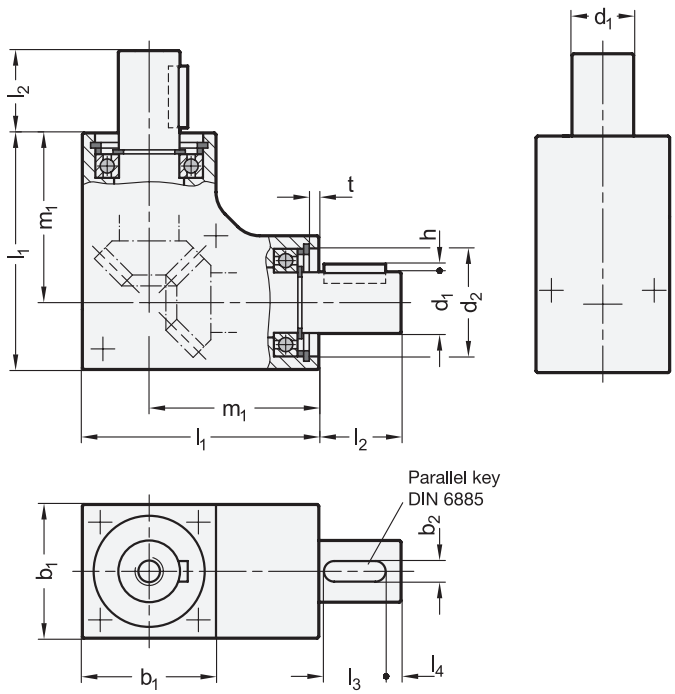


2 Type

L Angular gear 90°

1 b_1	3 d_1 j6	b_2	d_2	h	l_1	l_2	l_3	l_4	m_1	t
18	6	2	13	0,8	32	12	8	2	23	2,1
20	8	2	16	0,8	35	12	8	2	25	1,95
24	10	4*	19	1,5	42	16	12	3	30	2
26	12	4	21	1,5	46	16	12	3	33	2
30	12	4	24	1,5	53	16	12	3	38	2,1
32	12	4	28	1,5	56	16	12	3	40	2,1
35	12	4	30	1,5	60	16	12	3	42,5	2,1

* Deviating from DIN 6885

Specification

4

- Housing
  - Aluminum
  - Sealed to prevent dust entry
  - Anodized, natural color **AN**
- Bevel gear wheels
  Steel, case-hardened
- Ball bearing
  - Steel
  - Sealed (sealing disks 2RS)
- Temperature range: -20 °C to +60 °C
- *Keyway P9 DIN 6885 Page 1 → Page 2078*
- *ISO Fundamental Tolerances → Page 2151*
- RoHS

Information

Bevel gear boxes GN 3971 can transmit high torque despite their very compact dimensions. They can readily be used for a multitude of applications, such as height adjustments or to change the direction of shaft rotation.

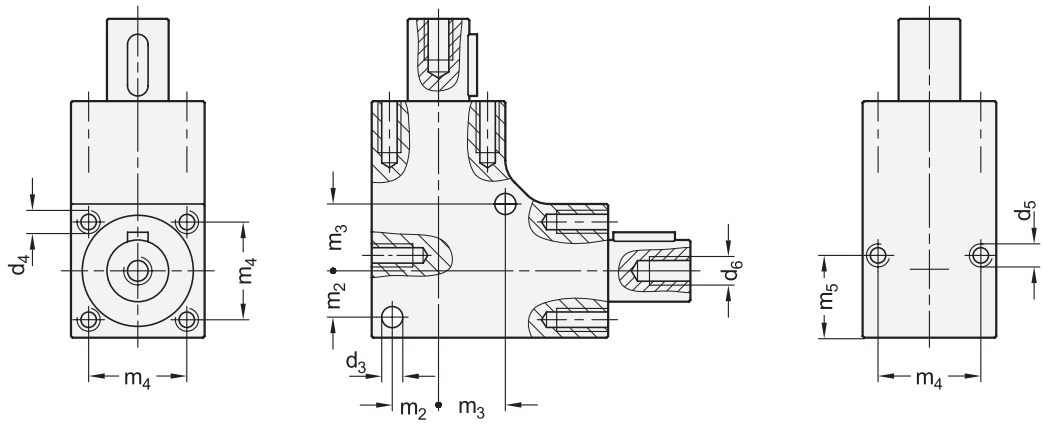
The numerous fastening holes allow for simple mounting in any orientation or position. The parallel keys can take any angular positions.

see also...
- *Worm Gear Reducers GN 3975 → Page 4*

How to order

1 2 3 4
GN 3971-26-L-12-AN

1	b_1
2	Type
3	d_1
4	Finish



b_1	d_3	d_4**	d_5**	d_6***	m_2	m_3	m_4	m_5
18	3,1	M 3	M 3	M 3	6	8,5	13	11
20	3,1	M 3	M 3	M 3	7	10	15	10
24	4,1	M 4	M 4	M 4	8	12	18	16
26	4,1	M 4	M 4	M 5	9	13	20	16
30	4,1	M 4	M 4	M 5	11	15	22	16
32	4,1	M 4	M 4	M 5	12	17	24	16
35	4,1	M 4	M 4	M 5	13,5	17,5	26	16

** Usable thread depth: min. 2 x d_4 / d_5, *** Usable thread depth: min. 1.6 x d_6

Mechanical Features

Gear ratio i	1 : 1
Circumferential backlash at the drive shaft	3° ± 0.5°
Shaft direction of rotation	Any
Life expectancy (guideline)	1,000 hours under full load at a rotational speed of 500 rpm, assuming the gear box is operating for 20% of every 5 minutes (1 minute of operation + 4 minutes break) at an ambient temperature of 20 °C
Maintenance	Permanent lubrication with grease, maintenance-free

b_1	Max. torque in Nm			Max. radial force in N*	Max. axial force in N**
	at 100 min^{-1}	at 500 min^{-1}	at 1000 min^{-1}		
18	0,35	0,1	0,05	60	60
20	0,75	0,3	0,15	100	100
24	2,5	1	0,5	120	120
26	4	1,5	0,75	140	140
30	5	2	1	240	240
32	8	3	1,5	550	550
35	10	4	2	550	550

* At axial force = 0, ** At radial force = 0

Assembly Instructions

Do not exert any forces onto the housing or into the bearings during assembly. Use of the threaded holes d_6 in the shaft is recommended. The use of a corresponding coupling is recommended to compensate for manufacturing-related shaft offsets and runout tolerances as well as for damping vibrations and shocks.