

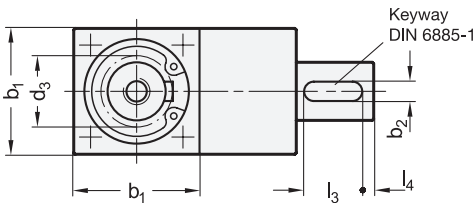
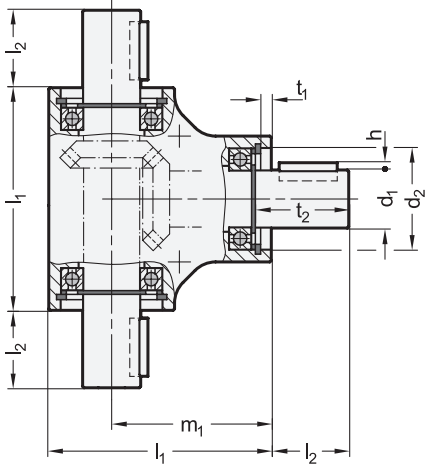
Metric



2 Type

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

Type T



Specification

Housing

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

AN

Bevel gear wheels

Steel, case-hardened

Ball bearing

Steel
Sealed (sealing disks 2RS)

Operating temperature:

-4 °F to +140 °F (-20 °C to +60 °C)

RoHS

Bevel gear boxes GN 3971 can transmit high torque despite their very compact dimensions. They can readily be used for 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.

Technical Information

Application Example	QVX
Keyways WN 6885 / DIN 6885-1	QVX
ISO Fundamental Tolerances	QVX

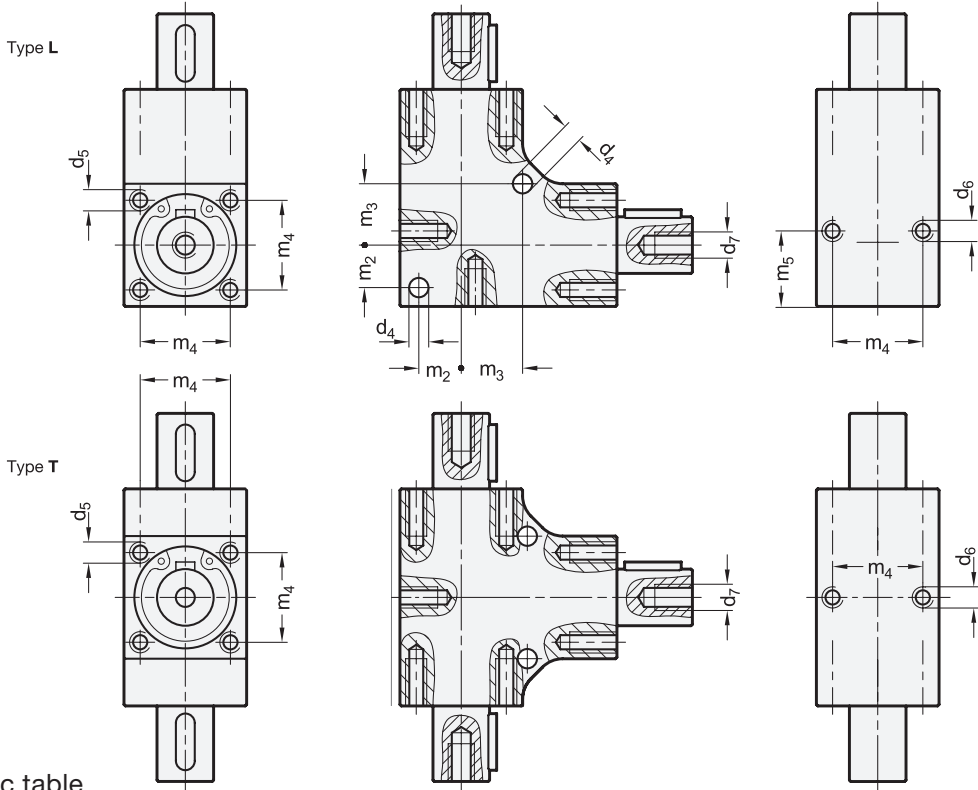
How to order

GN3971-26-L-12-AN

- 1 Width b_1
- 2 Type
- 3 Diameter d_1
- 4 Finish

3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
3.10





Metric table

1 3

Dimensions in: millimeters / inches

b ₁	d _{1 j6}		b ₂		d ₂	d _{3**}	h		l ₁	l ₂	l ₃		l ₄	m ₁	t ₁		t ₂	
	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 0.71	6 0.2362	6 0.2362	2 0.08	2 0.08	13 0.51	-	0.8 0.03	0.8 0.03	32 1.26	12 0.47	8 0.31	8 0.31	2 0.08	23 0.91	2.1 0.08	3.1 0.12	15.4 0.61	15.1 0.59
20 0.79	8 0.3150	6 0.2362	2 0.08	2 0.08	16 0.63	9.2 0.36	0.8 0.03	0.8 0.03	35 1.38	12 0.47	8 0.31	8 0.31	2 0.08	25 0.98	2 0.08	2.3 0.09	15.3 0.60	14.3 0.56
24 0.94	10 0.3937	8 0.3150	4* 0.16	3 0.12	19 0.75	11.8 0.46	1.5 0.06	1.2 0.05	42 1.65	16 0.63	12 0.47	10 0.39	3 0.12	30 1.18	2 0.08	2 0.08	18 0.71	18 0.71
26 1.02	12 0.4724	8 0.3150	4 0.16	3 0.12	21 0.83	13.6 0.54	1.5 0.06	1.2 0.05	46 1.81	16 0.63	12 0.47	10 0.39	3 0.12	33 1.30	2 0.08	2 0.08	19.5 0.77	18 0.71
30 1.18	12 0.4724	8 0.3150	4 0.16	3 0.12	24 0.94	16.4 0.65	1.5 0.06	1.2 0.05	53 2.09	16 0.63	12 0.47	10 0.39	3 0.12	38 1.50	2.1 0.08	2.3 0.09	18.3 0.72	18.3 0.72
32 1.26	12 0.4724	10 0.3937	4 0.16	3 0.12	28 1.10	19.8 0.78	1.5 0.06	1.2 0.05	56 2.20	16 0.63	12 0.47	10 0.39	3 0.12	40 1.57	2.1 0.08	2.8 0.11	18.3 0.72	18.8 0.74
35 1.38	12 0.4724	12 0.4724	4 0.16	4 0.16	30 1.18	20.4 0.80	1.5 0.06	1.5 0.06	60 2.36	16 0.63	12 0.47	12 0.47	3 0.12	42.5 1.67	2.1 0.08	3.2 0.13	18.3 0.72	19.2 0.76

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

b ₁	d ₄	d _{5***}	d _{6***}	d _{7****}		m ₂	m ₃	m ₄	m ₅
				Type L	Type T				
18 0.71	3.1 0.12	M 3	M 3	M 3	M 3	6 0.24	8.5 0.33	13 0.51	11 0.43
20 0.79	3.1 0.12	M 3	M 3	M 3	M 3	7 0.28	10 0.39	15 0.59	10 0.39
24 0.94	4.1 0.16	M 4	M 4	M 4	M 4	8 0.31	12 0.47	18 0.71	16 0.63
26 1.02	4.1 0.16	M 4	M 4	M 5	M 4	9 0.35	13 0.51	20 0.79	16 0.63
30 1.18	4.1 0.16	M 4	M 4	M 5	M 4	11 0.43	15 0.59	22 0.87	16 0.63
32 1.26	4.1 0.16	M 4	M 4	M 5	M 4	12 0.47	17 0.67	24 0.94	16 0.63
35 1.38	4.1 0.16	M 4	M 4	M 5	M 5	13.5 0.53	17.5 0.69	26 1.02	16 0.63

*** Usable thread depth: min. 2 x d₆ / d₆ **** Usable thread depth: min. 1.6 x d₇

Mechanical Features

Gear ratio i	1 : 1
Circumferential backlash at the drive shaft	$3^\circ \pm 0.5^\circ$
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 68 °F (20 °C)
Maintenance	Permanent lubrication with grease, maintenance-free

b₁	Max. torque in Nm			Max. radial force*	Max. axial force**
	at 100 min ⁻¹	at 500 min ⁻¹	at 1000 min ⁻¹		
18 0.71	0.35	0.1	0.05	60 N 13.49 lbf	60 N 13.49 lbf
20 0.79	0.75	0.3	0.15	100 N 22.48 lbf	100 N 22.48 lbf
24 0.94	2.5	1	0.5	120 N 26.98 lbf	120 N 26.98 lbf
26 1.02	4	1.5	0.75	140 N 31.47 lbf	140 N 31.47 lbf
30 1.18	5	2	1	240 N 53.95 lbf	240 N 53.95 lbf
32 1.26	8	3	1.5	550 N 124 lbf	550 N 124 lbf
35 1.38	10	4	2	550 N 124 lbf	550 N 124 lbf

* 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.

Application Example

