



Chains and sprockets for the  
**Wood Industry**



Industry solutions



# The Global KettenWulf Group



The core factory in Kückelheim, corporate headquarters and KettenWulf competence centre

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- 30 Sprockets for complete drive systems

**Figure top left:**  
Warehouse in  
Kückelheim, Germany



**Figure top right:**  
Production and sales  
site in Ferlach, Austria



**Figure bottom left:**  
Production and sales  
site in Hangzhou, China



**Figure bottom right:**  
Warehouse and sales  
site near Atlanta, USA



KettenWulf has been synonymous for quality, reliability and flexibility for more than 90 years. Founded in 1925 by the brothers Josef and Johannes Wulf the family-owned business developed into an internationally operating and highly-recognized manufacturer in the chain industry.

From its beginning as a small, local fabricator, KettenWulf's focus over the past nine decades has evolved to the development, manufacturing and distribution of custom-made conveyor and drive chain systems and technology. Today, more than 1400 employees at ten locations all across Europe, North America, Asia and Australia guarantee to serve our international customer's needs.

The headquarters in Kückelheim is also home to the KettenWulf competence center. Here we address, investigate and answer technical inquiries from all over the world in order to provide our customers with the best possible support. With 550 employees and a production area of 30.000 m<sup>2</sup> / 320.000 ft<sup>2</sup>, this is the largest production site of the worldwide KettenWulf Group.

KettenWulf is your number one strategic partner. Whether you are located in Europe, Asia, Australia or the Americas, KettenWulf's global network allows us to respond to all your needs in just a short matter of time.

Trust, commitment and loyalty are the key values of our family-owned business. As a medium-sized enterprise our corporate structure is based on trust and strong personal relationships with both our customers and suppliers.

KettenWulf conveyor and drive chains meet the high requirements of wood handling, e.g. of an infeed log conveyor.



## We are partners of the wood industry

Leading equipment manufacturers as well as equipment operators worldwide put their trust in chain technology made by KettenWulf. In close collaboration with our customers we develop and manufacture specific and effective product solutions at the highest possible quality level.

We invested 90 years of research, production and service invested in the development of innovative technologies, which results in a broad range of both time proven and technically matured products for the wood handling industry and OEM market.

Always considering the high requirements of the respective operation purpose, our engineers and designers develop optimal solutions for your specific conveyor application. KettenWulf provides solutions for nearly all conveying processes of the wood industry, such as

- » **log transport**
- » **sawing line and plank transport**
- » **wood chips handling**
- » **wood processing**

# Chains for all conveying processes in the wood industry

In cost-efficient wood handling, conveyor chains, drive chains and sprockets are responsible for a smooth production process. Many of our products for the wood industry are available ex stock so that spare parts can be delivered even on short notice to prevent unnecessary downtime.

**Chains for  
logs sorting**



**Chains for  
lumber sorting**



**Chains for wood  
chips handling**



**Chains for wood  
processing**



KettenWulf supplies products for a wide variety of applications for the log transport as, for example, the log turner.



## Chains for log transport

In the log yard, KettenWulf conveyor and drive chains are used in different processes such as the log infeed conveyor, root reducer, trimming station, sorting strand and log turner.

The requirements on our products in these applications are extremely high and as different as the individual production steps of wood handling. The quality of our products not only allows for longer maintenance intervals, but also guarantees an optimal service life.

# Chain applications for log transport

Log infeed conveyor



Root reducer



Debarking



Sorting strand

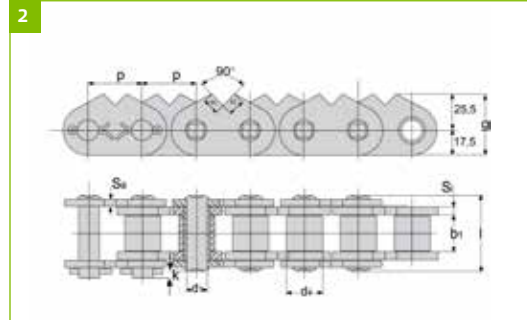
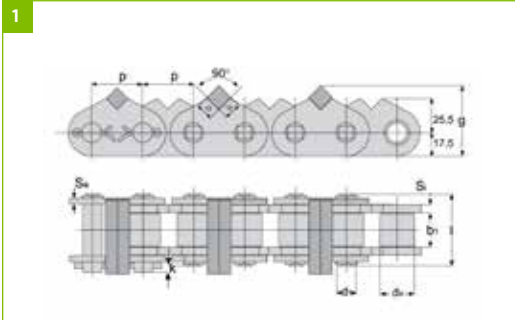


Log turner

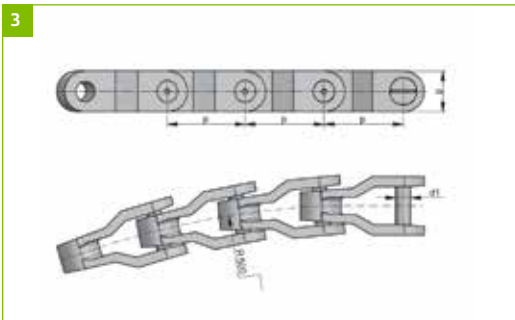


# Chains for log transport

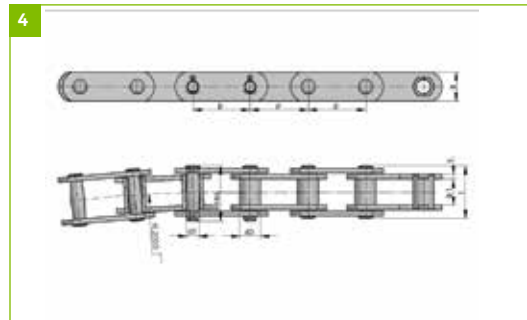
**Illustration 1 and 2:**  
Roller chains for root reducer



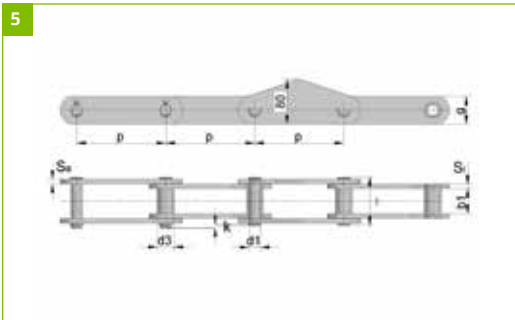
**Illustration 3:** Cast iron sidebow chain



**Illustration 4:** Sidebow chain with biconical pin



**Illustration 5:**  
Conveyor chain with hump link plate



**Illustration 6:**  
Welded steel chain with cranked link plates and welded bushes

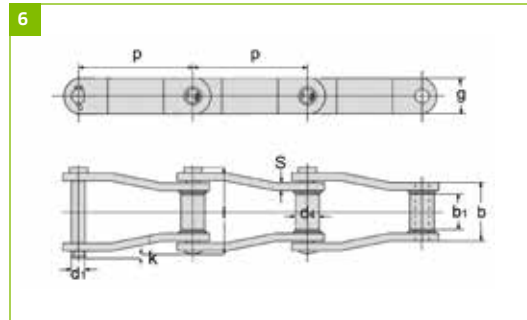


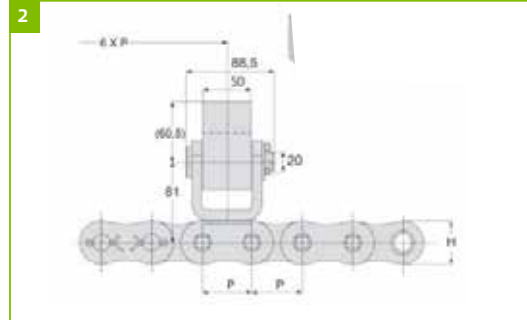
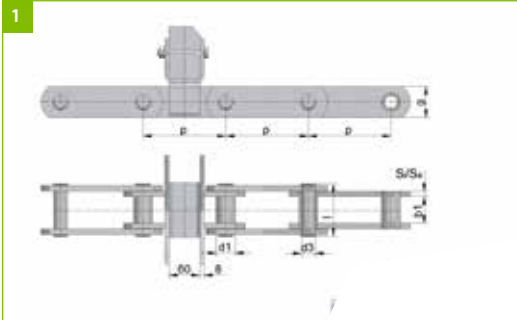
Illustration no.	Chain type	Pitch in mm	Inner width min. in mm	Roller diameter/ bush diameter max. in mm	Pin diameter max. in mm	Pin length in mm	Max. excess length of connecting pin in mm	Thickness of link plate in mm	Height in mm	Bearing surface in cm <sup>2</sup>	Tensile strength in N	Weight in kg/ m
		p	b <sub>i</sub>	d <sub>3</sub> /d <sub>s</sub>	d <sub>1</sub>	l	k	S <sub>1</sub> /S <sub>a</sub>	g	f	F <sub>B</sub>	q
1	KW 24B-1-915	38.1	25.4	25.4	14.63	54	6.6	6/ 5.0	52	5.54	160000	11.0
2	KW 24B-1-1807	38.1	25.4	25.4	14.63	54	6.6	6/ 5.0	43	5.54	160000	8.9
3	KW CC600	63.5	13.0	30.0	11.00	43	-	6	30	-	65000	5.0
4	KW 3034	100.0	45.0	36.0	20.00	90	10	8/ 8.0	50	-	170000	13.0
5	KW 111280	160.0	45.0	30.0	20.00	87	-	8/12.0	50	9.20	180000	13.2

Illustration no.	Chain type	Pitch in mm	Inner width min. in mm	Inner width ext. max. in mm	Tooth width max. in mm	Bush diameter max. in mm	Pin diameter max. in mm	Pin length in mm	Max. excess length of connecting pin in mm	Height in mm	Thickness of link plate in mm	Tensile strength in N	Admissible working load in N	Weight in kg/ m
		p	b <sub>i</sub>	b <sub>e</sub>	b <sub>1</sub>	d <sub>s</sub>	d <sub>1</sub>	l	k	g	S	F <sub>B</sub>	F <sub>zul</sub>	q
6	KW WHX 124PIA	103.20	41.2	76.5	38.5	44.45	25.4	125	3	50.8	12.70	504000	45000	20.0
	KW WHS 106PI	153.67	41.2	76.6	38.5	44.45	25.4	127	8	50.8	12.70	504000	45000	12.5
	KW WHX 157PI	153.67	70.0	113.0	65.0	44.45	28.7	177	4	63.5	15.88	552000	81000	28.0
	KW WH 132	153.67	70.0	108.0	65.0	44.45	25.4	156	5	50.8	12.70	465000	68000	19.0

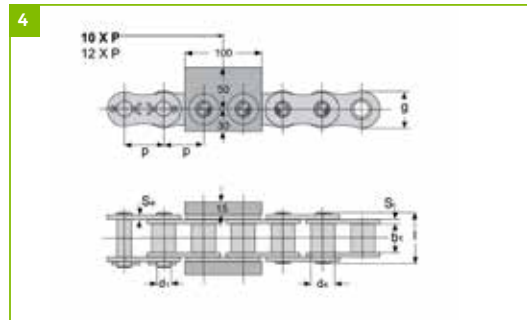
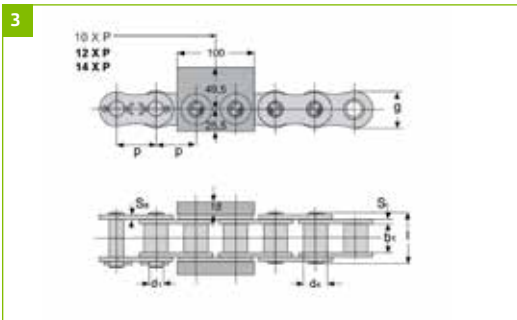
These Chains are available on request.



**Illustration 1 and 2:**  
Plastic carriers  
available  
on request



**Illustration 3, 4 and 5:** Roller chains for  
sorting strand



**Illustration 6:**  
Example of a log  
carrier. These carriers  
usually come  
with induction harde-  
ned slides or plastic  
slats

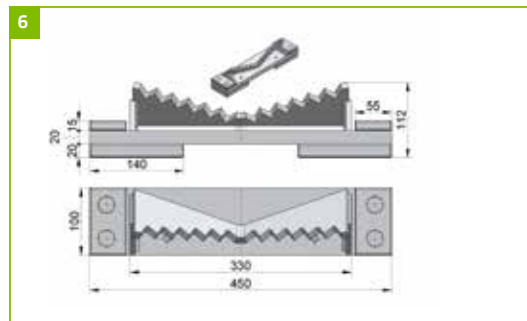
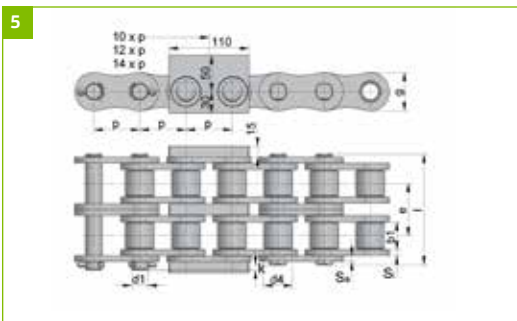


Illustration no.	Chain type	Pitch in mm	Inner width min. in mm	Roller diameter/ bush diameter max. in mm	Pin diameter max. in mm	Pin length in mm	Max. excess length of connecting pin in mm	Thickness of link plate in mm	Height in mm	Traverse pitch in mm	Bearing surface in cm <sup>2</sup>	Tensile strength in N	Weight in kg/ m
		p	b <sub>1</sub>	d <sub>2</sub> /d <sub>3</sub>	d <sub>1</sub>	l	k	S <sub>1</sub> /S <sub>2</sub>	g	e	f	F <sub>8</sub>	q
1	KW 111287	160.0	52.0	36.00	26.00	104	6	10.0/10	60.0	-	18.9	470000	18
2	KW 32B-10702	50.8	31.0	29.21	17.81	66	5	7.0/6.4	42.0	-	8.1	250000	20
3	KW 32B-AV3386	50.8	31.0	29.21	17.81	66	5	7.0/6.4	42.0	-	8.1	250000	14
4	KW 40B-AV1243	63.5	38.1	39.37	22.89	87	8	8.5/8	52.9	-	12.8	355000	21
5	KW 40B-2-AV1243	63.5	38.1	39.37	22.89	154	8	8.5/8	52.9	72.29	25.5	710000	38

KettenWulf conveyor chains for the sawing line offer a maximal degree of fatigue strength, for example when being used in the canter infeed.



## Chains for sawing line and plank transport

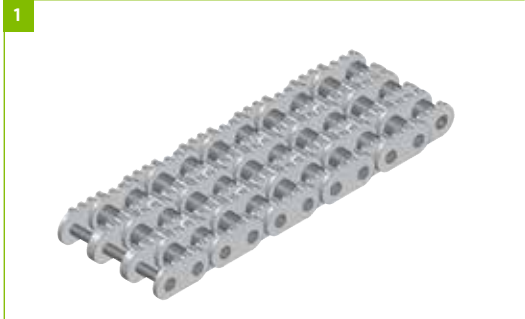
Chains for sawing line and plank transport are available in many different configurations. KettenWulf offers a wide range of conveyor chains adjusted to meet the special requirements of each individual conveying job.

Our conveyor chains are used in the sawing line, the canter infeed, the plank separation, the plank storage and the palletization.

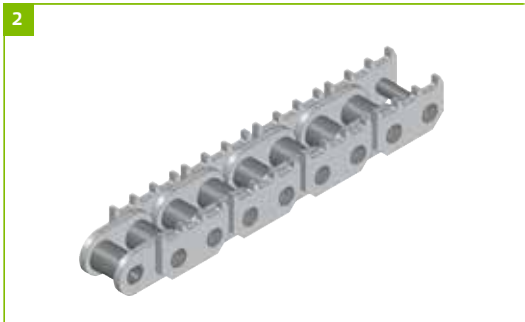
In order to improve the fatigue strength of our chains sized >12B, they come with block plates as intermediate plates and four-point riveted pins.

# Chain applications for sawing line and plank transport

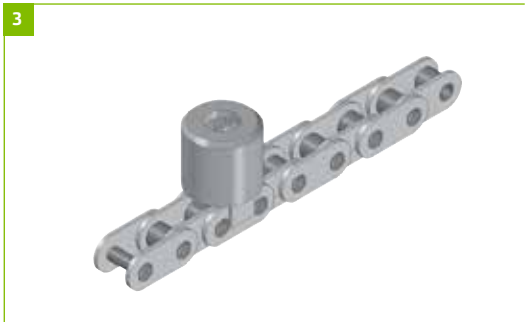
Canter infeed



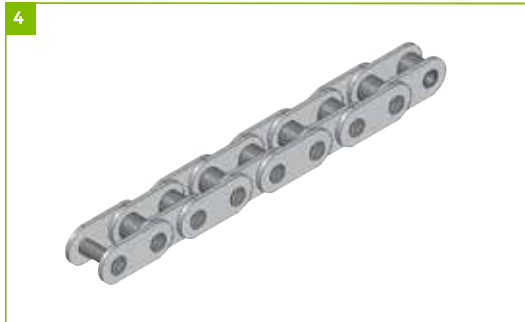
Sawing line



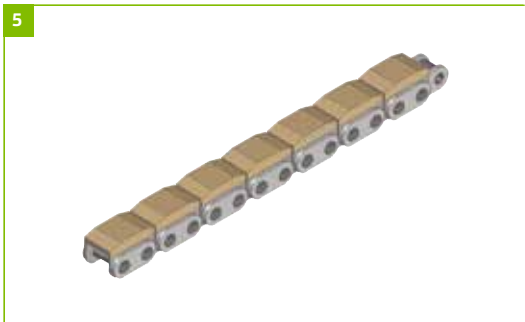
Plank separation



Plank sorting

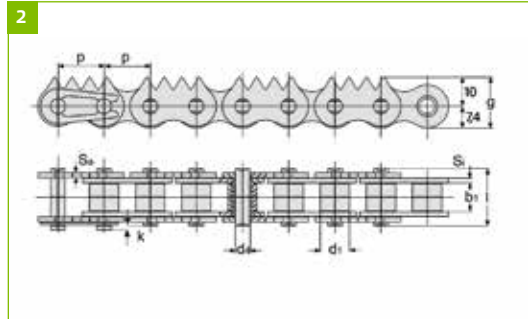
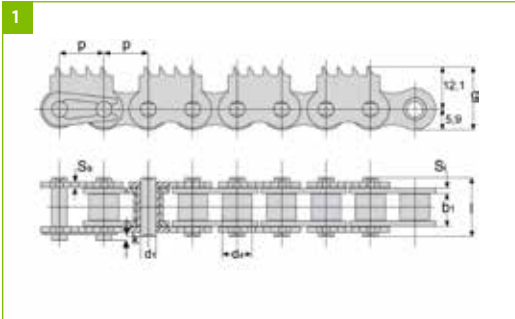


Plank storage



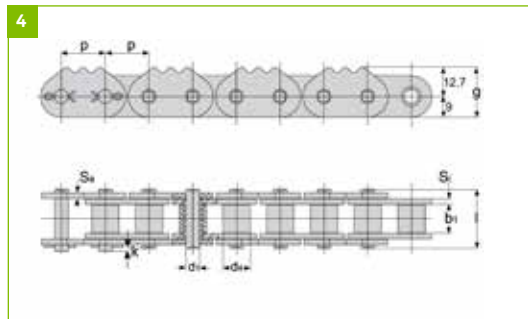
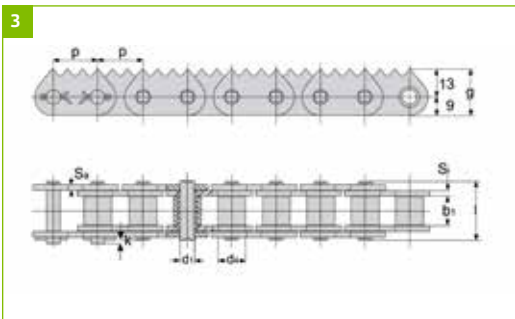
# Chains for sawing line and plank transport

**Illustration 1:**  
Chains also available  
in duplex  
configuration



**Illustration 2:**  
Roller chain 10B-1  
with sharp-toothed  
outer link plates

**Illustration 3:**  
Roller chain 12B-1  
with sharp-toothed  
link plates



**Illustration 4:**  
Chains also  
available in duplex  
configuration

**Illustration 5 and 6:**  
Chains also available  
in duplex and triplex  
configuration

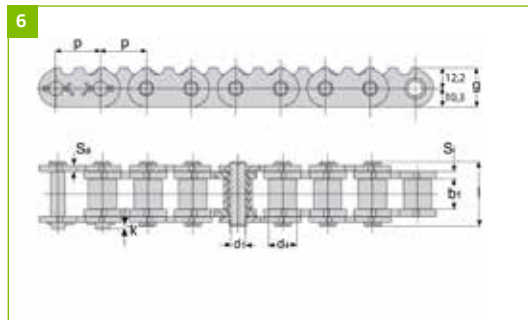
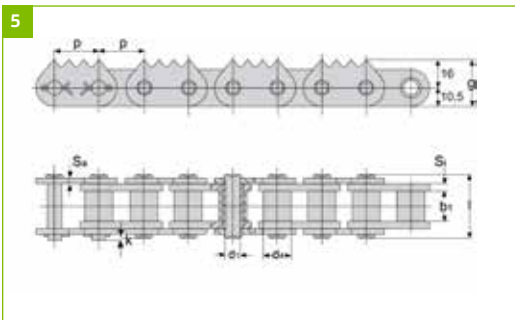
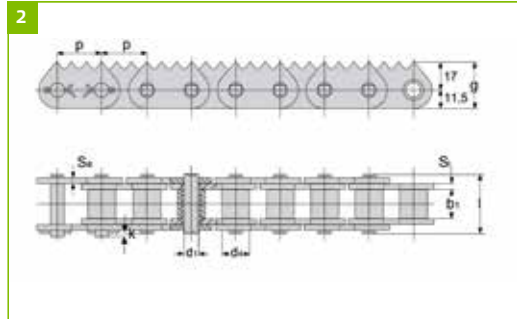
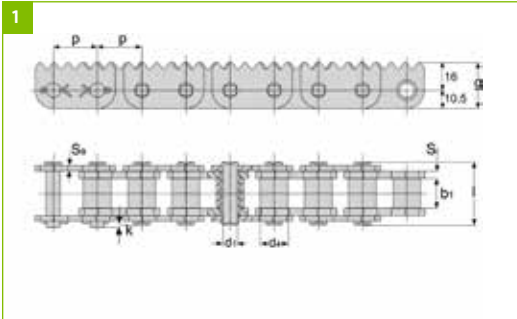
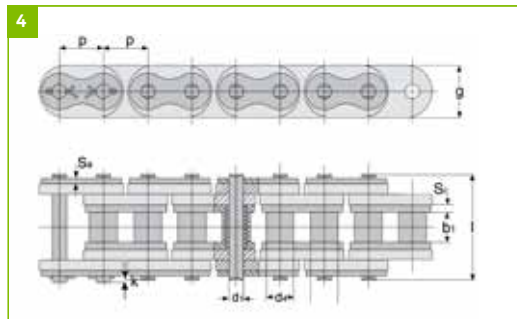
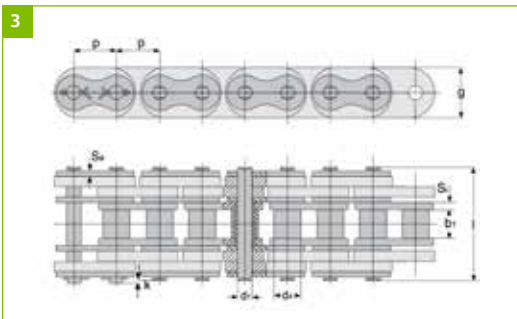


Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Roller diameter max. in mm d <sub>r</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Traverse pitch in mm e	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>B</sub>	Weight in kg/m q
1	KW 08B-1-940	12.70	7.75	8.51	4.45	16.7	1.8	1.60/1.60	18.0	-	0.50	18200	0.85
	KW 08B-2-940	12.70	7.75	8.51	4.45	31.2	1.8	1.60/1.60	18.0	13.92	1.01	32000	1.55
2	KW 10B-1-106	15.875	9.65	10.16	5.08	19.0	3.0	1.65/1.65	17.4	-	0.67	22400	1.15
3	KW 12B-1-1325	19.05	11.68	12.07	5.72	22.5	2.6	1.80/1.80	22.0	-	0.89	28900	1.60
4	KW 60-1-910	19.05	12.70	11.91	5.95	25.2	2.3	2.40/2.40	21.7	-	1.05	31800	1.65
	KW 60-2-910	19.05	12.70	11.91	5.95	49.0	2.3	2.40/2.40	21.7	22.80	2.10	62500	3.30
5	KW 16B-1-1170	25.40	17.02	15.88	8.28	36.0	3.6	4.20/3.10	26.5	-	2.10	60000	2.90
	KW 16B-2-1170	25.40	17.02	15.88	8.28	68.0	3.6	4.20/3.10	26.5	31.88	4.21	106000	5.80
	KW 16B-3-1170	25.40	17.02	15.88	8.28	100.0	3.6	4.20/3.10	26.5	31.88	6.31	166000	8.40
6	KW 16B-1-1180	25.40	17.02	15.88	8.28	36.0	3.6	4.20/3.10	22.5	-	2.10	60000	2.90
	KW 16B-2-1180	25.40	17.02	15.88	8.28	68.0	3.6	4.20/3.10	22.5	31.88	4.21	106000	5.80
	KW 16B-3-1180	25.40	17.02	15.88	8.28	100.0	3.6	4.20/3.10	22.5	31.88	6.31	166000	8.40

**Illustration 1 and 2:**  
Chains also available in duplex and triplex configuration. Intermediate link plates come as block plates



**Illustration 3 and 4:**  
Roller chains with plastic plates made out of PA6



**Illustration 5 and 6:**  
Chains also available in duplex and triplex configuration

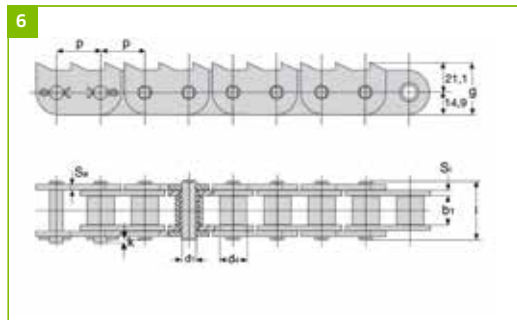
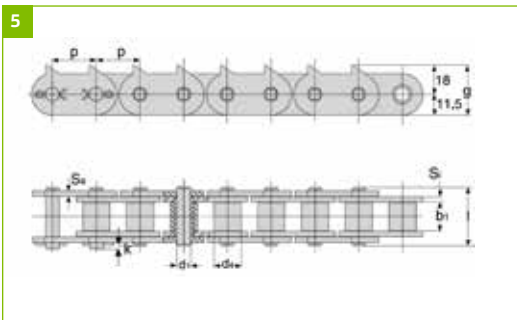


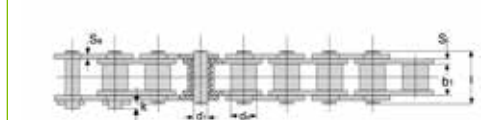
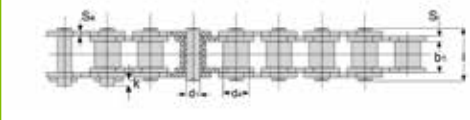
Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Roller diameter max. in mm d <sub>r</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Traverse pitch in mm e	Bearing surface in cm <sup>2</sup> A <sub>f</sub>	Tensile strength in N F <sub>b</sub>	Weight in kg/m q
1	KW 16B-1-1186	25.40	17.02	15.88	8.28	36.0	3.3	4.2/3.1	26.5	-	2.10	60000	3.00
	KW 16B-2-1186	25.40	17.02	15.88	8.28	68.0	3.3	4.2/3.1	26.5	31.88	4.21	106000	6.00
	KW 16B-3-1186	25.40	17.02	15.88	8.28	100.0	3.3	4.2/3.1	26.5	31.88	6.31	160000	9.00
2	KW 80-1-1230	25.40	15.88	15.88	7.93	33.0	3.9	3.2	28.5	-	1.77	73500	1.85
	KW 80-2-1230	25.40	15.88	15.88	7.93	61.8	3.9	3.2	28.5	29.30	3.54	147000	3.70
	KW 80-3-1230	25.40	15.88	15.88	7.93	91.2	3.9	3.2	28.5	29.30	5.31	220500	5.60
3	KW 16BNMC19	25.40	17.02	15.88	8.28	68.0	3.3	4.2/3.1	30.0	-	2.10	60000	3.30
4	KW 16BNMC09	25.40	17.02	15.88	8.28	62.0	3.3	4.2/3.1	30.0	-	2.10	27000	3.20
5	KW 80-1-1274	25.40	15.88	15.88	7.93	33.0	3.8	3.2	29.5	-	1.77	73500	2.95
	KW 80-2-1274	25.40	15.88	15.88	7.93	61.8	3.8	3.2	29.5	29.30	3.54	147000	5.70
	KW 80-3-1274	25.40	15.88	15.88	7.93	91.2	3.8	3.2	29.5	29.30	5.31	220500	8.60
6	KW 100-1-1200	31.75	19.05	19.05	9.53	34.9	4.0	4.0	36.0	-	2.58	112700	4.50
	KW 100-2-1200	31.75	19.05	19.05	9.53	75.0	4.0	4.0	36.0	35.80	5.16	225400	9.50
	KW 100-3-1200	31.75	19.05	19.05	9.53	111.0	4.0	4.0	36.0	35.80	7.73	338100	14.00

# Chains for sawing line and plank transport

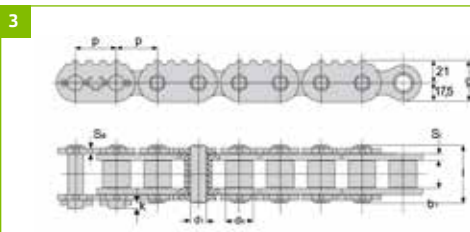
**Illustration 1:**  
Roller chain 20B  
with sharp-toothed  
link plates



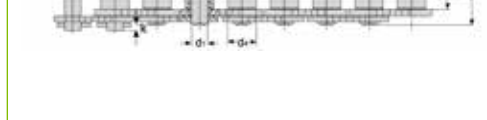
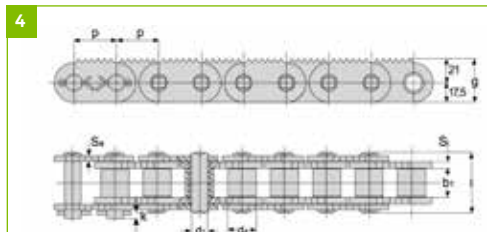
**Illustration 2:**  
Roller chain with  
two teeth; also  
available in duplex  
configuration



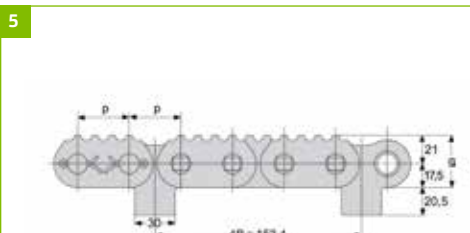
**Illustration 3:**  
Roller chain 24B with  
dull-toothed link plates;  
also available in duplex  
and triplex  
configuration



**Illustration 4:**  
Roller chain 24B with  
sharp-toothed link  
plates; also avail-  
able in duplex and  
triplex configuration



**Illustration 5:**  
Roller chain 24B with  
dull-toothed outer link  
plates; each second  
inner link with guiding  
plate



**Illustration 6:** Roller  
chain 24B with sharp-  
toothed link plates; each  
second link with guiding  
plate. Chains also  
available in duplex  
configuration. Interme-  
diate link plates come  
as block plates

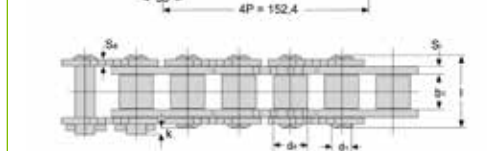
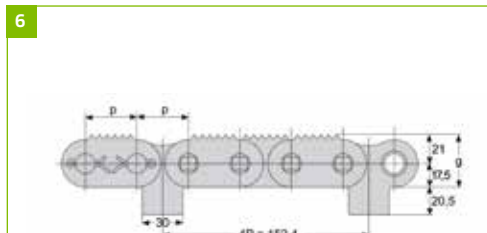
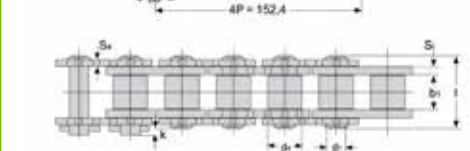
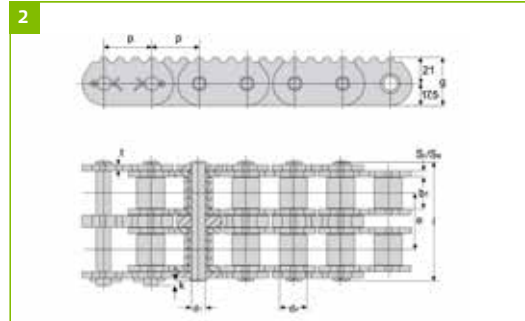
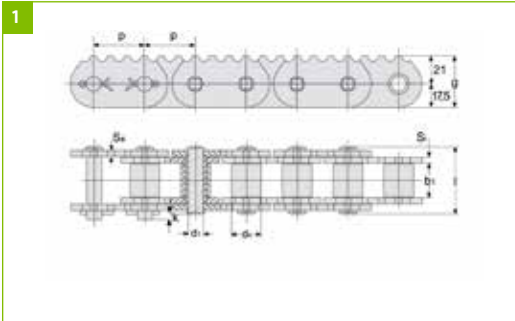
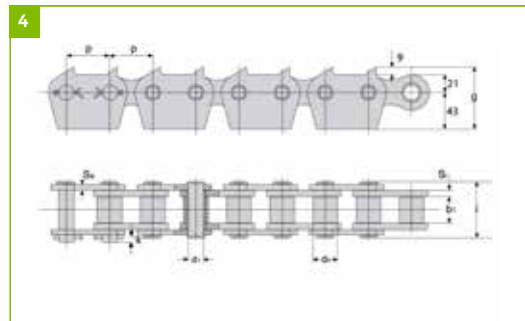
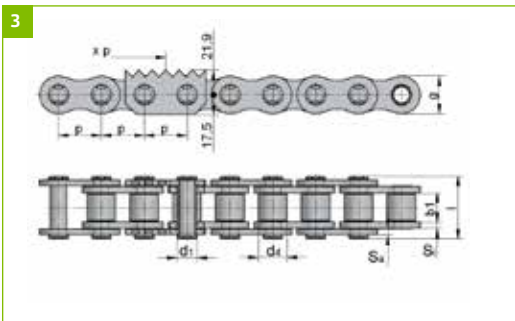


Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Roller diameter max. in mm d <sub>2</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Traverse pitch in mm e	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>b</sub>	Weight in kg/m q
1	KW 20B-1-1310	31.75	19.56	19.05	10.19	41.0	3.4	4.5/3.5	33.0	-	2.96	95000	5.0
2	KW 20B-1-1350	31.75	19.56	19.05	10.19	41.0	3.4	4.5/3.5	33.0	-	2.96	95000	4.6
	KW 20B-2-1350	31.75	19.56	19.05	10.19	77.2	3.4	4.5/3.5	33.0	36.45	5.92	170000	9.1
3	KW 24B-1-1794	38.10	25.40	25.40	14.63	54.0	4.7	6.0/4.8	38.5	-	5.54	160000	8.6
	KW 24B-2-1794	38.10	25.40	25.40	14.63	101.0	4.7	6.0/4.8	38.5	48.36	11.09	280000	17.2
4	KW 24B-1-1820	38.10	25.40	25.40	14.63	54.0	4.7	6.0/4.8	38.5	-	5.54	160000	9.1
	KW 24B-2-1820	38.10	25.40	25.40	14.63	101.0	4.7	6.0/4.8	38.5	48.36	11.09	280000	18.0
5	KW 24B-1-1809	38.10	25.40	25.40	14.63	54.0	4.7	6.0/4.8	38.5	-	5.54	160000	8.9
6	KW 24B-1-1811	38.10	25.40	25.40	14.63	54.0	4.7	6.0/4.8	38.5	-	5.54	160000	9.0

**Illustration 1 and 2:**  
Chains for center infeed with dull-toothed link plates; also available in triplex configuration

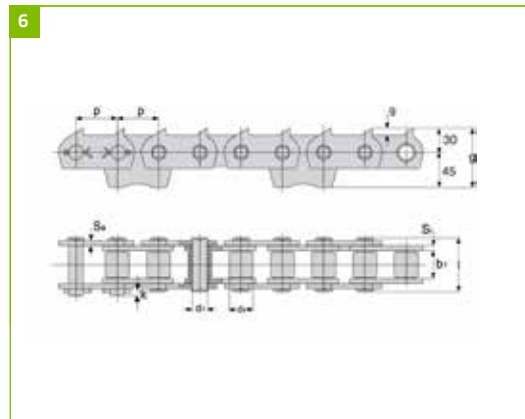
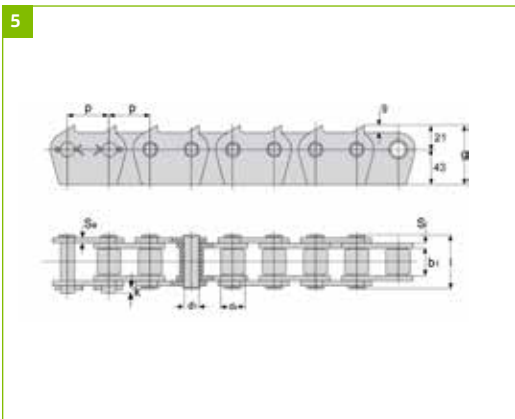


**Illustration 3:**  
Roller chain 24B with toothed outer link plates; p according to customer specification



**Illustration 4:**  
Roller chain with special, toothed outer link plate for chain guidance

**Illustration 5:**  
Toothed roller chain 32B with enlarged inner width

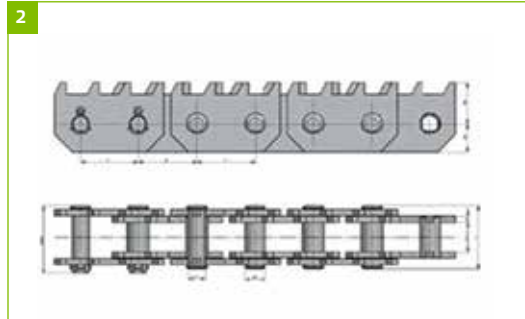
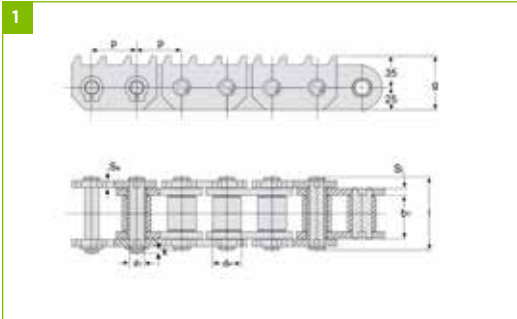


**Illustration 6:**  
Roller chain 32B with sharp-toothed outer link plates; each second inner link with guiding plate

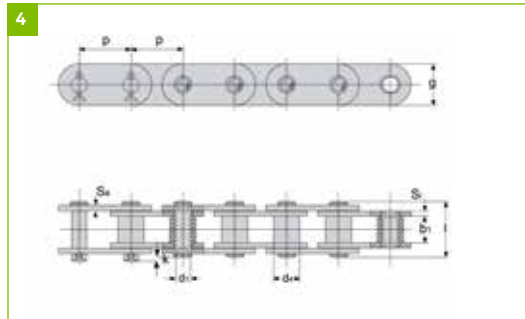
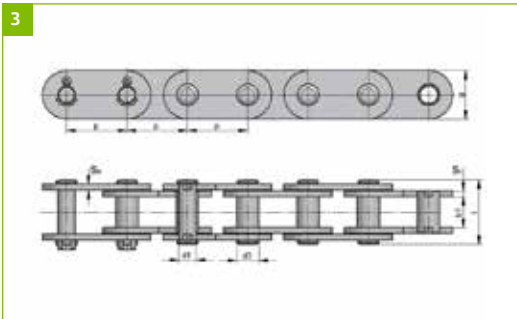
Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Roller diameter max. in mm d <sub>2</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Traverse pitch in mm e	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>B</sub>	Weight in kg/m q
1	KW 120-1-1802	38.1	25.4	22.23	11.10	50	4.0	4.8/4.8	38.5	-	3.89	124600	6.9
2	KW 120-2-1802	38.1	25.4	22.23	11.10	96	4.0	4.8/4.8	38.5	45.44	7.78	250000	13.8
	KW 120-3-1802	38.1	25.4	22.23	11.10	141	4.0	4.8/4.8	38.5	45.44	11.66	375000	20.7
3	KW 24B-1-1186	38.1	25.4	25.40	14.63	54	4.7	6.0/4.8	38.5	-	5.54	160000	9.1
4	KW 32B-1-1874	50.8	31.0	29.21	17.81	66	5.0	7.0/6.0	73.0	-	8.10	250000	12.0
5	KW 32B-1-1872	50.8	33.0	29.21	17.81	66	5.0	6.0/6.0	73.0	-	8.10	250000	13.5
6	KW 32B-1-1890	50.8	31.0	29.21	17.81	66	5.0	7.0/6.0	75.0	-	8.90	250000	12.5

# Chains for sawing line and plank transport

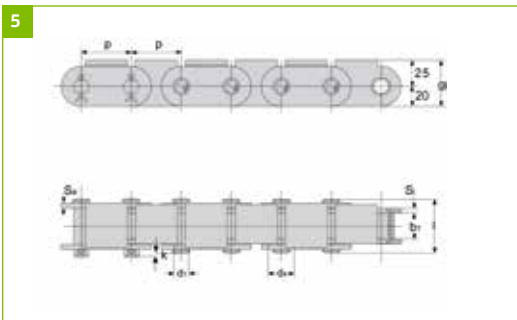
**Illustration 1 and 2:**  
Chains for chipper canter; also available solely with toothed outer link plate



**Illustration 3 and 4:**  
Chains with optional pitch of 50 mm or 100 mm. Link plates with full radius



**Illustration 5:**  
Conveyor chain with bent top plates



**Illustration 6:**  
Conveyor chain for post sorting

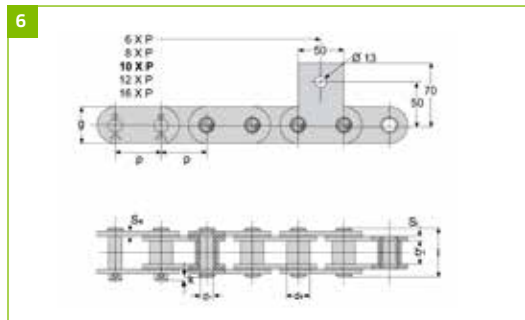
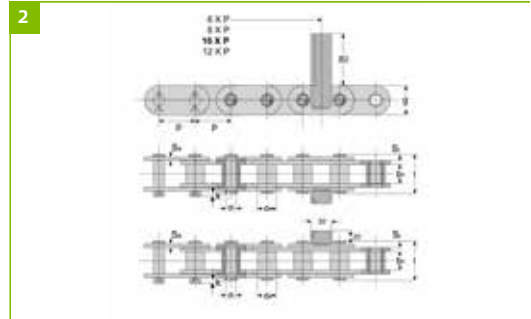
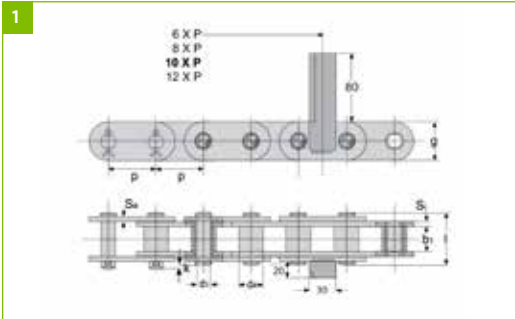


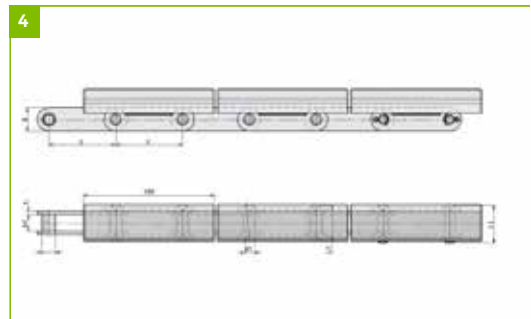
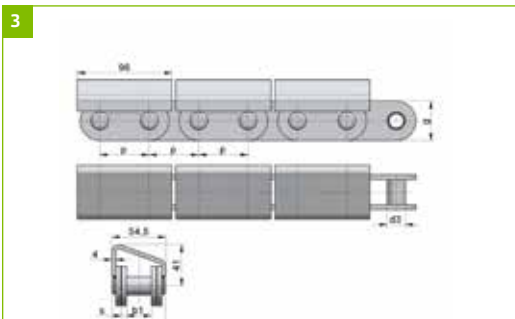
Illustration no.	Chain type	Pitch in mm	Inner width min. in mm	Roller diameter/ bush diameter max. in mm	Pin diameter max. in mm	Pin length in mm	Max. excess length of connecting pin in mm	Thickness of link plate in mm	Height in mm	Bearing surface in cm <sup>2</sup>	Tensile strength in N	Weight in kg/ m
		p	b <sub>1</sub>	d <sub>3</sub> /d <sub>4</sub>	d <sub>1</sub>	l	k	S <sub>1</sub> /S <sub>2</sub>	g	f	F <sub>B</sub>	q
1	KW 500-1860	50	40.0	32.0	16.00	65	5	8/8	60	8.9	220000	16.00
2	KW 500-1870	50	40.0	32.0	16.00	65	5	8/8	60	5.9	220000	16.30
3	KW 500	50	25.0	20.0	14.00	54	3	5/5	40	4.9	99000	7.22
	KW 441100	100	25.0	20.0	14.00	54	3	5/5	40	4.9	99000	5.18
4	KW 500 SR	50	25.4	25.4	14.63	55	3	5/5	40	5.3	108000	7.20
	KW 441100SR	100	25.4	25.4	14.63	55	3	5/5	40	5.3	108000	5.55
5	KW 500 SRCT1	50	25.4	25.4	14.63	55	3	5/5	40	5.3	108000	8.00
6	KW 500 SR SK-1	50	25.4	25.4	14.63	55	3	5/5	40	5.3	108000	7.50



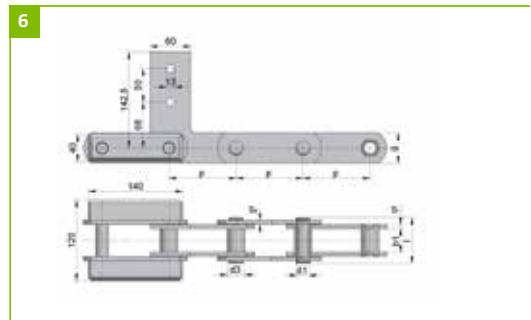
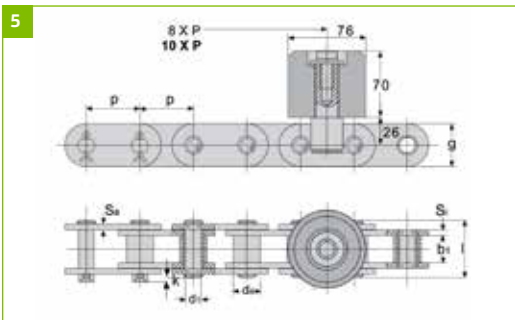
**Illustration 1 and 2:**  
Chamfer of the carrier  
inside or outside



**Illustration 3 and 4:**  
Alternative types with  
or without protection  
rollers can be  
provided



**Illustration 5:**  
Conveyor chain  
for lumber sor-  
ting; available  
with and  
without plastic  
rollers



**Illustration 6:**  
Conveyor  
chain for package  
or  
stack feed

Illustration no.	Chain type	Pitch in mm	Inner width min. in mm	Roller diameter/ bush diameter max. in mm	Pin diameter max. in mm	Pin length in mm	Max. excess length of connecting pin in mm	Thickness of link plate in mm	Height in mm	Traverse pitch in mm	Bearing surface in cm <sup>2</sup>	Tensile strength in N	Weight in kg/ m
		p	b <sub>1</sub>	d <sub>3</sub> /d <sub>4</sub>	d <sub>1</sub>	l	k	S <sub>1</sub> /S <sub>2</sub>	g	e	f	F <sub>B</sub>	q
1	KW 500 KMFI	50	25.0	20.0	14.00	54	3	5/5	40	-	4.9	99000	9.5
2	KW 500 SRKMFI	50	25.4	25.4	14.63	55	3	5/5	40	-	5.3	108000	10.0
3	KW 500 HMB21	50	25.0	20.0	14.00	54	3	5/5	40	-	4.9	99000	10.0
4	KW 441100 HMB21	50	25.0	20.0	14.00	54	3	5/5	40	-	4.9	99000	7.0
	KW 4544	50	25.4	25.4	14.63	55	3	5/5	40	-	5.3	108000	7.5
5	KW 500 FRK	50	25.0	20.0	14.00	54	3	5/5	40	-	4.9	99000	7.0
	KW 500 SRFRK	50	25.4	25.4	14.63	55	3	5/5	40	-	5.3	108000	8.0
6	KW 111309	100	35.0	26.0	18.00	68	-	6/6	45	-	8.6	140000	10.0

Chunks of wood as well as saw dust are removed by means of wood chips conveyors.



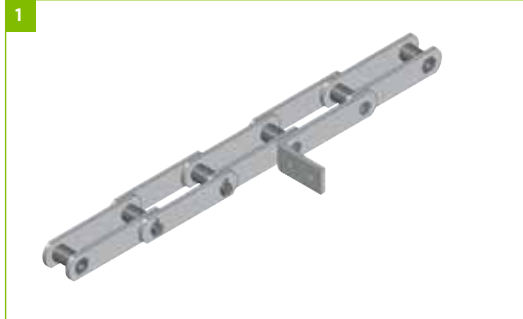
## Chains for wood chips handling

Wood chips handling has to be dealt with in many steps of wood processing. For instance, wood chips are left over during root reduction, at the trimming and debarking station or at the sorting and storage areas. Conveyor chains help to keep the installations clean of these wood chips and thus contribute to a smooth operating process.

Moreover, KettenWulf conveyor chains are also used in the recycling industry, e.g. for the infeed of combustibles.

# Chain applications for wood chips handling

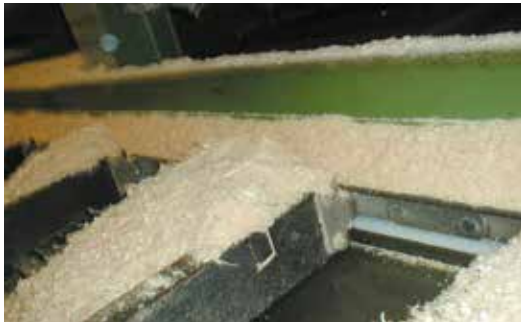
Wood chips conveyor at root reducer and trimming station



Wood chips conveyor at debarking station



Wood chips conveyor in sawing line



Conveyor at wood chip sorting



# Chains for wood chips handling

**Illustration 1 to 3:**  
Chains for wood chips handling are also available with other carrier spaces

Standard chain features include larger clearance between pins and bushes and between inner and outer link

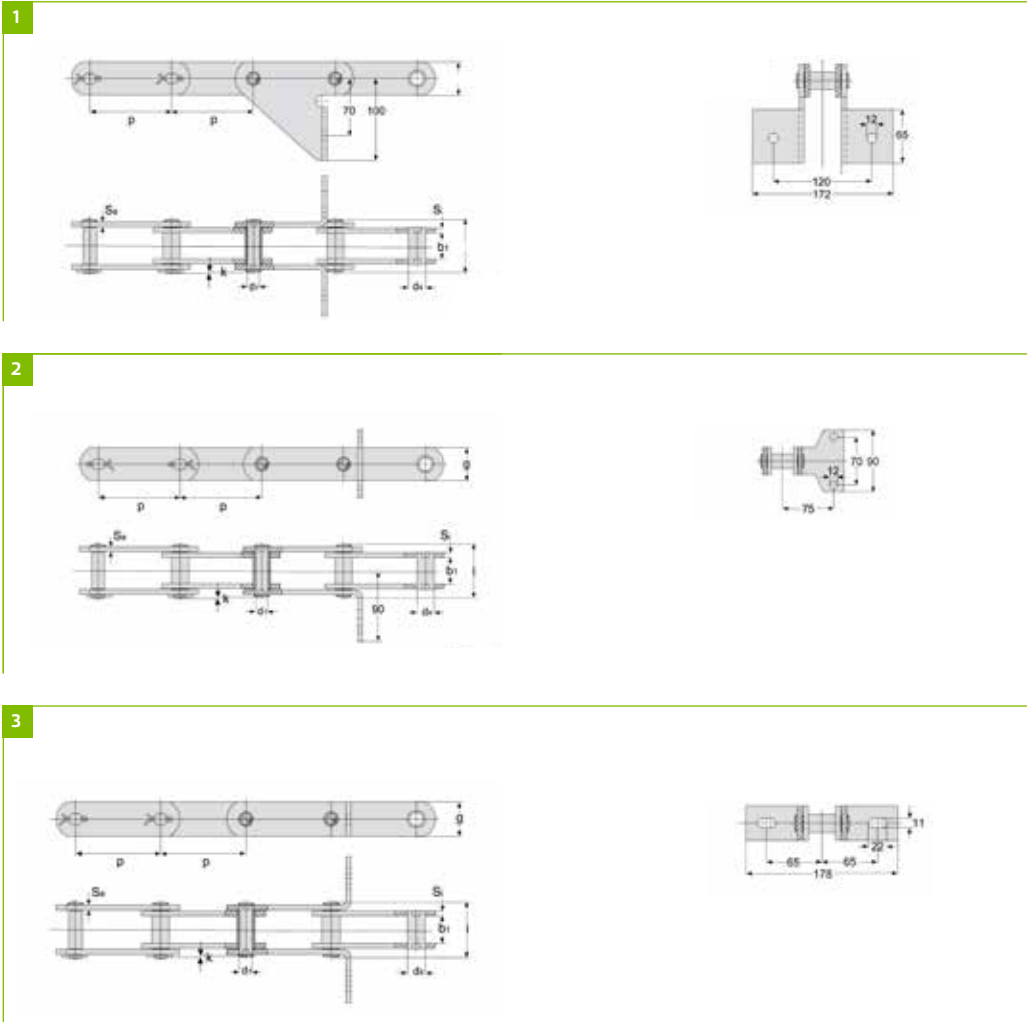


Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Bush diameter max. in mm d <sub>3</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>B</sub>	Weight in kg/m q
1	KW 2983	100	32	21	15	65	4.5	6/6	40	6.8	112000	8.5
2	KW 2984	100	32	21	15	65	4.5	6/6	40	6.8	112000	6.5
3	KW 2985	100	32	21	15	65	4.5	6/6	40	6.8	112000	7.0

**Illustration 1 to 3:**  
Chains for wood chips handling are also available with other carrier spaces

Standard chain features include larger clearance between pins and bushes and between inner and outer link

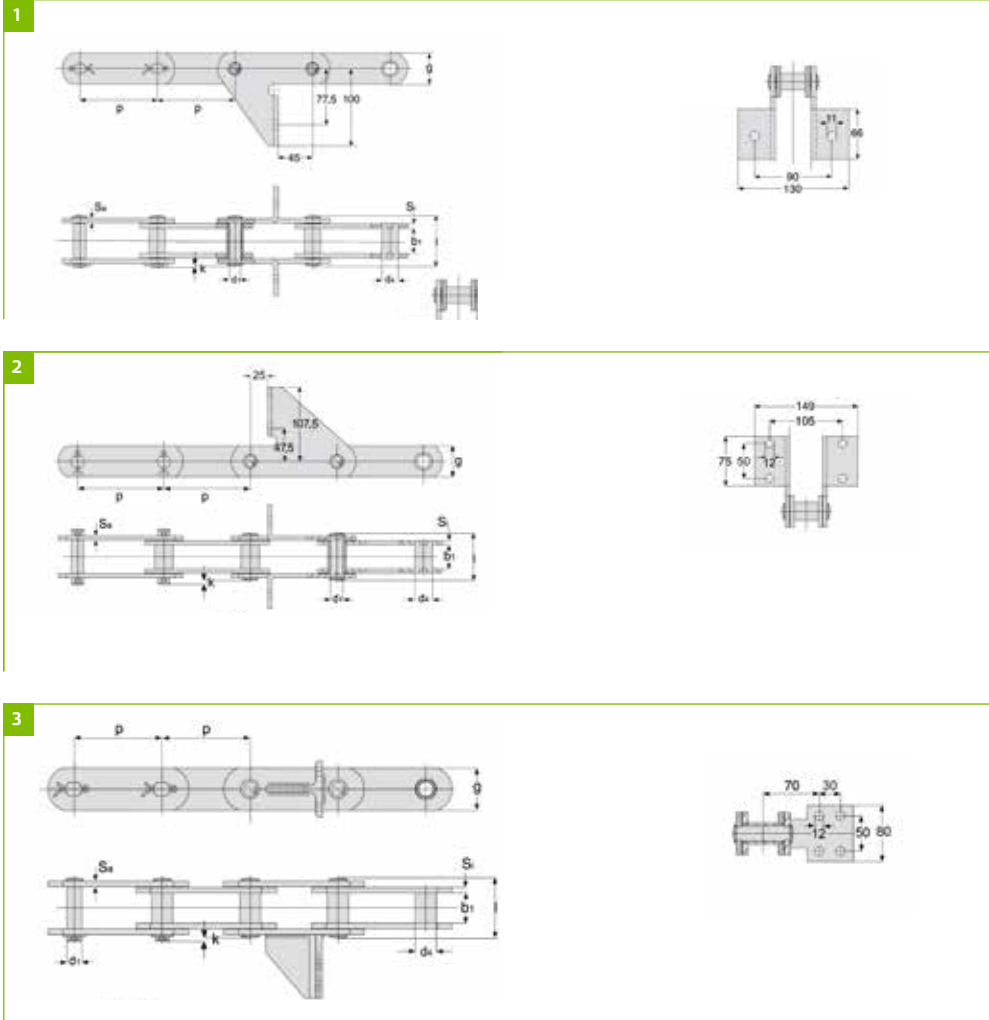


Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Bush diameter max. in mm d <sub>3</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>B</sub>	Weight in kg/m q
1	KW 4520	100	25	20	14	58	4.5	8/6	40	5.2	140000	7.0
2	KW 2979	125	35	26	18	72	5.0	6/6	45	8.5	140000	7.8
3	KW 2981	125	35	26	18	72	5.0	6/6	45	8.5	140000	8.0

KettenWulf conveyor chains allow for a smooth transport of wood products in the wood processing industry as, for example, in a chip board plant.



## Chains for the wood processing industry

KettenWulf also offers special and standardized chain solutions for the wood processing industry. Given our profound know-how and the many years of experience in this particular industry, we are able to provide solutions geared to your individual conveying application. It does not matter if you send us a drawing, a sample or even just an idea – our engineers and designers will work out an optimal product solution to meet your specific needs.

Our products can be used in nearly all wood-related industries such as:

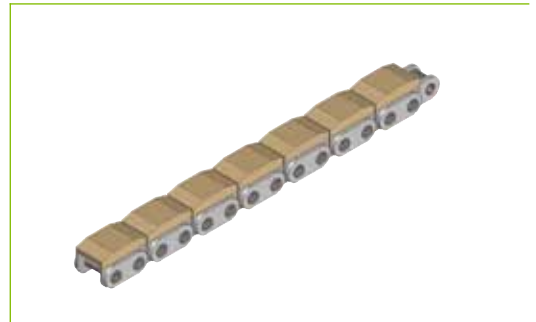
- » **chip board industry**
- » **furniture industry**
- » **glulam industry**
- » **paper industry**
- » **planing mills**
- » **chipper canters**

# Chain applications in the wood processing industry

Chip board industry



Glulam industry



Chipper canters



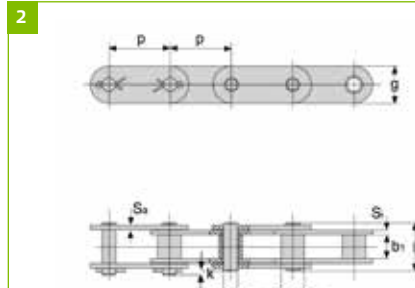
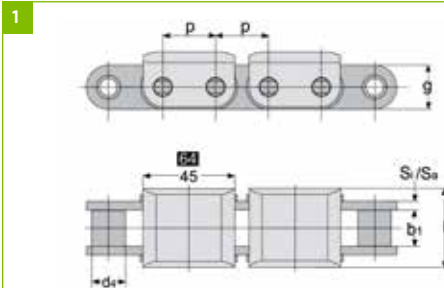
Paper industry



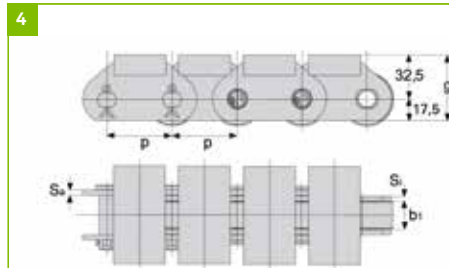
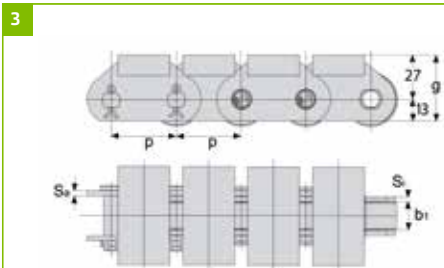
# Chains for the wood processing industry

**Illustration 1:**  
Plastic clips made out of PA6 are available separately

**Illustration 2:**  
Chain also available in heavy duty version



**Illustration 3 and 4:**  
Roller chains with welded on carrier plates



**Illustration 5 and 6:**  
Roller chains with vulcanized polymer block

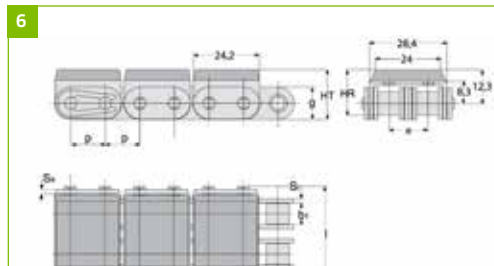
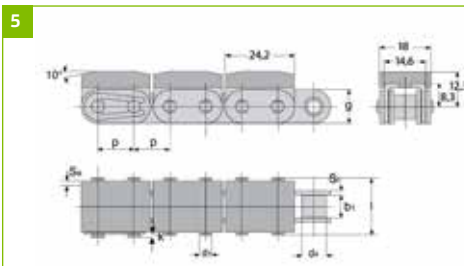


Illustration no.

Pitch in mm

Inner width min. in mm

Roller diameter max. in mm

Pin diameter max. in mm

Pin length in mm

Max. excess length of connecting pin in mm

Thickness of link plate in mm

Height in mm

Bearing surface in cm<sup>2</sup>

Tensile strength in N

Weight in kg/m

Chain type

p

b<sub>1</sub>

d<sub>2</sub>

d<sub>1</sub>

l

k

S<sub>1</sub>/S<sub>2</sub>

g

f

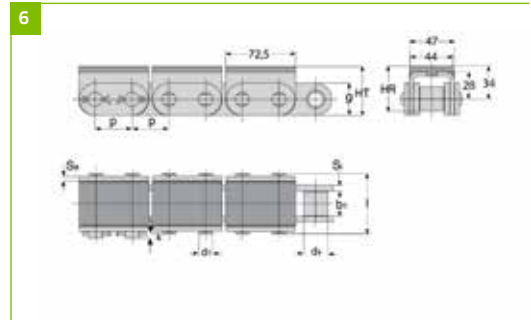
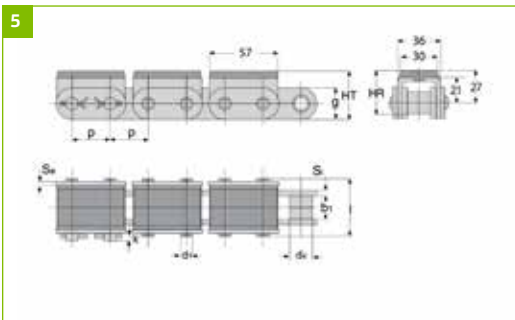
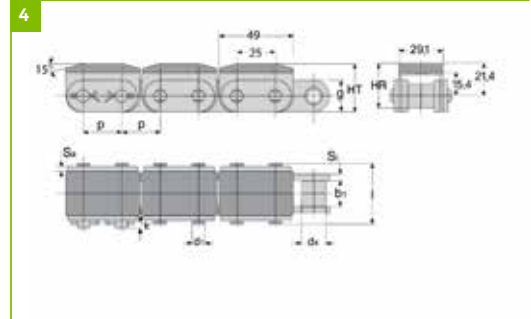
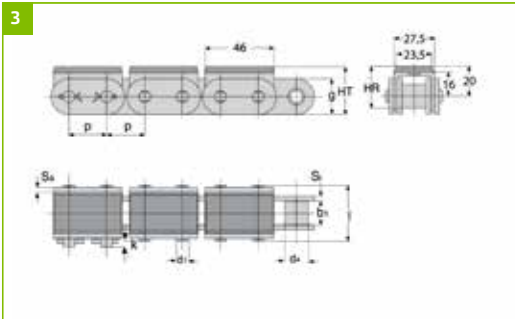
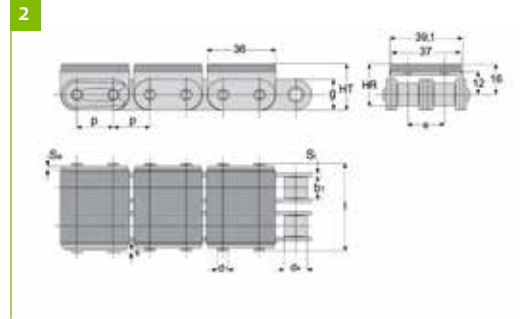
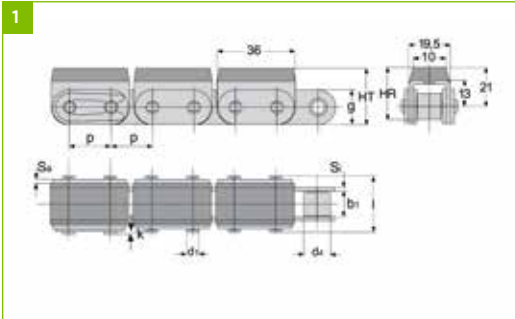
F<sub>B</sub>

q

Illustration no.	Chain type	Pitch in mm	Inner width min. in mm	Roller diameter max. in mm	Pin diameter max. in mm	Pin length in mm	Max. excess length of connecting pin in mm	Thickness of link plate in mm	Height in mm	Bearing surface in cm <sup>2</sup>	Tensile strength in N	Weight in kg/m
		p	b <sub>1</sub>	d <sub>2</sub>	d <sub>1</sub>	l	k	S <sub>1</sub> /S <sub>2</sub>	g	f	F <sub>B</sub>	q
1	KW C16B24 TPG	25.40	17.02	15.88	8.28	42.0	3.3	4.2/3.1	24.0	2.10	60000	3.20
	KW C20B TPG	31.75	19.56	19.05	10.19	47.0	3.4	4.5/3.5	26.0	2.96	95000	4.60
2	KW 81 X	66.27	27.00	23.00	11.10	49.0	5.0	4.0/4.0	28.5	3.90	129000	3.80
	KW 81HHX	66.27	27.80	23.00	11.10	61.0	4.0	8.0/8.0	31.5	4.90	176000	5.80
3	KW 4095	40.00	18.00	32.00	10.00	36.0	4.0	3.0	40.0	2.40	40000	7.40
4	KW 4098	63.00	25.00	48.00	14.00	53.0	6.0	5.0	50.0	4.90	140000	14.00
5	KW C08B 5700NBR75	12.70	7.75	8.51	4.45	20.0	3.9	1.5	11.8	0.50	18000	1.35
6	KW C08B-2 530NBR75	12.70	7.75	8.51	4.45	34.3	3.9	1.5	11.8	1.00	32000	2.49



Our standard profile for polymer block chains is nitrile butadiene rubber (NBR) with 75 shore A hardness. Other profiles available on request



KW RC-Simplex

Illustration no.	Chain type	Pitch in mm p	Inner width min. in mm b <sub>i</sub>	Roller diameter max. in mm d <sub>r</sub>	Pin diameter max. in mm d <sub>p</sub>	Pin length in mm l	Max excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Traverse pitch in mm e	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>B</sub>	Weight in kg/m q
1	KW C12B 4680NBR75	19.05	11.68	12.07	5.72	26.5	1.5	1.8	16.0	-	0.89	31400	2.15
2	KW C12B-2 760NBR75	19.05	11.68	12.07	5.72	46.0	4.6	1.8	16.0	39.1	1.98	62800	3.48
3	KW C80 570NBR75	25.40	15.88	15.88	7.93	37.2	3.3	3.2	24.0	-	1.05	73500	5.34
4	KW C16B 6580NBR75	25.40	17.02	15.88	8.28	39.7	3.3	4.0/3.2	21.0	-	2.10	70600	4.15
5	KW C20B 2160NBR75	31.75	19.56	19.05	10.19	48.5	4.0	4.5/3.5	26.4	-	3.70	98000	8.65
6	KW C24B 835NBR75	38.10	25.40	25.40	14.63	61.6	4.4	6.0/4.7	33.2	-	7.00	164000	11.63

Other than ISO standard chains KettenWulf also delivers a large variety of alternative chain types.



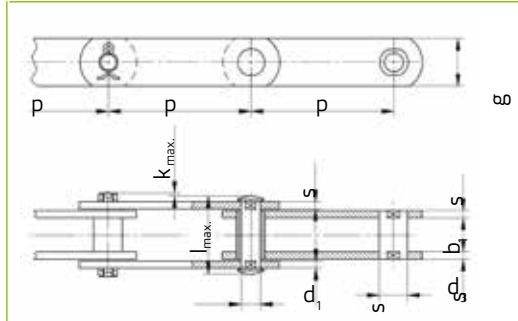
## Conveyor chains and roller chains according to DIN

Besides special chains for the wood industry, KettenWulf offers a huge range of conveyor chains and roller chains. Our product portfolio encompasses not only standard chains, but also the following chain types:

- » Deep link chains and hollow pin chains
- » Bush chains
- » Gall chains and leaf chains
- » Low-maintenance chains and anti-corrosion chains
- » Roller chains with straight link plates or attachments
- » Double pitch roller chains
- » Accumulation chains

Many of these chains are also available in ANSI standard according to DIN 8188 (ISO 606). For further information please do not hesitate to contact us.

# Conveyor chains with solid pin FV DIN 8165 and M DIN 8167



Plates are made out of steel having a tensile strength of at least 600 N/mm<sup>2</sup>

Pins and bushes made out of case-hardened steel or heat-treatable steel

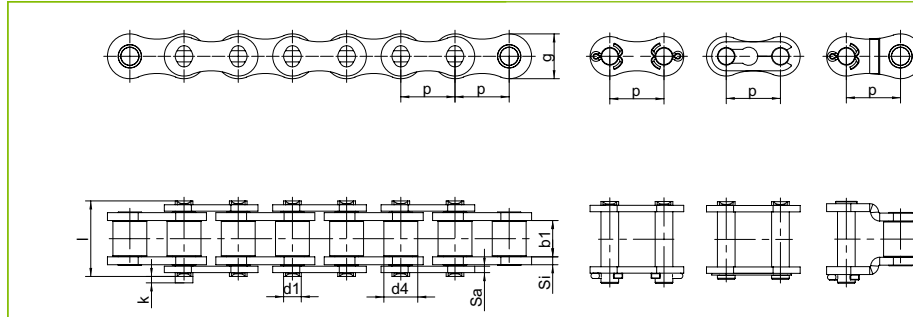
### Technical data of conveyor chains with solid pin, type FV DIN 8165

Chain type	Tensile strength single strand chain	Admissible tensile strength single strand chain	Bearing area per strand	Admissible bearing pressure per strand	Pitch in mm										Inner width in mm	Pin diameter in mm	Bush diameter in mm	Small roller diameter in mm	Roller diameter in mm	Width of link plates in mm	Thickness of link plates in mm	Max. excess length of connecting pin in mm	Pin length in mm
	N min	N	~ cm <sup>2</sup>	N/cm <sup>2</sup>	p										b <sub>1</sub>	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	g	s	k
FV 40	40000	6700	2.5	2680	40	63	100	125	-	-	-	-	-	-	18	10	15	20	32	26	3	3.5	37
FV 63	63000	10500	3.7	2840	50	63	100	125	160	200	-	-	-	-	22	12	18	26	40	30	4	4.5	46
FV 90	90000	15000	5.0	3000	-	63	100	125	160	200	250	-	-	-	25	14	20	30	48	35	5	4.5	53
FV 112	112000	18700	6.8	2750	-	80	100	125	160	200	250	-	-	-	30	16	22	32	55	40	6	4.5	63
FV 140	140000	23400	8.6	2720	-	80	100	125	160	200	250	315	-	-	35	18	26	36	60	45	6	6.0	68
FV 180	180000	30000	12.3	2440	-	-	100	125	160	200	250	315	400	-	45	20	30	42	70	50	8	7.0	86
FV 250	250000	41700	18.7	2230	-	-	100	125	160	200	250	315	400	-	55	26	36	50	80	60	8	8.0	98
FV 315	315000	52500	25.8	2040	-	-	-	125	160	200	250	315	400	500	65	30	42	60	90	70	10	8.0	117
FV 400	400000	66700	30.7	2170	-	-	-	-	160	200	250	315	400	500	70	32	44	60	100	70	12	10.0	131
FV 500	500000	83400	38.2	2180	-	-	-	-	160	200	250	315	400	500	80	36	50	70	110	80	12	10.0	141
FV 630	630000	105000	48.7	2160	-	-	-	-	-	200	250	315	400	500	90	42	56	80	120	100	12	10.0	153

### Technical data of conveyor chains with solid pins, type M DIN 8167

Chain type	Tensile strength single strand chain	Admissible tensile strength single strand chain	Bearing area per strand	Admissible bearing pressure per strand	Pitch in mm										Inner width in mm	Pin diameter in mm	Bush diameter in mm	Small roller diameter in mm	Roller diameter in mm	Width of link plates in mm	Thickness of link plates in mm	Max. excess length of connecting pin in mm	Pin length in mm						
	N min	N	~ cm <sup>2</sup>	N/cm <sup>2</sup>	p										b <sub>1</sub>	d <sub>1</sub>	d <sub>2</sub>	d <sub>3</sub>	d <sub>4</sub>	d <sub>5</sub>	g	s	k	l					
M 20	20000	2850	1.32	2160	40	50	63	80	100	125	160	-	-	-	-	-	-	-	16	6	9.0	12.5	25	18	2.5	7	35		
M 28	28000	4000	1.75	2290	-	50	63	80	100	125	160	200	-	-	-	-	-	-	18	7	10.0	15.0	30	20	3.0	8	40		
M 40	40000	5700	2.38	2400	-	-	63	80	100	125	160	200	250	-	-	-	-	-	20	8.5	12.5	18.0	36	25	3.5	9	45		
M 56	56000	8000	3.30	2430	-	-	63	80	100	125	160	200	250	-	-	-	-	-	24	10	15.0	21.0	42	30	4.0	10	52		
M 80	80000	11400	4.68	2440	-	-	-	80	100	125	160	200	250	315	-	-	-	-	28	12	18.0	25.0	50	35	5.0	12	62		
M 112	112000	16000	6.75	2370	-	-	-	80	100	125	160	200	250	315	-	-	-	-	32	15	21.0	30.0	60	40	6.0	14	73		
M 160	160000	22850	9.36	2440	-	-	-	-	100	125	160	200	250	315	400	-	-	-	37	18	25.0	36.0	70	50	7.0	16	85		
M 224	224000	32000	12.60	2540	-	-	-	-	-	125	160	200	250	315	400	500	-	-	43	21	30.0	42.0	85	60	8.0	18	98		
M 315	315000	45000	17.50	2570	-	-	-	-	-	-	160	200	250	315	400	500	630	-	48	25	36.0	50.0	100	70	10.0	21	112		
M 450	450000	64300	24.60	2620	-	-	-	-	-	-	-	200	250	315	400	500	630	800	-	56	30	42.0	60.0	120	80	12.0	25	135	
M 630	630000	90000	34.56	2610	-	-	-	-	-	-	-	-	250	315	400	500	630	800	1000	66	36	50.0	70.0	140	100	14.0	30	154	
M 900	900000	128600	49.28	2610	-	-	-	-	-	-	-	-	-	250	315	400	500	630	800	1000	78	44	60.0	85.0	170	120	16.0	37	180

# Roller chains according to DIN 8187 and factory standard



Technical data of roller chains according to DIN 8187

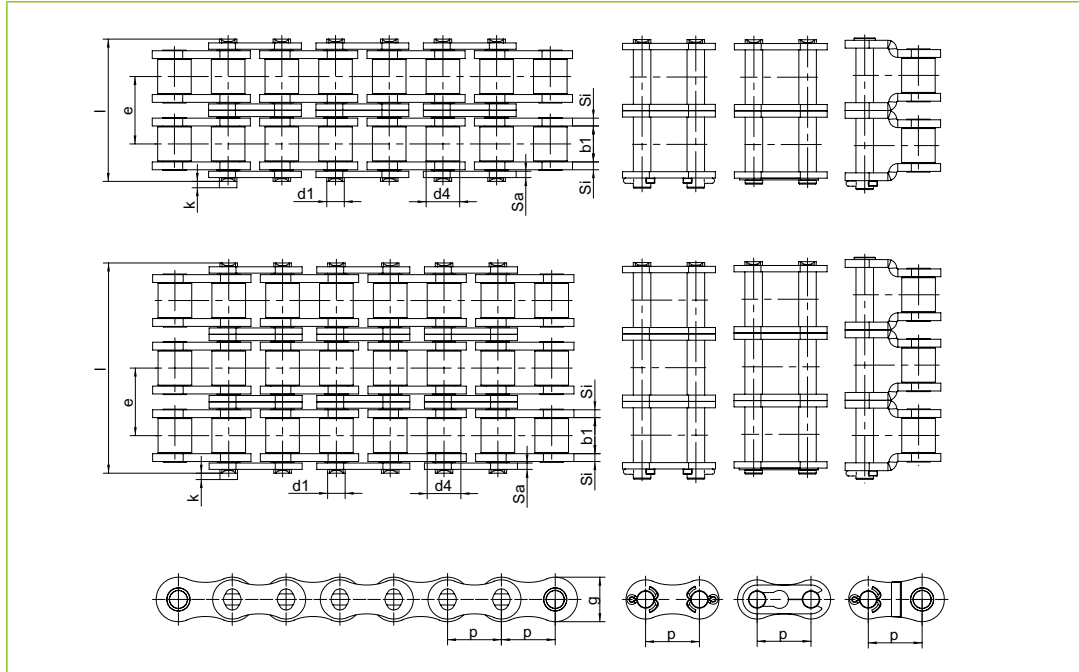
Chain type	Pitch in mm $p$	Inner width min. in mm $b_1$	Roller diameter max. in mm $d_r$	Pin diameter max. in mm $d_1$	Pin length max. in mm $l$	Max. excess length of connecting pin in mm $k$	Thickness of link plate in mm $S_1$	Thickness of link plate in mm $S_a$	Height in mm $g$	Bearing surface in $cm^2$ $f$	Tensile strength in N $F_b$	Weight in kg/m $\approx q$
KW 04	6.00	2.80	4.00	1.85	6.8	0.5	0.63	0.65	5.00	0.08	3000	0.13
KW 05B	8.00	3.04	5.00	2.31	7.8	0.6	0.76	0.76	7.00	0.11	4400	0.90
KW 06B	9.525	5.72	6.35	3.28	12.5	2.4	1.25	1.00	8.20	0.28	8900	0.40
KW 081	12.70	3.60	7.75	3.66	9.6	1.3	0.96	0.96	9.90	0.26	8200	0.30
KW 083	12.70	4.88	7.75	3.96	12.9	1.1	1.35	1.35	10.30	0.32	11600	0.50
KW 084	12.70	4.88	7.75	4.09	14.3	1.3	1.80	1.60	11.10	0.33	16000	0.60
KW 08B	12.70	7.75	8.51	4.45	16.5	2.4	1.50	1.50	11.70	0.50	18000	0.70
KW 10B	15.875	9.65	10.16	5.08	18.8	2.6	1.50	1.50	14.60	0.67	22200	0.90
KW 12B	19.05	11.68	12.07	5.72	22.3	2.7	1.80	1.80	16.00	0.89	28900	1.20
KW 16B	25.40	17.02	15.88	8.28	35.4	3.4	3.70	3.00	21.00	2.10	60000	2.67
KW 20B	31.75	19.56	19.05	10.19	40.8	3.4	4.50	3.50	25.78	2.96	95000	3.81
KW 24B	38.10	25.40	25.40	14.63	53.3	4.7	6.00	5.00	33.25	5.54	160000	7.00
KW 28B	44.45	30.99	27.94	15.90	65.0	5.3	7.50	6.40	36.80	7.39	200000	9.65
KW 32B	50.80	30.99	29.21	17.81	65.2	5.8	7.00	6.40	42.00	8.10	250000	10.17
KW 40B	63.50	38.10	39.37	22.85	82.2	7.0	8.50	8.00	52.20	12.75	355000	17.00
KW 48B	76.20	45.70	48.20	29.20	99.0	8.0	12.00	10.00	64.00	20.61	560000	27.00

The most current sprockets for chains according to DIN 8187 can be delivered from stock

Technical data of roller chains according to factory standard (Simplex)

Chain type	Pitch in mm $p$	Inner width min. in mm $b_1$	Roller diameter max. in mm $d_r$	Pin diameter max. in mm $d_1$	Pin length max. in mm $l$	Max. excess length of connecting pin in mm $k$	Thickness of link plate in mm $S_1/S_a$	Height in mm $g$	Traverse pitch in mm $e$	Bearing surface in $cm^2$ $A_f$	Tensile strength in N $F_b$	Weight in kg/m $\approx q$
KW 12R	19.05	11.68	12.07	6.01	24.9	3.6	2.4	18.1	-	1.05	45000	1.51
KW 16R	25.40	17.02	15.88	8.90	35.7	3.2	4.0/3.2	24.0	-	2.28	80000	3.10
KW H24B	38.10	25.40	25.40	14.63	60.1	4.8	7.3/6.3	36.2	-	5.91	275000	8.90

# Roller chains according to DIN 8187



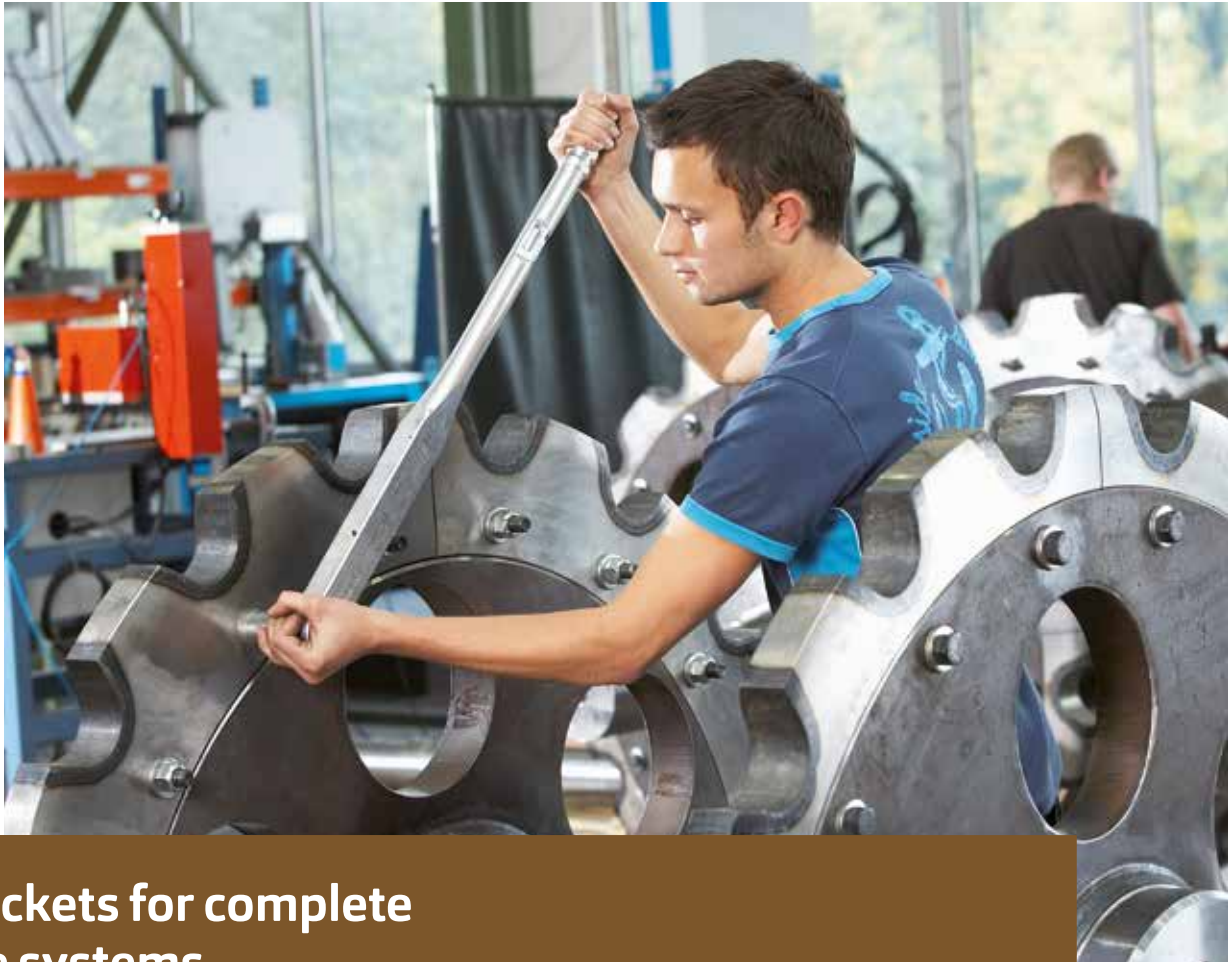
## Technical data of roller chains according to DIN 8187 (Duplex)

Chain type	Pitch in mm p	Inner width min. in mm b <sub>1</sub>	Roller diameter max. in mm d <sub>r</sub>	Pin diameter max. in mm d <sub>1</sub>	Pin length max. in mm l	Max. excess length of connecting pin in mm k	Thickness of link plate in mm S <sub>1</sub> /S <sub>2</sub>	Height in mm g	Traverse pitch in mm e	Bearing surface in cm <sup>2</sup> f	Tensile strength in N F <sub>B</sub>	Weight in kg/m ≈ q
KW 05B-2	8.00	3.00	5.00	2.31	13.3	0.7	0.75	7.1	5.64	0.22	7800	0.36
KW 06B-2	9.525	5.72	6.35	3.28	22.8	2.5	1.3/1.1	8.2	10.24	0.56	16900	0.78
KW 08B-2	12.70	7.775	8.51	4.45	30.6	2.4	1.5	11.8	13.92	1.01	32000	1.30
KW 10B-2	15.875	9.65	10.16	5.08	35.6	2.6	1.7	14.7	16.59	1.34	44500	1.80
KW 12B-2	19.05	11.68	12.07	5.72	41.6	3.1	1.8	16.1	19.46	1.79	57800	2.30
KW 16B-2	25.40	17.02	15.88	8.28	67.1	3.4	4.0/3.2	21.0	31.88	4.21	106000	5.30
KW 20B-2	31.75	19.56	19.05	10.19	77.0	3.5	4.5	26.0	36.45	5.91	170000	7.26
KW 24B-2	38.10	25.40	25.40	14.63	101.0	4.7	5.6	33.4	48.36	11.09	280000	14.00
KW 28B-2	44.45	31.00	27.94	15.90	124.0	5.3	7.4/6.4	37.0	59.56	14.79	360000	18.05
KW 32B-2	50.80	31.00	29.21	17.81	124.0	5.8	7.0/6.0	42.0	58.55	16.21	450000	20.50
KW 40B-2	63.50	38.10	39.37	22.89	154.0	7.0	8.5/8.0	52.9	72.29	25.50	630000	32.00
KW 48B-2	76.20	45.72	48.26	29.24	190.0	8.0	12/10	63.8	91.21	41.23	1000000	50.00

## Technical data of roller chains according to DIN 8187 (Triplex)

KW 06B-3	9.525	5.72	6.35	3.28	33.0	2.3	1.3/1.1	8.2	10.24	0.84	24900	1.18
KW 08B-3	12.70	7.75	8.51	4.45	44.5	2.3	1.5	11.8	13.92	1.51	44500	1.92
KW 10B-3	15.875	9.65	10.16	5.08	52.3	2.6	1.7	14.7	16.59	2.02	66700	2.60
KW 12B-3	19.05	11.68	12.07	5.72	61.0	4.6	1.8	16.1	19.46	2.68	86700	3.40
KW 16B-3	25.40	17.02	15.88	8.28	99.4	3.4	4.0/3.2	21.0	31.88	6.31	160000	7.70
KW 20B-3	31.75	19.56	19.05	10.19	113.4	3.5	4.5/3.5	26.0	36.45	8.87	250000	10.85
KW 24B-3	38.10	25.40	25.40	14.63	150.2	4.7	5.6/4.9	33.4	48.36	16.63	425000	21.00
KW 28B-3	44.45	31.00	27.94	15.90	184.3	5.2	7.4/6.4	37.0	59.56	22.18	530000	26.60
KW 32B-3	50.80	31.00	29.21	17.81	182.6	5.8	7.0/6.0	42.0	58.55	24.31	670000	32.00
KW 40B-3	63.50	38.10	39.37	22.89	226.0	7.0	8.5/8.0	52.9	72.29	38.25	950000	47.50
KW 48B-3	76.20	45.72	48.26	29.24	281.0	8.0	12.0/10.0	63.8	91.21	61.84	1500000	75.00

Assembly of  
drive shaft and  
sprocket used  
in the bulk  
material hand-  
ling industry



## Sprockets for complete drive systems

Sprockets are a decisive factor in the capability and service life of every chain system. KettenWulf therefore produces its own sprockets to ensure the high quality of all products. Our product range covers in addition to sprockets in all DIN gearings also individual solutions with optimal tooth shapes and wheel sizes.

Using high quality heat-treated tempered steel we set quality standards for wear-resistant sprockets and drive components.

# Optimum tooth shape for all designs

We supply the corresponding sprockets for all chains. In addition to sprockets with DIN gearing sprockets with optimised tooth shapes and milled surfaces can also be produced on our CNC machines. Designs in high quality materials with tempered and additionally inductively hardened teeth are part of our standard product programme.

Our production range covers all designs of sprockets, such as sprockets with single and double sided hub, divided sprockets, sprockets with bolted on segments or tooth shells, shear-pin sprockets, pinion sprockets and noise-attenuated special sprockets as well as hardened drive and tensioning wheels for chain bucket elevators without gearing.

**Figure 1:**  
Sprocket with bolted-on tooth shells



**Figure 2:**  
Sprocket with intermediate gap for welded chain reinforcement tube



**Figure 3:**  
Sprocket with special gearing for forged link chains



**Figure 4:**  
Double sprocket for block plate chain



**Figure 5:**  
Drive wheel without gearing for bucket elevator chain



**Figure 6:**  
Drive shaft fully assembled with sprockets



**Figure 7:**  
Sprocket with 3-part sprocket wheel and lightning holes



**Figure 8:**  
Sprocket with double sided screw-on noise attenuation elements



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