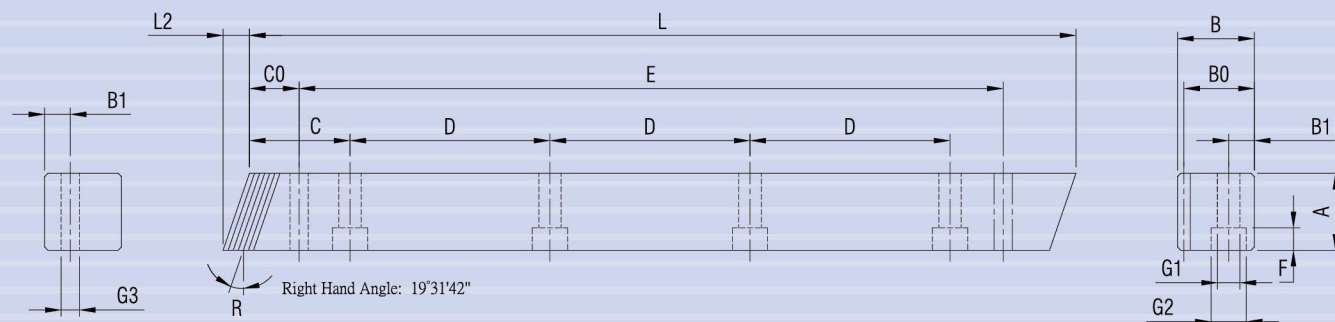
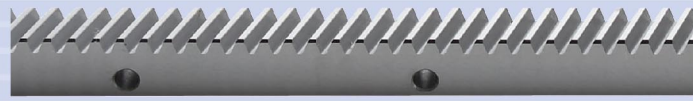


Helical (Skew) Gear Rack



- Runs quieter than the spur gear rack, especially at high speeds
- Helical rack & pinion has a higher contact ratio (the number of effective teeth engaged) than straight, which increases the load carrying capacity



Dimension:mm

Module	L	L2	Tooth No.	A	B	B0	C	D	Hole No.	B1	G1	G2	F	C0	E	G3
1.5	500.00	6	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7
1.5	1000.00	6	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7
2	500.00	8.5	75	24	24	22	62.50	125	4	8	7	11	7	31.7	436.6	5.7
2	1000.0	8.5	150	24	24	22	62.50	125	8	8	7	11	7	31.7	936.6	5.7
3	500.00	10.3	50	29	29	26	62.50	125	4	9	10	15	9	35.0	430.0	7.7
3	1000.0	10.3	100	29	29	26	62.50	125	8	9	10	15	9	35.0	930.0	7.7
4	506.67	13.8	38	39	39	35	62.50	125	4	12	10	15	9	33.3	433.0	7.7
4	1000.0	13.8	75	39	39	35	62.50	125	8	12	10	15	9	33.3	933.4	7.7
5	500.00	17.4	30	49	39	34	62.50	125	4	12	14	20	13	37.5	425.0	11.7
5	1000.0	17.4	60	49	39	34	62.50	125	8	12	14	20	13	37.5	925.0	11.7
6	500.00	20.9	25	59	49	43	62.50	125	4	16	18	26	17	37.5	425.0	15.7
6	1000.0	20.9	50	59	49	43	62.50	125	8	16	18	26	17	37.5	925.0	15.7
8	480.00	28.0	18	79	79	71	60.00	120	4	25	22	33	21	120.0	240.0	17.7
8	960.00	28.0	36	79	79	71	60.00	120	8	25	22	33	21	120.0	720.0	17.7

Material : S45C Grade: JIS 2 (DIN 6, AGMA 12)



Precision Spur & Helical Gear Rack

Professionally Fabricated in Taiwan

Sixstar produce, grind and fabricate precision spur gear racks and helical gear racks of all kinds. We can customize racks as accessory to machines and CNC tools of different applications.

Custom drawings are welcomed for our evaluation. Sixstar experienced team is glad to be of your service.



SIX STAR MACHINERY INDUSTRY CO., LTD.
YIEH CHEN MACHINERY CO., LTD.

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SIX STAR MACHINERY INDUSTRY CO., LTD.
YIEH CHEN MACHINERY CO., LTD.

Capability of Sixstar Gear Rack:

- Grinding precision of JIS grade 2 (DIN 6, AGMA 12)
- Rack teeth rollers are capable of M2-M14 process modulus and can fabricate one single workpiece up to 2 meters without joint.

Sixstar Gear Rack Features:

- Various materials available
- Rectangular or round shape
- With or without heat treatment
- Customization is available
- Manufactured in many lengths and heights
- Ends capable to join with one another

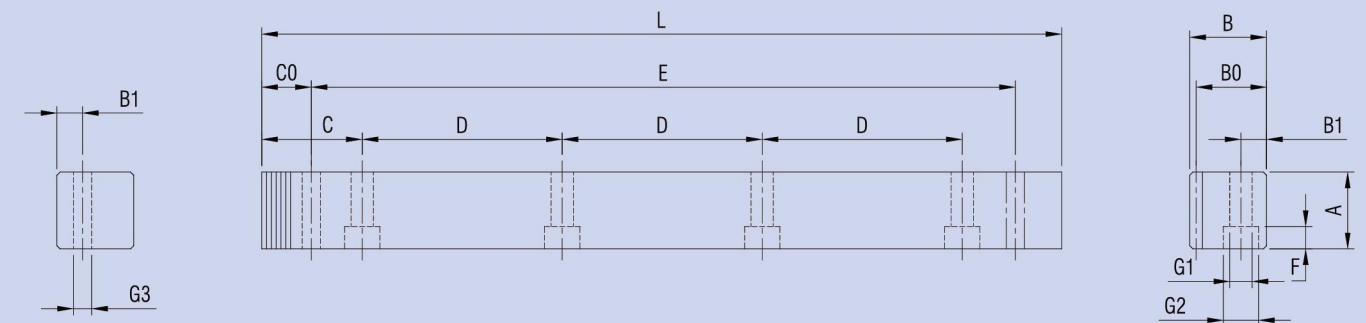


Precision Spur & Helical Gear Rack

Spur (Straight) Gear Rack



- Spur gear racks have the teeth perpendicular to rack length
- Converts rotary motion into linear motion to carry heavy loads



Dimension:mm

Module	L	Tooth No.	A	B	B0	C	D	Hole No.	B1	G1	G2	F	C0	E	G3
1.5	499.51	106	17	17	15.5	62.44	124.88	4	8	6	9.5	7	29.0	441.5	5.7
1.5	999.03	212	17	17	15.5	62.44	124.88	8	8	6	9.5	7	29.0	941.0	5.7
2	502.64	80	24	24	22	62.83	125.66	4	8	7	11	7	31.3	440.1	5.7
2	1005.28	160	24	24	22	62.83	125.66	8	8	7	11	7	31.3	942.7	5.7
3	508.95	54	29	29	26	63.62	127.23	4	9	10	15	9	34.4	440.1	7.7
3	1017.9	108	29	29	26	63.62	127.23	8	9	10	15	9	34.4	949.1	7.7
4	502.64	40	39	39	35	62.83	125.66	4	12	10	15	9	37.5	427.7	7.7
4	1005.28	80	39	39	35	62.83	125.66	8	12	10	15	9	37.5	930.3	7.7
5	502.65	32	49	39	34	62.83	125.66	4	12	14	20	13	30.1	442.4	11.7
5	1005.31	64	49	39	34	62.83	125.66	8	12	14	20	13	30.1	945	11.7
6	508.95	27	59	49	43	63.62	127.23	4	16	18	26	17	31.4	446.1	15.7
6	1017.9	54	59	49	43	63.62	127.23	8	16	18	26	17	31.4	955.0	15.7
8	502.64	20	79	79	71	62.83	125.66	4	25	22	33	21	26.6	449.5	19.7
8	1005.28	40	79	79	71	62.83	125.66	8	25	22	33	21	26.6	952	19.7

Material : S45C Grade: JIS 2 (DIN 6, AGMA 12)

Gear Rack Application:

- Machine tools, milling machines, drills, lathes, machine center, cutting machines, carpentry machines, welding machines, stone fabricating machines, etc.
- Lift mechanisms/ Guide mechanisms/ Steering mechanisms, etc.
- Ideal for working with heavy duty loads and motion

