

INKOMA /ALBERT

Great ideas need drive.

LINEFLEX COUPLINGS

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.





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.

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 INKOMALineflex 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

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.

TECHNICAL INFORMATION

| MODEL | 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

**ALL LFK COUPLINGS HAVE
 AXIAL FREEDOM**

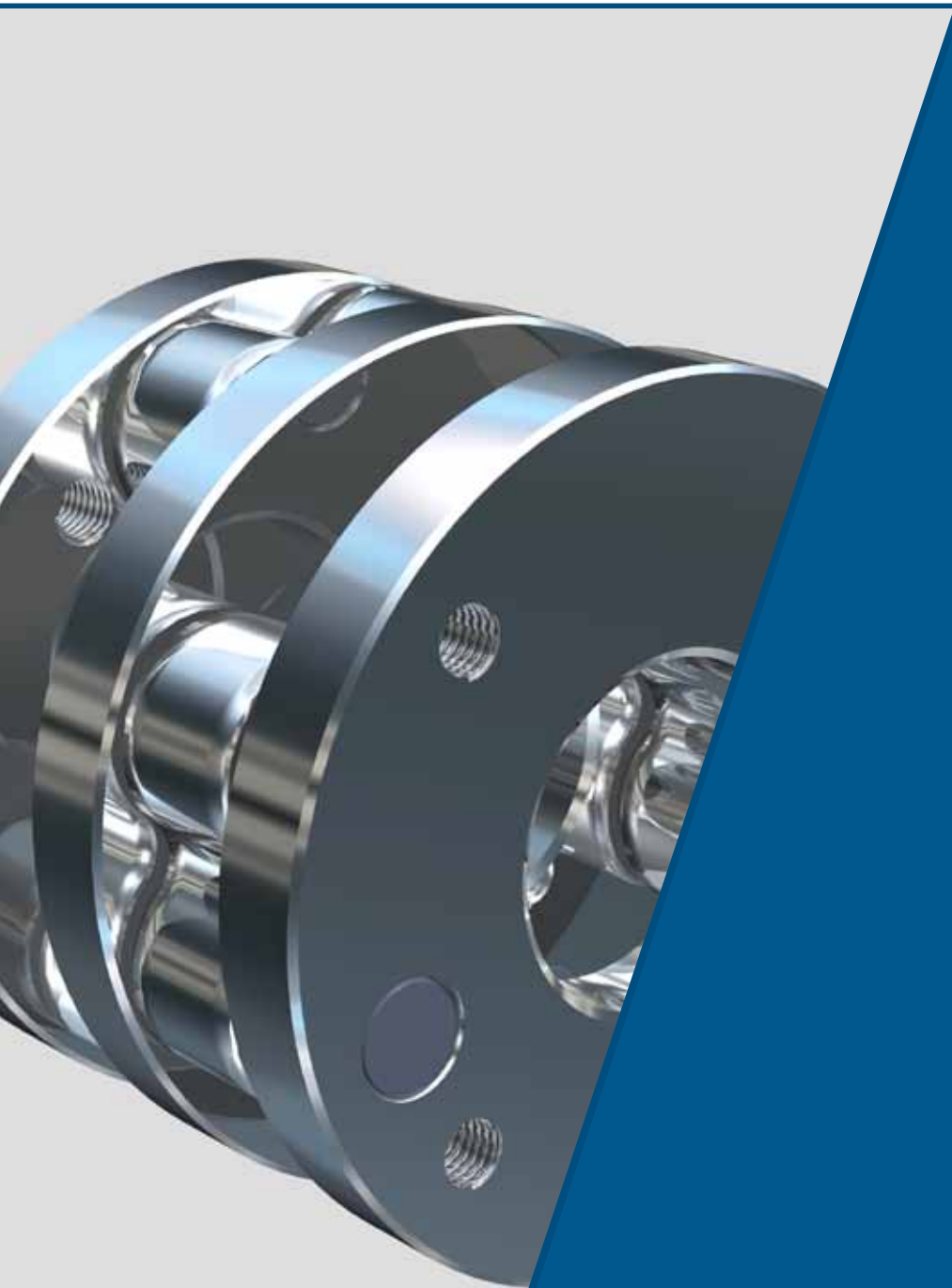
Light series
 couplings having plain bushes
 +1mm

Standard series
 up to size LFK 196...
 ± 2mm

Heavy duty series
 up to size LFK 280...
 ± 4mm

INKOMA /ALBERT

Great ideas need drive.



© Maschinenfabrik INKOMA 2014
Photography, layout, concept: www.fbwk.at

INKOMA Maschinenbau GmbH
Lange Göhren 14
D- 39171 Osterweddingen
T: +49 (0) 39205 453-0
F: +49 (0) 39205 453-433
info@inkoma.de
www.inkoma.de