

# BoWex® curved tooth gear coupling

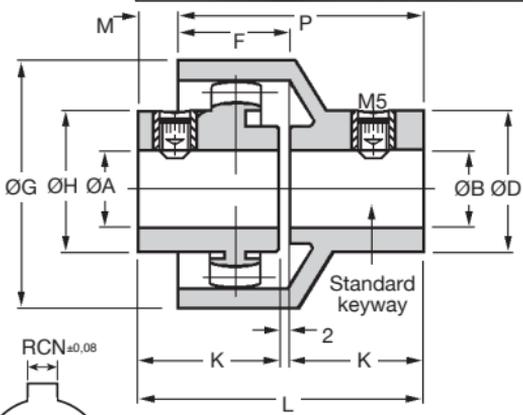
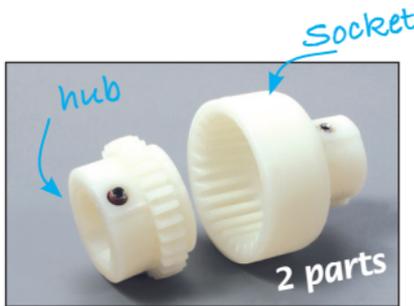
RTN 

Torque: 5 to 24Nm

**- Anti-corrosion materials**

- Very low wear
- BoWex® Junior
- Maintenance free
- 2 part construction
- Curved teeth
- Material: Nylon
- Working temp.: -25°C to +100°C
- Bore and keyway acc DIN6885/1-J59, fixing screw supplied
- Max. speed: 6.000 rpm
- Low weight and low inertia
- Axial assembly

Elements of same size can be combined



✓ MANY DIFFERENT BORES IN STOCK

**Info.**

- ØD is a non-operational surface and is not truly circular
- Supplied un-assembled

**DISCOUNTS**

Qty	1+	5+	10+	25+
Disc.	List	-6%	-12%	On request

Part number	K	L	P	F	M	Bores		Misalignment			Torque (Nm)		Price each 1 to 4			
						Hub	Socket	Axial	Radial	Angular	Tkn	Tkn max.				
RTN-J-14	23	48	40	18,5	8	22	22	6,8,9	8	40	±1	±0,1	±1°	5	10	25,38 €
						25	25	10,11	10,11							
						26	26	12,14	12,14							
RTN-J-19	25	52	42	19	10	27	29	12,14	14,15	47	±1	±0,1	±1°	8	16	38,50 €
						30	29	16	14,15							
						32	35	19	19							
RTN-J-24	26	54	45	21,5	9	32	26	10,11,12	14,16	53	±1	±0,1	±0,9°	12	24	46,43 €
						32	32	14,15,16	14,16							
						36	36	18,19,20	19,20							
						38	40	24	24							

\*Depending on availability - Dimensions in mm



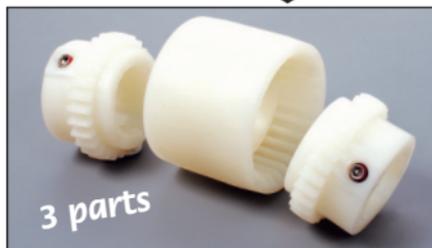
# BoWex® curved tooth gear coupling

Torque: 5 to 24Nm



- **Anti-corrosion material**
- Very low wear
- BoWex® junior
- Maintenance free
- 3 part construction
- Curved teeth
- Material: Nylon
- Working temp.: -25°C to +100°C
- Bore and keyway acc DIN6885/1-JS9, fixing screw supplied
- Tolerances:
  - Bore  $+0.05 / -0.1$
  - Keyway  $\pm 0.08$
- Axial assembly

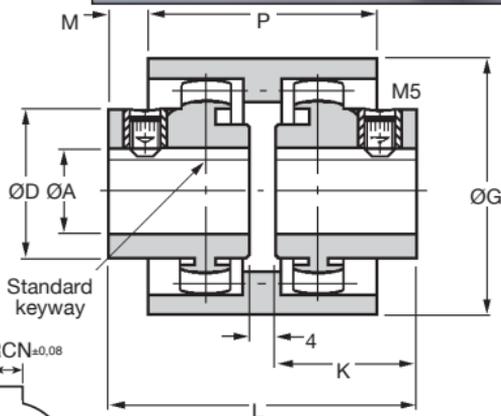
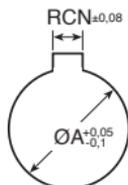
Elements of same size can be combined



## Info.

- $\varnothing D$  is a non-operational surface and is not truly circular
- Supplied un-assembled

**MANY DIFFERENT BORES IN STOCK**



## DISCOUNTS

Qty	1+	5+	10+	25+
Disc. List	-6%	-12%	On request	

Part number	K	L	P	M	ØD	ØA	ØG	Misalignment			Torque (Nm)		Price each 1 to 4
								Axial (mm)	Radial (mm)	Angular	Tkn	Tkn max.	
RTN-JM-14	23	50	37	6,50	22	6,7,8,9	40	$\pm 1^\circ$	$\pm 0,3$	$\pm 1^\circ$	5	10	34,97 €
					25	10,11							
					26	12,14							
RTN-JM-19	25	54	37	8,50	27	12,14	47	$\pm 1^\circ$	$\pm 0,3$	$\pm 1^\circ$	8	16	54,57 €
					30	16							
					32	19							
RTN-JM-24	26	56	41	7,50	26	10,11,12	53	$\pm 1^\circ$	$\pm 0,4$	$\pm 0,9^\circ$	12	24	65,70 €
					32	14,15,16							
					36	18,19,20							
					38	24							

\*Depending on availability - Dimensions in mm

## GFX

Torque range: 11.5 to 420 Nm

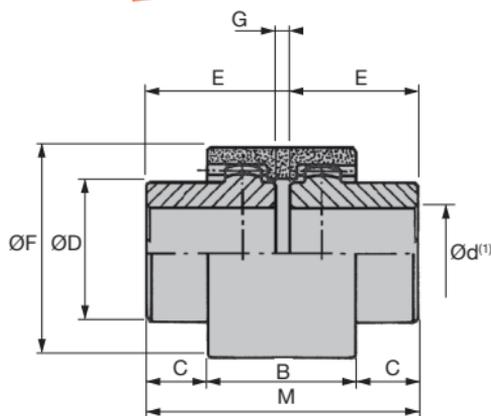
- **Rigid in torsion**
- Especially suitable for transmitting torque
- Maintenance free
- Low wearing
- 3 part construction
- Absorbs vibration
- Curved teeth
- Electrically insulating
- Materials:
  - Hub: Steel
  - Sleeve: Polyamide
- Working temp range: -20 to 80 °C



**Economy range**

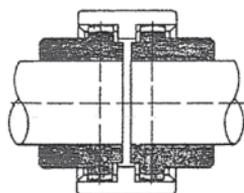
### Bores

- <sup>(1)</sup>Depending on the size, these are supplied either solid or with a pre-bore.
- They should be finished by the user.
- Supplied non-assembled

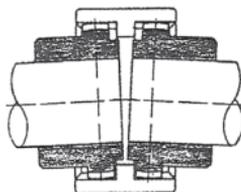


Part number	Nominal torque	Max torque	Max speed (rpm)	Weight of inertia (kg)	Moment		Misalignment	
					kg. cm <sup>2</sup>	angular	radial (mm)	axial (mm)
GFX-14-NN	11,5	23	14000	0,166	0,27	±2°	0,7	±1
GFX-19-NN	18,5	36,5	12000	0,276	0,64	±2°	0,8	±1
GFX-24-NN	23	46	10000	0,312	0,92	±2°	0,8	±1
GFX-28-NN	51,5	103,5	8000	0,779	3,45	±2°	1	±1
GFX-32-NN	69	138	7100	0,918	5,03	±2°	1	±1
GFX-38-NN	88	176	6300	1,278	9,59	±2°	0,9	±1
GFX-42-NN	110	220	6000	1,473	13,06	±2°	0,9	±1
GFX-48-NN	154	308	5600	1,777	18,15	±2°	0,9	±1
GFX-55-NN	285	570	4800	3,380	49,44	±2°	1,2	±1
GFX-65-NN	420	840	4000	4,988	106,34	±2°	1,3	±1

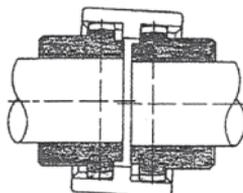
Dimensions in mm



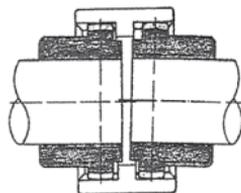
Shaft aligned



Angular misalignment



Radial misalignment



Radial and angular misalignment

### DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-6%	-12%	On request

Part number	Bores possible Ød (h7)		B	C	ØD	E	ØF	G	M	Stock <sup>†</sup>	Price each
	Mini.	Maxi.									1 to 4
GFX-14-NN	6	14	38	6,5	25	23,5	41	4	51	✓	22,55 €
GFX-19-NN	8	19	38	8,5	32	25,5	48	4	55	✓	27,05 €
GFX-24-NN	10	24	42	7,5	36	26,5	52	4	57	✓	30,23 €
GFX-28-NN	10	28	48	19	45	41	68	4	86	✓	39,89 €
GFX-32-NN	12	32	48	18	50	40	75	4	84	✓	47,64 €
GFX-38-NN	14	38	50	17	58	40	85	4	84	✓	48,96 €
GFX-42-NN	20	42	50	19	63	42	95	4	88	✓	71,78 €
GFX-48-NN	20	48	50	27	68	50	100	4	104	✓	86,10 €
GFX-55-NN	25	55	65	29,5	82	60	120	4	124	-	137,61 €
GFX-65-NN	25	65	72	36	95	70	140	4	144	-	197,41 €

<sup>†</sup>Depending on availability - Dimensions in mm

- Rigid in torsion
- Suitable for handling high torques
- Maintenance free
- Low wear
- 3 part construction
- Rounded teeth
- Materials:
  - Sleeve: nylon
  - Hub: sintered steel
- Working temp.: -25°C to +100°C
- Bore( tolerance H7) and keyway acc DIN6885/1-JS9
- Axial plug-in assembly



set screw and keyway fixing\*\*

### Options

- Modification to bore sizes (additional cost)
- Conical bores
- Imperial sized bores for hydraulic pumps

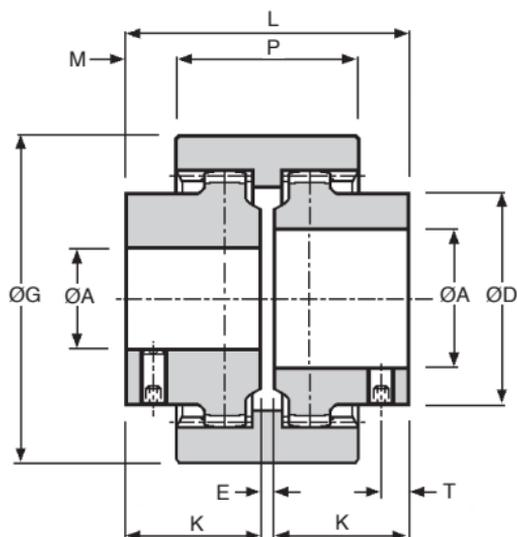
### Info

- \*\*Except for non bored couplings
- Supplied un-assembled



Part number	K	E	L	P	M	ØD	ØG	Screw	T	Standard	Optional	max. ØA
										ØA	ØA	
RTK-M-14	23	4	50	37	6,5	25	40	M5	6	12	8, 9, 10, 11, 13, 14, 15	15
RTK-M-19	25	4	54	37	8,5	32	47	M5	6	12	10, 11, 14, 15, 16, 17, 18, 19, 20	20
RTK-M-24	26	4	56	41	7,5	36	53	M5	6	12	10, 11, 14, 15, 16, 17, 18, 19, 20, 22, 24	24
RTK-M-28	40	4	84	46	19,0	44	65	M8	10	-	14, 15, 16, 17, 18, 19, 20, 22, 24, 25, 28	28
RTK-M-32	40	4	84	48	18,0	50	75	M8	10	-	18, 19, 20, 22, 24, 25, 28, 30, 32	32
RTK-M-38	40	4	84	48	18,0	58	83	M8	10	-	18, 19, 20, 22, 24, 25, 28, 30, 32, 35, 38	38

\*Depending on availability - Dimensions in mm



## DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-6%	-12%	On request

Part number	Max. speed (rpm)	Torque T <sub>k</sub> (Nm)			Misalignment			Price each 1 to 4		
		Alternate (Nm)	Nominal (Nm)	Max. (Nm)	Axial (mm)	Radial (mm)	Angular	Standard bore and keyway		
RTK-M-14	14000	5	10	30	±1	±0,30	±1,0°	✓	49,42 €	87,93 €
RTK-M-19	11800	8	16	48	±1	±0,30	±1,0°	✓	62,04 €	99,04 €
RTK-M-24	10600	10	20	60	±1	±0,35	±0,9°	✓	74,22 €	112,11 €
RTK-M-28	8500	23	45	135	±1	±0,35	±0,9°	✓	111,94 €	On request
RTK-M-32	7500	30	60	180	±1	±0,35	±0,9°	✓	137,49 €	On request
RTK-M-38	6700	40	80	240	±1	±0,40	±0,9°	✓	167,83 €	On request

\*Depending on availability - Dimensions in mm

# Jaw coupling, **economy range**

## GET-AL Torque range from 2.6 to 380 Nm

- **Rigid in torsion**
- Especially suitable for transmitting torque
- Maintenance free
- Low wearing
- 3 part construction
- Absorbs vibration
- Constant velocity
- Electrically insulating
- Materials:
  - Hub: Aluminium
  - Spider: Polyamide 94 Shore A
- Working temp range: -30 to 140 °C

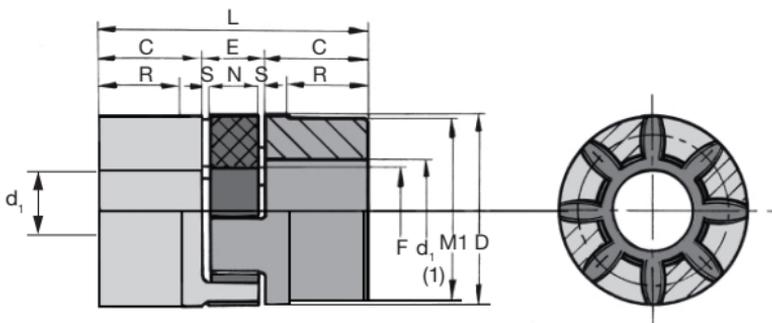


**Economical range**

*Re-boring required*

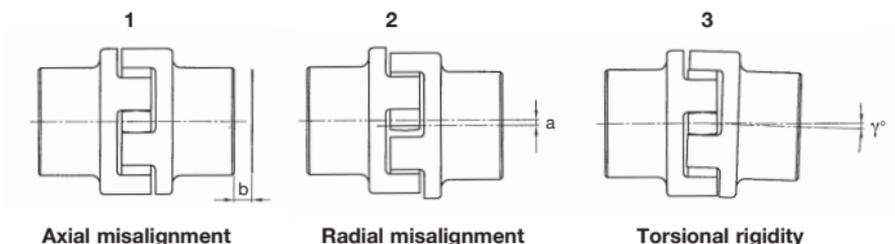
### Bores

- To be finished by the user
- Supplied un-assembled



Part number	Pre-bore	Max bore d1	C	ØD	E	ØF	ØM1	N	R	S	L	Weight (kg)	
												Spider	Hub
GET-AL-24B	10	24	25	40	16	18	40	12	19	2	66	0,005	0,08
GET-AL-32B	14	32	30	55	18	27	55	14	24	2	78	0,014	0,18
GET-AL-38B	16	38	35	65	20	30	65	15	27,5	2,5	90	0,025	0,30
GET-AL-45B	20	45	45	80	24	38	78	18	36,5	3	114	0,042	0,55

Dimensions in mm



Part number	Torsional rigidity (kNm/rad)			
	1,0 Tk n	0,75 Tk n	0,5 Tk n	0,25 Tk n
GET-AL-24B	0,68	0,57	0,44	0,28
GET-AL-32B	2,19	1,82	1,40	0,90
GET-AL-38B	5,20	4,31	3,32	2,12
GET-AL-45B	10,00	8,30	6,39	4,08

## DISCOUNTS

Qty	1+	5+	10+	25+
Disc.	List	-6%	-12%	On request

Part number	Moment of inertia kg.cm <sup>2</sup>	Max torque rpm	Torque (Nm)			axial b	radial a	angular $\gamma$	Stock*	Price each 1 to 4
			Nominal Tk n	Max Tk max	Alternating Tk w					
GET-AL-24B	0,4	14000	10	20	2,6	1,2	0,2	1,2	✓	20,55 €
GET-AL-32B	1,0	10600	35	70	9	1,4	0,2	0,9	✓	27,48 €
GET-AL-38B	3,0	8500	95	190	25	1,5	0,25	0,9	✓	39,68 €
GET-AL-45B	8,0	7100	190	380	49	1,8	0,28	1,0	✓	62,13 €

\*Depending on availability - Dimensions in mm

# Rotex® jaw coupling



RTE **KTR**

Torque: 2 to 4800Nm

- Maintenance free
- 3 part construction
- Max torsion angle 5°
- Materials:
  - Hub: Aluminium, steel or cast iron
  - Spider: Polyurethane (92 Shore A)
- Working temp. -40°C to +100°C
- Bore (tolerance H7) and keyway acc DIN6885/1-J59
- Axial plug-in assembly
- **Pilot bore are not toleranced**

Absorbs shocks



## Options

- Modification to bore sizes at additional cost (H7 tolerance and keyway acc DIN6885/1-J53)

## Info.

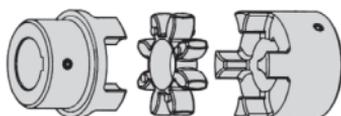
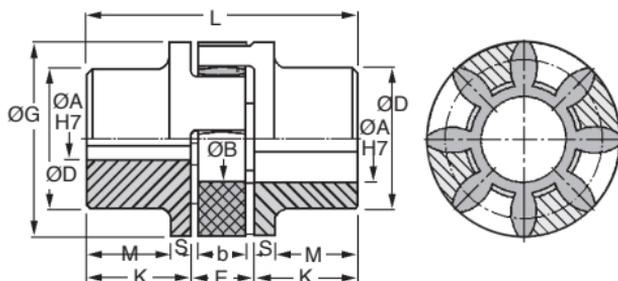
- \*Except for non-bored or pre-bored couplings
- Supplied un-assembled

**NUMEROUS BORES IN STOCK**

set screw and keyway fixing\*

Part number	Material	Misalignment at (rpm)			Max. speed (rpm)	Torque Tk (Nm)			Angle of torsion	
		axial (mm)	radial (mm)	angulare		alternate	nominal	max.	Tk $\psi$	Tk maxi. $\varphi$
RTE-A-14	Aluminium	-0,5/1,0	0,17	1,2°	19 000	2,0	7,5	12,5	6,4°	10°
RTE-A-19	Aluminium	-0,5/1,2	0,20	1,2°	14 000	2,6	10	17	3,2°	5°
		-0,5/1,2	0,20	1,2°	14 000	2,6	10	17	3,2°	5°
RTE-SL-19	Steel	-0,5/1,2	0,20	1,2°	14 000	2,6	10	20	3,2°	5°
RTE-A-24	Aluminium	-0,5/1,4	0,22	0,9°	10 600	9,0	35	60	3,2°	5°
		-0,5/1,4	0,22	0,9°	10 600	9,0	35	60	3,2°	5°
RTE-SL-24	Steel	-0,5/1,4	0,22	0,9°	10 600	9,0	35	70	3,2°	5°
RTE-A-28	Aluminium	-0,7/1,5	0,25	0,9°	8 500	25,0	95	160	3,2°	5°
		-0,7/1,5	0,25	0,9°	8 500	25,0	95	160	3,2°	5°
RTE-SL-28	Steel	-0,7/1,5	0,25	0,9°	8 500	25,0	95	190	3,2°	5°
RTE-GG-38	Cast iron	-0,7/1,8	0,28	1,0°	7 100	49,0	190	380	3,2°	5°
		-0,7/1,8	0,28	1,0°	7 100	49,0	190	380	3,2°	5°
RTE-GG-42	Cast iron	-1,0/2,0	0,32	1,0°	6 000	69,0	265	530	3,2°	5°
RTE-GG-48	Cast iron	-1,0/2,1	0,36	1,1°	5 600	81,0	310	620	3,2°	5°
RTE-GG-55	Cast iron	-1,0/2,2	0,38	1,1°	4 750	105,0	410	820	3,2°	5°
RTE-GG-65	Cast iron	-1,0/2,6	0,42	1,2°	4 250	163,0	625	1 250	3,2°	5°
RTE-GG-75	Cast iron	-1,5/3,0	0,48	1,2°	3 550	254,0	975	1 950	3,2°	5°
RTE-GG-90	Cast iron	-1,5/3,4	0,50	1,2°	2 800	624,0	2 400	4 800	3,2°	5°

\*Depending on availability - Dimensions in mm



Elements of same size  
can be combined

## DISCOUNTS

Qty	1+	5+	10+	25+
Disc. List	-6%	-12%	On request	

ØA Pre- bore	ØA standard	ØA in option	ØD	ØG	K	E	S	b	L	M	ØB	Price each 1 to 4	
												Plain or pilot bore	Standard bore and keyway
Plain	14	6 8 9 10 11 12 15 16	30	30	11	13	1,5	10	35	0	10	47,41 €	69,96 €
Plain	14,19	8 10 11 12 15 16	32	41	25	16	2,0	12	66	20	18	38,25 €	81,39 €
	18	- 20 24 25	41	41	25	16	2,0	12	66	20	18	On request	81,39 €
Plain	25	10 11 12 14 15 16 18 19 20 24	40	40	25	16	2,0	12	66	-	18	53,94 €	101,59 €
Plain	15,19	14 15 16 18 19 20 24	40	56	30	18	2,0	14	78	24	27	47,60 €	103,41 €
	20	- 25 28	56	56	30	18	2,0	14	78	24	27	On request	103,41 €
Plain	-	14 15 16 18 19 20 22 24 25 28 30 32	55	55	30	18	2,0	14	78	-	27	76,70 €	On request
Plain	20,25	14 16 18 19 22 24 28	48	67	35	20	2,5	15	90	28	30	69,25 €	135,06 €
	23	- 30 35 38	67	67	35	20	2,5	15	90	28	30	On request	135,06 €
Plain	30	14 15 16 18 19 20 22 24 25 28 32 35 38 40	65	65	35	20	2,5	15	90	-	30	98,94 €	168,96 €
Plain	-	16 18 19 20 22 24 25 28 30 32 35 38	66	80	45	24	3,0	18	114	37	38	183,60 €	On request
	36	- 40 42 45 48	78	80	45	24	3,0	18	114	37	38	-	-
Plain	-	30 32 35 38 40 42 45 48	75	95	50	26	3,0	20	126	40	46	278,82 €	On request
Plain	-	25 30 32 35 38 40 42 45 48 50 55 60	85	105	56	28	3,5	21	140	45	51	328,00 €	On request
	18	- 30 32 35 38 40 42 45 48 50 55 60	98	120	65	30	4,0	22	160	52	60	455,69 €	On request
	20	- 40 45 48 50 55 60 65 70	115	135	75	35	4,5	26	185	47	68	616,54 €	On request
	28	- 40 45 48 50 55 60 65 70 75 80 85 90	135	160	85	40	5,0	30	210	53	80	964,52 €	On request
	38	- 50 55 60 65 70 75 80 85 90	160	200	100	45	5,5	34	245	62	100	1 442,07 €	On request

Dimensions in mm