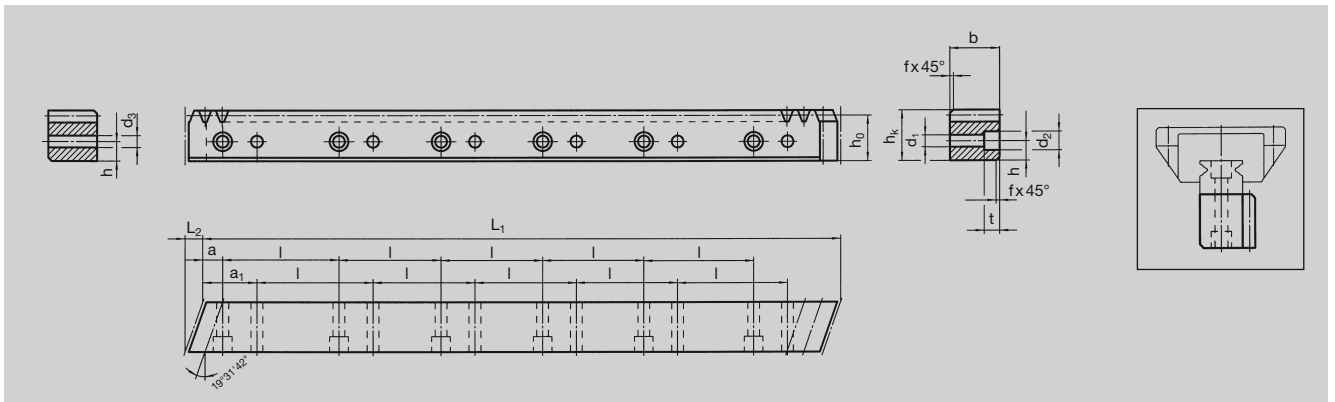




Quality 9 – 90° Version



Order Code	Module	L ₁	L ₂	N° of Teeth	b	h _k	h _o	f	a	l	N° of Holes	h	d ₁	d ₂	t	a ₁	d ₃	kg
49 29 292	2	1920	7.10	288	20	19.50	17.50	1	10	60	32	7.5	4.5	7.5	5.3	30	4.5	5.4
49 29 282	2	1920	8.90	288	25	24.50	22.50	1	10	60	32	10.0	6.0	9.5	8.5	30	6.0	8.4
49 39 292	3	1920	10.60	192	30	29.75	26.75	2	10	60	32	11.5	7.0	11.0	9.0	30	7.0	11.2
49 49 292	4	1920	14.20	144	40	39.75	35.75	2	20	80	24	14.0	10.0	15.0	9.0	40	10.0	21.5
49 49 272	4	1920	14.54	144	41	48.75	44.75	2	20	80	24	17.0	10.0	15.0	9.0	40	10.0	29.9

Total pitch error $GT_f/1000 \leq 0.150$ mm.

- Milled teeth
- Material C45
- Bright steel

Mounting racks see page ZF-2.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page ZF-4.

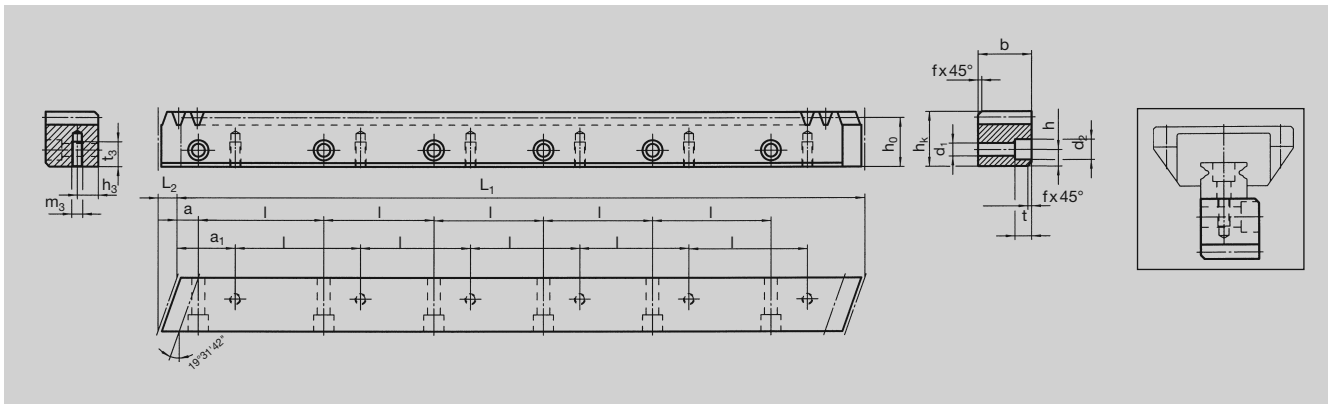
For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.

For the calculation and selection of the rack & pinion drive, see page ZD-1.





Quality 9 – 180° Version



Order Code	Module	L ₁	L ₂	N° of Teeth	b	h _k	h _o	f	a	l	N° of Holes	h	d ₁	d ₂	t	a ₁	m ₃	h ₃	t ₃	kg
49 29 202	2	1920	7.1	288	20	19.50	17.50	1	10	60	32	7.5	5.8	10	6	30	M4	7.5	8.0	5.4
49 29 212	2	1920	8.9	288	25	24.50	22.50	1	10	60	32	10.0	7.0	11	7	30	M5	10.0	11.0	8.4
49 39 202	3	1920	10.6	192	30	29.75	26.75	2	10	60	32	11.5	10.0	15	9	30	M6	11.5	13.5	11.2
49 49 202	4	1920	14.2	144	40	39.75	35.75	2	20	80	24	14.0	12.0	18	12	40	M8	14.0	16.0	21.5

Total pitch error $GT_f/1000 \leq 0.150$ mm.

- Milled teeth
- Material C45
- Bright steel

Mounting racks see page ZF-2.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page ZF-4.

For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.

For the calculation and selection of the rack & pinion drive, see page ZD-1.

