



GEAR RACKS • DIN 6 & DIN 10

STRAIGHT RACKS

Hardened straight-tooth racks in two precision grades — ground DIN 6 and milled DIN 10 — for linear axes that have to hold position.

MODULES

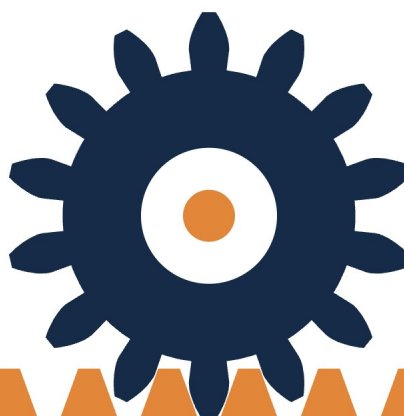
M1.5 - M6

LENGTHS

500 • 1000 • 2000 mm

HARDNESS

HRC 50 - 55



CHOOSE THE GRADE YOUR AXIS NEEDS

KJK Precision straight racks are built for linear motion that has to hold position — gantries, CNC machines, cutting tables and automation lines. Every rack is hardened to HRC 50–55 and supplied with counterbored mounting holes, ready to bolt down.

Two grades cover most applications: **DIN 6 ground** racks where positioning accuracy and quiet running matter most, and **DIN 10 milled** racks for robust, cost-effective drives.

DIN 6 · Ground		CSTGH
Material	S50C	
Hardness	HRC 50–55	
Finish	Ground all sides after hardening	
Total pitch error	≤ 0.036 mm / 1000 mm ≤ 0.047 mm / 2000 mm	
Modules	1.5 · 2 · 3	
Lengths	500 · 1000 · 2000 mm	
Suited to CNC machines, laser and plasma cutting, precision gantries.		

DIN 10 · Milled		CSTMH
Material	S50C	
Hardness	HRC 50–55	
Finish	Sand-blasted or phosphated	
Total pitch error	≤ 0.1 mm / 1000 mm	
Modules	1.5 · 2 · 3 · 4 · 5 · 6	
Lengths	1000 · 2000 mm	
Suited to Automation, material handling, woodworking and general gantries.		

HOW TO READ A PART CODE

CSTGH	020	10	DIN6	24X24
Series	Module	Nominal length	Quality grade	Section
CSTGH straight, ground	015 = M1.5 · 020 = M2	05 = 500 · 10 = 1000	DIN6 or DIN10	B × A0 in mm
CSTMH straight, milled	030 = M3 ... 060 = M6	20 = 2000 mm		

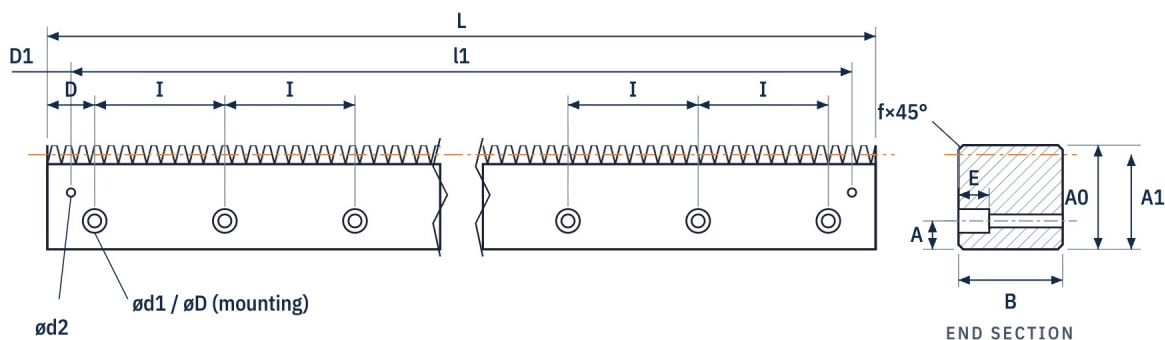
Example: **CSTGH02010-DIN6-24X24** — straight ground rack, module 2, 1000 mm nominal, DIN 6, 24 × 24 mm. Actual length L is a whole number of tooth pitches; see the tables.

SECTION SIZE AT A GLANCE · B × A0 (MM)

Grade	M1.5	M2	M3	M4	M5	M6
DIN 6	19 × 19	24 × 24	29 × 29	—	—	—
DIN 10	17 × 17	24 × 24	29 × 29	39 × 39	49 × 39	59 × 49

DIMENSIONS

UNIT: MM



QUALITY GRADE

DIN 6

TEETH

Straight, ground

MATERIAL

S50C

HARDNESS

HRC 50–55

FINISH

Ground all sides after hardening

PITCH ERROR FP

 $\leq 0.036 / 1000 \text{ mm}$ **$\leq 0.047 / 2000 \text{ mm}$**

MODULES

1.5 • 2 • 3

LENGTHS

500 • 1000 • 2000 mm

DIMENSIONS & LOAD

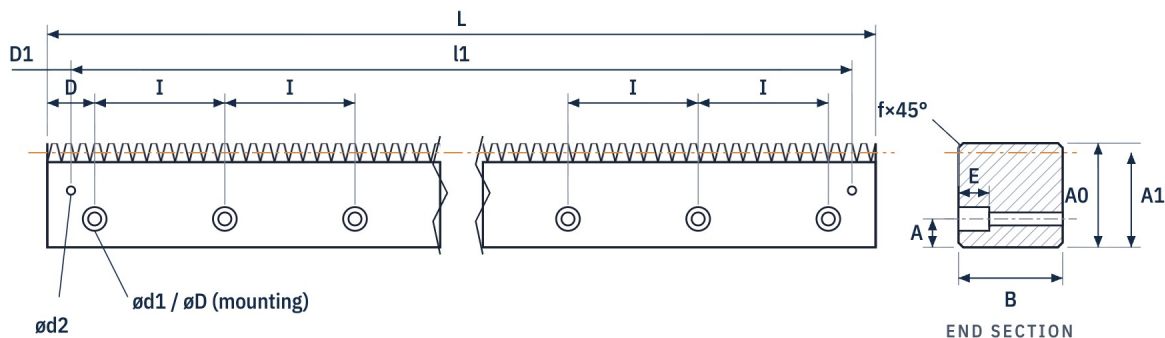
Part code	Module	L	Teeth	B	A0	A1	Ft kN	Weight kg
CSTGH01505-DIN6-19X19	1.5	499.51	106	19	19	17.5	3.38	1.3
CSTGH01510-DIN6-19X19	1.5	999.03	212	19	19	17.5	3.38	2.6
CSTGH02005-DIN6-24X24	2	502.65	80	24	24	22	5.69	2.1
CSTGH02010-DIN6-24X24	2	1005.31	160	24	24	22	5.69	4.1
CSTGH02020-DIN6-24X24	2	2010.62	320	24	24	22	5.69	8.2
CSTGH03005-DIN6-29X29	3	508.94	54	29	29	26	10.32	3.0
CSTGH03010-DIN6-29X29	3	1017.88	108	29	29	26	10.32	6.1
CSTGH03020-DIN6-29X29	3	2035.75	216	29	29	26	10.32	12.2

MOUNTING HOLES

Part code	D	I	Holes	A	$\phi d1$	ϕD	E	D1	l1	$\phi d2$	f
CSTGH01505-DIN6-19X19	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.5
CSTGH01510-DIN6-19X19	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	1.5
CSTGH02005-DIN6-24X24	62.83	125.66	4	8	7	11	7	31.3	440.10	5.7	2
CSTGH02010-DIN6-24X24	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2
CSTGH02020-DIN6-24X24	62.83	125.66	16	8	7	11	7	31.3	1948.00	5.7	2
CSTGH03005-DIN6-29X29	63.62	127.23	4	9	10	15	9	34.4	440.10	7.7	2
CSTGH03010-DIN6-29X29	63.62	127.23	8	9	10	15	9	34.4	949.10	7.7	2
CSTGH03020-DIN6-29X29	63.62	127.23	16	9	10	15	9	34.4	1967.00	7.7	2

DIMENSIONS

UNIT: MM


QUALITY GRADE
DIN 10
TEETH
Straight, milled
MATERIAL
S50C
HARDNESS
HRC 50–55
SURFACE
Sand-blasted or
phosphated
PITCH ERROR FP
 $\leq 0.1 / 1000 \text{ mm}$
MODULES
1.5 · 2 · 3 · 4 · 5 · 6
LENGTHS
1000 · 2000 mm

DIMENSIONS & LOAD

Part code	Module	L	Teeth	B	A0	A1	Ft kN	Weight kg
CSTMH01510-DIN10-17X17	1.5	999.03	212	17	17	15.5	1.98	1.9
CSTMH02010-DIN10-24X24	2	1005.31	160	24	24	22	3.73	3.9
CSTMH02020-DIN10-24X24	2	2010.62	320	24	24	22	3.73	7.8
CSTMH03010-DIN10-29X29	3	1017.88	108	29	29	26	6.76	5.8
CSTMH03020-DIN10-29X29	3	2035.75	216	29	29	26	6.76	11.5
CSTMH04010-DIN10-39X39	4	1005.31	80	39	39	35	12.12	10.3
CSTMH04020-DIN10-39X39	4	2010.62	160	39	39	35	12.12	20.5
CSTMH05010-DIN10-49X39	5	1005.31	64	49	39	34	19.04	12.9
CSTMH05020-DIN10-49X39	5	2010.62	128	49	39	34	19.04	25.8
CSTMH06010-DIN10-59X49	6	1017.88	54	59	49	43	27.51	19.7
CSTMH06020-DIN10-59X49	6	2035.75	108	59	49	43	27.51	39.5

MOUNTING HOLES

Part code	D	I	Holes	A	$\phi d1$	ϕD	E	D1	l1	$\phi d2$	f
CSTMH01510-DIN10-17X17	62.44	124.88	8	7	6	9.5	7	29	941.00	5.7	1.5
CSTMH02010-DIN10-24X24	62.83	125.66	8	8	7	11	7	31.3	942.70	5.7	2
CSTMH02020-DIN10-24X24	62.83	125.66	16	8	7	11	7	31.3	1948.00	5.7	2
CSTMH03010-DIN10-29X29	63.62	127.23	8	9	10	15	9	34.4	949.10	7.7	2
CSTMH03020-DIN10-29X29	63.62	127.23	16	9	10	15	9	34.4	1967.00	7.7	2
CSTMH04010-DIN10-39X39	62.83	125.66	8	12	10	15	9	37.5	930.30	7.7	2
CSTMH04020-DIN10-39X39	62.83	125.66	16	12	10	15	9	37.5	1935.60	7.7	2
CSTMH05010-DIN10-49X39	62.83	125.66	8	12	14	20	13	30.1	945.00	11.7	3
CSTMH05020-DIN10-49X39	62.83	125.66	16	12	14	20	13	30.1	1950.30	11.7	3
CSTMH06010-DIN10-59X49	63.62	127.23	8	16	18	26	17	31.4	955.00	15.7	3
CSTMH06020-DIN10-59X49	63.62	127.23	16	16	18	26	17	31.4	1973.00	15.7	3

GET THE RIGHT RACK FOR YOUR AXIS

Tell us the module, length and accuracy grade you need — we'll confirm availability and lead time, and help you pair the rack with the right pinion.

CONTACT US

WEB

kjkprecision.com

ALSO AVAILABLE

Helical Racks

Ground DIN 6 and milled DIN 10, 19°31'42" right-hand helix. Ask for the helical racks catalogue.