



# Bellow coupling

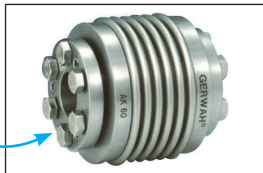
## Couplings for servo-motors

**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:

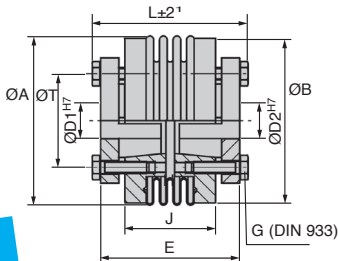
K = 1.5 for regular motion

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



APB\_BOU  
Protective cap, Safety cap



HTD5M-BAR  
HTD type tooth bar stock, HTD5



VBFP  
Small 6 lobe threaded handle - female, Duroplast - Stainless steel



SVG  
Adjustable latch clamp with strike plate, Stroke from 82mm to 92mm



DB  
Steel bevel gear, 2:1



BABss  
303 Stainless steel ball pin, 303 Stainless steel



BMM  
Knurled knob - male, Knurled



DOG111  
Motor-gearbox 12V and 24V DC, from 1.5 to 6 Nm



VCMB  
Dual-thread screw wood/metal, Steel



PSG08HC  
Skive hobbed spur gears - precision range, Case hardened steel 20NCD2



YG1  
HEAVY DUTY spur gear, Steel 35NCD6



UCF\_PBT  
Stainless steel/Polymer flanged bearing, Polymer and stainless steel

Complementary products