

PRECISION LINEAR MOTION

Gear rack & pinion catalog

Helical and straight • Module 1.5–10 • DIN quality 5–10



344

standard racks

143

pinions

Q5-Q10

DIN quality

M1.5-M10

modules

1-2 days

quote turnaround

Precision racks. Complete systems.

RackPro supplies helical and straight gear racks from module 1.5 to 10 in six grades, from ground DIN quality 5 racks for high-precision machine tools to milled racks for handling and lifting axes. The range includes 344 standard racks, 143 pinions and installation gauges.

RackPro is a brand of Potesta & Company in Hudson, Ohio, alongside SlewPro slewing rings and drives, SlimPro thin section bearings and Rhino Gear custom gears. Our engineers help size the drive, choose the grade and cross the rack you use today.

Inside this catalog

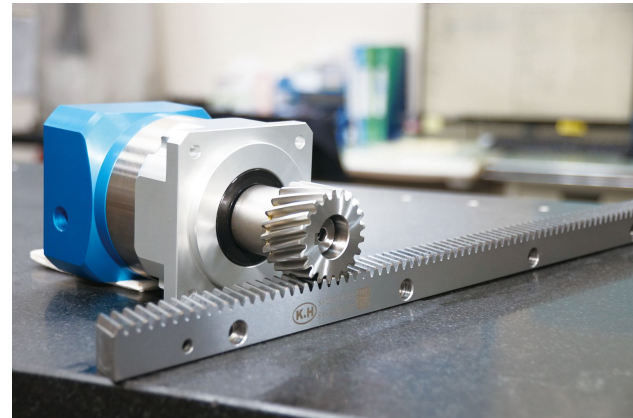
Grades & part numbers	3
Design & installation	5
Helical racks	6
Straight racks	12
Pitch accuracy	18
Pinions	20
Installation gauges	25

ENGINEERING SUPPORT

19°31'42" right-hand helical racks and straight racks, with a 20° pressure angle.

Nominal lengths of 500, 1000, 1500 and 2000 mm; ends cut for continuous mounting.

Send a RackPro or competitor part number, or your axis requirements. Quotes in 1-2 business days.



SELECTION

Choosing a grade

Rack quality follows DIN 3962/3967: the lower the number, the more accurate the rack. Pick the grade from the positioning accuracy and duty your axis needs.

Grade	RackPro finish	Total pitch error (µm / 1000 mm)	Tooth thickness tol. (µm)	Typical applications
Q5	Ground (G)	±25	-22	High precision machine tools with electrical preload; Machine tools, lifting axis, multiple pinion contact
Q6	Ground (G)	±35	-36	Wood, plastic, composite, aluminium working machines; Machine tools, integratable racks, water cutting machines, tube bending systems, plasma cutting machines, laser cutting machines
Q7	Ground (G)	±45	-47	Wood working machines, Linear axis with high requirement for a smooth running; Robots
Q8	Milled, Q&T (MQ)	±60	-95	Portals, handling linear axis; Linear axis
Q9	Milled, soft (MS)	±90	-109	Linear axis with low load feed units for adjustment
Q10	Milled, ind. hardened (MH) / soft (MS)	±200	-109	Lifting axis, Handling, welding robots

Finishes

Code	Finish	Description	Grades
G	Ground	Teeth and surfaces ground; teeth induction hardened HRC 50-55	Q5 · Q6 · Q7
MH	Milled, induction hardened	Milled teeth, induction hardened HRC 50-55	Q10
MQ	Milled, quenched & tempered	Milled teeth, quenched and tempered	Q8
MS	Milled, soft	Milled teeth, not heat treated	Q9 · Q10

All standard racks are C45 carbon steel. 42CrMo4, stainless steel and aluminum racks are available on request.

PART NUMBERS

How the part number is built

Racks: **RP-[type]-[finish]-M[module]-Q[grade]-[length]** e.g. **RP-HR-G-M2-Q6-1000** = helical rack, ground, module 2, DIN quality 6, nominal 1000 mm.

Pinions: **RP-[type]-[finish]-M[module]-Z[teeth]-B[bore]** e.g. **RP-HP-G-M2-Z20-B20** = helical pinion, ground, module 2, 20 teeth, 20 mm bore. Flanged pinions: **RP-HFP-[A|B|C]-M[module]-Z[teeth]**. Gauges: **RP-GAUGE-[H|S]-M[module]**.

Segment	Codes
Type	HR = helical rack · SR = straight rack · HP / SP = helical / straight pinion · HFP = flanged helical pinion
Finish	G = ground, induction hardened · MH = milled, induction hardened · MQ = milled, quenched & tempered · MS = milled, soft (racks) · M = milled C45 (pinions)
Module	M1.5, M2, M3, M4, M5, M6, M8, M10
Grade	Q5 to Q10 (DIN 3962/3967)
Length	0500 · 1000 · 1500 · 2000 (nominal mm; racks end on a full tooth — actual length in the tables)

Already using another brand?

Cross Atlanta, Güdel, KHK, GAM and Wittenstein rack part numbers at www.slewpro.com/crossovers/gear-racks. Every cross is confirmed by our engineers before we quote.

ENGINEERING

Rack and pinion basics

Module (m)	Tooth size: pitch diameter ÷ number of teeth. Rack and pinion must have the same module.
Tooth pitch (Pt)	Distance from one tooth to the next along the rack: $\pi \times m$ for straight racks, $\pi \times m \div \cos(\text{helix angle})$ for helical racks.
Pressure angle	Angle of the tooth flank; 20° on all RackPro racks and pinions.
Helix angle	Helical racks use 19°31'42", right hand. Mating pinions are left hand at the same angle.
Mounting distance	Pinion pitch radius + rack pitch-line height. Set it so the teeth mesh with correct backlash.
Total pitch error	Accumulated tooth-position error over the rack length; the key figure for positioning accuracy.

Installing racks end to end

- Fasten the first rack to the machine base, end to end with the next, screws snug but not tight.
- Place the installation gauge (opposite-tooth gauge) across the joint so it engages the teeth of both racks; pull the joint tight against the gauge to set the pitch across the joint.
- Tighten the screws in sequence, then drill and fit the dowel pins. Repeat for each joint.
- Check alignment with a pinion: the contact pattern should run evenly across the face. Uneven contact means the pinion axis is not parallel to the rack or the mounting distance is wrong.

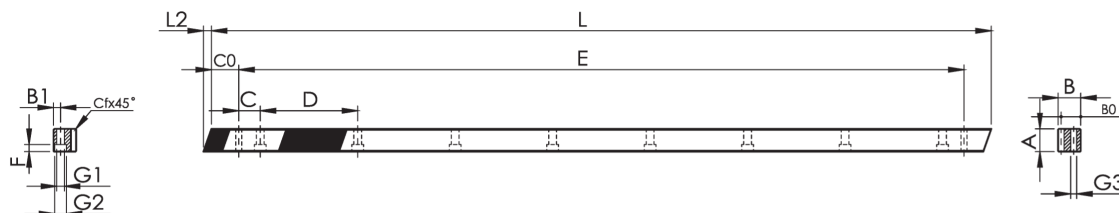
Feed force and sizing

Allowable feed force depends on module, grade, pinion and duty cycle. Send us the moved mass, acceleration, speed and duty and we will size the rack, pinion and gearbox. When several pinions engage or the teeth run near their limit, check the mounting screws separately.

HELICAL RACKS

Helical rack — ground, DIN quality 5

Grade	DIN quality 5
Finish	Ground teeth and surfaces
Heat treatment	Teeth induction hardened, HRC 50-55
Material	C45 carbon steel
Tooth	Helical, 19°31'42" right hand, 20° pressure angle



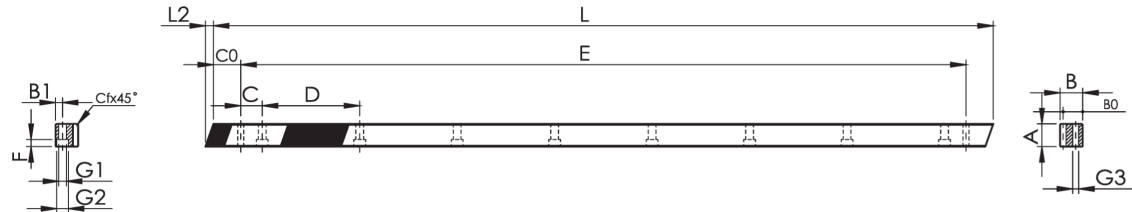
RackPro part no.	M	L	L2	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-HR-G-M1.5-Q5-0500	1.5	500	6	5.0000	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7	1.3
RP-HR-G-M1.5-Q5-1000	1.5	1000	6	5.0000	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7	2.6
RP-HR-G-M2-Q5-0500	2	500	8.5	6.6666	75	24	24	22.0	62.50	125	4	8	7	11.0	7	31.7	436.6	5.7	2.1
RP-HR-G-M2-Q5-1000	2	1000	8.5	6.6666	150	24	24	22.0	62.50	125	8	8	7	11.0	7	31.7	936.6	5.7	4.1
RP-HR-G-M2-Q5-1500	2	1500	8.5	6.6666	225	24	24	22.0	62.50	125	12	8	7	11.0	7	31.7	1436.6	5.7	6.1
RP-HR-G-M2-Q5-2000	2	2000	8.5	6.6666	300	24	24	22.0	62.50	125	16	8	7	11.0	7	31.7	1936.6	5.7	8.1
RP-HR-G-M3-Q5-0500	3	500	10.3	10.0000	50	29	29	26.0	62.50	125	4	9	10	15.0	9	35.0	430.0	7.7	2.9
RP-HR-G-M3-Q5-1000	3	1000	10.3	10.0000	100	29	29	26.0	62.50	125	8	9	10	15.0	9	35.0	930.0	7.7	5.7
RP-HR-G-M3-Q5-1500	3	1500	10.3	10.0000	150	29	29	26.0	62.50	125	12	9	10	15.0	9	35.0	1430.0	7.7	8.5
RP-HR-G-M3-Q5-2000	3	2000	10.3	10.0000	200	29	29	26.0	62.50	125	16	9	10	15.0	9	35.0	1930.0	7.7	11.4
RP-HR-G-M4-Q5-0500	4	506.67	13.8	13.3333	38	39	39	35.0	62.50	125	4	12	10	15.0	9	33.3	433.4	7.7	5.3
RP-HR-G-M4-Q5-1000	4	1000	13.8	13.3333	75	39	39	35.0	62.50	125	8	12	10	15.0	9	33.3	933.4	7.7	10.4
RP-HR-G-M4-Q5-1500	4	1506.67	13.8	13.3333	113	39	39	35.0	62.50	125	12	12	10	15.0	9	33.3	1440.1	11.7	15.7
RP-HR-G-M4-Q5-2000	4	2000	13.8	13.3333	150	39	39	35.0	62.50	125	16	12	10	15.0	9	33.3	1933.4	11.7	20.8
RP-HR-G-M5-Q5-0500	5	500	17.4	16.6666	30	49	39	34.0	62.50	125	4	12	14	20.0	13	37.5	425.0	11.7	6.1
RP-HR-G-M5-Q5-1000	5	1000	17.4	16.6666	60	49	39	34.0	62.50	125	8	12	14	20.0	13	37.5	925.0	11.7	12.3
RP-HR-G-M6-Q5-0500	6	500	20.9	20.0000	25	59	49	43.0	62.50	125	4	16	18	26.0	17	37.5	425.0	15.7	9.1
RP-HR-G-M6-Q5-1000	6	1000	20.9	20.0000	50	59	49	43.0	62.50	125	8	16	18	26.0	17	37.5	925.0	15.7	18.4
RP-HR-G-M8-Q5-0500	8	500	28	26.6667	18	79	79	71.0	60.00	120	4	25	22	33.0	21	120.0	240.0	19.7	20.0
RP-HR-G-M8-Q5-1000	8	1000	28	26.6667	36	79	79	71.0	60.00	120	8	25	22	33.0	21	120.0	720.0	19.7	40.2
RP-HR-G-M10-Q5-0500	10	500	35.11	33.3333	15	99	99	89.0	62.50	125	4	32	33	48.0	32	125.0	250.0	19.7	35.0
RP-HR-G-M10-Q5-1000	10	1000	35.11	33.3333	30	99	99	89.0	62.50	125	8	32	33	48.0	32	125.0	750.0	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

HELICAL RACKS

Helical rack — ground, DIN quality 6

Grade	DIN quality 6
Finish	Ground teeth and surfaces
Heat treatment	Teeth induction hardened, HRC 50-55
Material	C45 carbon steel
Tooth	Helical, 19°31'42" right hand, 20° pressure angle



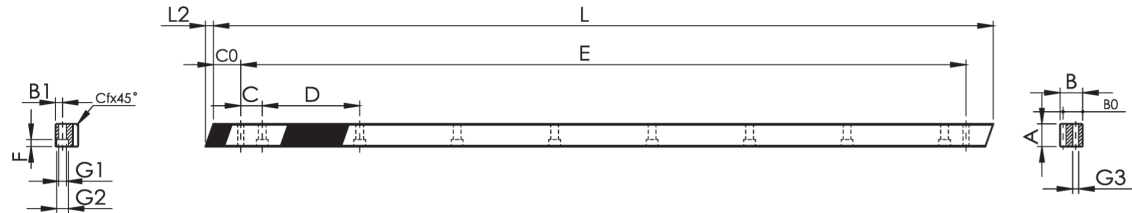
RackPro part no.	M	L	L2	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-HR-G-M1.5-Q6-0500	1.5	500	6	5.0000	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7	1.3
RP-HR-G-M1.5-Q6-1000	1.5	1000	6	5.0000	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7	2.6
RP-HR-G-M1.5-Q6-1500	1.5	1500	6	5.0000	300	17	17	15.5	62.50	125	12	8	6	9.5	7	31.7	1436.6	5.7	3.8
RP-HR-G-M1.5-Q6-2000	1.5	2000	6	5.0000	400	17	17	15.5	62.50	125	16	8	6	9.5	7	31.7	1936.6	5.7	5.4
RP-HR-G-M2-Q6-0500	2	500	8.5	6.6666	75	24	24	22.0	62.50	125	4	8	7	11.0	7	31.7	436.6	5.7	2.1
RP-HR-G-M2-Q6-1000	2	1000	8.5	6.6666	150	24	24	22.0	62.50	125	8	8	7	11.0	7	31.7	936.6	5.7	4.1
RP-HR-G-M2-Q6-1500	2	1500	8.5	6.6666	225	24	24	22.0	62.50	125	12	8	7	11.0	7	31.7	1436.6	5.7	6.1
RP-HR-G-M2-Q6-2000	2	2000	8.5	6.6666	300	24	24	22.0	62.50	125	16	8	7	11.0	7	31.7	1936.6	5.7	8.1
RP-HR-G-M3-Q6-0500	3	500	10.3	10.0000	50	29	29	26.0	62.50	125	4	9	10	15.0	9	35.0	430.0	7.7	2.9
RP-HR-G-M3-Q6-1000	3	1000	10.3	10.0000	100	29	29	26.0	62.50	125	8	9	10	15.0	9	35.0	930.0	7.7	5.7
RP-HR-G-M3-Q6-1500	3	1500	10.3	10.0000	150	29	29	26.0	62.50	125	12	9	10	15.0	9	35.0	1430.0	7.7	8.5
RP-HR-G-M3-Q6-2000	3	2000	10.3	10.0000	200	29	29	26.0	62.50	125	16	9	10	15.0	9	35.0	1930.0	7.7	11.4
RP-HR-G-M4-Q6-0500	4	506.67	13.8	13.3333	38	39	39	35.0	62.50	125	4	12	10	15.0	9	33.3	433.4	7.7	5.4
RP-HR-G-M4-Q6-1000	4	1000	13.8	13.3333	75	39	39	35.0	62.50	125	8	12	10	15.0	9	33.3	933.4	7.7	10.4
RP-HR-G-M4-Q6-1500	4	1506.67	13.8	13.3333	113	39	39	35.0	62.50	125	12	12	10	15.0	9	33.3	1440.1	11.7	15.7
RP-HR-G-M4-Q6-2000	4	2000	13.8	13.3333	150	39	39	35.0	62.50	125	16	12	10	15.0	9	33.3	1933.4	11.7	20.8
RP-HR-G-M5-Q6-0500	5	500	17.4	16.6666	30	49	39	34.0	62.50	125	4	12	14	20.0	13	37.5	425.0	11.7	6.1
RP-HR-G-M5-Q6-1000	5	1000	17.4	16.6666	60	49	39	34.0	62.50	125	8	12	14	20.0	13	37.5	925.0	11.7	12.3
RP-HR-G-M5-Q6-1500	5	1500	17.4	16.6666	90	49	39	34.0	62.50	125	12	12	14	20.0	13	37.5	1425.0	11.7	18.5
RP-HR-G-M5-Q6-2000	5	2000	17.4	16.6666	120	49	39	34.0	62.50	125	16	12	14	20.0	13	37.5	1925.0	11.7	24.7
RP-HR-G-M6-Q6-0500	6	500	20.9	20.0000	25	59	49	43.0	62.50	125	4	16	18	26.0	17	37.5	425.0	15.7	9.1
RP-HR-G-M6-Q6-1000	6	1000	20.9	20.0000	50	59	49	43.0	62.50	125	8	16	18	26.0	17	37.5	925.0	15.7	18.4
RP-HR-G-M6-Q6-1500	6	1500	20.9	20.0000	75	59	49	43.0	62.50	125	12	16	18	26.0	17	37.5	1425.0	15.7	27.6
RP-HR-G-M6-Q6-2000	6	2000	20.9	20.0000	100	59	49	43.0	62.50	125	16	16	18	26.0	17	37.5	1925.0	15.7	36.9
RP-HR-G-M8-Q6-0500	8	480	28	26.6667	18	79	79	71.0	60.00	120	4	25	22	33.0	21	120.0	240.0	19.7	20.0
RP-HR-G-M8-Q6-1000	8	960	28	26.6667	36	79	79	71.0	60.00	120	8	25	22	33.0	21	120.0	720.0	19.7	40.2
RP-HR-G-M8-Q6-1500	8	1440	28	26.6667	54	79	79	71.0	60.00	120	12	25	22	33.0	21	120.0	1200.0	19.7	59.6
RP-HR-G-M8-Q6-2000	8	1920	28	26.6667	72	79	79	71.0	60.00	120	16	25	22	33.0	21	120.0	1680.0	19.7	80.8
RP-HR-G-M10-Q6-0500	10	500	35.11	33.3333	15	99	99	89.0	62.50	125	4	32	33	48.0	32	125.0	250.0	19.7	35.0
RP-HR-G-M10-Q6-1000	10	1000	35.11	33.3333	30	99	99	89.0	62.50	125	8	32	33	48.0	32	125.0	750.0	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

HELICAL RACKS

Helical rack — ground, DIN quality 7

Grade	DIN quality 7
Finish	Ground teeth and surfaces
Heat treatment	Teeth induction hardened, HRC 50-55
Material	C45 carbon steel
Tooth	Helical, 19°31'42" right hand, 20° pressure angle



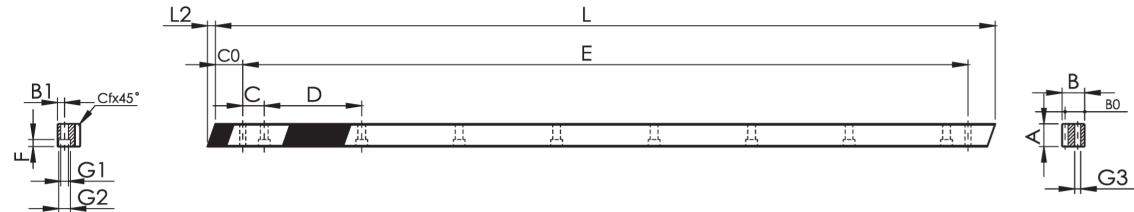
RackPro part no.	M	L	L2	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-HR-G-M1.5-Q7-0500	1.5	500	6	5.0000	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7	1.3
RP-HR-G-M1.5-Q7-1000	1.5	1000	6	5.0000	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7	2.6
RP-HR-G-M1.5-Q7-1500	1.5	1500	6	5.0000	300	17	17	15.5	62.50	125	12	8	6	9.5	7	31.7	1436.6	5.7	3.8
RP-HR-G-M1.5-Q7-2000	1.5	2000	6	5.0000	400	17	17	15.5	62.50	125	16	8	6	9.5	7	31.7	1936.6	5.7	5.4
RP-HR-G-M2-Q7-0500	2	500	8.5	6.6666	75	24	24	22.0	62.50	125	4	8	7	11.0	7	31.7	436.6	5.7	2.1
RP-HR-G-M2-Q7-1000	2	1000	8.5	6.6666	150	24	24	22.0	62.50	125	8	8	7	11.0	7	31.7	936.6	5.7	4.1
RP-HR-G-M2-Q7-1500	2	1500	8.5	6.6666	225	24	24	22.0	62.50	125	12	8	7	11.0	7	31.7	1436.6	5.7	6.1
RP-HR-G-M2-Q7-2000	2	2000	8.5	6.6666	300	24	24	22.0	62.50	125	16	8	7	11.0	7	31.7	1936.6	5.7	8.1
RP-HR-G-M3-Q7-0500	3	500	10.3	10.0000	50	29	29	26.0	62.50	125	4	9	10	15.0	9	35.0	430.0	7.7	2.9
RP-HR-G-M3-Q7-1000	3	1000	10.3	10.0000	100	29	29	26.0	62.50	125	8	9	10	15.0	9	35.0	930.0	7.7	5.8
RP-HR-G-M3-Q7-1500	3	1500	10.3	10.0000	150	29	29	26.0	62.50	125	12	9	10	15.0	9	35.0	1430.0	7.7	8.5
RP-HR-G-M3-Q7-2000	3	2000	10.3	10.0000	200	29	29	26.0	62.50	125	16	9	10	15.0	9	35.0	1930.0	7.7	11.4
RP-HR-G-M4-Q7-0500	4	506.67	13.8	13.3333	38	39	39	35.0	62.50	125	4	12	10	15.0	9	33.3	433.4	7.7	5.4
RP-HR-G-M4-Q7-1000	4	1000	13.8	13.3333	75	39	39	35.0	62.50	125	8	12	10	15.0	9	33.3	933.4	7.7	10.4
RP-HR-G-M4-Q7-1500	4	1506.67	13.8	13.3333	113	39	39	35.0	62.50	125	12	12	10	15.0	9	33.3	1440.1	11.7	15.7
RP-HR-G-M4-Q7-2000	4	2000	13.8	13.3333	150	39	39	35.0	62.50	125	16	12	10	15.0	9	33.3	1933.4	11.7	20.8
RP-HR-G-M5-Q7-0500	5	500	17.4	16.6666	30	49	39	34.0	62.50	125	4	12	14	20.0	13	37.5	425.0	11.7	6.1
RP-HR-G-M5-Q7-1000	5	1000	17.4	16.6666	60	49	39	34.0	62.50	125	8	12	14	20.0	13	37.5	925.0	11.7	12.3
RP-HR-G-M5-Q7-1500	5	1500	17.4	16.6666	90	49	39	34.0	62.50	125	12	12	14	20.0	13	37.5	1425.0	11.7	18.5
RP-HR-G-M5-Q7-2000	5	2000	17.4	16.6666	120	49	39	34.0	62.50	125	16	12	14	20.0	13	37.5	1925.0	11.7	24.7
RP-HR-G-M6-Q7-0500	6	500	20.9	20.0000	25	59	49	43.0	62.50	125	4	16	18	26.0	17	37.5	425.0	15.7	9.1
RP-HR-G-M6-Q7-1000	6	1000	20.9	20.0000	50	59	49	43.0	62.50	125	8	16	18	26.0	17	37.5	925.0	15.7	18.4
RP-HR-G-M6-Q7-1500	6	1500	20.9	20.0000	75	59	49	43.0	62.50	125	12	16	18	26.0	17	37.5	1425.0	15.7	27.6
RP-HR-G-M6-Q7-2000	6	2000	20.9	20.0000	100	59	49	43.0	62.50	125	16	16	18	26.0	17	37.5	1925.0	15.7	36.9
RP-HR-G-M8-Q7-0500	8	480	28	26.6667	18	79	79	71.0	60.00	120	4	25	22	33.0	21	120.0	240.0	19.7	20.0
RP-HR-G-M8-Q7-1000	8	960	28	26.6667	36	79	79	71.0	60.00	120	8	25	22	33.0	21	120.0	720.0	19.7	40.2
RP-HR-G-M8-Q7-1500	8	1440	28	26.6667	54	79	79	71.0	60.00	120	12	25	22	33.0	21	120.0	1200.0	19.7	59.6
RP-HR-G-M8-Q7-2000	8	1920	28	26.6667	72	79	79	71.0	60.00	120	16	25	22	33.0	21	120.0	1680.0	19.7	80.8
RP-HR-G-M10-Q7-0500	10	500	35.11	33.3333	15	99	99	89.0	62.50	125	4	32	33	48.0	32	125.0	250.0	19.7	35.0
RP-HR-G-M10-Q7-1000	10	1000	35.11	33.3333	30	99	99	89.0	62.50	125	8	32	33	48.0	32	125.0	750.0	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

HELICAL RACKS

Helical rack — milled, quenched & tempered, DIN quality 8

Grade	DIN quality 8
Finish	Milled, quenched & tempered
Heat treatment	Quenched & tempered
Material	C45 carbon steel
Tooth	Helical, 19°31'42" right hand, 20° pressure angle



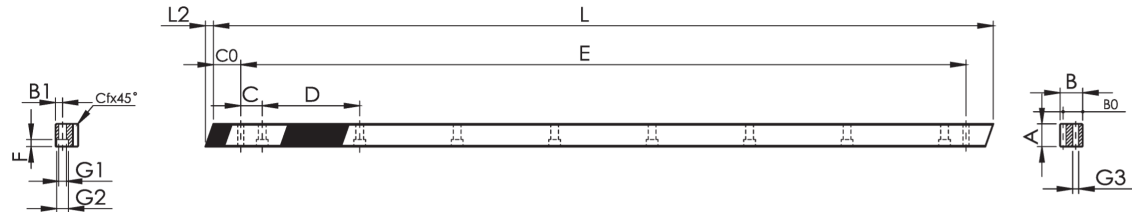
RackPro part no.	M	L	L2	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-HR-MQ-M1.5-Q8-0500	1.5	500	6	5.0000	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7	1.3
RP-HR-MQ-M1.5-Q8-1000	1.5	1000	6	5.0000	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7	2.6
RP-HR-MQ-M1.5-Q8-1500	1.5	1500	6	5.0000	300	17	17	15.5	62.50	125	12	8	6	9.5	7	31.7	1436.6	5.7	3.8
RP-HR-MQ-M1.5-Q8-2000	1.5	2000	6	5.0000	400	17	17	15.5	62.50	125	16	8	6	9.5	7	31.7	1936.6	5.7	5.4
RP-HR-MQ-M2-Q8-0500	2	500	8.5	6.6666	75	25	24	22.0	62.50	125	4	8	7	11.0	7	31.7	436.6	5.7	2.1
RP-HR-MQ-M2-Q8-1000	2	1000	8.5	6.6666	150	25	24	22.0	62.50	125	8	8	7	11.0	7	31.7	936.6	5.7	4.1
RP-HR-MQ-M2-Q8-1500	2	1500	8.5	6.6666	225	25	24	22.0	62.50	125	12	8	7	11.0	7	31.7	1436.6	5.7	6.1
RP-HR-MQ-M2-Q8-2000	2	2000	8.5	6.6666	300	25	24	22.0	62.50	125	16	8	7	11.0	7	31.7	1936.6	5.7	8.1
RP-HR-MQ-M3-Q8-0500	3	500	10.3	10.0000	50	30	29	26.0	62.50	125	4	9	10	15.0	9	35.0	430.0	7.7	2.9
RP-HR-MQ-M3-Q8-1000	3	1000	10.3	10.0000	100	30	29	26.0	62.50	125	8	9	10	15.0	9	35.0	930.0	7.7	5.8
RP-HR-MQ-M3-Q8-1500	3	1500	10.3	10.0000	150	30	29	26.0	62.50	125	12	9	10	15.0	9	35.0	1430.0	7.7	8.5
RP-HR-MQ-M3-Q8-2000	3	2000	10.3	10.0000	200	30	29	26.0	62.50	125	16	9	10	15.0	9	35.0	1930.0	7.7	11.4
RP-HR-MQ-M4-Q8-0500	4	506.67	13.8	13.3333	38	40	39	35.0	62.50	125	4	12	10	15.0	9	33.3	433.4	7.7	5.4
RP-HR-MQ-M4-Q8-1000	4	1000	13.8	13.3333	75	40	39	35.0	62.50	125	8	12	10	15.0	9	33.3	933.4	7.7	10.4
RP-HR-MQ-M4-Q8-1500	4	1506.67	13.8	13.3333	113	40	39	35.0	62.50	125	12	12	10	15.0	9	33.3	1440.1	7.7	15.7
RP-HR-MQ-M4-Q8-2000	4	2000	13.8	13.3333	150	40	39	35.0	62.50	125	16	12	10	15.0	9	33.3	1933.4	7.7	20.8
RP-HR-MQ-M5-Q8-0500	5	500	17.4	16.6666	30	50	39	34.0	62.50	125	4	12	14	20.0	13	37.5	425.0	11.7	6.1
RP-HR-MQ-M5-Q8-1000	5	1000	17.4	16.6666	60	50	39	34.0	62.50	125	8	12	14	20.0	13	37.5	925.0	11.7	12.3
RP-HR-MQ-M5-Q8-1500	5	1500	17.4	16.6666	90	50	39	34.0	62.50	125	12	12	14	20.0	13	37.5	1425.0	11.7	18.5
RP-HR-MQ-M5-Q8-2000	5	2000	17.4	16.6666	120	50	39	34.0	62.50	125	16	12	14	20.0	13	37.5	1925.0	11.7	24.7
RP-HR-MQ-M6-Q8-0500	6	500	20.9	20.0000	25	59	49	43.0	62.50	125	4	16	18	26.0	17	37.5	425.0	15.7	9.1
RP-HR-MQ-M6-Q8-1000	6	1000	20.9	20.0000	50	59	49	43.0	62.50	125	8	16	18	26.0	17	37.5	925.0	15.7	18.4
RP-HR-MQ-M6-Q8-1500	6	1500	20.9	20.0000	75	59	49	43.0	62.50	125	12	16	18	26.0	17	37.5	1425.0	15.7	27.6
RP-HR-MQ-M6-Q8-2000	6	2000	20.9	20.0000	100	59	49	43.0	62.50	125	16	16	18	26.0	17	37.5	1925.0	15.7	36.9
RP-HR-MQ-M8-Q8-0500	8	480	28	26.6667	18	79	79	71.0	60.00	120	4	25	22	33.0	21	120.0	240.0	19.7	20.0
RP-HR-MQ-M8-Q8-1000	8	960	28	26.6667	36	79	79	71.0	60.00	120	8	25	22	33.0	21	120.0	720.0	19.7	40.2
RP-HR-MQ-M8-Q8-1500	8	1440	28	26.6667	54	79	79	71.0	60.00	120	12	25	22	33.0	21	120.0	1200.0	19.7	59.6
RP-HR-MQ-M8-Q8-2000	8	1920	28	26.6667	72	79	79	71.0	60.00	120	16	25	22	33.0	21	120.0	1680.0	19.7	80.8
RP-HR-MQ-M10-Q8-0500	10	500	35.11	33.3333	15	99	99	89.0	62.50	125	4	32	33	48.0	32	125.0	250.0	19.7	35.0
RP-HR-MQ-M10-Q8-1000	10	1000	35.11	33.3333	30	99	99	89.0	62.50	125	8	32	33	48.0	32	125.0	750.0	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

HELICAL RACKS

Helical rack — milled, soft, DIN quality 9

Grade	DIN quality 9
Finish	Milled, soft
Heat treatment	Not heat treated
Material	C45 carbon steel
Tooth	Helical, 19°31'42" right hand, 20° pressure angle



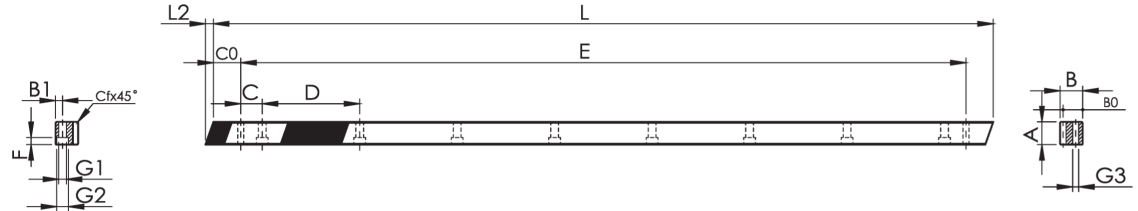
RackPro part no.	M	L	L2	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-HR-MS-M1.5-Q9-0500	1.5	500	6	5.0000	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7	1.4
RP-HR-MS-M1.5-Q9-1000	1.5	1000	6	5.0000	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7	2.7
RP-HR-MS-M1.5-Q9-1500	1.5	1500	6	5.0000	300	17	17	15.5	62.50	125	12	8	6	9.5	7	31.7	1436.6	5.7	4.0
RP-HR-MS-M1.5-Q9-2000	1.5	2000	6	5.0000	400	17	17	15.5	62.50	125	16	8	6	9.5	7	31.7	1936.6	5.7	5.4
RP-HR-MS-M2-Q9-0500	2	500	8.5	6.6666	75	24	24	22.0	62.50	125	4	8	7	11.0	7	31.7	436.6	5.7	2.1
RP-HR-MS-M2-Q9-1000	2	1000	8.5	6.6666	150	24	24	22.0	62.50	125	8	8	7	11.0	7	31.7	936.6	5.7	4.2
RP-HR-MS-M2-Q9-1500	2	1500	8.5	6.6666	225	24	24	22.0	62.50	125	12	8	7	11.0	7	31.7	1436.6	5.7	6.3
RP-HR-MS-M2-Q9-2000	2	2000	8.5	6.6666	300	24	24	22.0	62.50	125	16	8	7	11.0	7	31.7	1936.6	5.7	8.4
RP-HR-MS-M3-Q9-0500	3	500	10.3	10.0000	50	29	29	26.0	62.50	125	4	9	10	15.0	9	35.0	430.0	7.7	3.0
RP-HR-MS-M3-Q9-1000	3	1000	10.3	10.0000	100	29	29	26.0	62.50	125	8	9	10	15.0	9	35.0	930.0	7.7	5.9
RP-HR-MS-M3-Q9-1500	3	1500	10.3	10.0000	150	29	29	26.0	62.50	125	12	9	10	15.0	9	35.0	1430.0	7.7	8.8
RP-HR-MS-M3-Q9-2000	3	2000	10.3	10.0000	200	29	29	26.0	62.50	125	16	9	10	15.0	9	35.0	1930.0	7.7	11.8
RP-HR-MS-M4-Q9-0500	4	506.67	13.8	13.3333	38	39	39	35.0	62.50	125	4	12	10	15.0	9	33.3	433.4	7.7	5.4
RP-HR-MS-M4-Q9-1000	4	1000	13.8	13.3333	75	39	39	35.0	62.50	125	8	12	10	15.0	9	33.3	933.4	7.7	10.7
RP-HR-MS-M4-Q9-1500	4	1506.67	13.8	13.3333	113	39	39	35.0	62.50	125	12	12	10	15.0	9	33.3	1440.1	7.7	16.1
RP-HR-MS-M4-Q9-2000	4	2000	13.8	13.3333	150	39	39	35.0	62.50	125	16	12	10	15.0	9	33.3	1933.4	7.7	21.3
RP-HR-MS-M5-Q9-0500	5	500	17.4	16.6666	30	49	39	34.0	62.50	125	4	12	14	20.0	13	37.5	425.0	11.7	6.3
RP-HR-MS-M5-Q9-1000	5	1000	17.4	16.6666	60	49	39	34.0	62.50	125	8	12	14	20.0	13	37.5	925.0	11.7	12.6
RP-HR-MS-M5-Q9-1500	5	1500	17.4	16.6666	90	49	39	34.0	62.50	125	12	12	14	20.0	13	37.5	1425.0	11.7	18.9
RP-HR-MS-M5-Q9-2000	5	2000	17.4	16.6666	120	49	39	34.0	62.50	125	16	12	14	20.0	13	37.5	1925.0	11.7	25.2
RP-HR-MS-M6-Q9-0500	6	500	20.9	20.0000	25	59	49	43.0	62.50	125	4	16	18	26.0	17	37.5	425.0	15.7	9.3
RP-HR-MS-M6-Q9-1000	6	1000	20.9	20.0000	50	59	49	43.0	62.50	125	8	16	18	26.0	17	37.5	925.0	15.7	18.7
RP-HR-MS-M6-Q9-1500	6	1500	20.9	20.0000	75	59	49	43.0	62.50	125	12	16	18	26.0	17	37.5	1425.0	15.7	28.1
RP-HR-MS-M6-Q9-2000	6	2000	20.9	20.0000	100	59	49	43.0	62.50	125	16	16	18	26.0	17	37.5	1925.0	15.7	37.5
RP-HR-MS-M8-Q9-0500	8	480	28	26.6667	18	79	79	71.0	60.00	120	4	25	22	33.0	21	120.0	240.0	19.7	20.0
RP-HR-MS-M8-Q9-1000	8	960	28	26.6667	36	79	79	71.0	60.00	120	8	25	22	33.0	21	120.0	720.0	19.7	40.2
RP-HR-MS-M8-Q9-1500	8	1440	28	26.6667	54	79	79	71.0	60.00	120	12	25	22	33.0	21	120.0	1200.0	19.7	59.6
RP-HR-MS-M8-Q9-2000	8	1920	28	26.6667	72	79	79	71.0	60.00	120	16	25	22	33.0	21	120.0	1680.0	19.7	80.8
RP-HR-MS-M10-Q9-0500	10	500	35.11	33.3333	15	99	99	89.0	62.50	125	4	32	33	48.0	32	125.0	250.0	19.7	35.0
RP-HR-MS-M10-Q9-1000	10	1000	35.11	33.3333	30	99	99	89.0	62.50	125	8	32	33	48.0	32	125.0	750.0	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

HELICAL RACKS

Helical rack — milled, induction hardened, DIN quality 10

Grade	DIN quality 10
Finish	Milled, induction hardened
Heat treatment	Teeth induction hardened, HRC 50-55
Material	C45 carbon steel
Tooth	Helical, 19°31'42" right hand, 20° pressure angle



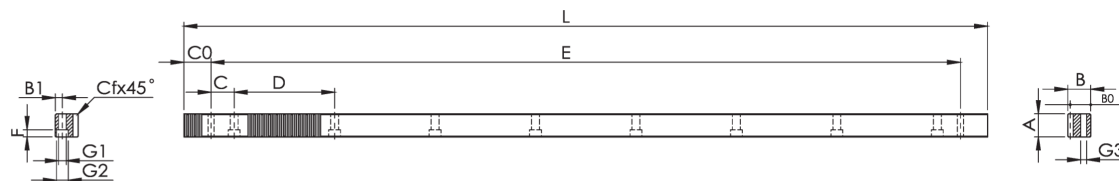
RackPro part no.	M	L	L2	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-HR-MH-M1.5-Q10-0500	1.5	500	6	5.0000	100	17	17	15.5	62.50	125	4	8	6	9.5	7	31.7	436.6	5.7	1.4
RP-HR-MH-M1.5-Q10-1000	1.5	1000	6	5.0000	200	17	17	15.5	62.50	125	8	8	6	9.5	7	31.7	936.6	5.7	2.8
RP-HR-MH-M1.5-Q10-1500	1.5	1500	6	5.0000	300	17	17	15.5	62.50	125	12	8	6	9.5	7	31.7	1436.6	5.7	4.3
RP-HR-MH-M1.5-Q10-2000	1.5	2000	6	5.0000	400	17	17	15.5	62.50	125	16	8	6	9.5	7	31.7	1936.6	5.7	5.4
RP-HR-MH-M2-Q10-0500	2	500	8.5	6.6666	75	24	24	22.0	62.50	125	4	8	7	11.0	7	31.7	436.6	5.7	2.2
RP-HR-MH-M2-Q10-1000	2	1000	8.5	6.6666	150	24	24	22.0	62.50	125	8	8	7	11.0	7	31.7	936.6	5.7	4.4
RP-HR-MH-M2-Q10-1500	2	1500	8.5	6.6666	225	24	24	22.0	62.50	125	12	8	7	11.0	7	31.7	1436.6	5.7	6.6
RP-HR-MH-M2-Q10-2000	2	2000	8.5	6.6666	300	24	24	22.0	62.50	125	16	8	7	11.0	7	31.7	1936.6	5.7	8.8
RP-HR-MH-M3-Q10-0500	3	500	10.3	10.0000	50	29	29	26.0	62.50	125	4	9	10	15.0	9	35.0	430.0	7.7	3.1
RP-HR-MH-M3-Q10-1000	3	1000	10.3	10.0000	100	29	29	26.0	62.50	125	8	9	10	15.0	9	35.0	930.0	7.7	6.1
RP-HR-MH-M3-Q10-1500	3	1500	10.3	10.0000	150	29	29	26.0	62.50	125	12	9	10	15.0	9	35.0	1430.0	7.7	9.2
RP-HR-MH-M3-Q10-2000	3	2000	10.3	10.0000	200	29	29	26.0	62.50	125	16	9	10	15.0	9	35.0	1930.0	7.7	12.2
RP-HR-MH-M4-Q10-0500	4	506.67	13.8	13.3333	38	39	39	35.0	62.50	125	4	12	10	15.0	9	33.3	433.4	7.7	5.5
RP-HR-MH-M4-Q10-1000	4	1000	13.8	13.3333	75	39	39	35.0	62.50	125	8	12	10	15.0	9	33.3	933.4	7.7	11.0
RP-HR-MH-M4-Q10-1500	4	1506.67	13.8	13.3333	113	39	39	35.0	62.50	125	12	12	10	15.0	9	33.3	1440.1	7.7	16.1
RP-HR-MH-M4-Q10-2000	4	2000	13.8	13.3333	150	39	39	35.0	62.50	125	16	12	10	15.0	9	33.3	1933.4	7.7	22.0
RP-HR-MH-M5-Q10-0500	5	500	17.4	16.6666	30	49	39	34.0	62.50	125	4	12	14	20.0	13	37.5	425.0	11.7	6.5
RP-HR-MH-M5-Q10-1000	5	1000	17.4	16.6666	60	49	39	34.0	62.50	125	8	12	14	20.0	13	37.5	925.0	11.7	13.0
RP-HR-MH-M5-Q10-1500	5	1500	17.4	16.6666	90	49	39	34.0	62.50	125	12	12	14	20.0	13	37.5	1425.0	11.7	19.5
RP-HR-MH-M5-Q10-2000	5	2000	17.4	16.6666	120	49	39	34.0	62.50	125	16	12	14	20.0	13	37.5	1925.0	11.7	26.0
RP-HR-MH-M6-Q10-0500	6	500	20.9	20.0000	25	59	49	43.0	62.50	125	4	16	18	26.0	17	37.5	425.0	15.7	9.5
RP-HR-MH-M6-Q10-1000	6	1000	20.9	20.0000	50	59	49	43.0	62.50	125	8	16	18	26.0	17	37.5	925.0	15.7	19.2
RP-HR-MH-M6-Q10-1500	6	1500	20.9	20.0000	75	59	49	43.0	62.50	125	12	16	18	26.0	17	37.5	1425.0	15.7	28.7
RP-HR-MH-M6-Q10-2000	6	2000	20.9	20.0000	100	59	49	43.0	62.50	125	16	16	18	26.0	17	37.5	1925.0	15.7	38.5
RP-HR-MH-M8-Q10-0500	8	480	28	26.6667	18	79	79	71.0	60.00	120	4	25	22	33.0	21	120.0	240.0	19.7	20.0
RP-HR-MH-M8-Q10-1000	8	960	28	26.6667	36	79	79	71.0	60.00	120	8	25	22	33.0	21	120.0	720.0	19.7	40.2
RP-HR-MH-M8-Q10-1500	8	1440	28	26.6667	54	79	79	71.0	60.00	120	12	25	22	33.0	21	120.0	1200.0	19.7	59.6
RP-HR-MH-M8-Q10-2000	8	1920	28	26.6667	72	79	79	71.0	60.00	120	16	25	22	33.0	21	120.0	1680.0	19.7	80.8
RP-HR-MH-M10-Q10-0500	10	500	35.11	33.3333	15	99	99	89.0	62.50	125	4	32	33	48.0	32	125.0	250.0	19.7	35.0
RP-HR-MH-M10-Q10-1000	10	1000	35.11	33.3333	30	99	99	89.0	62.50	125	8	32	33	48.0	32	125.0	750.0	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

STRAIGHT RACKS

Straight rack — ground, DIN quality 5

Grade	DIN quality 5
Finish	Ground teeth and surfaces
Heat treatment	Teeth induction hardened, HRC 50–55
Material	C45 carbon steel
Tooth	Straight, 20° pressure angle



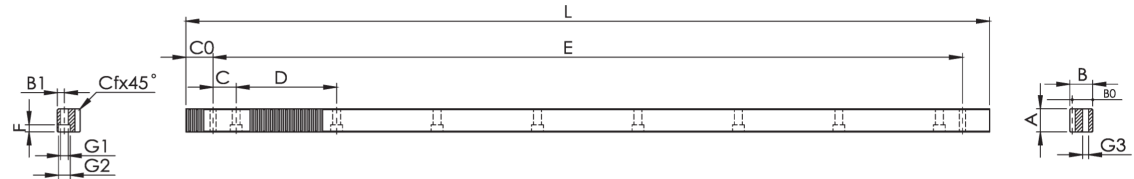
RackPro part no.	M	L	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-SR-G-M1.5-Q5-0500	1.5	499.51	4.7124	106	17	17	15.5	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.3
RP-SR-G-M1.5-Q5-1000	1.5	999.03	4.7124	212	17	17	15.5	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	2.6
RP-SR-G-M2-Q5-0500	2	502.64	6.2832	80	24	24	22.0	62.83	125.66	4	8	7	11.0	7	31.3	440.10	5.7	2.1
RP-SR-G-M2-Q5-1000	2	1005.28	6.2832	160	24	24	22.0	62.83	125.66	8	8	7	11.0	7	31.3	942.70	5.7	4.1
RP-SR-G-M2-Q5-1500	2	1507.97	6.2832	240	24	24	22.0	62.83	125.66	12	8	7	11.0	7	31.3	1445.40	5.7	6.1
RP-SR-G-M2-Q5-2000	2	2010.62	6.2832	320	24	24	22.0	62.83	125.66	16	8	7	11.0	7	31.3	1948.00	5.7	8.2
RP-SR-G-M3-Q5-0500	3	508.95	9.4248	54	29	29	26.0	63.62	127.23	4	9	10	15.0	9	34.4	440.10	7.7	2.9
RP-SR-G-M3-Q5-1000	3	1017.90	9.4248	108	29	29	26.0	63.62	127.23	8	9	10	15.0	9	34.4	949.10	7.7	5.8
RP-SR-G-M3-Q5-1500	3	1526.82	9.4248	162	29	29	26.0	63.62	127.23	12	9	10	15.0	9	34.4	1458.00	7.7	8.7
RP-SR-G-M3-Q5-2000	3	2035.75	9.4248	216	29	29	26.0	63.62	127.23	16	9	10	15.0	9	34.4	1967.00	7.7	11.6
RP-SR-G-M4-Q5-0500	4	502.64	12.5664	40	39	39	35.0	62.83	125.66	4	12	10	15.0	9	37.5	427.70	7.7	5.3
RP-SR-G-M4-Q5-1000	4	1005.28	12.5664	80	39	39	35.0	62.83	125.66	8	12	10	15.0	9	37.5	930.30	7.7	10.5
RP-SR-G-M4-Q5-1500	4	1507.90	12.5664	120	39	39	35.0	62.83	125.66	12	12	10	15.0	9	37.5	1432.90	7.7	15.7
RP-SR-G-M4-Q5-2000	4	2010.62	12.5664	160	39	39	35.0	62.83	125.66	16	12	10	15.0	9	37.5	1935.60	7.7	20.9
RP-SR-G-M5-Q5-0500	5	502.65	15.708	32	49	39	34.0	62.83	125.66	4	12	14	20.0	13	30.1	442.40	11.7	6.2
RP-SR-G-M5-Q5-1000	5	1005.31	15.708	64	49	39	34.0	62.83	125.66	8	12	14	20.0	13	30.1	945.00	11.7	12.4
RP-SR-G-M6-Q5-0500	6	508.95	18.8496	27	59	49	43.0	63.62	127.23	4	16	18	26.0	17	31.4	446.10	15.7	9.3
RP-SR-G-M6-Q5-1000	6	1017.90	18.8496	54	59	49	43.0	63.62	127.23	8	16	18	26.0	17	31.4	955.00	15.7	18.7
RP-SR-G-M8-Q5-0500	8	502.64	25.1328	20	79	79	71.0	62.83	125.66	4	25	22	33.0	21	26.6	449.50	19.7	21.3
RP-SR-G-M8-Q5-1000	8	1005.28	25.1328	40	79	79	71.0	62.83	125.66	8	25	22	33.0	21	26.6	952.00	19.7	42.5
RP-SR-G-M10-Q5-0500	10	502.65	31.4159	16	99	99	89.0	62.83	125.66	12	32	33	48.0	32	125.66	253.96	19.7	35.0
RP-SR-G-M10-Q5-1000	10	1005.31	31.4159	32	99	99	89.0	62.83	125.66	16	32	33	48.0	32	125.66	753.96	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

STRAIGHT RACKS

Straight rack — ground, DIN quality 6

Grade	DIN quality 6
Finish	Ground teeth and surfaces
Heat treatment	Teeth induction hardened, HRC 50–55
Material	C45 carbon steel
Tooth	Straight, 20° pressure angle



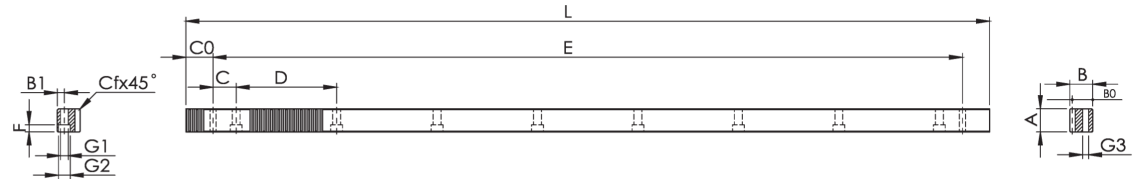
RackPro part no.	M	L	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-SR-G-M1.5-Q6-0500	1.5	499.51	4.7124	106	17	17	15.5	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.3
RP-SR-G-M1.5-Q6-1000	1.5	999.03	4.7124	212	17	17	15.5	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	2.6
RP-SR-G-M1.5-Q6-1500	1.5	1498.53	4.7124	318	17	17	15.5	62.44	124.88	12	8	6	9.5	7	29.0	1441.00	5.7	3.9
RP-SR-G-M1.5-Q6-2000	1.5	1998.05	4.7124	424	17	17	15.5	62.44	124.88	16	8	6	9.5	7	29.0	1941.00	5.7	5.4
RP-SR-G-M2-Q6-0500	2	502.64	6.2832	80	24	24	22.0	62.83	125.66	4	8	7	11.0	7	31.3	440.10	5.7	2.1
RP-SR-G-M2-Q6-1000	2	1005.28	6.2832	160	24	24	22.0	62.83	125.66	8	8	7	11.0	7	31.3	942.70	5.7	4.1
RP-SR-G-M2-Q6-1500	2	1507.97	6.2832	240	24	24	22.0	62.83	125.66	12	8	7	11.0	7	31.3	1445.40	5.7	6.1
RP-SR-G-M2-Q6-2000	2	2010.62	6.2832	320	24	24	22.0	62.83	125.66	16	8	7	11.0	7	31.3	1948.00	5.7	8.2
RP-SR-G-M3-Q6-0500	3	508.95	9.4248	54	29	29	26.0	63.62	127.23	4	9	10	15.0	9	34.4	440.10	7.7	2.9
RP-SR-G-M3-Q6-1000	3	1017.90	9.4248	108	29	29	26.0	63.62	127.23	8	9	10	15.0	9	34.4	949.10	7.7	5.8
RP-SR-G-M3-Q6-1500	3	1526.82	9.4248	162	29	29	26.0	63.62	127.23	12	9	10	15.0	9	34.4	1458.00	7.7	8.7
RP-SR-G-M3-Q6-2000	3	2035.75	9.4248	216	29	29	26.0	63.62	127.23	16	9	10	15.0	9	34.4	1967.00	7.7	11.6
RP-SR-G-M4-Q6-0500	4	502.64	12.5664	40	39	39	35.0	62.83	125.66	4	12	10	15.0	9	37.5	427.70	7.7	5.4
RP-SR-G-M4-Q6-1000	4	1005.28	12.5664	80	39	39	35.0	62.83	125.66	8	12	10	15.0	9	37.5	930.30	7.7	10.5
RP-SR-G-M4-Q6-1500	4	1507.90	12.5664	120	39	39	35.0	62.83	125.66	12	12	10	15.0	9	37.5	1432.90	7.7	15.7
RP-SR-G-M4-Q6-2000	4	2010.62	12.5664	160	39	39	35.0	62.83	125.66	16	12	10	15.0	9	37.5	1935.60	7.7	20.9
RP-SR-G-M5-Q6-0500	5	502.65	15.708	32	49	39	34.0	62.83	125.66	4	12	14	20.0	13	30.1	442.40	11.7	6.2
RP-SR-G-M5-Q6-1000	5	1005.31	15.708	64	49	39	34.0	62.83	125.66	8	12	14	20.0	13	30.1	945.00	11.7	12.4
RP-SR-G-M5-Q6-1500	5	1502.65	15.708	96	49	39	34.0	62.83	125.66	12	12	14	20.0	13	30.1	1447.70	11.7	18.6
RP-SR-G-M5-Q6-2000	5	2005.31	15.708	128	49	39	34.0	62.83	125.66	16	12	14	20.0	13	30.1	1950.40	11.7	24.8
RP-SR-G-M6-Q6-0500	6	508.95	18.8496	27	59	49	43.0	63.62	127.23	4	16	18	26.0	17	31.4	446.10	15.7	9.3
RP-SR-G-M6-Q6-1000	6	1017.90	18.8496	54	59	49	43.0	63.62	127.23	8	16	18	26.0	17	31.4	955.00	15.7	18.7
RP-SR-G-M6-Q6-1500	6	1508.95	18.8496	81	59	49	43.0	63.62	127.23	12	16	18	26.0	17	31.4	1464.00	15.7	28.2
RP-SR-G-M6-Q6-2000	6	2017.90	18.8496	108	59	49	43.0	63.62	127.23	16	16	18	26.0	17	31.4	1973.00	15.7	37.6
RP-SR-G-M8-Q6-0500	8	502.64	25.1328	20	79	79	71.0	62.83	125.66	4	25	22	33.0	21	26.6	449.50	19.7	21.3
RP-SR-G-M8-Q6-1000	8	1005.28	25.1328	40	79	79	71.0	62.83	125.66	8	25	22	33.0	21	26.6	952.00	19.7	42.5
RP-SR-G-M8-Q6-1500	8	1502.64	25.1328	60	79	79	71.0	62.83	125.66	12	25	22	33.0	21	26.6	1452.00	19.7	63.6
RP-SR-G-M8-Q6-2000	8	2005.28	25.1328	80	79	79	71.0	62.83	125.66	16	25	22	33.0	21	26.6	1957.30	19.7	83.6
RP-SR-G-M10-Q6-0500	10	502.65	31.4159	16	99	99	89.0	62.83	125.66	12	32	33	48.0	32	125.66	253.96	19.7	35.0
RP-SR-G-M10-Q6-1000	10	1005.31	31.4159	32	99	99	89.0	62.83	125.66	16	32	33	48.0	32	125.66	753.96	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

STRAIGHT RACKS

Straight rack — ground, DIN quality 7

Grade	DIN quality 7
Finish	Ground teeth and surfaces
Heat treatment	Teeth induction hardened, HRC 50–55
Material	C45 carbon steel
Tooth	Straight, 20° pressure angle



RackPro part no.	M	L	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-SR-G-M1.5-Q7-0500	1.5	499.51	4.7124	106	17	17	15.5	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.3
RP-SR-G-M1.5-Q7-1000	1.5	999.03	4.7124	212	17	17	15.5	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	2.6
RP-SR-G-M1.5-Q7-1500	1.5	1498.53	4.7124	318	17	17	15.5	62.44	124.88	12	8	6	9.5	7	29.0	1441.00	5.7	3.9
RP-SR-G-M1.5-Q7-2000	1.5	1998.05	4.7124	424	17	17	15.5	62.44	124.88	16	8	6	9.5	7	29.0	1941.00	5.7	5.4
RP-SR-G-M2-Q7-0500	2	502.64	6.2832	80	24	24	22.0	62.83	125.66	4	8	7	11.0	7	31.3	440.10	5.7	2.1
RP-SR-G-M2-Q7-1000	2	1005.28	6.2832	160	24	24	22.0	62.83	125.66	8	8	7	11.0	7	31.3	942.70	5.7	4.1
RP-SR-G-M2-Q7-1500	2	1507.97	6.2832	240	24	24	22.0	62.83	125.66	12	8	7	11.0	7	31.3	1445.40	5.7	6.1
RP-SR-G-M2-Q7-2000	2	2010.62	6.2832	320	24	24	22.0	62.83	125.66	16	8	7	11.0	7	31.3	1948.00	5.7	8.2
RP-SR-G-M3-Q7-0500	3	508.95	9.4248	54	29	29	26.0	63.62	127.23	4	9	10	15.0	9	34.4	440.10	7.7	2.9
RP-SR-G-M3-Q7-1000	3	1017.90	9.4248	108	29	29	26.0	63.62	127.23	8	9	10	15.0	9	34.4	949.10	7.7	5.9
RP-SR-G-M3-Q7-1500	3	1526.82	9.4248	162	29	29	26.0	63.62	127.23	12	9	10	15.0	9	34.4	1458.00	7.7	8.7
RP-SR-G-M3-Q7-2000	3	2035.75	9.4248	216	29	29	26.0	63.62	127.23	16	9	10	15.0	9	34.4	1967.00	7.7	11.6
RP-SR-G-M4-Q7-0500	4	502.64	12.5664	40	39	39	35.0	62.83	125.66	4	12	10	15.0	9	37.5	427.70	7.7	5.4
RP-SR-G-M4-Q7-1000	4	1005.28	12.5664	80	39	39	35.0	62.83	125.66	8	12	10	15.0	9	37.5	930.30	7.7	10.5
RP-SR-G-M4-Q7-1500	4	1507.90	12.5664	120	39	39	35.0	62.83	125.66	12	12	10	15.0	9	37.5	1432.90	7.7	15.7
RP-SR-G-M4-Q7-2000	4	2010.62	12.5664	160	39	39	35.0	62.83	125.66	16	12	10	15.0	9	37.5	1935.60	7.7	20.9
RP-SR-G-M5-Q7-0500	5	502.65	15.708	32	49	39	34.0	62.83	125.66	4	12	14	20.0	13	30.1	442.40	11.7	6.2
RP-SR-G-M5-Q7-1000	5	1005.31	15.708	64	49	39	34.0	62.83	125.66	8	12	14	20.0	13	30.1	945.00	11.7	12.4
RP-SR-G-M5-Q7-1500	5	1502.65	15.708	96	49	39	34.0	62.83	125.66	12	12	14	20.0	13	30.1	1447.70	11.7	18.6
RP-SR-G-M5-Q7-2000	5	2005.31	15.708	128	49	39	34.0	62.83	125.66	16	12	14	20.0	13	30.1	1950.40	11.7	24.8
RP-SR-G-M6-Q7-0500	6	508.95	18.8496	27	59	49	43.0	63.62	127.23	4	16	18	26.0	17	31.4	446.10	15.7	9.3
RP-SR-G-M6-Q7-1000	6	1017.90	18.8496	54	59	49	43.0	63.62	127.23	8	16	18	26.0	17	31.4	955.00	15.7	18.7
RP-SR-G-M6-Q7-1500	6	1508.95	18.8496	81	59	49	43.0	63.62	127.23	12	16	18	26.0	17	31.4	1464.00	15.7	28.2
RP-SR-G-M6-Q7-2000	6	2017.90	18.8496	108	59	49	43.0	63.62	127.23	16	16	18	26.0	17	31.4	1973.00	15.7	37.6
RP-SR-G-M8-Q7-0500	8	502.64	25.1328	20	79	79	71.0	62.83	125.66	4	25	22	33.0	21	26.6	449.50	19.7	21.3
RP-SR-G-M8-Q7-1000	8	1005.28	25.1328	40	79	79	71.0	62.83	125.66	8	25	22	33.0	21	26.6	952.00	19.7	42.5
RP-SR-G-M8-Q7-1500	8	1502.64	25.1328	60	79	79	71.0	62.83	125.66	12	25	22	33.0	21	26.6	1452.00	19.7	63.6
RP-SR-G-M8-Q7-2000	8	2005.28	25.1328	80	79	79	71.0	62.83	125.66	16	25	22	33.0	21	26.6	1957.30	19.7	83.6
RP-SR-G-M10-Q7-0500	10	502.65	31.4159	16	99	99	89.0	62.83	125.66	12	32	33	48.0	32	125.66	253.96	19.7	35.0
RP-SR-G-M10-Q7-1000	10	1005.31	31.4159	32	99	99	89.0	62.83	125.66	16	32	33	48.0	32	125.66	753.96	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

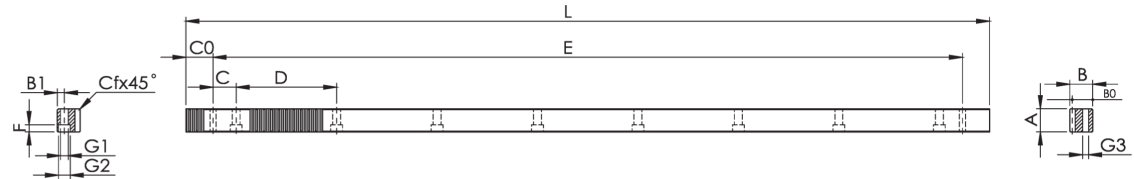
Straight rack — milled, quenched & tempered, DIN quality 8

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

STRAIGHT RACKS

Straight rack — milled, soft, DIN quality 9

Grade	DIN quality 9
Finish	Milled, soft
Heat treatment	Not heat treated
Material	C45 carbon steel
Tooth	Straight, 20° pressure angle



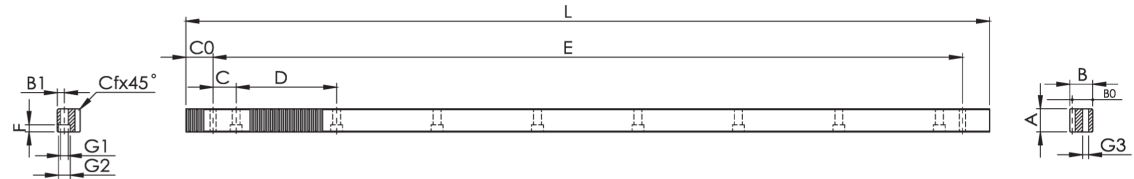
RackPro part no.	M	L	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-SR-MS-M1.5-Q9-0500	1.5	499.51	4.7124	106	17	17	15.5	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.4
RP-SR-MS-M1.5-Q9-1000	1.5	999.03	4.7124	212	17	17	15.5	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	2.7
RP-SR-MS-M1.5-Q9-1500	1.5	1498.53	4.7124	318	17	17	15.5	62.44	124.88	12	8	6	9.5	7	29.0	1441.00	5.7	4.1
RP-SR-MS-M1.5-Q9-2000	1.5	1998.05	4.7124	424	17	17	15.5	62.44	124.88	16	8	6	9.5	7	29.0	1941.00	5.7	5.4
RP-SR-MS-M2-Q9-0500	2	502.64	6.2832	80	24	24	22.0	62.83	125.66	4	8	7	11.0	7	31.3	440.10	5.7	2.2
RP-SR-MS-M2-Q9-1000	2	1005.28	6.2832	160	24	24	22.0	62.83	125.66	8	8	7	11.0	7	31.3	942.70	5.7	4.4
RP-SR-MS-M2-Q9-1500	2	1507.97	6.2832	240	24	24	22.0	62.83	125.66	12	8	7	11.0	7	31.3	1445.40	5.7	6.4
RP-SR-MS-M2-Q9-2000	2	2010.62	6.2832	320	24	24	22.0	62.83	125.66	16	8	7	11.0	7	31.3	1948.00	5.7	8.5
RP-SR-MS-M3-Q9-0500	3	508.95	9.4248	54	29	29	26.0	63.62	127.23	4	9	10	15.0	9	34.4	440.10	7.7	3.0
RP-SR-MS-M3-Q9-1000	3	1017.90	9.4248	108	29	29	26.0	63.62	127.23	8	9	10	15.0	9	34.4	949.10	7.7	6.0
RP-SR-MS-M3-Q9-1500	3	1526.82	9.4248	162	29	29	26.0	63.62	127.23	12	9	10	15.0	9	34.4	1458.00	7.7	9.0
RP-SR-MS-M3-Q9-2000	3	2035.75	9.4248	216	29	29	26.0	63.62	127.23	16	9	10	15.0	9	34.4	1967.00	7.7	12.0
RP-SR-MS-M4-Q9-0500	4	502.64	12.5664	40	39	39	35.0	62.83	125.66	4	12	10	15.0	9	37.5	427.70	7.7	5.5
RP-SR-MS-M4-Q9-1000	4	1005.28	12.5664	80	39	39	35.0	62.83	125.66	8	12	10	15.0	9	37.5	930.30	7.7	10.7
RP-SR-MS-M4-Q9-1500	4	1507.90	12.5664	120	39	39	35.0	62.83	125.66	12	12	10	15.0	9	37.5	1432.90	7.7	16.7
RP-SR-MS-M4-Q9-2000	4	2010.62	12.5664	160	39	39	35.0	62.83	125.66	16	12	10	15.0	9	37.5	1935.60	7.7	22.1
RP-SR-MS-M5-Q9-0500	5	502.65	15.708	32	49	39	34.0	62.83	125.66	4	12	14	20.0	13	30.1	442.40	11.7	6.5
RP-SR-MS-M5-Q9-1000	5	1005.31	15.708	64	49	39	34.0	62.83	125.66	8	12	14	20.0	13	30.1	945.00	11.7	12.6
RP-SR-MS-M5-Q9-1500	5	1502.65	15.708	96	49	39	34.0	62.83	125.66	12	12	14	20.0	13	30.1	1447.70	11.7	19.0
RP-SR-MS-M5-Q9-2000	5	2005.31	15.708	128	49	39	34.0	62.83	125.66	16	12	14	20.0	13	30.1	1950.40	11.7	25.3
RP-SR-MS-M6-Q9-0500	6	508.95	18.8496	27	59	49	43.0	63.62	127.23	4	16	18	26.0	17	31.4	446.10	15.7	9.5
RP-SR-MS-M6-Q9-1000	6	1017.90	18.8496	54	59	49	43.0	63.62	127.23	8	16	18	26.0	17	31.4	955.00	15.7	19.1
RP-SR-MS-M6-Q9-1500	6	1508.95	18.8496	81	59	49	43.0	63.62	127.23	12	16	18	26.0	17	31.4	1464.00	15.7	28.6
RP-SR-MS-M6-Q9-2000	6	2017.90	18.8496	108	59	49	43.0	63.62	127.23	16	16	18	26.0	17	31.4	1973.00	15.7	38.2
RP-SR-MS-M8-Q9-0500	8	502.64	25.1328	20	79	79	71.0	62.83	125.66	4	25	22	33.0	21	26.6	449.50	19.7	21.3
RP-SR-MS-M8-Q9-1000	8	1005.28	25.1328	40	79	79	71.0	62.83	125.66	8	25	22	33.0	21	26.6	952.00	19.7	42.5
RP-SR-MS-M8-Q9-1500	8	1502.64	25.1328	60	79	79	71.0	62.83	125.66	12	25	22	33.0	21	26.6	1452.00	19.7	63.6
RP-SR-MS-M8-Q9-2000	8	2005.28	25.1328	80	79	79	71.0	62.83	125.66	16	25	22	33.0	21	26.6	1957.30	19.7	83.6
RP-SR-MS-M10-Q9-0500	10	502.65	31.4159	16	99	99	89.0	62.83	125.66	12	32	33	48.0	32	125.66	253.96	19.7	35.0
RP-SR-MS-M10-Q9-1000	10	1005.31	31.4159	32	99	99	89.0	62.83	125.66	16	32	33	48.0	32	125.66	753.96	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

STRAIGHT RACKS

Straight rack — milled, soft, DIN quality 10

Grade	DIN quality 10
Finish	Milled, soft
Heat treatment	Not heat treated
Material	C45 carbon steel
Tooth	Straight, 20° pressure angle



RackPro part no.	M	L	Pt	Z	A	B	B0	C	D	Holes	B1	G1	G2	F	C0	E	G3	KG
RP-SR-MS-M1.5-Q10-0500	1.5	499.51	4.7124	106	17	17	15.5	62.44	124.88	4	8	6	9.5	7	29.0	441.50	5.7	1.5
RP-SR-MS-M1.5-Q10-1000	1.5	999.03	4.7124	212	17	17	15.5	62.44	124.88	8	8	6	9.5	7	29.0	941.00	5.7	2.9
RP-SR-MS-M1.5-Q10-1500	1.5	1498.53	4.7124	318	17	17	15.5	62.44	124.88	12	8	6	9.5	7	29.0	1441.00	5.7	4.3
RP-SR-MS-M1.5-Q10-2000	1.5	1998.05	4.7124	424	17	17	15.5	62.44	124.88	16	8	6	9.5	7	29.0	1941.00	5.7	5.4
RP-SR-MS-M2-Q10-0500	2	502.64	6.2832	80	24	24	22.0	62.83	125.66	4	8	7	11.0	7	31.3	440.10	5.7	2.2
RP-SR-MS-M2-Q10-1000	2	1005.28	6.2832	160	24	24	22.0	62.83	125.66	8	8	7	11.0	7	31.3	942.70	5.7	4.5
RP-SR-MS-M2-Q10-1500	2	1507.97	6.2832	240	24	24	22.0	62.83	125.66	12	8	7	11.0	7	31.3	1445.40	5.7	6.7
RP-SR-MS-M2-Q10-2000	2	2010.62	6.2832	320	24	24	22.0	62.83	125.66	16	8	7	11.0	7	31.3	1948.00	5.7	8.9
RP-SR-MS-M3-Q10-0500	3	508.95	9.4248	54	29	29	26.0	63.62	127.23	4	9	10	15.0	9	34.4	440.10	7.7	3.1
RP-SR-MS-M3-Q10-1000	3	1017.90	9.4248	108	29	29	26.0	63.62	127.23	8	9	10	15.0	9	34.4	949.10	7.7	6.2
RP-SR-MS-M3-Q10-1500	3	1526.82	9.4248	162	29	29	26.0	63.62	127.23	12	9	10	15.0	9	34.4	1458.00	7.7	9.4
RP-SR-MS-M3-Q10-2000	3	2035.75	9.4248	216	29	29	26.0	63.62	127.23	16	9	10	15.0	9	34.4	1967.00	7.7	12.5
RP-SR-MS-M4-Q10-0500	4	502.64	12.5664	40	39	39	35.0	62.83	125.66	4	12	10	15.0	9	37.5	427.70	7.7	5.5
RP-SR-MS-M4-Q10-1000	4	1005.28	12.5664	80	39	39	35.0	62.83	125.66	8	12	10	15.0	9	37.5	930.30	7.7	11.1
RP-SR-MS-M4-Q10-1500	4	1507.90	12.5664	120	39	39	35.0	62.83	125.66	12	12	10	15.0	9	37.5	1432.90	7.7	16.7
RP-SR-MS-M4-Q10-2000	4	2010.62	12.5664	160	39	39	35.0	62.83	125.66	16	12	10	15.0	9	37.5	1935.60	7.7	22.1
RP-SR-MS-M5-Q10-0500	5	502.65	15.708	32	49	39	34.0	62.83	125.66	4	12	14	20.0	13	30.1	442.40	11.7	6.5
RP-SR-MS-M5-Q10-1000	5	1005.31	15.708	64	49	39	34.0	62.83	125.66	8	12	14	20.0	13	30.1	945.00	11.7	13.4
RP-SR-MS-M5-Q10-1500	5	1502.65	15.708	96	49	39	34.0	62.83	125.66	12	12	14	20.0	13	30.1	1447.70	11.7	19.6
RP-SR-MS-M5-Q10-2000	5	2005.31	15.708	128	49	39	34.0	62.83	125.66	16	12	14	20.0	13	30.1	1950.40	11.7	26.1
RP-SR-MS-M6-Q10-0500	6	508.95	18.8496	27	59	49	43.0	63.62	127.23	4	16	18	26.0	17	31.4	446.10	15.7	9.7
RP-SR-MS-M6-Q10-1000	6	1017.90	18.8496	54	59	49	43.0	63.62	127.23	8	16	18	26.0	17	31.4	955.00	15.7	19.5
RP-SR-MS-M6-Q10-1500	6	1508.95	18.8496	81	59	49	43.0	63.62	127.23	12	16	18	26.0	17	31.4	1464.00	15.7	29.4
RP-SR-MS-M6-Q10-2000	6	2017.90	18.8496	108	59	49	43.0	63.62	127.23	16	16	18	26.0	17	31.4	1973.00	15.7	39.2
RP-SR-MS-M8-Q10-0500	8	502.64	25.1328	20	79	79	71.0	62.83	125.66	4	25	22	33.0	21	26.6	449.50	19.7	21.3
RP-SR-MS-M8-Q10-1000	8	1005.28	25.1328	40	79	79	71.0	62.83	125.66	8	25	22	33.0	21	26.6	952.00	19.7	42.5
RP-SR-MS-M8-Q10-1500	8	1502.64	25.1328	60	79	79	71.0	62.83	125.66	12	25	22	33.0	21	26.6	1452.00	19.7	63.6
RP-SR-MS-M8-Q10-2000	8	2005.28	25.1328	80	79	79	71.0	62.83	125.66	16	25	22	33.0	21	26.6	1957.30	19.7	83.6
RP-SR-MS-M10-Q10-0500	10	502.65	31.4159	16	99	99	89.0	62.83	125.66	12	32	33	48.0	32	125.66	253.96	19.7	35.0
RP-SR-MS-M10-Q10-1000	10	1005.31	31.4159	32	99	99	89.0	62.83	125.66	16	32	33	48.0	32	125.66	753.96	19.7	68.7

Dimensions in mm, weight in kg. M = module, L = overall length, Pt = tooth pitch, Z = number of teeth, A = height, B = face width. Hole and chamfer dimensions per drawing.

ACCURACY

Tooth thickness and pitch error by grade

Limits by module and rack length. Values in mm.

Module 1.5

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.005	±0.024	-0.015	±0.005	±0.024	N/A	N/A	N/A	N/A	N/A	N/A
Q6	-0.020	±0.008	±0.026	-0.020	±0.008	±0.032	-0.020	±0.009	±0.036	-0.020	±0.009	±0.038
Q7	-0.040	±0.008	±0.034	-0.040	±0.008	±0.042	-0.040	±0.009	±0.042	-0.040	±0.009	±0.044
Q8	-0.066	±0.015	±0.060	-0.066	±0.015	±0.060	-0.088	±0.016	±0.072	-0.088	±0.016	±0.072
Q9	-0.080	±0.020	±0.080	-0.080	±0.020	±0.090	-0.130	±0.024	±0.090	-0.130	±0.024	±0.104
Q10	-0.120	±0.034	±0.140	-0.120	±0.034	±0.140	-0.180	±0.037	±0.148	-0.180	±0.038	±0.160

Module 2

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.005	±0.020	-0.015	±0.005	±0.025	-0.015	±0.007	±0.027	-0.015	±0.007	±0.027
Q6	-0.020	±0.008	±0.026	-0.020	±0.008	±0.035	-0.020	±0.008	±0.036	-0.020	±0.008	±0.038
Q7	-0.040	±0.008	±0.034	-0.040	±0.008	±0.042	-0.040	±0.008	±0.044	-0.040	±0.008	±0.046
Q8	-0.066	±0.016	±0.060	-0.066	±0.016	±0.060	-0.095	±0.016	±0.072	-0.100	±0.016	±0.072
Q9	-0.085	±0.021	±0.080	-0.085	±0.021	±0.090	-0.130	±0.025	±0.104	-0.135	±0.023	±0.104
Q10	-0.120	±0.035	±0.144	-0.120	±0.035	±0.144	-0.180	±0.038	±0.160	-0.180	±0.038	±0.160

Module 3

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.006	±0.022	-0.015	±0.006	±0.025	-0.015	±0.007	±0.030	-0.015	±0.008	±0.030
Q6	-0.020	±0.009	±0.035	-0.020	±0.009	±0.035	-0.020	±0.009	±0.036	-0.020	±0.010	±0.042
Q7	-0.040	±0.009	±0.037	-0.040	±0.009	±0.044	-0.040	±0.009	±0.050	-0.040	±0.010	±0.052
Q8	-0.066	±0.016	±0.060	-0.066	±0.016	±0.066	-0.095	±0.016	±0.072	-0.095	±0.018	±0.078
Q9	-0.085	±0.024	±0.090	-0.085	±0.024	±0.100	-0.130	±0.024	±0.104	-0.130	±0.026	±0.112
Q10	-0.120	±0.036	±0.160	-0.120	±0.036	±0.160	-0.180	±0.041	±0.167	-0.180	±0.044	±0.180

Module 4

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.007	±0.026	-0.015	±0.007	±0.026	-0.015	±0.008	±0.032	-0.015	±0.008	±0.032
Q6	-0.020	±0.009	±0.035	-0.020	±0.009	±0.035	-0.020	±0.010	±0.040	-0.020	±0.010	±0.044
Q7	-0.040	±0.009	±0.040	-0.040	±0.009	±0.044	-0.040	±0.010	±0.056	-0.040	±0.010	±0.056
Q8	-0.066	±0.016	±0.060	-0.066	±0.016	±0.066	-0.095	±0.018	±0.072	-0.095	±0.019	±0.078
Q9	-0.085	±0.024	±0.090	-0.085	±0.024	±0.110	-0.130	±0.025	±0.120	-0.130	±0.026	±0.120
Q10	-0.120	±0.040	±0.170	-0.120	±0.040	±0.170	-0.180	±0.045	±0.180	-0.180	±0.045	±0.180

Module 5

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.007	±0.026	-0.015	±0.007	±0.028	N/A	N/A	N/A	N/A	N/A	N/A
Q6	-0.020	±0.009	±0.035	-0.020	±0.010	±0.035	-0.020	±0.010	±0.040	-0.020	±0.010	±0.044
Q7	-0.040	±0.009	±0.040	-0.040	±0.010	±0.044	-0.040	±0.010	±0.050	-0.040	±0.010	±0.054
Q8	-0.066	±0.018	±0.071	-0.066	±0.018	±0.078	-0.095	±0.019	±0.080	-0.095	±0.019	±0.090
Q9	-0.085	±0.026	±0.100	-0.085	±0.026	±0.110	-0.130	±0.028	±0.120	-0.130	±0.028	±0.120
Q10	-0.120	±0.042	±0.170	-0.120	±0.042	±0.170	-0.180	±0.045	±0.180	-0.180	±0.045	±0.190

Module 6

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.007	±0.026	-0.015	±0.007	±0.028	N/A	N/A	N/A	N/A	N/A	N/A
Q6	-0.020	±0.010	±0.035	-0.020	±0.010	±0.040	-0.020	±0.010	±0.040	-0.020	±0.010	±0.044
Q7	-0.040	±0.010	±0.040	-0.040	±0.010	±0.044	-0.040	±0.010	±0.052	-0.040	±0.010	±0.054
Q8	-0.066	±0.018	±0.071	-0.066	±0.018	±0.078	-0.095	±0.019	±0.080	-0.095	±0.019	±0.090
Q9	-0.085	±0.026	±0.105	-0.085	±0.026	±0.110	-0.130	±0.028	±0.120	-0.130	±0.028	±0.120
Q10	-0.120	±0.042	±0.170	-0.120	±0.042	±0.170	-0.180	±0.045	±0.180	-0.180	±0.045	±0.190

Module 8

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch	L1500: tooth thk.	single pitch	total pitch	L2000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.008	±0.026	-0.015	±0.008	±0.030	N/A	N/A	N/A	N/A	N/A	N/A
Q6	-0.020	±0.010	±0.035	-0.020	±0.011	±0.040	-0.020	±0.011	±0.041	-0.020	±0.011	±0.044
Q7	-0.040	±0.010	±0.042	-0.040	±0.011	±0.044	-0.040	±0.011	±0.051	-0.040	±0.011	±0.054
Q8	-0.066	±0.021	±0.081	-0.066	±0.021	±0.084	-0.095	±0.021	±0.090	-0.095	±0.021	±0.095
Q9	-0.085	±0.028	±0.110	-0.085	±0.028	±0.110	-0.130	±0.031	±0.130	-0.130	±0.031	±0.130
Q10	-0.120	±0.048	±0.180	-0.120	±0.048	±0.180	-0.180	±0.050	±0.200	-0.180	±0.050	±0.200

Module 10

Grade	L500: tooth thk.	single pitch	total pitch	L1000: tooth thk.	single pitch	total pitch
Q5	-0.015	±0.008	±0.026	-0.015	±0.008	±0.030
Q6	-0.020	±0.016	±0.026	-0.036	±0.016	±0.034
Q7	-0.040	±0.016	±0.042	-0.040	±0.016	±0.043
Q8	-0.066	±0.022	±0.060	-0.066	±0.022	±0.060
Q9	-0.085	±0.030	±0.110	-0.085	±0.030	±0.110
Q10	-0.120	±0.048	±0.180	-0.120	±0.048	±0.180

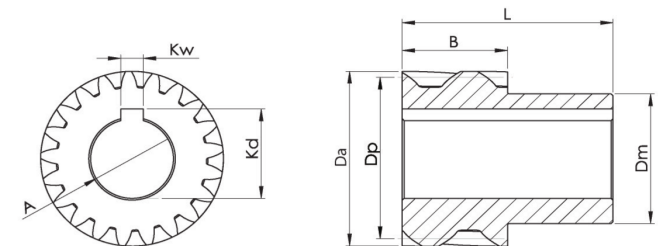
PINIONS

Pinions

Ground 16CrMo4 case-hardened pinions (Q5) and milled C45 pinions (Q10), with keyed bores or as flanged pinions for direct gearbox mounting. Helical pinions are left hand to mate with right-hand racks. Other bores, materials and tooth counts are available on request.

Helical pinions — ground, 16CrMo4, case hardened HRC 55-60, Q5

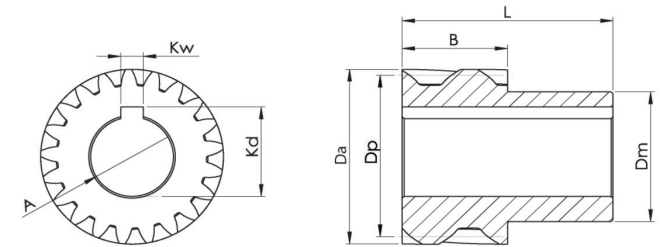
RackPro part no.	M	Z	Da	Dp	Kw	Kd	A (bore)	B	L	Dm
RP-HP-G-M1.5-Z16-B10	1.5	16	28.46	25.46	4	11.5	10	28	65	20
RP-HP-G-M1.5-Z18-B15	1.5	18	31.64	28.64	5	17.3	15	28	65	22
RP-HP-G-M1.5-Z20-B15	1.5	20	34.83	31.83	5	17.3	15	28	65	25
RP-HP-G-M1.5-Z24-B20	1.5	24	41.19	38.19	6	22.8	20	28	65	32
RP-HP-G-M1.5-Z40-B40	1.5	40	66.66	63.66	12	43.3	40	28	65	58
RP-HP-G-M2-Z16-B15	2	16	37.95	33.95	5	17.3	15	28	65	25
RP-HP-G-M2-Z18-B15	2	18	42.2	38.2	5	17.3	15	28	65	30
RP-HP-G-M2-Z21-B22	2	21	48.56	44.56	6	24.8	22	26	56	36
RP-HP-G-M2-Z22-B25	2	22	50.69	46.69	8	28.3	25	28	65	36
RP-HP-G-M2-Z24-B25	2	24	54.93	50.93	8	28.3	25	28	65	36
RP-HP-G-M2-Z30-B25	2	30	67.66	63.66	8	28.3	25	28	65	36
RP-HP-G-M2-Z40-B40	2	40	88.88	84.88	12	43.3	40	28	65	62
RP-HP-G-M3-Z20-B20	3	20	69.66	63.66	6	22.8	20	28	65	30
RP-HP-G-M3-Z22-B25	3	22	76.03	70.03	8	28.3	25	28	65	36
RP-HP-G-M3-Z24-B25	3	24	82.39	76.39	8	28.3	25	28	65	36
RP-HP-G-M3-Z40-B40	3	40	133.32	127.32	12	43.3	40	28	65	62
RP-HP-G-M4-Z20-B35	4	20	92.88	84.88	10	38.3	35	40	75	55
RP-HP-G-M4-Z25-B35	4	25	114.1	106.1	10	38.3	35	40	75	55
RP-HP-G-M4-Z30-B35	4	30	135.32	127.32	10	38.3	35	40	75	55
RP-HP-G-M4-Z32-B35	4	32	143.81	135.81	10	38.3	35	40	75	55
RP-HP-G-M5-Z20-B45	5	20	116.1	106.1	14	48.8	45	50	75	68
RP-HP-G-M5-Z24-B45	5	24	137.32	127.32	14	48.8	45	50	75	68
RP-HP-G-M5-Z25-B45	5	25	142.63	132.63	14	48.8	45	50	75	68
RP-HP-G-M5-Z30-B45	5	30	169.15	159.15	14	48.8	45	50	75	68
RP-HP-G-M6-Z20-B55	6	20	139.32	127.32	16	59.3	55	60	120	80
RP-HP-G-M6-Z21-B55	6	21	145.69	133.69	16	59.3	55	60	120	80
RP-HP-G-M6-Z24-B55	6	24	164.79	152.79	16	59.3	55	60	120	80
RP-HP-G-M6-Z25-B55	6	25	171.15	159.15	16	59.3	55	60	120	80
RP-HP-G-M6-Z30-B55	6	30	202.99	190.99	16	59.3	55	60	120	80
RP-HP-G-M8-Z20-B75	8	20	185.77	169.77	20	79.9	75	80	145	110
RP-HP-G-M10-Z20-B85	10	20	232.21	212.21	22	90.4	85	100	165	125



Dimensions in mm. Da = outside diameter, Dp = pitch diameter, Kw / Kd = keyway width / depth, A = bore (H6/H7), B = face width, L = overall length, Dm = hub diameter.

Helical pinions — milled, C45, induction hardened HRC 50-55, Q10

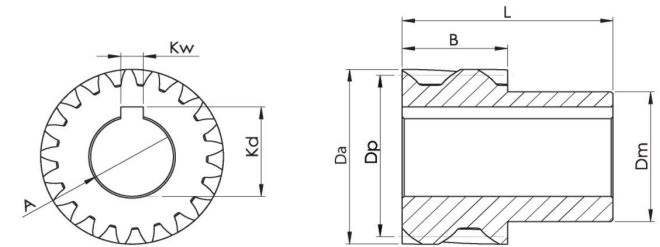
RackPro part no.	M	Z	Da	Dp	Kw	Kd	A (bore)	B	L	Dm
RP-HP-M-M1.5-Z16-B10	1.5	16	28.46	25.46	4	11.5	10	28	65	20
RP-HP-M-M1.5-Z18-B15	1.5	18	31.64	28.64	5	17.3	15	28	65	22
RP-HP-M-M1.5-Z20-B15	1.5	20	34.83	31.83	5	17.3	15	28	65	25
RP-HP-M-M1.5-Z24-B20	1.5	24	41.19	38.19	6	22.8	20	28	65	32
RP-HP-M-M1.5-Z30-B25	1.5	30	50.74	47.74	8	28.3	25	28	65	40
RP-HP-M-M1.5-Z40-B40	1.5	40	66.66	63.66	12	43.3	40	28	65	58
RP-HP-M-M2-Z16-B15	2	16	37.95	33.95	5	17.3	15	28	65	25
RP-HP-M-M2-Z18-B15	2	18	42.2	38.2	5	17.3	15	28	65	30
RP-HP-M-M2-Z20-B20	2	20	46.44	42.44	6	22.8	20	28	65	30
RP-HP-M-M2-Z22-B25	2	22	50.69	46.69	8	28.3	25	28	65	36
RP-HP-M-M2-Z24-B25	2	24	54.93	50.93	8	28.3	25	28	65	36
RP-HP-M-M2-Z30-B25	2	30	67.66	63.66	8	28.3	25	28	65	36
RP-HP-M-M2-Z40-B40	2	40	88.88	84.88	12	43.3	40	28	65	62
RP-HP-M-M3-Z20-B20	3	20	69.66	63.66	6	22.8	20	28	65	30
RP-HP-M-M3-Z22-B25	3	22	76.03	70.03	8	28.3	25	28	65	36
RP-HP-M-M3-Z24-B25	3	24	82.39	76.39	8	28.3	25	28	65	36
RP-HP-M-M3-Z40-B40	3	40	133.32	127.32	12	43.3	40	28	65	62
RP-HP-M-M4-Z20-B35	4	20	92.88	84.88	10	38.3	35	40	75	55
RP-HP-M-M4-Z25-B35	4	25	114.1	106.1	10	38.3	35	40	75	55
RP-HP-M-M4-Z30-B35	4	30	135.32	127.32	10	38.3	35	40	75	55
RP-HP-M-M4-Z32-B35	4	32	143.81	135.81	10	38.3	35	40	75	55
RP-HP-M-M5-Z20-B45	5	20	116.1	106.1	14	48.8	45	50	75	68
RP-HP-M-M5-Z24-B45	5	24	137.32	127.32	14	48.8	45	50	75	68
RP-HP-M-M5-Z25-B45	5	25	142.63	132.63	14	48.8	45	50	75	68
RP-HP-M-M5-Z30-B45	5	30	169.15	159.15	14	48.8	45	50	75	68
RP-HP-M-M6-Z20-B55	6	20	139.32	127.32	16	59.3	55	60	120	80
RP-HP-M-M6-Z21-B55	6	21	145.69	133.69	16	59.3	55	60	120	80
RP-HP-M-M6-Z24-B55	6	24	164.79	152.79	16	59.3	55	60	120	80
RP-HP-M-M6-Z25-B55	6	25	171.15	159.15	16	59.3	55	60	120	80
RP-HP-M-M6-Z30-B55	6	30	202.99	190.99	16	59.3	55	60	120	80
RP-HP-M-M8-Z20-B75	8	20	185.77	169.77	20	79.9	75	80	145	110
RP-HP-M-M10-Z20-B85	10	20	232.21	212.21	22	90.4	85	100	165	125



Dimensions in mm. Da = outside diameter, Dp = pitch diameter, Kw / Kd = keyway width / depth, A = bore (H6/H7), B = face width, L = overall length, Dm = hub diameter.

Straight pinions — ground, 16CrMo4, case hardened HRC 55-60, Q5

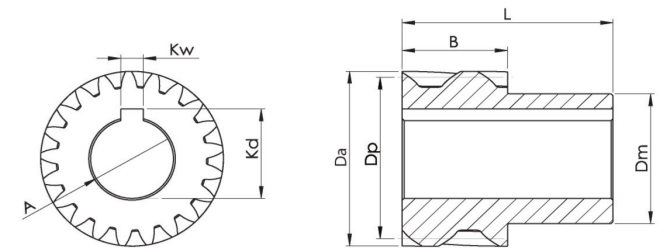
RackPro part no.	M	Z	Da	Dp	Kw	Kd	A (bore)	B	L	Dm
RP-SP-G-M1.5-Z16-B10	1.5	16	27	24	4	11.5	10	28	65	20
RP-SP-G-M1.5-Z18-B15	1.5	18	30	27	5	17.3	15	28	65	22
RP-SP-G-M1.5-Z20-B15	1.5	20	33	30	5	17.3	15	28	65	25
RP-SP-G-M1.5-Z24-B20	1.5	24	39	36	6	22.8	20	28	65	32
RP-SP-G-M1.5-Z30-B25	1.5	30	48	45	8	28.3	25	28	65	40
RP-SP-G-M1.5-Z40-B40	1.5	40	63	60	12	43.3	40	28	65	58
RP-SP-G-M2-Z16-B15	2	16	36	32	5	17.3	15	28	65	25
RP-SP-G-M2-Z18-B15	2	18	40	36	5	17.3	15	28	65	30
RP-SP-G-M2-Z20-B20	2	20	44	40	6	22.8	20	28	65	30
RP-SP-G-M2-Z22-B25	2	22	48	44	8	28.3	25	28	65	36
RP-SP-G-M2-Z24-B25	2	24	52	48	8	28.3	25	28	65	36
RP-SP-G-M2-Z30-B25	2	30	64	60	8	28.3	25	28	65	36
RP-SP-G-M2-Z40-B40	2	40	84	80	12	43.3	40	28	65	62
RP-SP-G-M3-Z20-B20	3	20	66	60	6	22.8	20	28	65	30
RP-SP-G-M3-Z22-B25	3	22	72	66	8	28.3	25	28	65	36
RP-SP-G-M3-Z24-B25	3	24	78	72	8	28.3	25	28	65	36
RP-SP-G-M3-Z40-B40	3	40	126	120	12	43.3	40	28	65	62
RP-SP-G-M4-Z20-B35	4	20	88	80	10	38.3	35	40	75	55
RP-SP-G-M4-Z25-B35	4	25	108	100	10	38.3	35	40	75	55
RP-SP-G-M4-Z30-B35	4	30	128	120	10	38.3	35	40	75	55
RP-SP-G-M4-Z32-B35	4	32	136	128	10	38.3	35	40	75	55
RP-SP-G-M5-Z20-B45	5	20	110	100	14	48.8	45	50	75	68
RP-SP-G-M5-Z24-B45	5	24	130	120	14	48.8	45	50	75	68
RP-SP-G-M5-Z25-B45	5	25	135	125	14	48.8	45	50	75	68
RP-SP-G-M5-Z30-B45	5	30	160	150	14	48.8	45	50	75	68
RP-SP-G-M6-Z20-B55	6	20	132	120	16	59.3	55	60	120	80
RP-SP-G-M6-Z21-B55	6	21	138	126	16	59.3	55	60	120	80
RP-SP-G-M6-Z24-B55	6	24	156	144	16	59.3	55	60	120	80
RP-SP-G-M6-Z25-B55	6	25	162	150	16	59.3	55	60	120	80
RP-SP-G-M6-Z30-B55	6	30	192	180	16	59.3	55	60	120	80
RP-SP-G-M8-Z20-B75	8	20	176	160	20	79.9	75	80	145	110
RP-SP-G-M10-Z20-B85	10	20	220	200	22	90.4	85	100	165	125



Dimensions in mm. Da = outside diameter, Dp = pitch diameter, Kw / Kd = keyway width / depth, A = bore (H6/H7), B = face width, L = overall length, Dm = hub diameter.

Straight pinions — milled, C45, induction hardened HRC 50-55, Q10

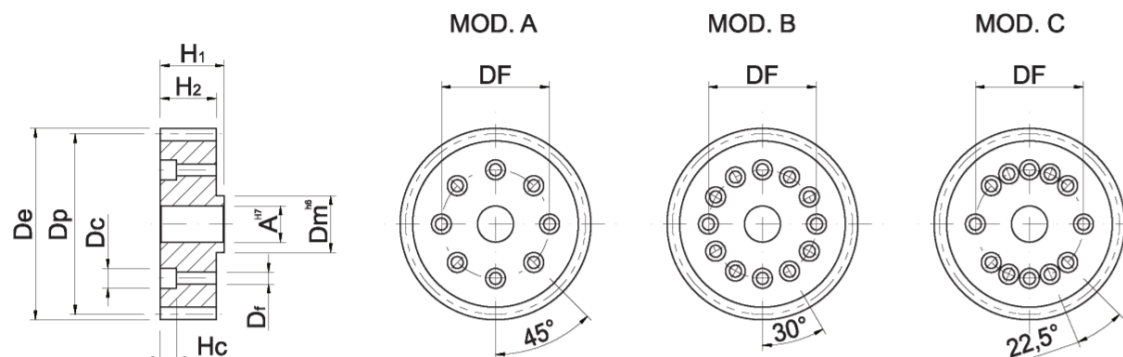
RackPro part no.	M	Z	Da	Dp	Kw	Kd	A (bore)	B	L	Dm
RP-SP-M-M1.5-Z16-B10	1.5	16	27	24	4	11.5	10	28	65	20
RP-SP-M-M1.5-Z18-B15	1.5	18	30	27	5	17.3	15	28	65	22
RP-SP-M-M1.5-Z20-B15	1.5	20	33	30	5	17.3	15	28	65	25
RP-SP-M-M1.5-Z24-B20	1.5	24	39	36	6	22.8	20	28	65	32
RP-SP-M-M1.5-Z30-B25	1.5	30	48	45	8	28.3	25	28	65	40
RP-SP-M-M1.5-Z40-B40	1.5	40	63	60	12	43.3	40	28	65	58
RP-SP-M-M2-Z16-B15	2	16	36	32	5	17.3	15	28	65	25
RP-SP-M-M2-Z18-B15	2	18	40	36	5	17.3	15	28	65	30
RP-SP-M-M2-Z20-B20	2	20	44	40	6	22.8	20	28	65	30
RP-SP-M-M2-Z22-B25	2	22	48	44	8	28.3	25	28	65	36
RP-SP-M-M2-Z24-B25	2	24	52	48	8	28.3	25	28	65	36
RP-SP-M-M2-Z30-B25	2	30	64	60	8	28.3	25	28	65	36
RP-SP-M-M2-Z40-B40	2	40	84	80	12	43.3	40	28	65	62
RP-SP-M-M3-Z20-B20	3	20	66	60	6	22.8	20	28	65	30
RP-SP-M-M3-Z22-B25	3	22	72	66	8	28.3	25	28	65	36
RP-SP-M-M3-Z24-B25	3	24	78	72	8	28.3	25	28	65	36
RP-SP-M-M3-Z40-B40	3	40	126	120	12	43.3	40	28	65	62
RP-SP-M-M4-Z20-B35	4	20	88	80	10	38.3	35	40	75	55
RP-SP-M-M4-Z25-B35	4	25	108	100	10	38.3	35	40	75	55
RP-SP-M-M4-Z30-B35	4	30	128	120	10	38.3	35	40	75	55
RP-SP-M-M4-Z32-B35	4	32	136	128	10	38.3	35	40	75	55
RP-SP-M-M5-Z20-B45	5	20	110	100	14	48.8	45	50	75	68
RP-SP-M-M5-Z24-B45	5	24	130	120	14	48.8	45	50	75	68
RP-SP-M-M5-Z25-B45	5	25	135	125	14	48.8	45	50	75	68
RP-SP-M-M5-Z30-B45	5	30	160	150	14	48.8	45	50	75	68
RP-SP-M-M6-Z20-B55	6	20	132	120	16	59.3	55	60	120	80
RP-SP-M-M6-Z21-B55	6	21	138	126	16	59.3	55	60	120	80
RP-SP-M-M6-Z24-B55	6	24	156	144	16	59.3	55	60	120	80
RP-SP-M-M6-Z25-B55	6	25	162	150	16	59.3	55	60	120	80
RP-SP-M-M6-Z30-B55	6	30	192	180	16	59.3	55	60	120	80
RP-SP-M-M8-Z20-B75	8	20	176	160	20	79.9	75	80	145	110
RP-SP-M-M10-Z20-B85	10	20	220	200	22	90.4	85	100	165	125



Dimensions in mm. Da = outside diameter, Dp = pitch diameter, Kw / Kd = keyway width / depth, A = bore (H6/H7), B = face width, L = overall length, Dm = hub diameter.

Flanged helical pinions — ground, 16CrMo4, case hardened HRC 55-60, Q5

For direct mounting to the output flange of a servo gearbox. Flange styles A, B and C differ in bolt pattern.



RackPro part no.	Model	M	Z	X	De	Dp	Dm (h6)	A	H1	H2	DF	Df	DC	HC
RP-HFP-A-M2-Z26	A	2	26	0.4065	60.6	56.8	20	15	29	26	31.5	5.5	10	12
RP-HFP-A-M2-Z27	A	2	27	0	61.29	57.3	20	15	33.5	30	31.5	5.5	10	11
RP-HFP-A-M2-Z29	A	2	29	0.415	67	63.2	20	15	29	26	31.5	5.5	10	12
RP-HFP-A-M2-Z33	A	2	33	0.3928	75.3	71.6	31.5	20	30	26	50	6.6	11	14
RP-HFP-A-M2-Z35	A	2	35	0.3819	79.6	75.8	20	15	29	26	31.5	5.5	10	12
RP-HFP-A-M2-Z36	A	2	36	0	80.39	76.4	31.5	20	34	30	50	6.6	11	8
RP-HFP-A-M2-Z37	A	2	37	0.4209	84	80.2	31.5	20	30	26	50	6.6	11	14
RP-HFP-A-M3-Z31	A	3	31	0.354	106.6	100.8	31.5	20	35.5	31	50	6.6	11	9
RP-HFP-B-M2-Z37	B	2	37	0.4209	84	80.2	31.5	20	30	26	50	6.6	11	14
RP-HFP-B-M3-Z35	B	3	35	0.3652	119.4	113.6	50	40	35	31	80	9	15	11
RP-HFP-B-M3-Z40	B	3	40	0.3792	135.4	129.6	50	40	35	31	80	9	15	11
RP-HFP-B-M4-Z30	B	4	30	0	135.32	127.32	50	40	49	45	80	9	15	11
RP-HFP-B-M5-Z36	B	5	36	0	200.98	190.99	80	60	61	55	125	11	18	13
RP-HFP-C-M2-Z40	C	2	40	0.3792	90.2	86.4	40	31.5	30	26	63	6.6	11	14
RP-HFP-C-M2-Z45	C	2	45	0.3267	100.6	96.8	40	31.5	30	26	63	6.6	11	14
RP-HFP-C-M3-Z30	C	3	30	0	101.49	95.49	40	20	39	35	63	6.6	11	10

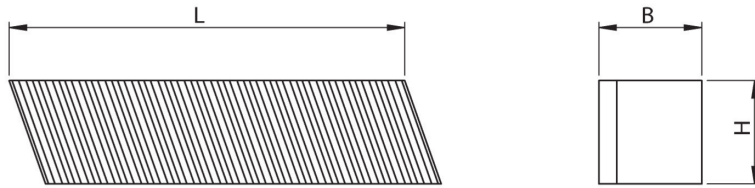
Dimensions in mm. X = profile shift coefficient, De = outside diameter, Dp = pitch diameter, Dm = pilot diameter, DF / Df = bolt circle / bolt hole, DC / HC = counterbore.

ACCESSORIES

Installation gauges

Opposite-tooth gauges set the pitch across rack joints during installation. C45, ground teeth, 150 mm long.

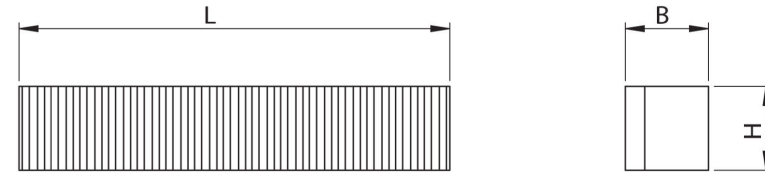
Helical tooth gauge (19°31'42" left hand)



RackPro part no.	Module	L	H	B	Z	fp	FP
RP-GAUGE-H-M2	2	150	24	24	22	0.004	0.015
RP-GAUGE-H-M3	3	150	29	29	15	0.004	0.015
RP-GAUGE-H-M4	4	150	39	39	11	0.003	0.01
RP-GAUGE-H-M5	5	150	49	39	9	0.003	0.01
RP-GAUGE-H-M6	6	150	59	49	7	0.003	0.01

Dimensions in mm. L = length, H = height, B = width, Z = teeth, fp / FP = single / total pitch error.

Straight tooth gauge



RackPro part no.	Module	L	H	B	Z	fp	FP
RP-GAUGE-S-M2	2	150	24	24	22	0.004	0.015
RP-GAUGE-S-M3	3	150	29	29	15	0.004	0.015
RP-GAUGE-S-M4	4	150	39	39	11	0.003	0.01
RP-GAUGE-S-M5	5	150	49	39	9	0.003	0.01
RP-GAUGE-S-M6	6	150	59	49	7	0.003	0.01



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