

## Conveyor Chain for Specific Conveyance

The previous section describes that by combining with various attachments, the DK Conveyor Chains can be used for almost all general applications. This section describes the DK Specialty Conveyor Chains developed based on the Standard Conveyor Chain. Specialty Conveyor Chains offer improved form, size series and material advantages that suit respective applications. They can be classified into three types: Specialized Application Conveyor Chain, Water Treatment Conveyor Chain, and 3D Bending Conveyor Chain.

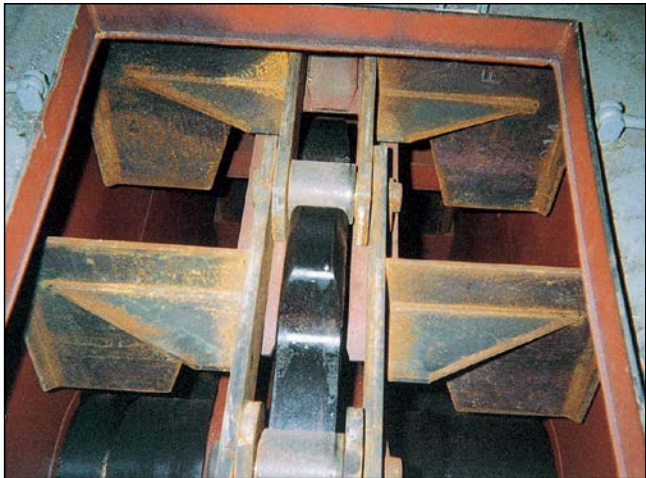
## Conveyor Chain with Attachments for Conveying Bulk Materials

### Continuous Flow Conveyor Chain and Chain for Dust Conveyor

As shown in the photo, a chain with blades is operated in a powder to cause the powder to flow in the same direction as the feeding direction of the chain. This is called a Continuous Flow Conveyor Chain. The same type of chain is also used in a similar way for discharging the dust generated by various dust collectors. We manufacture 25 types of Standard Conveyor Chains with blades, two types of Block Chains with blades (P.284), respectively suitable for the various properties of dusts and powders, and five chains with special cast steel blades for conveying powders likely to cause wear. The respective chains are designated as follows:

Standard Conveyor Chains with blades	→	Continuous Flow Conveyor Chain or Chain for Dust Conveyor
Block Chains with blades	→	Block Chain for Dust Conveyor
Chain with special cast steel blades	→	TA Type Drag Chain

We manufacture continuous flow conveyors and dust conveyors using the above chains with blades as standard equipment. Consult us for further details.

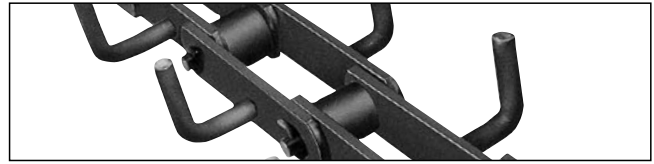


DK Specialty  
Conveyor Chains

Specialized  
Application  
Conveyor Chain

### (a) Continuous Flow Conveyor Chain

Continuous Flow Conveyor Chains are used for our standard continuous flow conveyors. Depending on the conveyed subjects, the following three types of attachments are available. The basic chain can be either a Standard Conveyor Chain or a Strong H type Conveyor Chain.



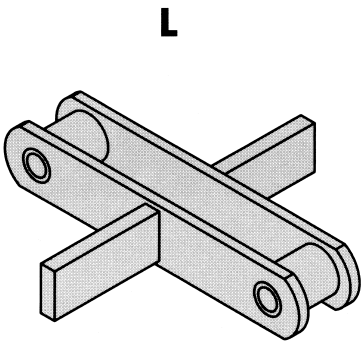
Type of attachment	Shape	Application
<b>L</b>		For the conveyance of bulk materials such as grain like wheat and powder like cement.
<b>KL</b>		For the conveyance of adhesive bulk material.
<b>B</b>		For the conveyance of bulk material like cement with higher feeding efficiency than L Attachment.

Chain No.	Type	Conveyor No.	Avg. tensile strength				Pitch	Roller link width	Roller outside dia.	Pin			Plate		Approx. weight without attachment (kg/m)	Attachment		Approx. weight with Attachment B (kg/m)	Approx. weight with Attachment L or KL (kg/m)	
			Standard A		Heavy-duty K					D	L <sub>1</sub>	L <sub>2</sub>	T	H		X	Y			
			kN	kgf	kN	kgf														P
※DK 091015	Standard	U-150	88.2	9,000	156	16,000	101.6	27.6	26.5	12.7	30.6	36	6	32	5.4	135	60	7.2	6.5	
DK 191525		U-200	186	19,000	279	28,500	152.4	36.5	34.9	15.9	40.4	47.1	8	45	9.1	175	80	11.6	11.2	
DK 192005		U-270	186	19,000	279	28,500	200	36.5	34.9	15.9	40.4	47.1	8	45	8.4	245	110	12.4	11.5	
		U-350														325	140	15.5	12.7	
DK 252005		U-270	245	25,000	392	40,000	200	51.8	40.1	19.1	51.7	59.8	9	50	11.4	245	110	15.2	14.6	
		U-350														325	140	18.5	15.7	
		U-430														400	170	20.5	16.8	
DK 322005		U-350	313	32,000	500	51,000	200	57.6	44.5	22.2	55.7	62.8	9	65	15.5	325	140	22.5	22.6	
		U-430														400	170	24.5	23.6	
DK 322505		U-500	313	32,000	500	51,000	250	57.6	44.5	22.2	55.7	62.8	9	65	14.4	470	200	25.6	23.5	
DK 502505		U-500	490	50,000	686	70,000	250	67.4	50.8	25.4	68.1	74.9	12	80	24.1	470	200	35.0	34.0	
DK 503005		U-600	490	50,000	686	70,000	300	67.4	50.8	25.4	68.1	74.9	12	80	22.4	570	240	33.8	33.1	
DK 50H200M		Strong H type	U-430			490	50,000	200	57.6	50.8	25.4	57.3	64.2	9	65	17	400	170	26.1	22.4
DK 75H200M			U-430			735	75,000	200	67.4	63.5	31.75	70	78	12	80	30	400	170	39.0	35.3
DK 75H250M			U-500			735	75,000	250	67.4	63.5	31.75	70	78	12	80	27	470	200	37.9	36.9
DK 75H300M			U-600			735	75,000	300	67.4	63.5	31.75	70	78	12	80	25	570	240	36.4	37.3
DK 100H250M	U-500				980	100,000	250	75	70	35	83.2	90.8	16	90	41.2	470	200	51.9	51.0	
DK 100H300M	U-600				980	100,000	300	75	70	35	83.2	90.8	16	90	38.2	570	240	49.5	50.3	
DK 100H350M	U-700				980	100,000	350	75	70	35	83.2	90.8	16	90	35.9	670	280	50.2	49.7	
DK 120H300M	U-600				1,176	120,000	300	82.5	75	38.5	88	95.5	16	100	44.8	570	240	55.8	59.9	
DK 120H350M	U-700				1,176	120,000	350	82.5	75	38.5	88	95.5	16	100	41.8	670	280	56.0	55.5	
DK 140H350M	U-700				1,372	140,000	350	85	82	41.75	90.2	99.3	16	115	50.5	670	280	64.5	64.0	
DK 160H350M	U-700				1,569	160,000	350	92.5	86	44.5	101.2	110.3	19	120	62.8	670	280	74.0	78.1	

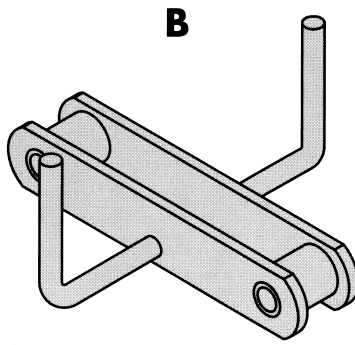
Note: 1. Chains marked with ※ should not be used for the conveyance of materials causing wear and the conveyance of loads with frequently fluctuating volume.  
 2. Ask us for the delivery time.

DK Specialty Application Conveyor Chains

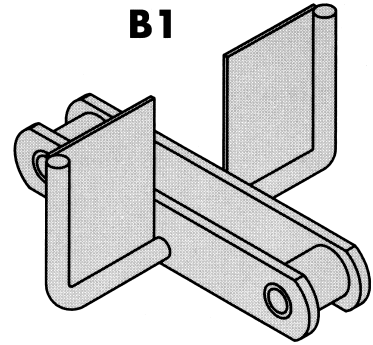
**Shapes and Indications of Attachments**



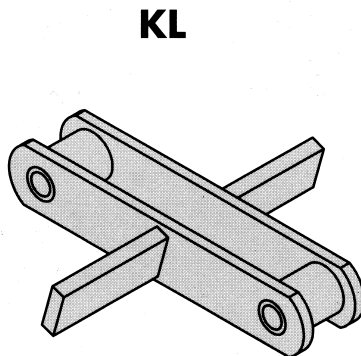
For conveying highly adhesive powder.



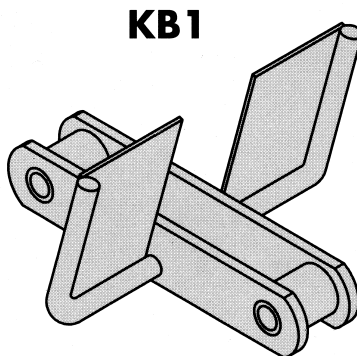
For conveying moderately adhesive powder.



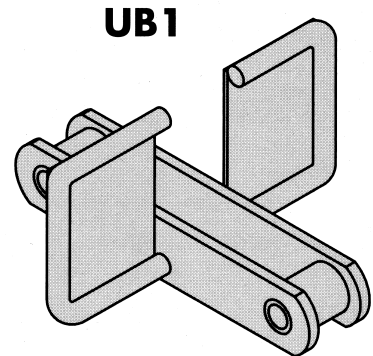
For conveying slightly adhesive powder on an ascending slope, or for conveying articles likely to float.



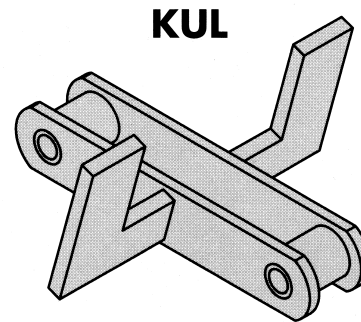
For conveying highly adhesive powder containing granular material.



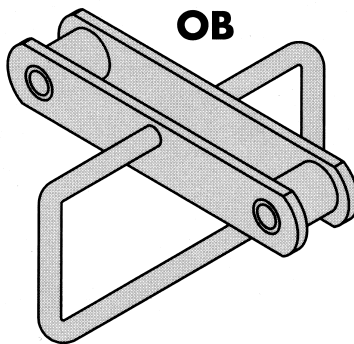
For conveying moderately adhesive powder containing some granular material.



For conveying slightly adhesive powder in a large conveyor.



For conveying slightly adhesive powder containing a large amount of granular material.

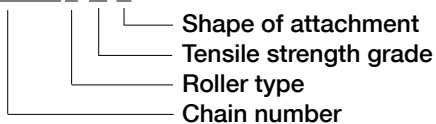


For a vertical or highly inclined conveyor such as Conveyor L or S.

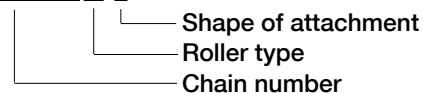
**Indication**

1. An attachment is indicated by a hyphen added after the symbol of tensile strength grade. However, in the case of a strong type conveyor chain, an attachment is indicated by adding a hyphen after the roller type.

Example) **DK19152S-K-L**



Example) **DK75H200M-L**



2. In the case of an inclined attachment, "K" is added before the attachment symbol.

Example) **DK19152S-A-KL**  
**DK75H200M-KUL**

3. When an attachment has a steel sheet or rib, etc. as an accessory, "1" is added at the end.

Example) **DK19152S-E-B1**  
**DK75H200M-KB1**

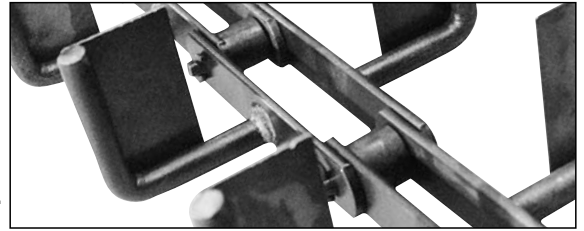
DK Specialty Conveyor Chains

Specialized Application Conveyor Chain

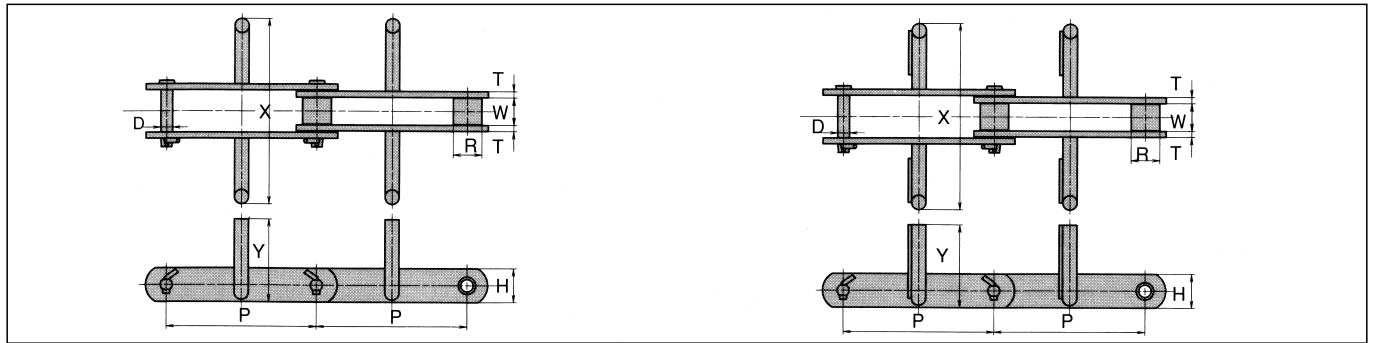
### (b) Chains for Dust Conveyor

This chain is used for conveyors exclusively for carrying dust. Depending on the application, the following three types are available:

- 1) Roller S Conveyor Chain for low density powder with Attachment B or B1 for U and LU Type Dust Conveyors
  - 2) Roller M Conveyor Chain for medium density powder with Attachment KL or KUL for DU, DU S, LDU and LDU S Type Dust Conveyors
  - 3) Block Chain for highly abrasive powder with KL or KUL attachments for DUB, DUB S LDUB and LDUB S Type Dust Conveyors
- Select optimal chains depending on the specifications of the dust conveyors.

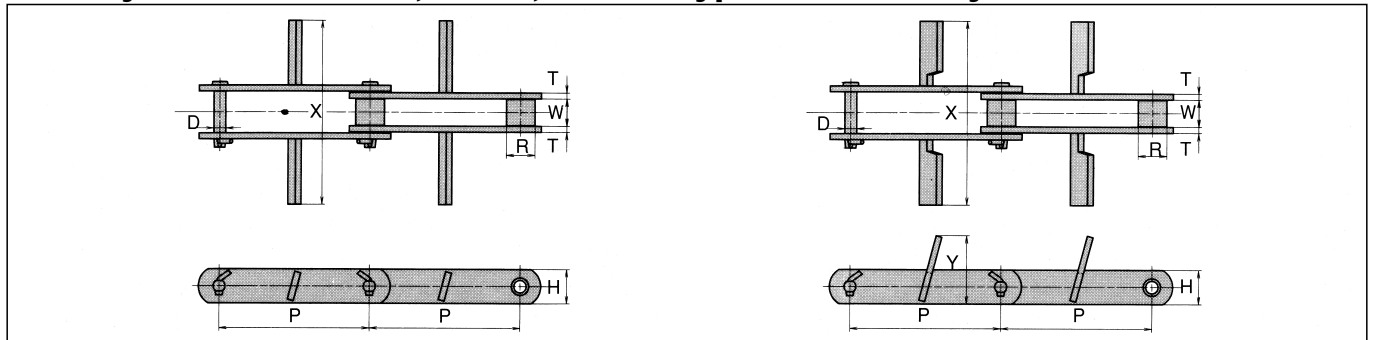


### Conveyor chains for U, LU type dust conveyor



Chain No.	Type of DK dust conveyor	Avg. tensile strength kN (kgf)	Pitch <b>P</b>	Roller link width <b>W</b>	Roller outside dia. <b>R</b>	Pin			Blade width		Blade height		Approx. weight (kg/m)	
						<b>D</b>	<b>T</b>	<b>H</b>	<b>X</b>	<b>Y</b>	With Attachment <b>B</b>	With Attachment <b>B1</b>		
<b>DK 19152S</b>	U-200	186 (19,000)	152.4	36.5	34.9	15.9	8	45	175	80	11.5	—	—	
	LU-200										11.5	—		
<b>DK 19200S</b>	U-270	186 (19,000)	200	36.5	34.9	15.9	8	45	245	110	12.2	—	13.3	
	LU-270										—	—		
<b>DK 25200S</b>	U-270	245 (25,000)	200	51.8	40.1	19.1	9	50	245	110	15.7	—	—	
	LU-270										—	16.8		
	U-350										—	—		
<b>DK 32200S</b>	U-350	313 (32,000)	200	57.6	44.5	22.2	9	65	325	140	23.3	—	—	
	LU-350										—	25.8		

### Conveyor chain for DU, DU-S, LDU-S type dust conveyors



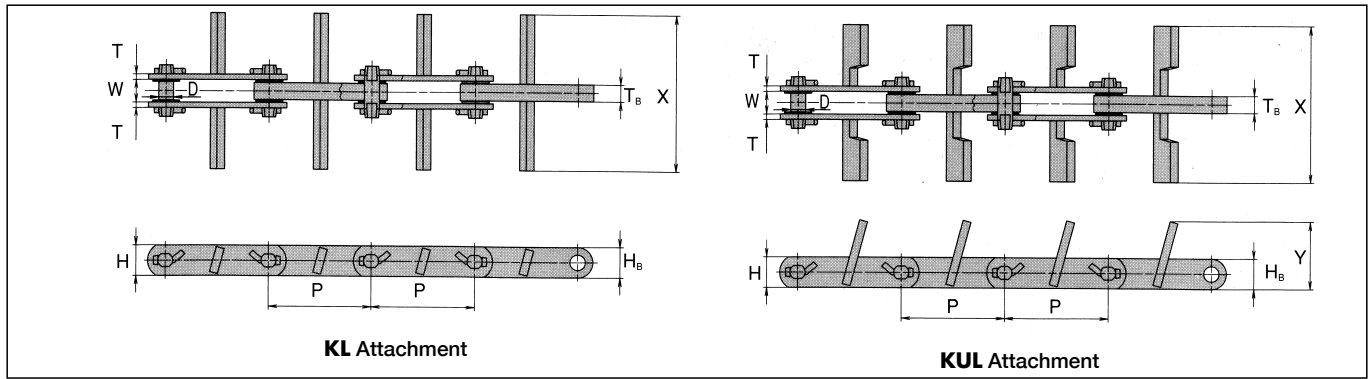
Chain No.	Type of DK dust conveyor	Avg. tensile strength kN (kgf)	Pitch <b>P</b>	Roller link width <b>W</b>	Roller outside dia. <b>R</b>	Pin			Blade width		Approx. weight (kg/m)	
						<b>D</b>	<b>T</b>	<b>H</b>	<b>X</b>	With Attachment <b>KL</b>	With Attachment <b>KUL</b>	
<b>DK 19152M</b>	DU-200	279 (28,500)	152.4	36.5	38.1	15.9	8	45	185	11.2	—	12.6(Y=65)13.8(Y=90) 12.6(Y=65)13.8(Y=90)
	DU-200S									—	—	
	LDU-200									—	—	
	LDU-200S									—	—	
	DU-250									12.2	—	
<b>DK 25200M</b>	DU-250S	392 (40,000)	200	51.8	44.5	19.1	9	50	290	15.0	—	20.0(Y=110)22.2(Y=140) 20.0(Y=110)22.2(Y=140)
	LDU-250									—	—	
	LDU-250S									—	—	

Note: 1. The blade dimensions (X, Y) can be changed upon request. 2. Ask us for delivery time.

DK Specialty Conveyor Chains

Specialized Application Conveyor Chain

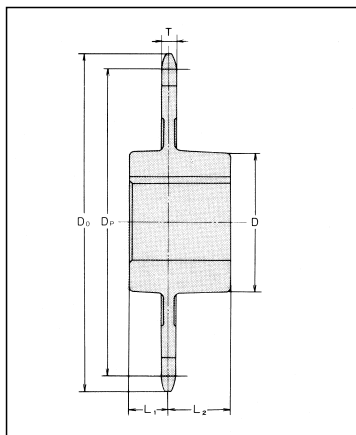
**Block Chains for DUB, DUB S, LDUB, LDUB S type dust conveyor**



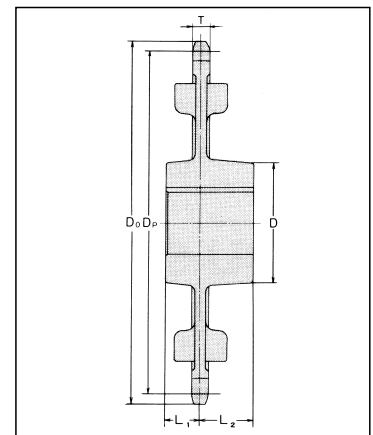
Unit (mm)

Chain No.	Type of DK dust conveyor	Avg. tensile strength		Pitch <b>P</b>	Roller link width <b>W</b>	Pin <b>D</b>	Outer plate			Block		Wing width <b>X</b>	Approx. weight (kg/m)	
		kN	kgf				<b>T</b>	<b>H</b>	<b>T<sub>B</sub></b>	<b>H<sub>B</sub></b>	With Attachment <b>KL</b>		With Attachment <b>KUL</b>	
<b>DK 30B150</b>	DUB-200	294	30,000	152.4	33.3	22	8	45	25	45	180	13.5	—	
	DUB-200S											13.5	—	
	LDUB-200											—	14.5 (Y=65) 16.0 (Y=90)	
	LDUB-200S											—	14.5 (Y=65) 16.0 (Y=90)	
	DUB-250											14.5	—	
	DUB-250S											14.5	—	
<b>DK 40B150</b>	LDUB-250	392	40,000	152.4	40.8	25.2	9	50	32	50	290	—	—	
	LDUB-250S											—	16.5 (Y=65) 19.5 (Y=100)	
	DUB-310											20.0	—	
	DUB-310S											20.0	—	
	LDUB-310S											—	22.3 (Y=65) 27.8 (Y=110)	
<b>DK 40B200</b>	LDUB-310S	392	40,000	200	40.8	25.2	9	50	32	50	380	—	—	
	DUB-400											19.6	22.0 (Y=65) 27.9 (Y=110)	

**Drive Sprocket**  
(Block Chains for dust conveyors)



**Driven Sprocket**  
(Block Chains for dust conveyors)



**Dimensions**

Unit (mm)

Sprocket size	No. of teeth (for single pitch)	Chain pitch	Pitch dia. <b>D<sub>p</sub></b>	Outer dia. <b>D<sub>o</sub></b>	Tooth width <b>T</b>	Range of axle dia. Over	≤
<b>DK 30B150</b>	4 (8)	152.4	398.2	430	22	50	145
	5 (10)		493.2	525			
<b>DK 40B150</b>	4 (8)	152.4	398.2	435	28	50	145
	5 (10)		493.2	530			
<b>DK 40B200</b>	4 (8)	200	522.4	560	28	50	145
	5 (10)		647.2	684			

**Hub dimensions**

Sprocket size	Range of axle dia. Over		Hub dimensions		
	≤	≤	<b>D</b>	<b>L<sub>1</sub></b>	<b>L<sub>2</sub></b>
<b>DK 30B150</b>	50	65	110	30	45
	65	85	140	40	60
<b>DK 40B150</b>	85	110	180	50	80
	110	130	205	70	100
<b>DK 40B200</b>	130	145	225	70	100

[Type indication] **DK 30B150- 4 No.d** For drive sprocket  
Sprocket size No. of teeth Axle hole dimension

Note: 1. For the axle hole dimension, please refer to pages describing axle diameters and hub dimensions.  
2. Ask us for the delivery time.

**Dimensions**

Unit (mm)

Sprocket size	No. of teeth (for single pitch)	Chain pitch	Pitch dia. <b>D<sub>p</sub></b>	Outer dia. <b>D<sub>o</sub></b>	Tooth width <b>T</b>	Range of axle dia. Over	≤
<b>DK 30B150</b>	4 (8)	152.4	398.2	420	22	50	110
	5 (10)		493.2	515			
<b>DK 40B150</b>	4 (8)	152.4	398.2	422	28	50	110
	5 (10)		493.2	517			
<b>DK 40B200</b>	4 (8)	200	522.4	547	28	50	110
	5 (10)		647.2	671			

**Hub dimensions**

Sprocket size	Range of axle dia. Over		Hub dimensions		
	≤	≤	<b>D</b>	<b>L<sub>1</sub></b>	<b>L<sub>2</sub></b>
<b>DK 30B150</b>	50	65	110	30	45
	65	85	140	40	60
<b>DK 40B150</b>	85	110	180	50	80

[Type indication] **DK 30B150- 4 No.d** For driven sprocket  
Sprocket size No. of teeth Axle hole dimension

Note: 1. For the axle hole dimension, please refer to pages describing axle diameters and hub dimensions.  
2. Ask us for the delivery time.

DK Specialty Conveyor Chains  
Specialized Application Conveyor Chain