# LINEAR COUPLINGS

SERIES LK | 70 - 2,000 N



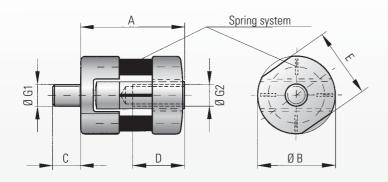




### MODEL LK

### **LINEAR COUPLINGS**

Zero backlash in axial direction



**Properties:** 

Material:

Structure:

Zero backlash in axial direction

 compensates angular misalignments up to 1.5° and lateral misalignments up to 0.7 mm (0,028 inch)

■ low mass & weight = low inerta

compact design

 designed for high tensile and compressive forces in highly dynamic applications

Coupling components are made of high-strength aluminium. Spring elements are made of special spring steel

Input side: internal metric thread
Output side: external metric thread
The input and output appropriation in

The input - and output connection is effected by

a backlash free spring system

Temperature range:

-30 to + 120° C (3.6 F to 270 F)

Backlash: absolutely backlash-free

Brief overloads:

Acceptable up to 1.5 times the rated value

**Service life:** These couplings have an infinite life and

are maintanance free if operated within perfor-

mance limits.

**Special Design:** Custom bores, threads, and material available

upon request.



lateral and angular elastic

# Ordering specifications LK / 70 / XX Model Series/Nominal tensile force\* Special e.g. VA-Design

Model LK			Series					
			70	150	300	500	800	2000
Pressure force	(N)	F	70	150	300	500	800	2000
Overall length	(mm)	А	24	33	41.5	52	62	93
Outer diameter	(mm)	В	18	22	30	42	50	72
Outer diameter of thread	(mm)		M5	M6	M8	M10	M12	M16
Max. tightening torque thread	(Nm)	G <sub>1/2</sub>	4	7	18	30	60	170
Thread length	(mm)	С	6.5	8	10	13	18	24
Thread length	(mm)	D	10	12	16	20	24	32
Key width	(mm)	Е	16	20	27	38	46	60
Weight approx.	(g)		11	23	57	135	236	580
Lateral restoring force	(N)	max.	10	18	48	96	122	180
lateral ••••	(mm)		0.5	0.5	0.5	0.7	0.7	0.7
angular (De	egree)		1.5	1.5	1.5	1.5	1.5	1.5

### **Mounting Instructions**

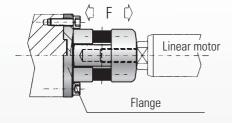
- Mounting: "Wrench flats" have been machined into the coupling hubs to aid in the mounting and dismounting of the coupling.
- Caution: Do not exceed the tightening torque during mounting (see table)!
- While mounting, ensure not to damage leaf-spring system
- Maximum lateral and angular misalignment value must not be exceeded.

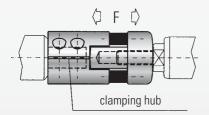
The information mentioned in this document is based on our present knowledge and experiences and does not exclude the manufacturer's own substantial testing of the equipment. So this is no obligatry assurance even with regard to protection rights of Third Parties. The sale of our products is subject to our General Conditions of Sale and Delivery.

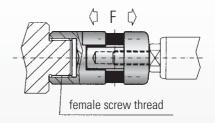


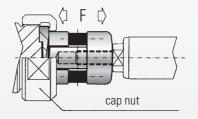
## Special Designs

### CYLINDRIC LINEAR COUPLINGS



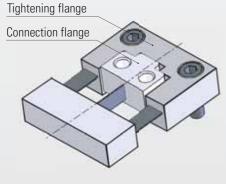




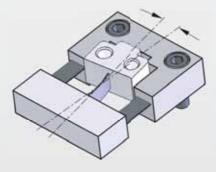


### FLATENED LINEAR COUPLINGS

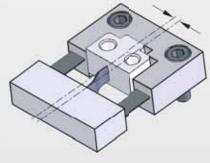
Backlash free and space saving linear motor, or linear guidance connection



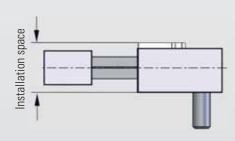
Top view



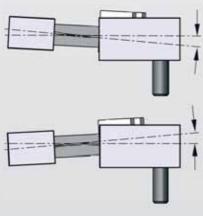
Angular misalignment



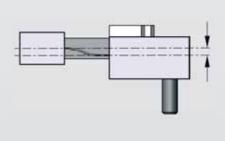
Lateral misalignment (sideways)



Side view



Angular misalignment (horizontal)



Lateral misalingment (horizontal)



# Expertise and Know-how for your particular application.

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# QUALITY MANAGEMENT We are certified according to ISO 9001-2008

TGA-ZM-05-91-00 Registration No. 40503432/2

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### THE R+W-PRODUCT RANGE



#### TORQUE LIMITERS Series SK + ST

From 0.1 – 160,000 Nm, Bore diameters 3 – 290 mm Available as a single position, multi-position, load holding, or full disengagement version Single piece or press-fit design



### BELLOWS COUPLINGS Series BK / BX

From 2 – 100,000 Nm Bore diameters 3 – 280 mm Single piece or press-fit design



### LINE SHAFTS Series ZA / ZAE / EZ / EZV

From 5 – 25,000 Nm Bore diameters 5 – 140 mm Available up to 6 mtr. length



### MINIATURE BELLOWS COUPLINGS Series MK

From 0.05 – 10 Nm Bore diameters 1 – 28 mm Single piece or press-fit design



## SERVOMAX® ELASTOMER COUPLINGS Series EK

From 2 – 25,000 Nm, Shaft diameters 3 – 170 mm backlash-free, press-fit design



### ECOLIGHT® ELASTOMER COUPLINGS Series TX 1

From  $2-810~\mathrm{Nm}$ Shaft diameters  $3-45~\mathrm{mm}$ 



### LINEAR COUPLINGS Series LK

From 70 - 2,000 NThread M5 - M16



### POLYAMIDE COUPLINGS MICROFLEX Series FK 1

Rated torque 1 Ncm Bore diameters 1.5 – 2 mm