

## RGS Couplings for servo-motors

Torque: 0.5 to 190Nm

- No-wear elastic couplings
- No maintenance
- Low inertia and reduced size
- Easy blind assembly using standard screws
- Dampens vibration
- Electrically insulated

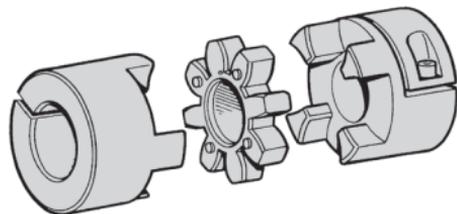
### Definition

- TKN Nominal torque (Nm)
- TKMAX Max. torque (Nm)

### Info

- Delivered not assembled

clamp fixing



 **STANDARD BORE IN STOCK**

### DISCOUNTS

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

Transmissible torque (Nm) by friction for split hub

Part number	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø10	Ø12	Ø14	Ø15	Ø16	Ø19	Ø20	Ø24	Ø28	Ø30	Ø32
RGS-AL-5	-	-															
RGS-AL-7		0,65	0,70	0,74	0,79												
RGS-AL-9		1,48	-	1,43	-	1,79	1,94										
RGS-AL-14			3,32	3,43	-	3,67	3,91	4,14	4,38								
RGS-AL-19							18,90	-	20,80	21,3	21,7	-	23,6				
RGS-AL-24												27,5	28	29,0	31		
RGS-AL-28														62,0	66	69	71 73

Part number	Max. speed (rpm)	Torsional stiffness		Radial stiffness (N/mm)	Torque (Nm)			Misalignment		
		static (Nm/rad)	dynamic (Nm/rad)		$T_{KSP}$	$T_{KN}$	$T_{KMAX}$	axial (mm)	radial (mm)	angular
RGS-AL-5	38 000	5,16	16	154	0,08	0,50	1,00	+0,4/-0,2	0,06	1°
RGS-AL-7	27 000	14,30	43	219	0,20	1,20	2,40	+0,6/-0,3	0,10	1°
RGS-AL-9	19 000	31,50	95	262	0,45	3,00	6,00	+0,8/-0,4	0,13	1°
RGS-AL-14	127 000	114,60	344	336	1,00	7,50	15,00	+1/+0,5	0,15	1°
RGS-AL-19	9 550	1090,00	1720	1120	2,50	12,00	24,00	+1,2/-0,5	0,10	1°
RGS-AL-24	6 950	2280,00	4010	1480	-	35,00	70,00	+1,4/-0,5	0,14	1°
RGS-AL-28	5 850	4080,00	6754	1780	-	95,00	190,00	+1,5/-0,7	0,15	1°

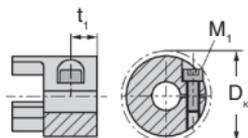
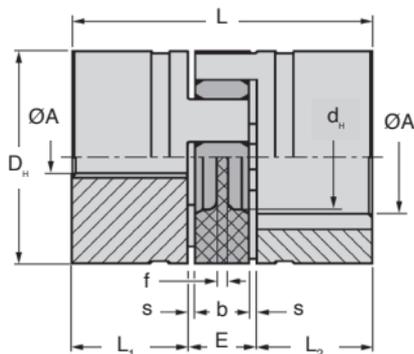
Dimensions in mm

## Characteristics

- Long-life
- Fixed by clamping jaw (except RGS-AL-5)
- Single-slit split hub (except RGS-AL-24 and RGS-AL-28 double slit)
- Preconstrained raised coupling
- Working temperature:  $-40^{\circ}\text{C}$  to  $+90^{\circ}\text{C}$  (occasional  $-50^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ )
- Materials:
  - Hub: aluminium
  - Ring: polyurethane elastic (92 Shore A)

## Uses

- Measuring and control instruments
- Servo-control, ball-screw systems
- Machine tools



## DISCOUNTS

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

Part number	Clamping screw			Tightening torque $T_A$ (Nm)
	$M_1$	$t_1$	$\text{Ø}D_k$	
RGS-AL-5	M1,2	2,5	11,4	-
RGS-AL-7	M2,0	3,5	16,5	0,37
RGS-AL-9	M2,5	5,0	23,4	0,76
RGS-AL-14	M3,0	5,0	32,2	1,34
RGS-AL-19	M6,0	12,0	45,7	10,50
RGS-AL-24	M6,0	10,5	56,4	10,50
RGS-AL-28	M8,0	11,5	72,6	25,00

Part number	Standard bore									Price each 1 to 4
	$\text{Ø}A$ (H7)	$D_n$	$d_n$	L	$L_1:L_2$	E	b	s	f	
RGS-AL-5	Plain	10	-	15	5	5	4	0,5	4,0	56,36 €
RGS-AL-7	4, 5, 6, 7	14	-	22	7	8	6	1,0	6,0	95,28 €
RGS-AL-9	4, 6, 8, 10	20	7,2	30	10	10	8	1,0	1,5	95,95 €
RGS-AL-14	5, 6, 8, 10, 12, 14	30	10,5	35	11	13	10	1,5	2,0	107,25 €
RGS-AL-19	10, 14, 15, 16, 20	40	18,0	66	25	16	12	2,0	3,0	235,93 €
RGS-AL-24	16, 19, 20, 24, 25	55	27,0	78	30	18	14	2,0	3,0	299,30 €
RGS-AL-28	20, 24, 25, 28, 30, 32	65	30,0	90	35	20	15	2,5	4,0	390,97 €

Dimensions in mm



## EKGS **GERWAH** Servo insert coupling Torque range: 0.5 to 35 Nm

- Elastic backlash free coupling
- Reliable torque transmission
- Maintenance free
- Low inertia/size
- Easy to assembly, even in confined spaces
- Reduces vibration
- Materials:
  - Body: Aluminium
  - Spider: Polyurethane 92 Shore A (yellow)



### Applications

- Metrology, control systems, driving, machine tools, driving lead screws

### Torque (Nm) transmissible for hub secured using set screws

Bore size	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16	Ø17	Ø18	Ø20	Ø22	Ø24	Ø28
EKGS-5	0,5	0,5	0,5																	
EKGS-7	1,2	1,2	1,2	1,2	1,2	1,2														
EKGS-9	3	3	3	3	3	3	3	3	3	3										
EKGS-14	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5	7,5							
EKGS-19				10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
EKGS-24						20	22	24	26	29	31	34	35	35	35	35	35	35	35	35

Part number	Transmissible nominal torque (Nm)	Tightened torque (Nm)	Max speed (rpm)	Moment of inertia ( $10^{-6}$ kgm <sup>2</sup> )	axial (Nm)	Misalignment radial (Nm)	angular
EKGS-5	0,5	1,3	47500	0,034	-0,2/+0,4	0,06	1°
EKGS-7	1,2	1,3	34000	0,196	-0,3/+0,6	0,10	1°
EKGS-9	3	3	24000	1,08	-0,4/+0,8	0,13	1°
EKGS-14	7,5	6	16000	5,7	-0,5/+1,0	0,15	1°
EKGS-19	10	6	12000	36	-0,5/+1,2	0,10	1°
EKGS-24	35	6	8500	162	-0,5/+1,4	0,14	1°

Dimensions in mm



## Characteristics

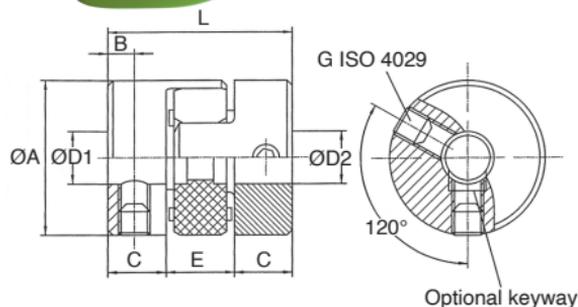
- Hardwearing
- Fixed using set screws
- Couplings are mounted pre-tensioned
- Shaft tolerance should be g6 or h7
- Contact surfaces should be free of grease

## Bore

- Choose  $\text{ØD1}$  and  $\text{ØD2}$  from the ranges shown

## Option

- Keyway according to DIN6885-1



## DISCOUNTS

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

Part number	L	ØA	E	ØD1/ ØD2		C	B	G	Weight (g)	Price each	
				No keyway	with keyway					No keyway	with keyway
EKGS-5	15	10	5	2-5	-	5	2,5	1xM3	5	41,88 €	-
EKGS-7	22	14	8	3-8	6-8	7	2,5	1xM3	9	43,39 €	43,39 €
EKGS-9	30	20	10	3-12	6-10	10	5	2xM4	17	45,08 €	45,08 €
EKGS-14	35	30	13	4-16	6-16	11	5	2xM6	41	56,69 €	56,69 €
EKGS-19	66	40	16	6-24	6-24	25	10	2xM6	138	71,72 €	71,72 €
EKGS-24	78	55	18	8-35	8-35	30	10	2xM6	282	89,99 €	89,99 €

Dimensions in mm

# Backlash free coupling



**DKGS GERWAH**

**Servo insert coupling**  
Torque range: 0.5 to 3 Nm

- Elastic backlash free coupling
- Reliable torque transmission
- Maintenance free
- Low inertia/size
- Easy to assemble, even in confined spaces
- Reduces vibration
- Materials:
  - Hub: Aluminium
  - Spider: Polyurethane 92 Shore A (yellow)

**Small size**



*Secured by a clamping hub*

## Applications

- Metrology, control systems, driving, machine tools, driving lead screws

## Torque (Nm) transmissible by friction for a split hub

Bore size	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11
DKGS-5	0,5	0,5	0,5	-	-	-	-	-	-	-
DKGS-7	-	0,8	1,1	1,2	1,2	1,2	-	-	-	-
DKGS-9	-	1,5	2	2,5	2,9	3	3	3	3	3

Part number	Nominal torque (Nm)	Tightened torque (Nm)	Max speed (rpm)	Moment of inertia ( $10^{-6}$ kg.m <sup>2</sup> )	axial (Nm)	Misalignment radial (Nm)	angular
DKGS-5	0,5	0,25	38000	0,034	-0,2/+0,4	0,06	1°
DKGS-7	1,2	0,35	27000	0,196	-0,3/+0,6	0,10	1°
DKGS-9	3	0,75	19000	1,08	-0,4/+0,8	0,13	1°

Dimensions in mm

## Characteristics

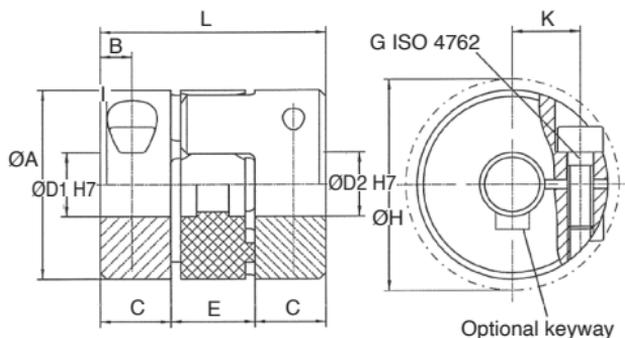
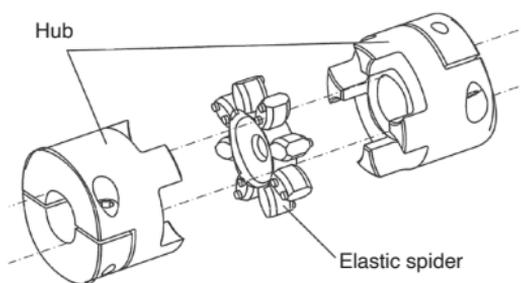
- Hardwearing
- Secured by a clamping hub
- Couplings are mounted pre-tensioned
- Shaft tolerance should be g6 or h7
- Contact surfaces should be grease free

## Bore

- Choose  $\text{ØD1}$  and  $\text{ØD2}$  from the ranges shown

## Option

- Keyway according to DIN6885-1



## DISCOUNTS

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

Part number	L	ØA	K	ØH	E	ØD1/ ØD2		C	B	G	Weight (g)	Price each	
						No keyway	with keyway					No keyway	with keyway
DKGS-5	15	10	3,2	11,5	5	2-4	-	5	2,5	M1,6	5	45,31 €	-
DKGS-7	22	14	5	16,5	8	3-7	6-7	7	3,5	M2	9	47,03 €	47,03 €
DKGS-9	30	20	7,3	23,5	10	3-11	6-11	10	5	M2,5	15	48,54 €	48,54 €

Dimensions in mm



**BKGS** **GERWAH**  
**BKGS2**

Servo insert coupling  
Torque range: 1.2 to 450 Nm

- Elastic backlash free coupling
- Reliable torque transmission
- Maintenance free
- Low inertia/size
- Easy to assemble, even in confined spaces
- Reduces vibration
- Materials:
  - Hub: Aluminium
  - Ring: Polyurethane 98 Shore A (Red) except sizes 7 and 9 which are Shore 92 A (Yellow)



*With 1 or 2 tightening screw depending on the size*

## Applications

- Metrology, control systems, driving, machine tools, driving lead screws

### Torque (Nm) transmissible by friction for a split hub

Bore size	Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø15	Ø18	Ø20	Ø25	Ø26	Ø28	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø56	
BKGS-7	0,7	0,9	1,1	1,2																		
BKGS-9		1,7	2,1	2,4	3,0	3,0																
BKGS2-12		3,5	4,3	5,1	6,8	8,4	9															
BKGS2-14			8,4	10,2	12,5	12,5	12,5	12,5														
BKGS2-19					17	17	17	17	17	17	17											
BKGS2-24						35	42	48	52	60	60	60	60	60	60							
BKGS2-28								96	102	121	133	160	160	160	160	160						
BKGS2-38									143	172	191	238	248	267	286	325	325	325				
BKGS2-42												221	277	288	310	332	387	443	450	450	450	450

Part number	Transmissible torque (Nm)	Max. speed (rpm)	Moment of inertia ( $10^{-6}$ kg.m <sup>2</sup> )	Misalignment			Tightening torque (Nm)
				axial (mm)	radial (mm)	angular	
BKGS-7	1,2	27000	0,0001	-0,3/+0,6	0,10	1°	0,35
BKGS-9	3	19000	0,0002	-0,4/+0,8	0,13	1°	0,75
BKGS2-12	9	15000	0,00296	+0,9/-0,4	0,08	0,9°	2,1
BKGS2-14	12,5	13000	0,006	-0,5/+1,0	0,09	0,9°	5
BKGS2-19	17	10000	0,029	-0,5/+1,2	0,06	0,9°	10
BKGS2-24	60	7000	0,121	-0,5/+1,4	0,10	0,9°	18
BKGS2-28	160	6000	0,236	-0,7/+1,5	0,11	0,9°	43
BKGS2-38	325	5000	0,797	-0,7/+1,8	0,12	0,9°	84
BKGS2-42	450	4000	1,779	-1,0/+2,0	0,14	0,9°	84

Dimensions in mm

## Characteristics

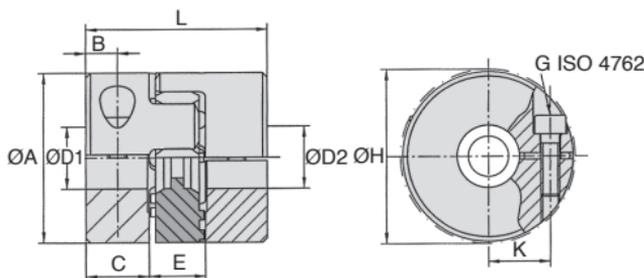
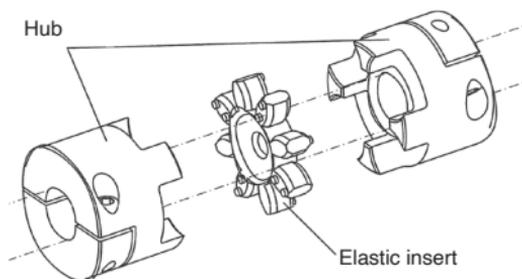
- Hardwearing
- Clamping hub  
BKGS: clamp with 1 tightening screw  
BKGS2: clamp with 2 tightening screws
- Coupling mounted under pre-tension
- Shafts must have g6 or h7 tolerance
- Degrease surfaces before assembly

## Bore

- Choose  $\text{ØD1}$  and  $\text{ØD2}$  from within the range shown

## Option

- Keyway according to DIN6885-1



## DISCOUNTS

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

Part number	L	ØD1/ØD2		With keyway				Without keyway				Price each	
		ØD1	ØH	C1	H3	N	K	ØM	Without keyway	With keyway			
BKGS-7	20	14	17	3-7	6-7	6	8	3	5	1xM2	52,62 €	52,62 €	
BKGS-9	26	19,5	23	4-11	6-11	8	10	4	7,5	1xM2,5	57,77 €	57,77 €	
BKGS2-12	34	24,5	26	4-12	6-12	11	12	5	8,1	2xM3	79,22 €	79,22 €	
BKGS2-14	32	29,5	33	5-15	6-15	9,5	13	5	10,5	2xM4	94,31 €	94,31 €	
BKGS2-19	50	39,5	45	8-20	8-20	17	16	8	14	2xM6	112,76 €	112,76 €	
BKGS2-24	58	54,5	57	10-32	10-32	18	18	7	20	2xM6	143,16 €	143,16 €	
BKGS2-28	62	64,5	68	14-35	14-35	21	20	9	23,8	2xM8	191,15 €	191,15 €	
BKGS2-38	85	79,5	86	15-45	15-45	26,5	23	13	29,5	2xM10	363,23 €	363,23 €	
BKGS2-42	102	94,5	95	20-56	20-56	38	26	13,5	35	2xM10	677,35 €	677,35 €	

Dimensions in mm



## ADSR **GERWAH** Servo insert coupling Torque range: 12.5 to 525 Nm

- Elastic backlash free coupling
- Reliable torque transmission
- Maintenance free
- Low inertia/size
- Easy to assemble, even in confined spaces
- Reduces vibration
- Materials:
  - Hub- Aluminium
  - Ring- Polyurethane 98 Shore A (Red)



*Secured by a clamping hub*

### Applications

- Metrology, control systems, driving, machine tools, driving lead screws

### Torque (Nm) transmissible by friction for a split hub

Part number	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55
ADSR-14	4,8	6,0	7,7	9,4	11	12,5	12,5								
ADSR-19		16	17	17	17	17	17								
ADSR-24				37	43	50	56	60	60						
ADSR-28				61	72	83	94	114	138	160	160				
ADSR-38					87	100	113	138	168	197	225	251	277		
ADSR-42						174	197	242	296	348	398	450	450		
ADSR-48							276	343	424	502	525	525	525	525	525

Part number	transmissible torque (Nm)	Tightened torque (Nm)	Max speed (rpm)	Moment of inertia 10 <sup>-3</sup> kg.m <sup>2</sup>	axial (mm)	Misalignment radial (mm)	Misalignment angular
ADSR-14	12,5	2	13000	0,006	-0,5/+1,0	0,09	0,9°
ADSR-19	17	11	10000	0,036	-0,5/+1,2	0,06	0,9°
ADSR-24	60	15	7000	0,15	-0,5/+1,4	0,10	0,9°
ADSR-28	160	32	6000	0,33	-0,7/+1,5	0,11	0,9°
ADSR-38	325	38	5000	0,96	-0,7/+1,8	0,12	0,9°
ADSR-42	450	84	4000	4,92	-1,0/+2,0	0,14	0,9°
ADSR-48	525	145	3600	8,26	-1,0/+2,1	0,16	0,9°

Dimensions in mm

## Characteristics

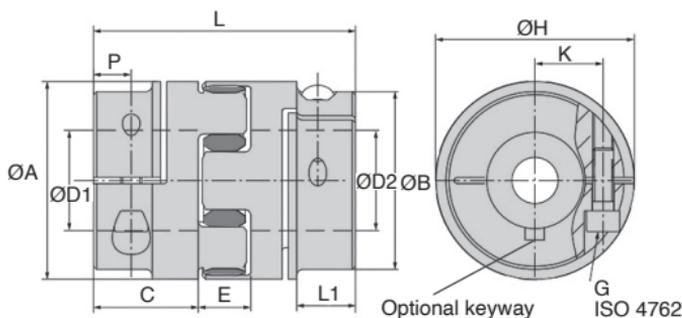
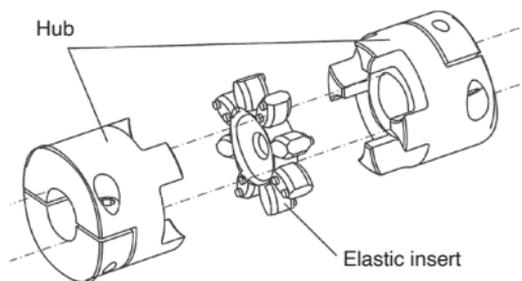
- Hardwearing
- Secured by a clamping hub
- Coupling mounted under pre-tension
- Shafts must have g6 or h7 tolerance
- Degrease surfaces before assembly

## Bore

- Choose  $\text{ØD1}$  and  $\text{ØD2}$  from within the range shown

## Option

- Keyway according to DIN6885-1



## DISCOUNTS

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

Part number	L	L1	ØB	K	ØA	ØH	E	ØD1/ ØD2	C	P	G	Price each		
												Weight (kg)	No keyway	with keyway
ADSR-14	35	-	-	11	30	32,2	13	5-16	11	5	M3	0,042	72,81 €	72,81 €
ADSR-19	66	-	-	14,5	40	46	16	6-20	25	12	M6	0,158	103,52 €	103,52 €
ADSR-24	78	-	-	20	55	57	18	10-32	30	10,5	M6	0,304	121,12 €	121,12 €
ADSR-28	90	-	-	24,5	65	71	20	10-38	35	11,5	M8	0,505	156,77 €	156,77 €
ADSR-38	114	-	-	30	80	83	24	12-48	45	15,5	M8	0,934	242,25 €	242,25 €
ADSR-42	126	28	85	32,5	95	91	26	14-54	50	18	M10	3,8	828,38 €	828,38 €
ADSR-48	140	32	95	37	105	106	28	15-60	56	21	M12	4,9	968,65 €	968,65 €

Dimensions in mm