

INKOMA /ALBERT

Great ideas need drive.

KSO COUPLINGS

INKOMA-cruciform disc coupling KSO (Oldham design) are machine elements for the smooth transmission of torque between input and output.

The coupling can accommodate parallel off-set of the connected shafts as well as angular deviation. The values for the deviations during operation must remain within the permitted limiting values for the coupling.





THE INKOMA-CRUCIFORM DISC COUPLING KSO IS AVAILABLE IN THE FOLLOWING VERSIONS

A1 = Flange version (See fig. 1)

Both outer discs have fixing holes for socket head cap screws for connecting components.

A2 = Hub version (See fig. 2)

Both outer discs have finished bores in outward facing hubs and keyways to BS 4235 [DIN 6885/1].

A3 = Tension hub version (See fig. 3)

Hub version with additional shrink disc (ISR-A). The shrink disc allows keyless fitting to the shaft.

A7 = Split hub version (See fig. 4)

This hub version has two components - a fixed and a removable part allowing radial clamping to the shaft, it also has a keyway to BS 4235 [DIN 6885/1].

Combinations

Each coupling can combine any of these versions. E.g. A1/A2 - one side with flanged version with fixing holes for socket head cap screws and the other side with outward facing bored hub with keyway to BS 4235 [DIN 6885].

Special versions

In addition to basic versions, customer specific executions are also possible e.g. incorporating sprocket, gears, shaft, etc. in the outer discs.

THE INKOMA-CRUCIFORM DISC COUPLING KSO HAS THE FOLLOWING IMPORTANT FEATURES

- rotationally stiff shaft connection with compensation for radial and angular offset
- provides synchronous transmission whilst radially offset
- extremely high torque transmission
- simple assembly and disassembly
- simple and economical exchange of the wear element (cruciform disc)
- good fail safe characteristics due to special materials



TECHNICAL INFORMATION

Fig. 1

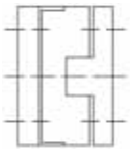


Fig. 2

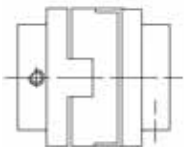


Fig. 3

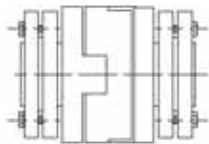
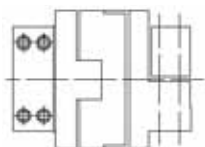


Fig. 4



MODEL	RADIAL OFFSET ¹ ±R. [MM]	ANGULAR MISALIGNM. ±α [°]	STATIC TORQUE T _{STAT.} [NM]	INERTIA ² J [KG CM ²]	MAX. OPERATING SPEED ³ n _{MAX.} [1/MIN]	TORSIONAL STIFFNESS ⁴ [Nm/RAD]
KSO-6	0,15	0,5	0,8	0,0006	3000	10
KSO-9	0,15	0,5	3	0,0018	3000	30
KSO-13	0,15	0,5	5	0,0026	3000	65
KSO-19	0,2	0,5	12	0,0067	3000	115
KSO-25	0,25	0,5	15	0,0255	3000	205
KSO-33	0,25	0,5	50	0,1140	3000	620
KSO-41	0,25	0,5	55	0,3327	3000	1200
KSO-60	0,25	0,5	65	1,2410	3000	2620
KSO-75	0,5	1	80	16,050	1500	8050
KSO-105	0,5	1	480	79,100	500	13200
KSO-125	0,5	1	700 ¹	185,07	500	23100 ¹
KSO-150	1	1,5	910 ¹	397,00	500	31000 ¹
KSO-175	1	1,5	1200 ¹	721,30	350	40500 ¹
KSO-200	1	1,5	2100	-	300	-
KSO-250	2	1,5	5100	-	300	-
KSO-300	2,5	1,5	10000	-	300	-

¹) These values are valid for KSO with a bronze central coupler.

²) for version A2- A2

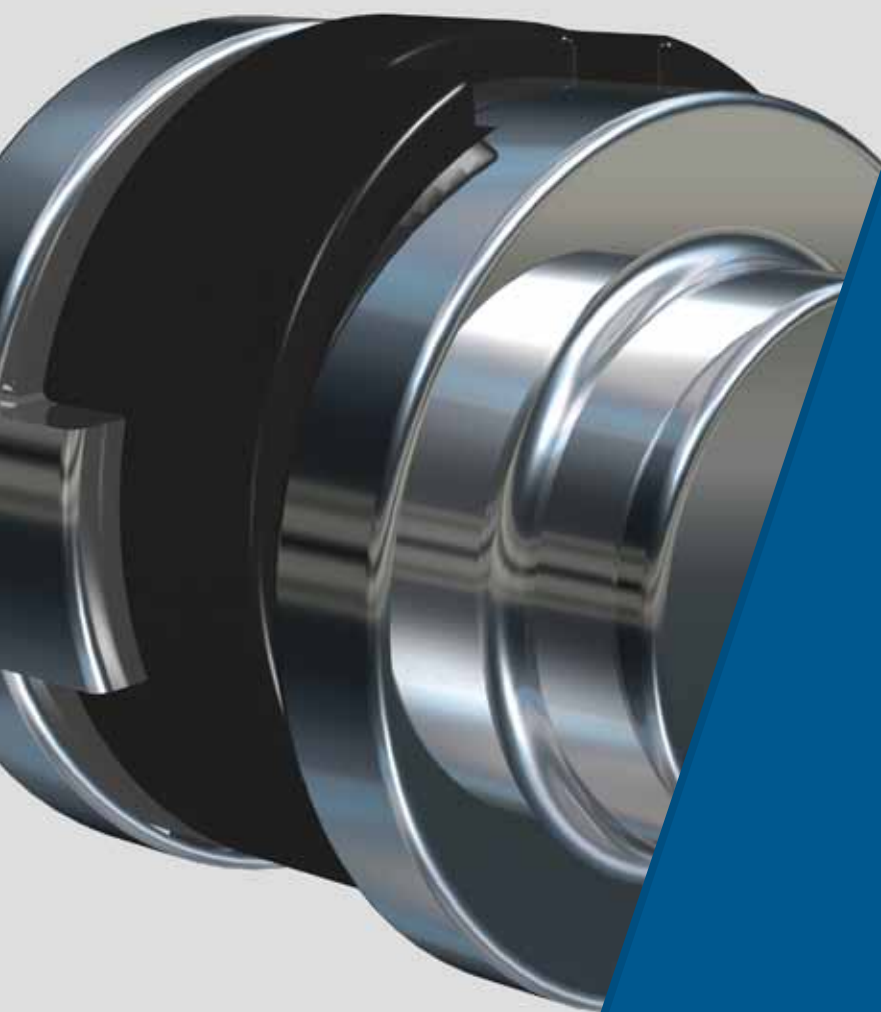
³) Dependent on offset, angular misalignment and lubrication.

⁴) These values apply for 50% of the static torque, without angular or radial offset.

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