



# ekd gelenkrohr



free movable

low vibration

maintenance free

flexible



## Energy drag chain of the 3. dimension

- x-, y-, z-movements
- swinging and rotary motions
- low noise and vibration



automotiv industry



tool manufacturing

# SYSTEM ALLROUND interflex





## Movement in and around every axis: SYSTEM ALLROUND

Standard energy drag chains do not permit any displacement to the side or swinging or rotating movements. They are characterized through their high load-carrying capacity material, which is focussed on a maximum free carrying length. They are showing a linear and hard unrolling movement.

SYSTEM ALLROUND offers a new range of possibilities.

### The principle

By the use of a high-flexible link-material (theroplastic elastomer) in a rigid design through SYSTEM ALLROUND every standard

### Advantages:

- three-dimensional movement
- noiseless run
- low vibration
- maintenance free

energy drag chain becomes an opportunity for uncountable movement variants without any additional engineering efforts.

The high flexibility of the SYSTEM ALLROUND makes specially the combination of more than one movement in one guiding unit interesting.

The combination of two linear movements is one example:

Long distance in x-direction for part handling, short distance in y-direction to prepare the next production step.

In the same way combined rotary- or swing-movements may follow or take place in one step:

Lateral pan movements over an angle of 90 ° and axial rotation movements are possible if there is a sufficient chain length.

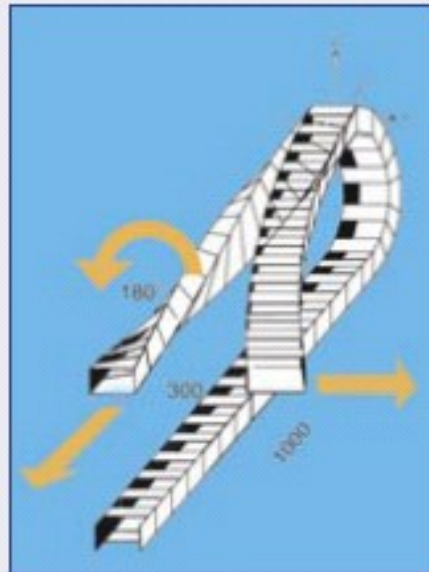
There are almost no limits at hanging chain arrangements and sufficient chain length.

The versatility of the SYSTEM ALLROUND is approved in various practice applications.

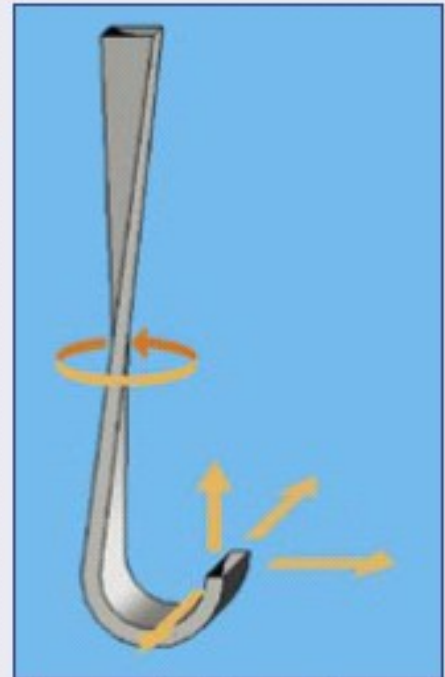




linear movement x-axis 3000 mm,  
linear movement y-axis 500 mm



linear movement x-axis 2000 mm,  
rotary movement radius 0 mm – angle 180°,  
Linear movement y-axis 300 mm



linear movement x-axis +/- 100 mm, linear mov.  
y-axis 500 mm, linear mov. z-axis 2500 mm,  
rotary movement radius 250 mm – angle 210°



Coordinates

		Bending radius	T <sub>lg</sub>	a	Stay	c
ALLROUND PKK 210	210					
ALLROUND PKK 220	220					
ALLROUND PKK 221	221	75/100/150/200/300	65	34	50...200	50
ALLROUND PKK 310	310					
ALLROUND PKK 320	320					
ALLROUND PKK 321	321	100/130/150/200/300/400	90	51	50...300	75

Additional dimensions on request – detailed informations about dimensions see ekd product catalogue

Please fax this questionnaires ALLROUND to: +49 (0)2 11 24 10 88

To be able to offer the right solution for your application, we ask you for the following data:

Use place: Inside use   
Outside use  ambient temperature:  °C  
Media: water  others:   
acid  arrangement:   
oil  *Explanations see EKD-main catalogue*

	X-Axis	Y-Axis	Z-Axis
Linear movement:	<input type="text"/> mm	<input type="text"/> mm	<input type="text"/> mm
Rotation: ratio	<input type="text"/> mm	<input type="text"/> mm	<input type="text"/> mm
angle	<input type="text"/> °	<input type="text"/> °	<input type="text"/> °

Travel distance in m:

*Minimum chain length= 1/2 travel distance + 4 x chain bending ratio (Fixpoint at 1/2 travel distance)*

Travel speed:  m/s acceleration:  m/s<sup>2</sup>

Travel frequency:  /h / min / s (underline right unit, please)

Specifications for the chain crosscut:

Inside (Breth):  mm Preferred chain bending ratio   
*(Take the minimum bending ratio of the cables and hoses in account, please)*

Inside (Hight):  mm

Max. place for installation:  mm

weight of cable and hoses; number and diameter:

Sender:

Company:

Date:

Person:

Department:

Phone:

Fax:

E-Mail:



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