



# Bellow coupling

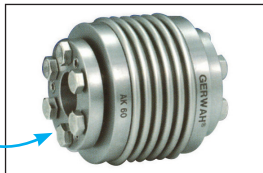
## Couplings for servo-motors

**GERWAH** AK

Torque: **36 to 800Nm**

- Backlash and maintenance free
- High torsional stiffness
- Low moment of inertia
- Shaft/bore link without backlash
- Recommended assembly tolerances H7/g6
- Working temperature -30°C to +100°C
- Materials:
  - Hub: steel
  - Bellows: stainless steel
- Please specify bore size on order (between min and max  $\varnothing$ )

clamp fixing



### Torque calculation

- Use the formula

$$T_{KN} > K \times T_{AS} \times J_{mach} / (J_{mot} + J_{mach}) \text{ in Nm}$$

With following safety coefficient:

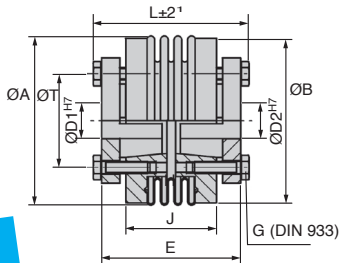
K = 1.5 for regular motion

K = 2 for irregular motion

K = 2.5 - 4 for jerky motion

Jx = moment of inertia (machine + motor)

T<sub>AS</sub> Required torque



High Precision

### DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-6%	On request

Part number	Nominal torque (Nm)	Stiffness			Moment of inertia (10 <sup>-3</sup> kgm <sup>2</sup> )	Tightening torque (Nm)	Weight (kg)	Misalignment			Max. speed (rpm)
		torsional (10 <sup>3</sup> Nm/Rad)	radial (N/mm)	axial (N/mm)				radial (mm)	axial (mm)	angular (°)	
AK30-60	36	25	220	30	0,15	3,0	0,28	0,2	0,5	1,5	11 000
AK60-73	72	50	330	55	0,24	8,5	0,48	0,2	0,5	1,5	9 100
AK80-91	96	75	400	55	0,65	10,0	0,85	0,2	0,5	1,5	7 000
AK150-92	180	100	600	85	0,65	14,0	0,85	0,2	0,5	1,5	7 000
AK200-93	240	120	450	85	0,87	14,0	1,00	0,2	0,5	1,5	6 700
AK300-104	360	280	1500	150	2,33	18,0	1,92	0,2	0,5	1,5	5 200
AK500-113	800	310	1000	85	5,73	26,0	2,45	0,2	1,0	1,5	4 600

Part number	ØA (mm)	ØB (mm)	L	D <sup>H7</sup> /D <sup>h7</sup>		E	J	ØT	G	Price each
				min.	max.					
AK30-60	56	55	60	9	20	53	38	31	6 x M4	263,16 €
AK60-73	66	64	73	12	25	65	46	37	6 x M6	285,51 €
AK80-91	82	80	91	15	35	83	61	51	6 x M6	313,72 €
AK150-92	82	80	91	15	35	84	61	51	6 x M6	366,36 €
AK200-93	90	90	93	15	42	85	63	56	6 x M6	428,96 €
AK300-104	110	110	104	15	50	93	67	75	6 x M8	495,88 €
AK500-113	122	119	113	24	55	105	72	80	6 x M8	645,52 €

Dimensions in mm

## Our other products



Telescopic drawer runners for groove mounting, Partial extension



Steel thread inserts, Steel



Ball transfer unit housed spring loaded, High



2 part rigid shaft clamp, Clamping jaw



Worm and wheel gear reducer, up to 8.80 Nm



Cylindrical roller thrust bearing, Steel



Utilitrak® 3 wheels carriage, Steel roller carriage



Base support plate for aluminium profile, Central base fixation



Single and dual output gearboxes, Up to 980 Nm



Decorative hinge, Stainless steel



Worm and wheel gear reducer, up to 980 Nm



Fixed levelling foot, Flanged plate

Complementary products