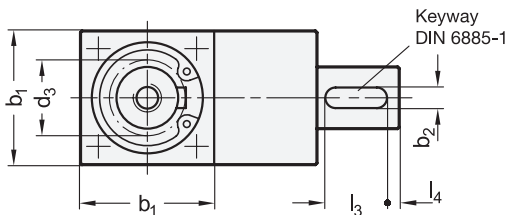
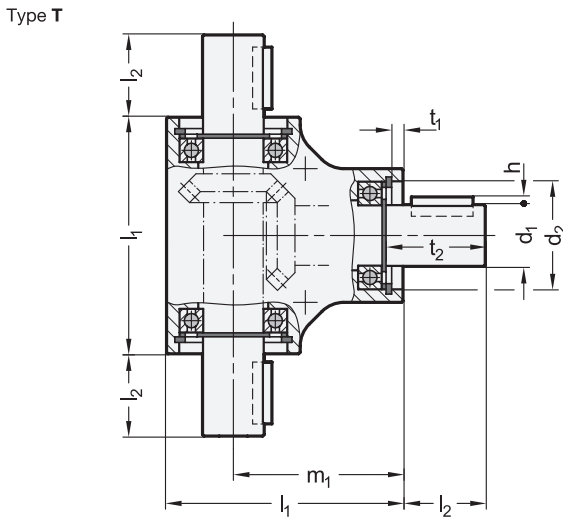


**2 Type**

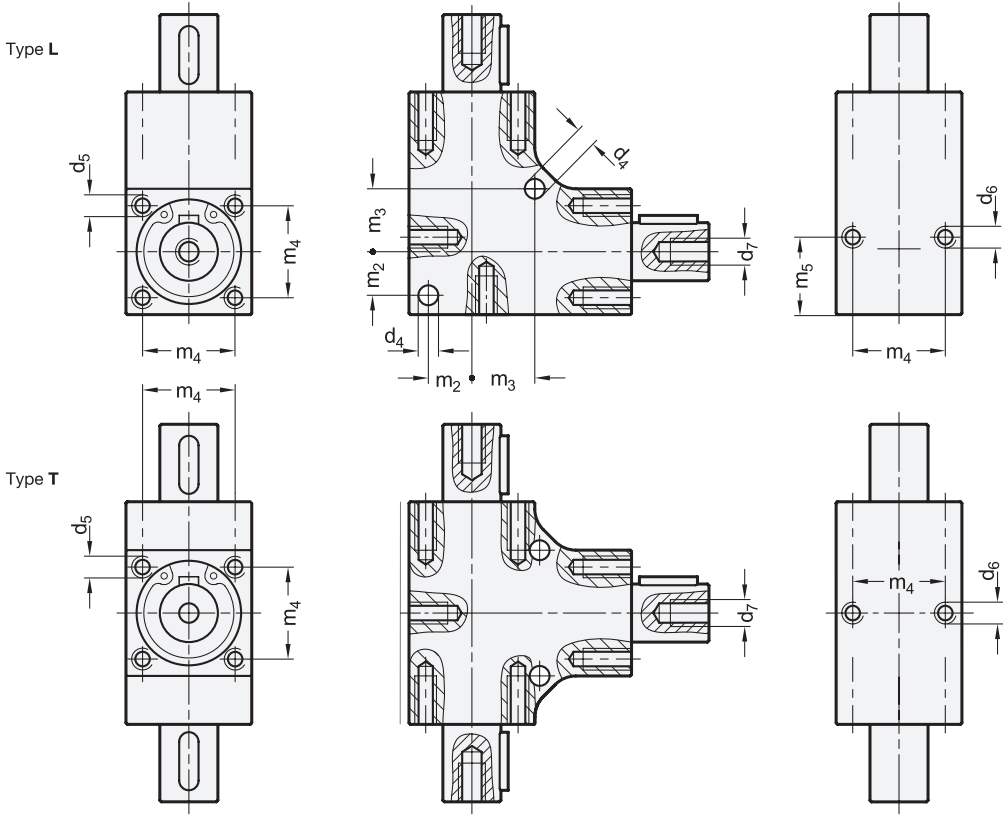
- L Bevel gear 90°
- T Bevel gear with two output shafts



**1** **3**

b <sub>1</sub>	d <sub>1</sub> j6		b <sub>2</sub>		d <sub>2</sub>	d <sub>3</sub> **	h		l <sub>1</sub>	l <sub>2</sub>	l <sub>3</sub>		l <sub>4</sub>	m <sub>1</sub>	t <sub>1</sub>		t <sub>2</sub>	
	Type L	Type T	Type L	Type T			Type L	Type T			Type L	Type T			Type L	Type T	Type L	Type T
18	6	6	2	2	13	-	0,8	0,8	32	12	8	8	2	23	2,1	3,1	15,4	15,1
20	8	6	2	2	16	9,2	0,8	0,8	35	12	8	8	2	25	1,95	2,25	15,3	14,25
24	10	8	4*	3	19	11,8	1,5	1,2	42	16	12	10	3	30	2	2	18	18
26	12	8	4	3	21	13,6	1,5	1,2	46	16	12	10	3	33	2	2	19,5	18
30	12	8	4	3	24	16,4	1,5	1,2	53	16	12	10	3	38	2,1	2,3	18,3	18,3
32	12	10	4	3	28	19,8	1,5	1,2	56	16	12	10	3	40	2,1	2,8	18,3	18,8
35	12	12	4	4	30	20,4	1,5	1,5	60	16	12	12	3	42,5	2,1	3,2	18,3	19,2

\* Deviating from DIN 6885-1 \*\* Theoretically usable hub diameter



b <sub>1</sub>	d <sub>4</sub>	d <sub>5</sub> ***	d <sub>6</sub> ***	d <sub>7</sub> ****		m <sub>2</sub>	m <sub>3</sub>	m <sub>4</sub>	m <sub>5</sub>
				Type L	Type T				
18	3,1	M 3	M 3	M 3	M 3	6	8,5	13	11
20	3,1	M 3	M 3	M 3	M 3	7	10	15	10
24	4,1	M 4	M 4	M 4	M 4	8	12	18	16
26	4,1	M 4	M 4	M 5	M 4	9	13	20	16
30	4,1	M 4	M 4	M 5	M 4	11	15	22	16
32	4,1	M 4	M 4	M 5	M 4	12	17	24	16
35	4,1	M 4	M 4	M 5	M 5	13,5	17,5	26	16

\*\*\* Usable thread depth: min. 2 x d<sub>5</sub> / d<sub>6</sub> \*\*\*\* Usable thread depth: min. 1.6 x d<sub>7</sub>

**Specification**

**Housing**

- Aluminum
- Sealed to prevent dust entry
- Anodized, natural color



AN

**Bevel gear wheels**

Steel, case-hardened

**Ball bearing**

Steel  
Sealed (sealing disks 2RS)

**Operating temperature** -20 °C to +60 °C

RoHS

**Technical Information**

Page

Application example	QVX
Keyways DIN 6885-1	QVX
ISO Fundamental Tolerances	QVX

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...

GN 3975 Worm Gear Reducers

Page

QVX

How to order

**GN 3971-26-L-12-AN**

- 1 b<sub>1</sub>
- 2 Type
- 3 d<sub>1</sub>
- 4 Finish



## Mechanical Features

<b>Gear ratio i</b>	1 : 1
<b>Circumferential backlash at the drive shaft</b>	$3^\circ \pm 0.5^\circ$
<b>Shaft direction of rotation</b>	Any
<b>Life expectancy (guideline)</b>	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
<b>Maintenance</b>	Permanent lubrication with grease, maintenance-free

<b>b<sub>1</sub></b>	Max. torque in Nm at 100 min <sup>-1</sup>	at 500 min <sup>-1</sup>	at 1000 min <sup>-1</sup>	Max. radial force in N*	Max. axial force in N**
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  $d_7$  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.

## Application example

