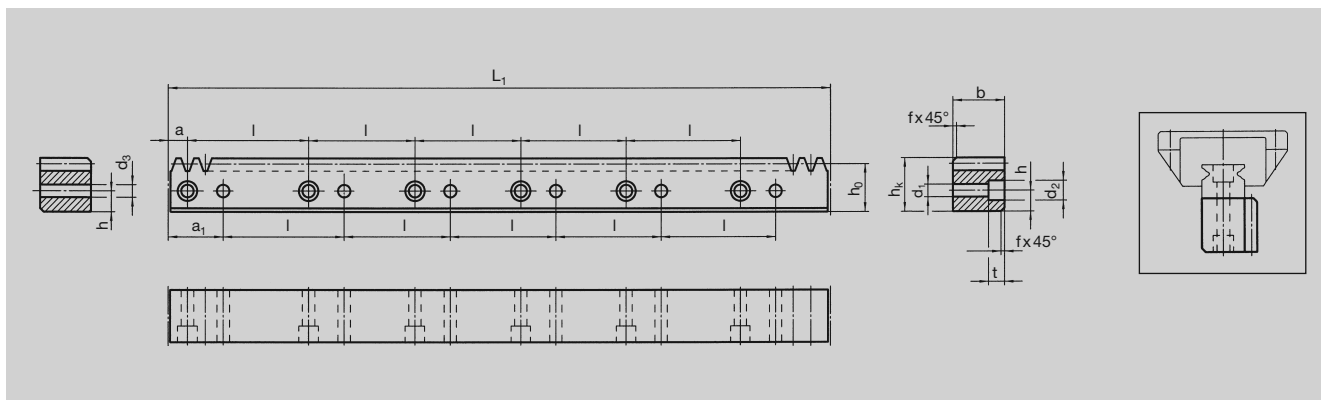




**Quality 9 – 90° Version**



Order Code	Pitch	L <sub>1</sub>	N° of Teeth	b	h <sub>k</sub>	h <sub>o</sub>	f	a	l	N° of Holes	h	d <sub>1</sub>	d <sub>2</sub>	t	a <sub>1</sub>	d <sub>3</sub>	kg
49 77 292	5	1920	384	20	19.50	17.91	1	10	60	32	7.5	4.5	7.5	5.3	30	4.5	5.4
49 77 282	5	1920	384	25	24.50	22.91	1	10	60	32	10.0	6.0	9.5	8.5	30	6.0	8.4
49 97 292	10	1920	192	30	29.75	26.57	2	10	60	32	11.5	7.0	11.0	9.0	30	7.0	11.2
49 47 292	13.33	1920	144	40	39.75	35.50	2	20	80	24	14.0	10.0	15.0	9.0	40	10.0	21.5

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

- Milled teeth
- Material C45
- Bright steel

**Mounting racks see page ZF-2 and ZF-4-5.**

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

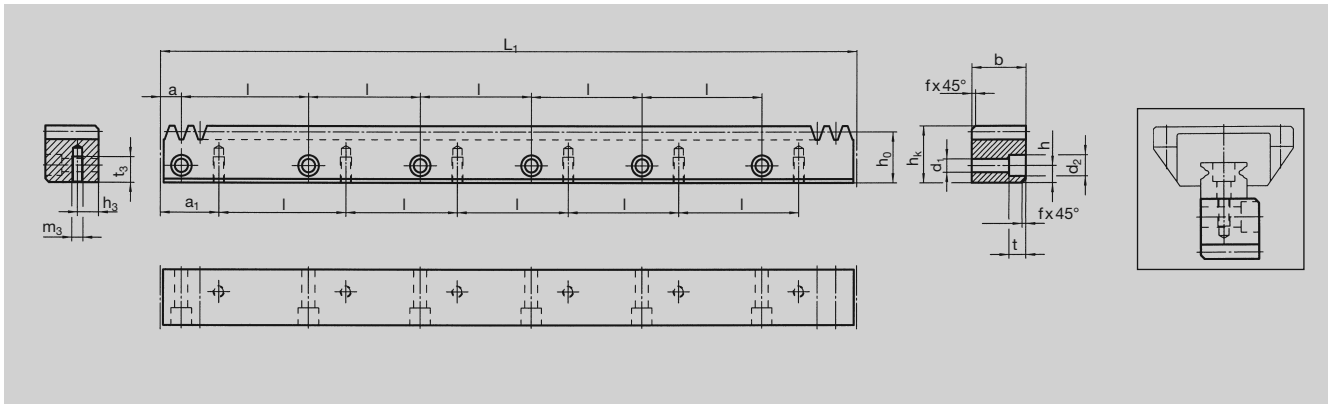
**For lubrication of racks & pinions, we recommend our automatic lubrication systems, see page ZE-1.**



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



**Quality 9 – 180° Version**



Order Code	Pitch	L <sub>1</sub>	N° of Teeth	b	h <sub>k</sub>	h <sub>o</sub>	f	a	l	N° of Holes	h	d <sub>1</sub>	d <sub>2</sub>	t	a <sub>1</sub>	m <sub>3</sub>	h <sub>3</sub>	t <sub>3</sub>	kg
49 77 202	5	1920	384	20	19.50	17.91	1	10	60	32	7.5	5.8	10	6	30	M4	7.5	8.0	5.4
49 77 212	5	1920	384	25	24.50	22.91	1	10	60	32	10.0	7.0	11	7	30	M5	10.0	11.0	8.4
49 97 202	10	1920	192	30	29.75	26.57	2	10	60	32	11.5	10.0	15	9	30	M6	11.5	13.5	11.2
49 47 202	13.33	1920	144	40	39.75	35.50	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 and ZF-4-5.

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.

