



The INKOMA-Lineflex coupling is a machine component for the transmission of torque between shafts having parallel but offset axes. The amount of offset can be infinitely varied within design limits, at both standstill and in rotation.

The coupling is similar to the parallel offset coupling (type PK) and comprises three discs. These discs have their faces parallel to each other and are connected with at least two pairs of links at right angles to each other. This special link arrangement also permits problem-free connection of parallel shafts having zero offset.

Features of the INKOMA-Lineflex coupling

The INKOMA-Lineflex couplings are absolutely synchronous running, i.e. no angular displacement between input and output regardless of the degree of offset. Within the stated limits INKOMA-Lineflex couplings can accommodate any degree of offset without any axial displacement. Couplings are fully dynamically balanced and damp radial vibrations. Pure torque is transmitted so that no reactive force is transmitted to related shaft bearings

Lineflex couplings

The INKOMA-Lineflex coupling LFK is available in the following versions:

A1 = Basic version:

Both outer discs have tapped holes for the mounting of adaptors and hubs.

A2 = Hub version:

Both outer discs have finished bores in outward facing hubs and keyways to BS 4235 (DIN 6885).

A3 = Tension hub version:

Basic version A1 with additional shrink disc. The shrink disc allows keyless fitting to the shaft.

A4 = Separable hub version:

Basic version A1 with additional adaptor flanges. These flanges have hubs for shaft fitting.

A5 = Hub version with inward facing integral hubs:

Both outer discs have finished bores in inward facing hubs.

A6 = Separable hub version with inward facing integral hubs:

Basic version A1 with additional inward facing adaptor flanges.

A7 = Split hub version:

This hub version has two components - a fixed and a removable part allowing radial clamping to the shaft. This version requires no axial displacement of the shaft for assembly and disassembly.

Combinations:

Each coupling can combine any of these versions. E.g. A1/A2 - one disc with tapped holes and the other with outward facing bored hub.

Special versions:

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

All LFK couplings have axial freedom:

Light series - couplings having plain bushes + 1mm
 Standard series - up to size LFK 196... ± 2mm
 Heavy duty series - up to size LFK 280... ± 4mm

Order code	Radial offset R [±mm]	Angular misalignment α [°]	Torque T_{stat} [Nm]	Mass moment of inertia ²⁾ J [kg cm ²]
LFK 44.50/2	2	0,6	70	1,25
LFK 44.70/2	2	0,6	115	4,90
LFK 44.70/2-k	2	0,6	115	5,25
LFK 44.70/4	2	0,6	165	6,08
LFK 74.70/2	3	0,7	320	9
LFK 74.90/2	3	0,7	463	14,2
LFK 74.90/2-k	3	0,7	463	15,1
LFK 74.120/2	6	0,7	638	60
LFK 74.120/2-k	3	0,7	638	62
LFK 74.120/4	3	0,7	1085	72
LFK 74.150/4	3	0,7	1570	150
LFK 74.150/4-k	3	0,7	1570	153
LFK 101.100/2	4	0,6	930	46
LFK 101.120/2	4	0,6	1240	97
LFK 101.120/2-k	4	0,6	1240	99
LFK 101.140/2	7,5	0,6	1455	131
LFK 101.140/2-k	4	0,6	1455	133
LFK 134.120/2	5	0,5	2100	160
LFK 134.140/2	5	0,5	2750	268
LFK 134.140/2-k	5	0,5	2750	271
LFK 134.160/2	8	0,5	3250	409
LFK 134.160/2-k	5	0,5	3250	416
LFK 155.140/2	6	0,4	4000	325
LFK 155.160/2	6	0,4	4950	391
LFK 155.180/2	6	0,4	5860	771
LFK 155.180/2-k	6	0,4	5860	788
LFK 155.200/2	10	0,4	6650	1131
LFK 155.220/4	6	0,4	11000	1870
LFK 155.250/4	6	0,4	15150	2918
LFK 155.300/4	6	0,4	20250	5513
LFK 155.300/4-k	6	0,4	20250	5541
LFK 196.200/2	7	0,25	11380	1508
LFK 196.250/2	13	0,25	14700	3353
LFK 196.250/4	7	0,25	22400	3988
LFK 196.310/4	7	0,25	33200	8302
LFK 196.350/4	7	0,25	42200	12586
LFK 196.350/4-k	7	0,25	42200	12780
LFK 196.350/6			57300	15336
LFK 280.400/4	10	0,2	50700	31500
LFK 280.500/4	13	0,2	81060	74220

-k= short series

¹⁾ for version A1



FRANCIS AND FRANCIS Ltd.
 PO Box 3284
 South Croydon / CR2 1FU
 Phone: +44 (0)20 8668 9792
 Fax: +44 (0)20 8668 9793
 E-Mail: Sales@powertransmissions.co.uk
 Internet: www.powertransmissions.co.uk

INKOMA-GROUP



Request our [complete catalogue](#) or visit us on the [Internet](#). You can obtain a free download of our brochure or the product drawing of the selected item using the [CADENAS](#) facility.