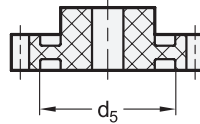
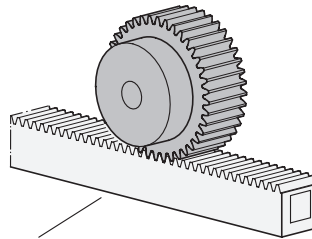
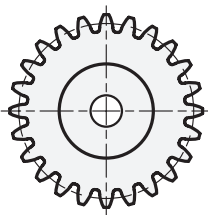


$z \geq 38$



**Application example**



Gear rack GN 7822

1

2

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								
1,5	12	12	17	30	21	18	14	5	-	6,8
1,5	14	-	17	30	24	21	16	5	-	8
1,5	15	15	17	30	25,5	22,5	18	5	-	8,5
1,5	16	-	17	30	27	24	18	5	-	9,1
1,5	18	18	17	30	30	27	20	6	-	10,3
1,5	20	20	17	30	33	30	25	8	-	11,4
1,5	21	-	17	30	34,5	31,5	25	8	-	12
1,5	22	-	17	30	36	33	28	8	-	12,5
1,5	24	24	17	30	39	36	28	8	-	13,7
1,5	25	-	17	30	40,5	37,5	30	8	-	14,2
1,5	26	-	17	30	42	39	30	8	-	14,8
1,5	28	-	17	30	45	42	30	8	-	16
1,5	30	30	17	30	48	45	35	12	-	17,1
1,5	32	-	17	30	51	48	35	12	-	18,2
1,5	33	-	17	30	52,5	49,5	35	12	-	18,8
1,5	34	-	17	30	54	51	35	12	-	19,4
1,5	35	-	17	30	55,5	52,5	35	12	-	19,9
1,5	36	36	17	30	57	54	35	12	-	20,5



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								
1,5	38	-	17	30	60	57	35	16	42	21,7
1,5	39	-	17	30	61,5	58,5	35	16	42	22,2
1,5	40	40	17	30	63	60	40	16	48	22,8
1,5	42	-	17	30	66	63	45	16	53	23,9
1,5	44	-	17	30	69	66	45	16	53	25,1
1,5	45	-	17	30	70,5	67,5	45	16	53	25,6
1,5	46	-	17	30	72	69	45	16	53	26,2
1,5	48	48	17	30	75	72	45	16	53	27,4
1,5	50	-	17	30	78	75	45	16	53	28,5
1,5	51	-	17	30	79,5	76,5	50	20	63	29,1
1,5	52	-	17	30	81	78	50	20	63	29,6
1,5	54	-	17	30	84	81	50	20	63	30,8
1,5	55	-	17	30	85,5	82,5	50	20	63	31,3
1,5	60	-	17	30	93	90	55	20	73	34,2
1,5	65	-	17	30	100,5	97,5	60	20	81	37
1,5	70	-	17	30	108	105	60	20	93	39,9
1,5	75	-	17	30	115,5	112,5	60	20	93	42,7
1,5	80	-	17	30	123	120	60	20	109	45,6

## Specification

- Plastic Technopolymer (Polyamide PA)
  - Glass fiber reinforced
  - Temperature resistant up to 120 °C
  - Gray



- Plastic Technopolymer (Polyamide PA)
  - Glass fiber reinforced
  - Temperature resistant up to 120 °C
  - FDA compliant plastic granulate
  - Blue, RAL 5005, matte finish
  - Visually detectable



- 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 7802-1,5-48-VDB

1	Module
2	Tooth count z
3	Color