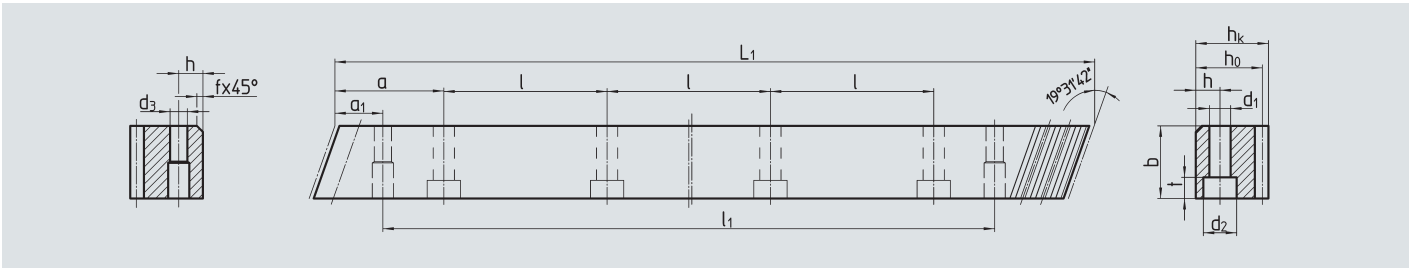



ATLANTA Quality 6



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	
29 20 050 ²⁾	2	500.00	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.10
29 21 050	2	500.00	75	24	24	22	2	without mounting holes										2.10
29 20 100	2	1000.00	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.10
29 21 100	2	1000.00	150	24	24	22	2	without mounting holes										4.10
29 30 050 ²⁾	3	500.00	50	29	29	26	2	62.5	125	4	9	10	15	9	35.0	430.0	7.7	2.90
29 31 050	3	500.00	50	29	29	26	2	without mounting holes										2.90
29 30 100	3	1000.00	100	29	29	26	2	62.5	125	8	9	10	15	9	35.0	930.0	7.7	5.90
29 31 100	3	1000.00	100	29	29	26	2	without mounting holes										5.90
29 40 050 ¹⁾²⁾	4	506.67	38	39	39	35	2	62.5	125	4	12	10	15	9	33.3	433.0	7.7	5.40
29 31 050	4	506.67	38	39	39	35	2	without mounting holes										5.40
29 40 100	4	1000.00	75	39	39	35	2	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.70
29 41 100	4	1000.00	75	39	39	35	2	without mounting holes										10.70
29 42 100	4	1000.00	75	39	39	35	2	62.5	125	8	12	14	20	13	33.3	933.4	11.7	10.70

- 1) This rack can only be used for continuous linking with the left side (see sketch).
- 2) Due to the screw connection, the feed force is max. 50 % of the value for racks with L₁ = 1,000 mm

Total Pitch Error: $GT_f / 500 \leq 0.026 \text{ mm}$
 $GT_f / 1000 \leq 0.034 \text{ mm}$

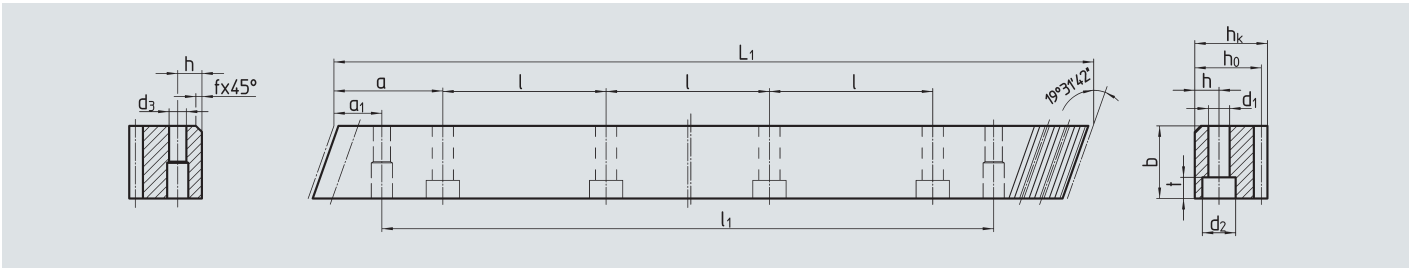
- ⊗ Teeth hardened with the ATLANTA High-Performance hardening process and ground
- ⊗ Heat-treatable steel according to ATLANTA-Standard
- ⊗ Ground on all sides after hardening

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 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	
29 15 055 ²⁾	1.5	500.00	100	19	19	17.5	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	1.30	
29 15 105	1.5	1000.00	200	19	19	17.5	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	2.60	
29 16 105	1.5	1000.00	200	19	19	17.5	2			without mounting holes									2.60
29 20 055 ²⁾	2	500.00	75	24	24	22	2	62.5	125	4	8	7	11	7	31.7	436.6	5.7	2.10	
29 20 105	2	1000.00	150	24	24	22	2	62.5	125	8	8	7	11	7	31.7	936.6	5.7	4.10	
29 21 105	2	1000.00	150	24	24	22	2			without mounting holes									4.10
29 20 155	2	1500.00	225	24	24	22	2	62.5	125	12	8	7	11	7	31.7	1436.6	5.7	6.15	
29 20 205	2	2000.00	300	24	24	22	2	62.5	125	16	8	7	11	7	31.7	1936.6	5.7	8.20	
29 21 205	2	2000.00	300	24	24	22	2			without mounting holes									8.20
29 30 055 ²⁾	3	500.00	50	29	29	26	2	62.5	125	4	9	10	15	9	35.0	430.0	7.7	2.90	
29 30 105	3	1000.00	100	29	29	26	2	62.5	125	8	9	10	15	9	35.0	930.0	7.7	5.90	
29 31 105	3	1000.00	100	29	29	26	2			without mounting holes									5.90
29 30 155	3	1500.00	150	29	29	26	2	62.5	125	12	9	10	15	9	35.0	1430.0	7.7	8.85	
29 30 205	3	2000.00	200	29	29	26	2	62.5	125	16	9	10	15	9	35.0	1930.0	7.7	11.80	
29 31 205	3	2000.00	200	29	29	26	2			without mounting holes									11.80
29 40 105	4	1000.00	75	39	39	35	2	62.5	125	8	12	10	15	9	33.3	933.4	7.7	10.70	
29 41 105	4	1000.00	75	39	39	35	2			without mounting holes									10.70
29 42 105	4	1000.00	75	39	39	35	2	62.5	125	8	12	14	20	13	33.3	933.4	11.7	10.70	
29 42 155 ¹⁾	4	1506.67	113	39	39	35	2	62.5	125	12	12	14	20	13	33.3	1433.4	11.7	16.05	
29 40 205	4	2000.00	150	39	39	35	2	62.5	125	16	12	10	15	9	33.3	1933.4	7.7	21.40	
29 41 205	4	2000.00	150	39	39	35	2			without mounting holes									21.40
29 42 205	4	2000.00	150	39	39	35	2	62.5	125	16	12	14	20	13	33.3	1933.4	11.7	21.40	
29 50 055 ²⁾	5	500.00	30	49	49	34	2.5	62.5	125	4	12	14	20	13	37.5	425.0	11.7	6.50	
29 50 105	5	1000.00	60	49	49	34	2.5	62.5	125	8	12	14	20	13	37.5	925.0	11.7	13.00	
29 51 105	5	1000.00	60	49	49	34	2.5			without mounting holes									13.00
29 50 155	5	1500.00	120	49	49	34	2.5	62.5	125	12	12	14	20	13	37.5	1425.0	11.7	19.50	
29 50 205	5	2000.00	120	49	49	34	2.5	62.5	125	16	12	14	20	13	37.5	1925.0	11.7	26.00	
29 51 205	5	2000.00	120	49	49	34	2.5			without mounting holes									26.00
29 60 055 ²⁾	6	500.00	25	59	49	43	2.5	62.5	125	4	16	18	26	17	37.5	425.0	15.7	9.90	
29 60 105	6	1000.00	50	59	49	43	2.5	62.5	125	8	16	18	26	17	37.5	925.0	15.7	18.10	
29 61 105	6	1000.00	50	59	49	43	2.5			without mounting holes									18.10
29 60 155	6	1500.00	75	59	49	43	2.5	62.5	125	12	16	18	26	17	37.5	1425.0	15.7	27.10	
29 60 205	6	2000.00	100	59	49	43	2.5	62.5	125	16	16	18	26	17	37.5	1925.0	15.7	36.20	
29 61 205	6	2000.00	100	59	49	43	2.5			without mounting holes									36.20
29 80 105	8	960.00	36	79	79	71	2.5	60.0	120	8	25	22	33	21	120.0	720.0	19.7	42.50	
29 81 105	8	960.00	36	79	79	71	2.5			without mounting holes									42.50
29 80 205	8	1920.00	72	79	79	71	2.5	60.0	120	16	25	22	33	21	120.0	1680.0	19.7	85.00	
29 81 205	8	1920.00	72	79	79	71	2.5			without mounting holes									85.00
29 10 105 ³⁾	10	1000.00	30	99	99	89	2.5	62.5	125	8	32	33	48	32	125.0	750.0	19.7	68.72	
29 11 105 ³⁾	10	1000.00	30	99	99	89	2.5			without mounting holes									68.72
29 10 155 ³⁾	10	1500.00	45	99	99	89	2.5	62.5	125	12	32	33	48	32	125	1250.0	19.7	103.00	
29 12 105 ³⁾	12	1000.00	25	120	120	108	2.5	40.0	125	8	40	39	58	38	125.0	750.0	19.7	111.00	
29 13 105 ³⁾	12	1000.00	25	120	120	108	2.5			without mounting holes									111.00

- 1) This rack can only be used for continuous linking with the left side
- 2) Due to the screw connection, the feed force is max. 50 % of the value for racks with L₁ = 1,000 mm
- 3) On Request

Total Pitch Error: **GT_f/ 500 ≤ 0.026 mm**
 GT_f/1000 ≤ 0.034 mm
 GT_f/1500 ≤ 0.041 mm (± 0.027 mm / 1000)
 GT_f/2000 ≤ 0.044 mm (± 0.022 mm / 1000)

For further information see next page