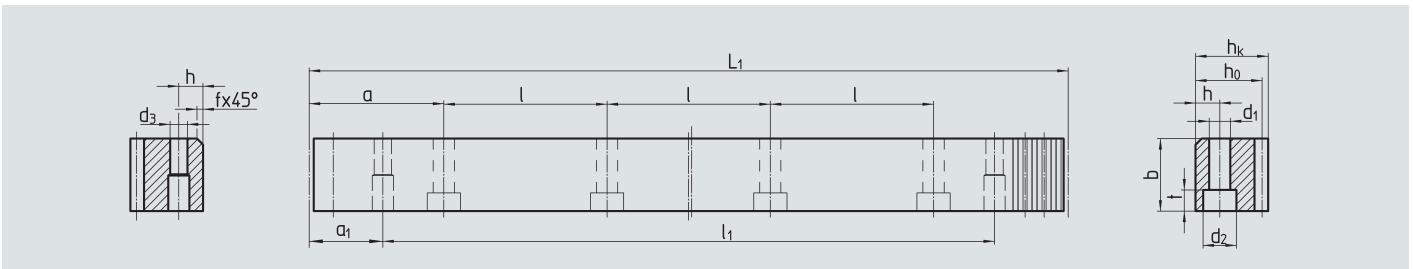


## ATLANTA Quality 6



Order Code	Module	$L_1$	N° of Teeth z	$b^{+0.4}$	$h_k$	$h_0$	f	a	l	N° of Holes	h	$d_1$	$d_2$	t	$a_1$	$l_1$	$d_3$	kg
28 20 025	2	251.30	40	24	24	22.0	2	62.8	125.66	2	8	7	11	7	31.3	188.7	5.7	1.00
28 20 050 <sup>2)</sup>	2	502.70	80	24	24	22.0	2	62.8	125.66	4	8	7	11	7	31.3	440.1	5.7	2.10
28 21 050	2	502.70	80	24	24	22.0	2	without mounting holes										2.10
28 20 100	2	1005.30	160	24	24	22.0	2	62.8	125.66	8	8	7	11	7	31.4	942.7	5.7	4.20
28 21 100	2	1005.30	160	24	24	22.0	2	without mounting holes										4.20
28 30 025	3	254.50	27	29	29	26.0	2	63.6	127.23	2	9	10	15	9	34.4	185.7	7.7	1.50
28 30 050 <sup>2)</sup>	3	508.90	54	29	29	26.0	2	63.6	127.23	4	9	10	15	9	34.4	440.1	7.7	3.00
28 31 050	3	508.90	54	29	29	26.0	2	without mounting holes										3.00
28 30 100	3	1017.90	108	29	29	26.0	2	63.6	127.23	8	9	10	15	9	34.4	949.1	7.7	6.00
28 31 100	3	1017.90	108	29	29	26.0	2	without mounting holes										6.00
28 40 050 <sup>2)</sup>	4	502.70	40	39	39	35.0	2	62.8	125.66	4	12	10	15	9	37.5	427.7	7.7	5.30
28 41 050	4	502.70	40	39	39	35.0	2	without mounting holes										5.30
28 42 050	4	502.40	40	39	39	35.0	2	62.8	125.66	4	12	14	15	9	37.5	427.7	7.7	5.30
28 40 100	4	1005.30	80	39	39	35.0	2	62.8	125.66	8	12	10	15	9	37.5	930.3	7.7	10.50
28 41 100	4	1005.30	80	39	39	35.0	2	without mounting holes										10.50
28 42 100	4	1005.30	80	39	39	35.0	2	62.8	125.66	8	12	14	20	13	37.5	930.3	11.7	10.50

2) Due to the screw connection, the feed force is max. 50 % of the value for racks with  $L_1 = 1,000$  mm

**Total Pitch Error:**  
 $GT_f / 250 \leq 0.020$  mm  
 $GT_f / 500 \leq 0.026$  mm  
 $GT_f / 1000 \leq 0.034$  mm

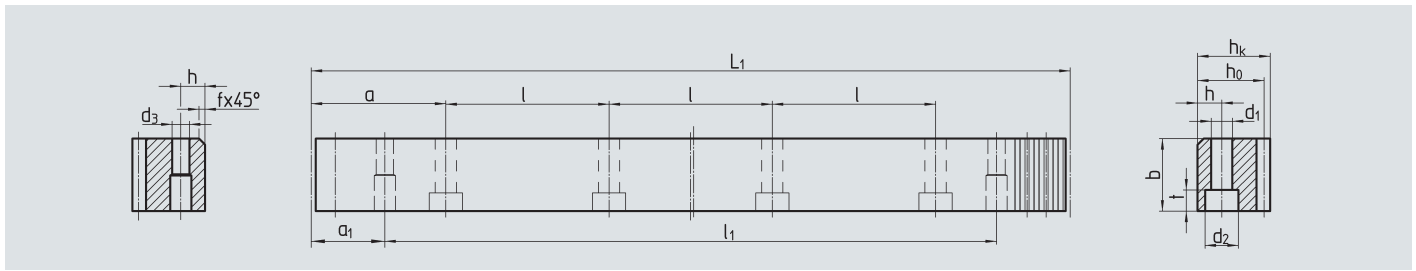
- ⊗ Teeth hardened with the ATLANTA High-Performance hardening process and ground
- ⊗ Heat-treatable steel according to ATLANTA-Standard
- ⊗ Ground on all sides after hardening

For information on mounting racks, see page C-92.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page C-96. For lubrication of racks & pinions, we recommend our electronic lubrication systems, see Chapter D. For the calculation and selection of the rack & pinion drive, see pages C-44 to C-55.

For screws for rack mounting, see page C- 95.

## ATLANTA Quality 6



Order Code	Module	L <sub>1</sub>	N° of Teeth z	b <sup>+0.4</sup>	h <sub>k</sub>	h <sub>0</sub>	f	a	l	N° of Holes	h	d <sub>1</sub>	d <sub>2</sub>	t	a <sub>1</sub>	l <sub>1</sub>	d <sub>3</sub>	kg
28 20 105	2	1005.30	160	24	24	22.0	2	62.8	125.66	8	8	7	11	7	31.4	942.70	5.7	4.20
28 21 105	2	1005.30	160	24	24	22.0	2	without mounting holes										4.20
28 20 205	2	2010.62	320	24	24	22.0	2	62.8	125.66	16	8	7	11	7	31.4	1948.00	5.7	8.40
28 21 205	2	2010.62	320	24	24	22.0	2	without mounting holes										8.40
28 30 105	3	1017.90	108	29	29	26.0	2	63.6	127.23	8	9	10	15	9	34.4	949.10	7.7	6.00
28 31 105	3	1017.90	108	29	29	26.0	2	without mounting holes										6.00
28 30 205	3	2035.75	216	29	29	26.0	2	63.6	127.23	16	9	10	15	9	34.4	1967.00	7.7	12.00
28 31 205	3	2035.75	216	29	29	26.0	2	without mounting holes										12.00
28 40 105	4	1005.30	80	39	39	35.0	2	62.8	125.66	8	12	10	15	9	37.5	930.30	7.7	10.50
28 41 105	4	1005.30	80	39	39	35.0	2	without mounting holes										10.50
28 42 105	4	1005.30	80	39	39	35.0	2	62.8	125.66	8	12	14	20	13	37.5	930.30	11.7	10.50
28 40 205	4	2010.62	160	39	39	35.0	2	62.8	125.66	16	12	10	15	9	37.5	1935.60	7.7	21.00
28 41 205	4	2010.62	160	39	39	35.0	2	without mounting holes										21.00
28 42 205	4	2010.62	160	39	39	35.0	2	62.8	125.66	16	12	14	20	13	37.5	1935.60	11.7	21.00
28 50 105	5	1005.30	64	49	39	34	2.5	62.8	125.66	8	12	14	20	13	30.1	945.00	11.7	13.40
28 51 105	5	1005.30	64	49	39	34	2.5	without mounting holes										13.40
28 50 205	5	2010.62	128	49	39	34	2.5	62.8	125.66	16	12	14	20	13	30.1	1950.40	11.7	26.80
28 51 205	5	2010.62	128	49	39	34	2.5	without mounting holes										26.80
28 60 105	6	1017.88	54	59	49	43	2.5	63.6	127.23	8	16	18	26	17	31.4	955.00	15.7	18.50
28 61 205	6	1017.88	54	59	49	43	2.5	without mounting holes										18.50
28 60 205	6	2035.75	108	59	49	43	2.5	63.6	127.23	16	16	18	26	17	31.4	1973.00	15.7	37.00
28 61 205	6	2035.75	108	59	49	43	2.5	without mounting holes										37.00
28 80 105	8	1005.30	40	79	79	71	2.5	62.8	125.66	8	25	22	33	21	26.6	952.00	19.7	44.76
28 81 105	8	1005.30	40	79	79	71	2.5	without mounting holes										44.76
28 80 205	8	2010.61	80	79	79	71	2.5	62.8	125.66	16	25	22	33	21	26.6	1957.30	19.7	89.50
28 81 205	8	2010.61	80	79	79	71	2.5	without mounting holes										89.50
28 10 105 <sup>1)</sup>	10	1005.30	32	99	99	89	2.5	62.83	125.66	8	32	33	48	32	125.66	753.96	19.7	68.72
28 11 105 <sup>1)</sup>	10	1005.30	32	99	99	89	2.5	without mounting holes										68.72
28 12 105 <sup>1)</sup>	12	1017.90	27	120	120	108	2.5	63.60	127.23	8	40	39	58	38	127.23	763.40	19.7	111.00
28 13 105 <sup>1)</sup>	12	1017.90	27	120	120	108	2.5	without mounting holes										120.00

1) On request

Other lengths available on request

**Total Pitch Error:**  $GT_f/1000 \leq 0.034 \text{ mm}$   
 $GT_f/1500 \leq 0.041 \text{ mm} (\pm 0.027 \text{ mm} / 1000)$   
 $GT_f/2000 \leq 0.044 \text{ mm} (\pm 0.022 \text{ mm} / 1000)$

- ⊗ Teeth hardened with the ATLANTA High-Performance hardening process and ground
- ⊗ Heat-treatable steel according to ATLANTA-Standard
- ⊗ Ground on all sides after hardening

For information on mounting racks, see page C-92.

To achieve precision rack joints, we recommend our patented rack assembly kit, see page C-96. For lubrication of racks &amp; pinions, we recommend our electronic lubrication systems, see Chapter D. For the calculation and selection of the rack &amp; pinion drive, see pages C-44 to C-55.

For screws for rack mounting, see page C- 95.