

# Sliced Couplings ASK



				
High stiffness	Wide range of variations	Highly accurate mounting	No backlash	High speed

Max. rated torque [N·m]	200
Bore ranges [mm]	φ 3 ~ 55
Operating temperature [°C]	-20 ~ 120
Drive	Servomotor, induction motor
Applications	Machine tool / semiconductor manufacturing equipment / printing press / packing machine

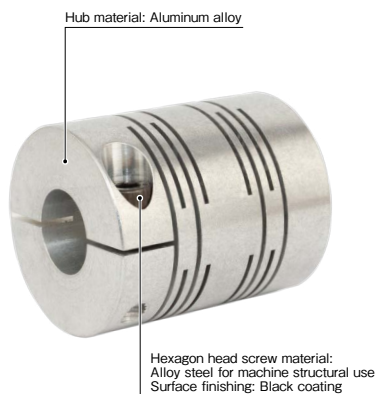
## High Speed Sliced Couplings with Zero Backlash



The ASK sliced coupling is a flexible shaft coupling, designed to equalise all kind of misalignment in a shaft to shaft connection. Due to its unique slit structure and material possibilities, it can handle high rotation speeds as well high temperature ranges.

### Structure and Materials

#### ■ ASK Aluminum



#### ■ ASK Stainless steel



#### ■ ASK Steel



# ASK Models

COUPLINGS

ELECTROMAGNETIC  
CLUTCHES & BRAKES

TORQUE LIMITERS

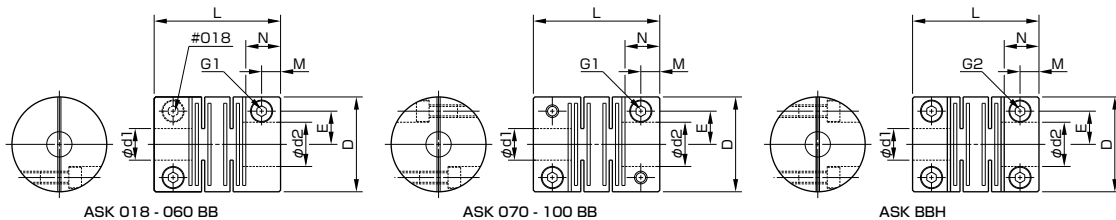
## Specifications (aluminum alloy – BB & BBH)

Model	Type		Torque		Misalignment			Max. rotation speed [min <sup>-1</sup> ]	Torsional stiffness [N-m/rad]	Moment of inertia [kg·m <sup>2</sup> ]	Mass [kg]
	BB [Clamping hub]	BBH [Removable clamping hub]	Rated [N-m]	Maximum [N-m]	Parallel [mm]	Angular [°]	Axial [mm]				
ASK 018	●	—	1	2	0.15	0.5	0.2	11500	103	0.45 × 10 <sup>-6</sup>	0.008
ASK 020	●	—	1.5	3	0.1	1	0.1	11500	407	1.05 × 10 <sup>-6</sup>	0.017
ASK 022	●	—	1	2	0.15	1	0.1	11500	690	1.15 × 10 <sup>-6</sup>	0.019
ASK 025	●	—	3	6	0.1	1	0.1	10000	533	2.39 × 10 <sup>-6</sup>	0.024
ASK 030	●	●	4	8	0.1	0.85	0.1	8000	868	6.80 × 10 <sup>-6</sup>	0.049
ASK 040	●	●	9	18	0.15	0.85	0.1	7500	3767	27.9 × 10 <sup>-6</sup>	0.110
ASK 050	●	●	15	30	0.15	0.7	0.1	7000	7196	89.7 × 10 <sup>-6</sup>	0.210
ASK 060	●	●	32	65	0.15	0.7	0.15	6000	12750	253.7 × 10 <sup>-6</sup>	0.420
ASK 070	●	●	60	120	0.1	0.33	0.1	5000	66768	506.6 × 10 <sup>-6</sup>	0.648
ASK 080	●	●	85	170	0.1	0.33	0.1	4000	78189	962.4 × 10 <sup>-6</sup>	0.858
ASK 100	●	●	150	300	0.1	0.33	0.1	3500	278893	2826 × 10 <sup>-6</sup>	1.632

## Specifications (steel – BB / stainless steel – BB & BBH)

Model	Type		Torque		Misalignment			Max. rotation speed [min <sup>-1</sup> ]	Torsional stiffness [N-m/rad]	Moment of inertia [kg·m <sup>2</sup> ]	Mass [kg]
	BB [Clamping hub]	BBH [Removable clamping hub]	Rated [N-m]	Maximum [N-m]	Parallel [mm]	Angular [°]	Axial [mm]				
ASK 020	●	—	5	10	0.1	0.5	0.1	11500	1189	2.88 × 10 <sup>-6</sup>	0.046
ASK 025	●	—	7	14	0.1	1	0.1	10000	1558	6.48 × 10 <sup>-6</sup>	0.064
ASK 030	●	●	9	18	0.1	0.85	0.1	8000	2530	18.6 × 10 <sup>-6</sup>	0.134
ASK 040	●	●	15	30	0.15	0.85	0.1	7500	11008	75.8 × 10 <sup>-6</sup>	0.300
ASK 050	●	●	30	60	0.15	0.5	0.1	7000	20995	246 × 10 <sup>-6</sup>	0.577
ASK 060	●	●	55	110	0.15	0.5	0.1	6000	37165	694 × 10 <sup>-6</sup>	1.150
ASK 070	●	●	95	190	0.1	0.3	0.06	5000	196024	1380 × 10 <sup>-6</sup>	1.753
ASK 080	●	●	120	240	0.06	0.3	0.06	4000	229524	2620 × 10 <sup>-6</sup>	2.330
ASK 100	●	●	200	400	0.06	0.3	0.06	3500	821288	7680 × 10 <sup>-6</sup>	4.423

## Dimensions



Unit [mm]

Model	d1 · d2			D	L	M	N	E	G1 Qty – Nominal diameter	G2 Qty – Nominal diameter	Tightening torque of screws [N-m]
	Pilot bore	Min.	Max.								
ASK 018	2.5	3	6	18	17.5	2.5	5	5.5	2-M2.5	—	1.0
ASK 020	2.5	3	8	20	28	4	8	6.5	2-M2.5	—	1.0
ASK 022	2.5	3	10	22	20	2.75	5.5	7.2	2-M2.5	—	1.0
ASK 025	3.5	5	12	25	28	4	8	9	2-M3	—	1.5
ASK 030	5.5	6	15	30	40	5.5	11	10.5	2-M4	4-M4	3.4
ASK 040	5.5	6	20	40	48	5.5	11	14	2-M5	4-M5	7.0
ASK 050	8.5	9	26	50	65	9.5	19	18.5	2-M6	4-M6	14
ASK 060	9.5	10	30	60	80	12.5	25	21	2-M8	4-M8	27
ASK 070	14.5	15	38	70	95	12.5	25	25	4-M8	4-M8	27
ASK 080	22	24	42	80	100	12.5	25	29	4-M8	4-M8	27
ASK 100	27.5	30	55	100	118	15	30	37	4-M10	4-M10	54

- Standard bore tolerance H7, further tolerances possible on request.
- Keyway possible on request.
- Depending on bore diameter with glued bushing on one side.

## How to Place an Order

ASK 030 BB 10H7/12H7 AL



MODELS

ASK

SERIES

- Metal Disc Couplings: SERVOFLEX
- Metal Coil Spring Couplings: BAUMANNFLEX
- Cardan Couplings: PARAFLEX
- Sliced Couplings: ASK
- Rigid Couplings: STK
- Jaw Couplings: MIKI PULLEY STARFLEX
- Jaw Couplings: SPRFLEX
- Dual Rubber Couplings: STEPFLEX
- Oldham Couplings: KSK