40	50	10	38.3
SG16-M4-32-45-1	1	32	45	65	128	136	40	50	14	48.8
SG16-M4-32-55-2	2	32	55	80	128	136	40	80	16	59.3
SG16-M4-32-75-2	2	32	75	110	128	136	40	100	20	80.4
SG16-M4-40-45-1	1	40	45	65	160	168	40	50	14	48.8
SG16-M4-40-60-1	1	40	60	80	160	168	40	50	18	64.4
SG16-M4-40-75-2	2	40	75	110	160	168	40	100	20	80.4

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	SCM440	**Datum Reference**	Bore
Heat Treatment	Induction hardened	**Secondary Operations**	Possible except teeth

Module 5

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
SG16-M5-21-45-2	2	21	45	68	105	115	50	85	14	48.8
SG16-M5-21-55-2	2	21	55	80	105	115	50	90	16	59.3
SG16-M5-25-45-2	2	25	45	68	125	135	50	85	14	48.8
SG16-M5-25-55-2	2	25	55	80	125	135	50	90	16	59.3
SG16-M5-25-75-2	2	25	75	110	125	135	50	110	20	80.4

Module 6

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
SG16-M6-21-55-2	2	21	55	80	126	138	60	100	16	59.3
SG16-M6-21-75-2	2	21	75	110	126	138	60	120	20	79.9
SG16-M6-25-55-2	2	25	55	80	150	162	60	100	16	59.3
SG16-M6-25-75-2	2	25	75	110	150	162	60	120	20	79.9

HGL 18 Grinding Spur Gears

Module 2

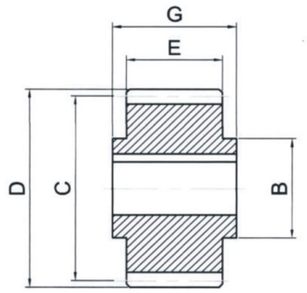


Fig.1

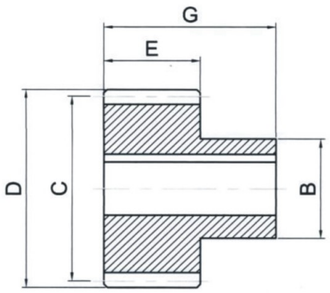
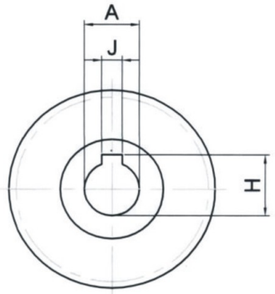


Fig. 2



Module 2

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
HGL18-M2-20-20-1	1	20	20	30	42.44	46.4	28	30	6	22.8
HGL18-M2-20-22-1	1	20	22	30	42.44	46.4	28	30	6	24.8
HGL18-M2-21-16-1	1	21	16	25	45.56	48.6	28	30	5	18.3
HGL18-M2-21-22-2	2	21	22	36	44.56	48.6	28	56	6	24.8
HGL18-M2-25-20-1	1	25	20	30	53.05	57.1	28	30	6	22.8
HGL18-M2-25-25-1	1	25	25	36	53.05	57.1	28	30	8	28.3
HGL18-M2-28-35-1	1	28	35	48	59.42	63.4	28	30	10	38.3
HGL18-M2-30-16-1	1	30	16	25	63.66	67.7	28	30	5	18.3
HGL18-M2-30-20-1	1	30	20	30	63.66	67.7	28	30	6	22.8
HGL18-M2-30-22-2	2	30	22	36	63.66	67.7	28	56	6	24.8
HGL18-M2-30-25-1	1	30	25	36	63 66	67.7	28	30	6	28.3
HGL18-M2-30-30-2	2	30	30	50	63.66	67.7	28	60	8	33.3
HGL18-M2-30-32-2	2	30	32	55	63.66	67.7	28	65	10	35.3
HGL18-M2-32-20-1	1	32	20	30	67.91	71.9	28	30	6	22.8
HGL18-M2-32-25-1	1	32	25	36	67.91	71.9	28	30	8	28.3
HGL18-M2-32-32-2	2	32	32	50	67.91	71.9	28	51	10	35.3
HGL18-M2-32-35-1	1	32	35	48	67.91	71.9	28	30	10	38.3
HGL18-M2-36 35-1	1	36	35	48	76.39	80.4	28	30	10	38.3
HGL18-M2-39-32-2	2	39	32	55	82.76	86.8	28	65	10	35.3
HGL18-M2-40-35-1	1	40	35	48	84.88	88.9	28	30	10	38.3

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	19.528°	**Datum Reference**	Bore
Heat Treatment	SCM440	**Secondary Operations**	Possible except teeth

Module 3

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
HGL18-M3-20-22-2	2	20	22	36	63.66	69.7	28	56	6	24.8
HGL18-M3-20-25-2	2	20	25	44	63.66	69.7	28	60	8	28.3
HGL18-M3-20-30-1	1	20	30	45	63.66	69.7	28	30	8	33.3
HGL18-M3-20-30-2	2	20	30	50	63.66	69.7	28	60	8	33.3
HGL18-M3-20-32-2	2	20	32	55	63.66	69.7	28	65	10	35.3
HGL18-M3-20-35-1	1	20	35	48	63.66	69.7	28	30	10	38.3
HGL18-M3-22-25-1	1	22	25	36	70.03	76	28	30	8	28.3
HGL18-M3-22-30-1	1	22	30	45	70.03	76	28	30	8	33.3
HGL18-M3-22-35-1	1	22	35	48	70.03	76	28	30	10	38.3
HGL18-M3-25-22-2	2	25	22	36	79.58	85.6	28	56	6	24.8
HGL18-M3-25-25-1	1	25	25	36	79.58	85.6	28	30	8	28.3
HGL18-M3-25-25-2	2	25	25	45	79.58	85.6	28	60	8	28.3
HGL18-M3-25-30-1	1	25	30	45	79.58	85.6	28	30	8	33.3
HGL18-M3-25-30-2	2	25	30	50	79.58	85.6	28	60	8	33.3
HGL18-M3-25-32-2	2	25	32	55	79.58	85.6	28	65	10	35.3
HGL18-M3-25-35-1	1	25	35	48	79.58	85.6	28	30	10	38.3
HGL18-M3-25-40-1	1	25	40	70	79.58	85.6	28	50	12	43.3
HGL18-M3-25-40-2	2	25	40	70	79.58	85.6	28	70	12	43.3
HGL18-M3-30-32-2	2	30	32	55	95.5	101.5	28	60	10	35.3
HGL18-M3-30-40-2	2	30	40	70	95.5	101.5	28	70	12	45.3

HGL 18 Grinding Spur Gears

Module 4

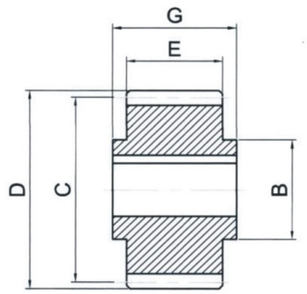


Fig.1

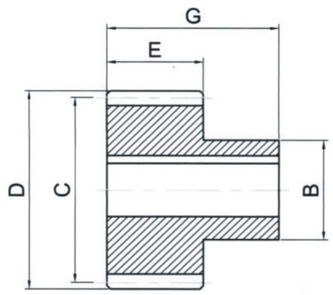
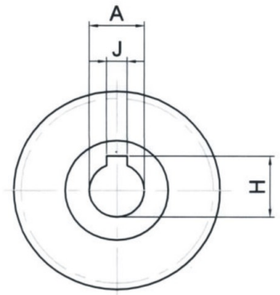


Fig. 2



Module 4

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
HGL18-M2-20-20-1	1	15	35	52	63 66	71.7	40	50	10	38.3
HGL18-M2-20-22-1	2	18	32	55	76.39	84.4	40	75	10	35.3
HGL18-M2-21-16-1	1	20	35	52	84.88	92.9	40	50	10	38.3
HGL18-M2-21-22-2	1	20	45	65	84 88	92.9	40	50	14	48.8
HGL18-M2-25-20-1	2	21	32	55	89.13	97.1	40	75	10	35.3
HGL18-M2-25-25-1	2	21	35	55	89.13	97.1	40	75	10	38.3
HGL18-M2-28-35-1	2	21	40	62	89.13	97.1	40	75	12	43.3
HGL18-M2-30-16-1	2	21	45	68	89.13	97.1	40	75	14	48.8
HGL18-M2-30-20-1	1	22	35	52	93.37	101.4	40	50	10	38.3
HGL18-M2-30-22-2	1	22	45	65	93.37	101.4	40	50	14	48.8
HGL18-M2-30-25-1	2	24	32	55	101.86	109.9	40	75	10	35.3
HGL18-M2-30-30-2	2	24	35	55	101 86	109.9	40	75	10	38.3
HGL18-M2-30-32-2	2	24	40	62	101.86	109.9	40	75	12	43.3
HGL18-M2-32-20-1	2	24	45	68	101.86	109.9	40	75	14	48.8
HGL18-M2-32-25-1	2	24	55	80	101.86	109.9	40	80	16	59.3
HGL18-M2-32-32-2	1	25	35	52	106.1	114.1	40	50	10	38.3
HGL18-M2-32-35-1	1	25	45	65	106.1	114.1	40	50	14	48.8
HGL18-M2-36 35-1	2	27	40	75	114.6	122.6	40	80	12	43.3
HGL18-M2-39-32-2	2	30	40	80	127.33	135.33	40	80	12	43.3
HGL18-M2-40-35-1	2	30	45	80	127.33	135.33	40	80	15	48.8

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	19.528°	**Datum Reference**	Bore
Heat Treatment	SCM440	**Secondary Operations**	Possible except teeth

Module 5

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
HGL18-M5-18-45-2	2	18	45	68	95.49	105.5	50	82	14	48.8
HGL18-M5-24-45-2	2	24	45	68	127.32	137.0	50	85	14	48.8
HGL18-M5-24-55-2	2	24	55	80	127.32	137.3	50	90	16	59.3
HGL18-M5-24-75-2	2	24	75	110	127.32	137.3	50	110	20	79.9

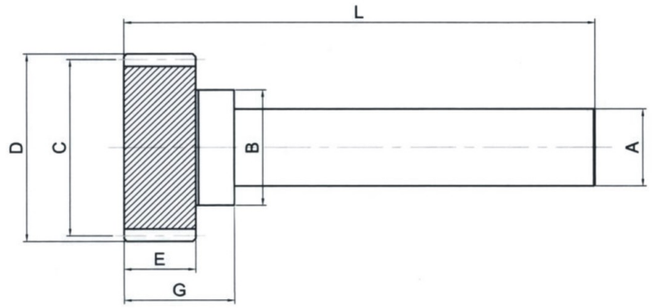
Module 6

Dimension：mm

Catalong NO.	Drawing number Fig.	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	J	H
			Ah7	B	C	D	E	G		
HGL18-M6-20-55-2	2	20	55	80	127.32	139.3	60	100	16	59.3
HGL18-M6-20-75-2	2	20	75	110	127.32	139.3	60	120	20	79.9
HGL18-M6-25-55-2	2	25	55	80	159.16	171.2	60	100	16	59.3
HGL18-M6-25-75-2	2	25	75	110	159.16	171.2	60	120	20	79.9

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	SCM440	**Datum Reference**	Bore
Heat Treatment	Induction hardened	**Secondary Operations**	Possible except teeth

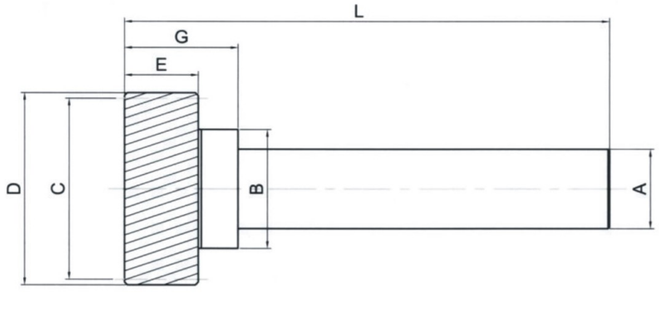


Dimension：mm

Catalong NO.	Module M	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	Length	Modification coefficient
			A	B	C	D	E	G	L	X
RSG16-M2-32-25	2	32	25	38	64	68	25	34	140	--
RSG16-M2-32-28	2	32	28	42	64	68	25	38.5	164.5	--
RSG16-M3-21-25	3	21	25	38	63	69	30	36.5	142	--
RSG16-M3-21-28	3	21	28	42	63	69	30	41	167	--
RSG16-M3-21-36	3	21	36	48	63	69	30	37.5	185	--
RSG16-M4-17-28	4	17	28	42	68	76	40	46	172	--
RSG16-M4-17-36	4	17	36	48	68	76	40	42.5	190	--
RSG16-M4-17-48	4	17	48	57	68	76	40	43.5	215	--
RSG16-M4-30-48	4	30	48	57	120	128	40	43.5	215	--
RSG16-M5-13-48	5	13	48	57	65	80	50	53.5	225	0.50
RSG16-M5-15-60	5	15	60	68	75	90	50	55	255	0.50
RSG16-M6-13-60	6	13	60	68	78	96	60	65	265	0.50

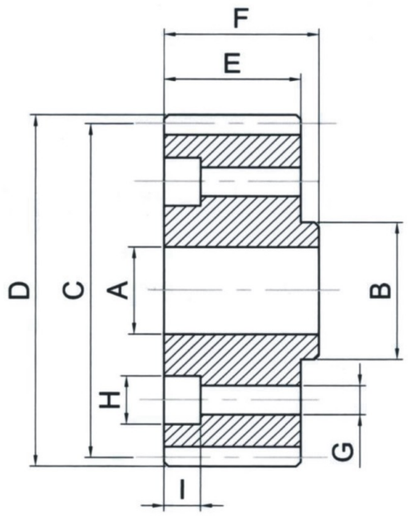
Specifications

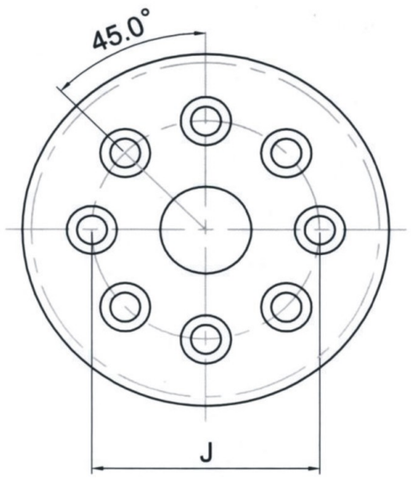
Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	19.528°	**Datum Reference**	Bore
Heat Treatment	SCM440	**Secondary Operations**	Possible except teeth



Dimension：mm

Catalong NO.	Module M	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	Length	Modification coefficient
			A	B	C	D	E	G	L	X
RSG18-M2-30-25	2	30	25	38	63.66	67.7	25	34	140	--
RSG18-M2-30-28	2	30	28	42	63.66	67.7	25	38.5	164.5	--
RSG18-M3-20-25	3	20	25	38	63.66	69.7	30	36.5	142	--
RSG18-M3-20-28	3	20	28	42	63.66	69.7	30	41	167	--
RSG18-M3-20-36	3	20	36	48	63.66	69.7	30	37.5	185	--
RSG18-M4-15-28	4	15	28	42	63.66	71.7	40	46	172	--
RSG18-M4-15-36	4	15	36	48	63.66	71.7	40	42.5	190	--
RSG18-M4-15-48	4	15	48	57	63.66	71.7	40	43.5	215	--
RSG18-M4-30-48	4	30	48	57	127.32	135.3	40	43.5	215	--
RSG18-M5-12-48	5	13	48	57	63.66	78	50	53.5	225	0.434
RSG18-M5-25-60	5	15	60	70	79.58	94.5	50	55	255	0.500
RSG18-M6-13-60	6	13	60	70	82.76	100.7	60	65	265	0.500





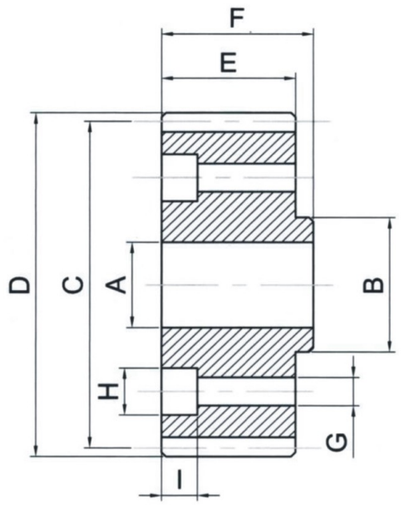
Dimension：mm

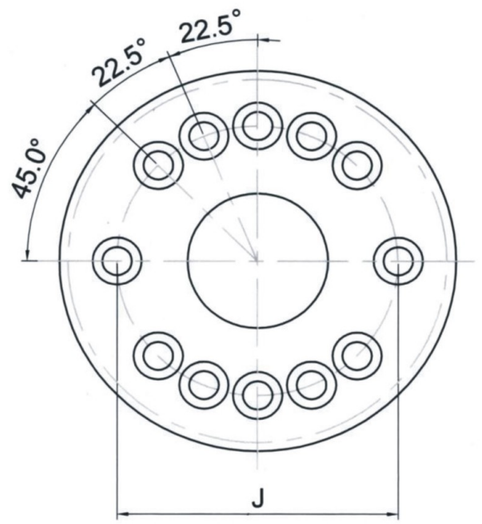
Catalong NO.	Module M	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	G	H
			A	B	C	D	E	G		
HGD180-M2-26-15	2	26	15	20.0	55.20	60.50	26	29.0	5.5	10
HGD180-M2-27-15	2	27	15	20.0	57.29	61.29	30	33.5	5.5	10
HGD180-M2-29-15	2	29	15	20.0	61.54	66.50	26	29.0	5.5	10
HGD180-M2-35-15	2	35	15	20.0	74.30	79.50	26	29.0	5.5	10
HGD180-M2-29-20	2	29	20	25.0	61.54	67.00	26	30.0	6.6	11
HGD180-M2-33-20	2	33	20	31.5	70.00	75.00	26	30.0	6.6	11
HGD180-M2-36-20	2	36	20	31.5	76.39	80.39	30	34.0	6.6	11
HGD180-M2-37-20	2	37	20	31.5	78.50	83.50	26	30.0	6.6	11
HGD180-M3-31-20	3	31	20	31.5	98.70	106.50	31	35.5	6.6	11

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	19.528°	**Datum Reference**	Bore
Heat Treatment	SCM440	**Secondary Operations**	Possible except teeth

Catalong NO.	I	J	Perimeter	Modification coefficient	Weight
			L	X	kg
HGD180-M2-26-15	12	31.5	173.33	0.4065	0.4
HGD180-M2-27-15	11	31.5	180.00	0	0.5
HGD180-M2-29-15	12	31.5	193.33	0.4150	0.5
HGD180-M2-35-15	12	31.5	233.33	0.3819	0.8
HGD180-M2-29-20	14	40.0	193.33	0.4150	0.5
HGD180-M2-33-20	14	50.0	220.00	0.3928	0.7
HGD180-M2-36-20	8	50.0	240.00	0	1.2
HGD180-M2-37-20	14	50.0	246.76	0.4209	0.9
HGD180-M3-31-20	9	50.0	310.00	0.3540	1.8





Dimension：mm

Catalong NO.	Module M	Number of teeth Z	Bore	Hua dia	Pitch.dia	Out.dia	Width	Length	G	H
			A	B	C	D	E	G		
HGD280-M2-40-31.5	2	40	31.5	40	84.90	90	26	30	6.6	11
HGD280-M2-45-31.5	2	45	31.5	40	95 50	100	26	30	6.6	11
HGD280-M3-30-20	3	30	20	40	95.49	101.49	35	39	6.6	11

Specifications

Precision Grade	DIN 6	**Teeth Hardness**	HRC 55~60
Gear Teeth	Standard full depth	**Surface Treatment**	Induction Hardened
Pressure Angle	20°	**Treatment of Teeth**	Ground
Material	19.528°	**Datum Reference**	Bore
Heat Treatment	SCM440	**Secondary Operations**	Possible except teeth

Catalong NO.	I	J	Perimeter	Modification coefficient	Weight
			L	X	kg
HGD280-M2-40-31.5	14	63	266.69	0.3792	1.0
HGD280-M2-45-31.5	14	63	300.00	0.3267	1.4
HGD280-M3-30-20	10	63	300.00	0	1.5