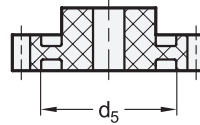
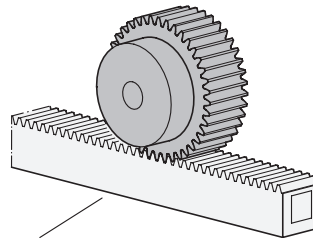
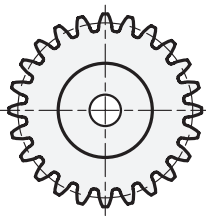


$z \geq 31$



Application example



Gear rack GN 7822



Module	z Tooth count		b <sub>1</sub> Tooth width	b <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub> Pitch circle Ø	d <sub>3</sub>	d <sub>4</sub> Pre-bored hole	d <sub>5</sub>	Max. torque in Nm
	GR	VDB								
2	12	12	20	35	28	24	18	8	-	15,5
2	13	-	20	35	30	26	18	8	-	16,8
2	14	-	20	35	32	28	20	8	-	18,1
2	15	15	20	35	34	30	22	8	-	19,4
2	16	-	20	35	36	32	25	8	-	20,7
2	17	-	20	35	38	34	25	8	-	21,9
2	18	-	20	35	40	36	30	10	-	23,2
2	19	-	20	35	42	38	30	10	-	24,5
2	20	20	20	35	44	40	30	10	-	25,8
2	21	-	20	35	46	42	30	10	-	27,1
2	22	-	20	35	48	44	30	10	-	28,4
2	23	-	20	35	50	46	35	10	-	29,7
2	24	24	20	35	52	48	35	10	-	31
2	25	-	20	35	54	50	35	10	-	32,3
2	26	-	20	35	56	52	40	14	-	33,6
2	27	-	20	35	58	54	40	14	-	34,9
2	28	-	20	35	60	56	40	14	-	36,1
2	29	-	20	35	62	58	40	14	-	37,4
2	30	30	20	35	64	60	40	14	-	38,7
2	31	-	20	35	66	62	40	14	48	40
2	32	-	20	35	68	64	45	16	51	41,3
2	33	-	20	35	70	66	45	16	51	42,6
2	34	-	20	35	72	68	45	16	51	43,9
2	35	-	20	35	74	70	45	16	51	45,2
2	36	36	20	35	76	72	50	16	59	46,5
2	37	-	20	35	78	74	50	16	59	47,8
2	38	-	20	35	80	76	50	16	59	49,1

Module	z Tooth count		b <sub>1</sub> Tooth width	b <sub>2</sub>	d <sub>1</sub>	d <sub>2</sub> Pitch circle Ø	d <sub>3</sub>	d <sub>4</sub> Pre-bored hole	d <sub>5</sub>	Max. torque in Nm
	GR	VDB								
2	39	-	20	35	82	78	50	16	59	50,4
2	40	40	20	35	84	80	55	16	66	51,6
2	42	-	20	35	88	84	55	16	66	54,2
2	44	-	20	35	92	88	60	16	68	56,8
2	45	-	20	35	94	90	60	16	68	58,1
2	46	-	20	35	96	92	60	16	75	59,4
2	48	48	20	35	100	96	60	16	75	62
2	50	-	20	35	104	100	60	20	84	64,6
2	52	-	20	35	108	104	60	20	90	67,1
2	54	-	20	35	112	108	60	20	90	69,7
2	57	-	20	35	118	114	60	20	90	73,6
2	60	-	20	35	124	120	60	20	101	77,5
2	62	-	20	35	128	124	60	20	101	80
2	64	-	20	35	132	128	60	20	101	82,6
2	65	-	20	35	134	130	60	20	101	83,9
2	66	-	20	35	136	132	60	20	101	85,2
2	68	-	20	35	140	136	60	20	101	87,8
2	70	-	20	35	144	140	60	20	117	90,4
2	72	-	20	35	148	144	60	20	117	93
2	74	-	20	35	152	148	60	20	117	95,5
2	75	-	20	35	154	150	60	20	117	96,8
2	76	-	20	35	156	152	60	20	117	98,1
2	78	-	20	35	160	156	60	20	117	100,7
2	80	-	20	35	164	160	60	20	117	103,3
2	90	-	20	35	184	180	60	20	147	116,2
2	100	-	20	35	204	200	60	25	183	129,1

### Specification

- Plastic Technopolymer (Polyamide PA)
  - Glass fiber reinforced
  - Temperature resistant up to 120 °C
  - Gray ● GR
- Plastic Technopolymer (Polyamide PA)
  - Glass fiber reinforced
  - Temperature resistant up to 120 °C
  - FDA compliant plastic granulate
  - Blue, RAL 5005, matte finish
  - Visually detectable ● VDB
- ISO Fundamental Tolerances → Page 2151
- Plastic Characteristics → Page 2158
- RoHS

### On request

- With keyway
- With bore H9



### Information

Spur gears GN 7802 of plastic reduce both weight and noise while offering high corrosion resistance.

Spur gears of polyamide allow the transmission of significantly higher torques compared with gears made of other plastics. This makes them especially suited for applications with high torques at low speeds.

The spur gears have involute toothing with a pressure angle of 20°. More details about the design as well as shaping the hub or machining a keyway can be found in the technical information.

see also...

- General Notes for Gears → Page 1
- Technical Instructions for Gears → Page 2
- Product Family Standard Parts made of Detectable Plastics → Page 2157

#### How to order

**GN 7802- 2-21-GR**

1	Module
2	Tooth count z
3	Color

