

# **Conveyor Chains and Components**







# Content

# **Conveyor Chains** and Components

Customer satisfaction is our primary operating principle. Our customers benefit from our metallurgical expertise, our many years of experience in a wide variety of industries, and our unfailing commitment to the highest quality standards.

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# Welcome to the pewag group

We are an internationally operating group of companies. Our track record goes back to the year 1479.

# Mission Statement pewag group's Mission Statement expresses the goals of our actions as follows:

With our joy for innovation, we ensure that all products of the pewag group are the best in the respective markets, both now and in the future. The high quality of our products and services as well as our employees' passionate dedication are the foundation to our pursuit of outstanding services and complete customer satisfaction.

## Principles of pewag group

#### Leading in Quality

The values of our product brands are demonstrated by our first-class quality and innovations and are communicated consistently and coherently.

We anticipate market demands and changes in the environment and adapt our strategies, organizations and actions accordingly to satisfy our customers' needs through providing the best value for the money; timely delivery; efficient and obliging service.

#### Leading in Responsibility

We commit ourselves to careful treatment of the environment, by reducing the use of energy and raw materials, ensuring the longevity of our products and making them recyclable.

We value an open, honest and team-oriented work-style, which is based on transparent communication honoring ideas, opinions and experience of our employees as valuable inputs for our decision making process.

We strive for stable and fair partnerships with our employees, customers, suppliers and other business partners and take social aspects into consideration when making business decisions.

#### Leading in Technology

We secure our technological strength by striving for product quality, constant improvements and innovations of products, as well as manufacturing processes.

We are dedicated to keep on top of product technology. This ensures that our customers always have the best solutions available and that we expand and protect our market position.

#### **Leading in Economics**

In all our processes we use due diligent business practices and efficiency and strive to improve these continuously.

In the long-term, we will continuously increase our economic performance to raise corporate value, achieve sustained growth and thus secure a successful future of the organization.



We are a modern group of companies which looks back to a tradition and experience of more than 500 years. Since our founding years, a lot has changed, but the values that made our success possible from the beginning remain.



# History of the pewag group

# Quality management

### Advantage through tradition

### Our main goal is customer satisfaction.

The history of pewag group goes back to the 15th century and therefore makes us the oldest chain manufacturer worldwide.

With our experience we are ready for the future.

Timetable of important events

1479 First documented references of a forging plant in Brückl

1787 Foundation of a chain forge in Kapfenberg

1803 Foundation of a chain forge in Graz

1836 Establishment of an iron casting plant in Brückl

1912 Production of the first pewag snow chain

1923 Merger of plants in Graz and Kapfenberg -Creation of the name "pewag"

1972 Foundation of a sales company in Germany

1975 Foundation of a sales company in the USA

1993 Foundation of pewag austria GmbH

1994 Foundation of the first subsidiary in Czech Republic

1999 Acquisition of the Weissenfels Group

2003 Separation from the Weissenfels Group

2005 Reorganization into 2 groups: Schneeketten Beteiligungs AG Group - Snow Chains

pewag austria GmbH Group - Technical Chains 2009 Acquisition of Chaineries Limousines S.A.S.

2012 Foundation of the first manufacturing company in the USA

2013 Foundation of various international sales companies



Lithography forging plant Brückl 1855



Anchor chain forge 1878



Chain forgers 1956

In this instance, quality means that only those products and services are developed, manufactured and delivered which completely and without compromise satisfy the customer. The pewag group's quality policy, is underlined by the following basic principle: "we supply high-end products and services to our customers that conform to the technical standards and requirements", can be summarised in the subsequent four points.

#### **Market-oriented Quality**

In order to maintain and to widen the competitive position of the pewag group, the quality of finished goods and services must be consistent with the specifications of the customer and also with their expectations of one of the leading companies. No product should ever pose a danger to people or the environment.

#### **Economic Quality**

As a profit-oriented company, quality is achieved by taking into consideration the material, personnel and financial resources; this means that we establish an appropriate best price/performance ratio for the customer within the acknowledged framework.

#### **Quality Responsibility**

Stringent demands are placed on all employees to ensure high standards of quality. No matter what hierarchical level, all managers are in charge of managing quality. Every employee within the pewag group should be educated, motivated and instructed by the management team. It is important for promoting high quality awareness that the education and training of employees is at the forefront, as each employee is responsible for the quality of his/her own work.

For each of our employees, the statement "QUALITY STARTS WITH ME" must be true!

#### **Process-oriented Quality**

The close interaction between sales, product development, production and customer service is regulated within the individual companies by fixed processes and activities, as well as responsibilities with the aim to reach and maintain the defined quality standards.







# Business areas

# Environment – we take responsibility

# Working with pewag products

### **Ecological awareness** in all areas

The pewag group has a substantial and diverse spectrum of products and services.



Our range of products varies from traction chains for tires (snow chains for passenger cars, trucks and special-purpose vehicles, tire protection chains for mining vehicles) over different industrial chains to products for the do-it-yourself sector (light chains, belts, etc.)

Our company's manufacturing location in Kapfenberg, Austria, has been used for iron and steel production for over 270 years. A second facility located in Brückl, Austria, was first documented in records dating back to 1479. Based on this long



manufacturing tradition, we take serious responsibility for our products, employees and the environment at all our international locations. Hence, one of our major concerns is to improve energy efficiency and, in doing so, to minimise energy consumption over a long period of time with the development of new production technologies. An important goal is to increase energy efficiency and consequently lower energy demand. Consequently, we develop our products to achieve longer product life-cycles and lower weight but simultaneously, increasing their working load capacities and the safety for our customers. We are committed to upholding all relevant energy and environmental standards by setting clearly defined goals and continually improving our performance. To achieve this goal, we use modern manufacturing technologies. An important step is to provide the necessary resources and to include our employees in the process. We are convinced that well-informed and motivated employees can actively participate in environmental conservation.

Segment A Snow and forestry chains

Segment B Hoist and conveyor chains

Wherever we are unable to avoid an environmental impact, we have set ourselves the goal to continually reduce our energy consumption, waste and environmentally harmful emissions. When purchasing new equipment, we strive to find the best and most efficient technical solution possible. It is important for us to promote the purchase of energy efficient products and services.



Our process-oriented management system regulates the documentation concerning all environmental relevant procedures. It also encompasses preventative measures for possible failures, as well as behavioural instructions for regular and/or extraordinary operational procedures. By systematically monitoring and assessing our environmental activities, we are quickly able to resolve deviances and to take corrective action. This process extends throughout the whole organisation to optimise all business processes. We strive to engage in an open dialogue with our customers, neighbours and authorities to inform them of our energy and environmental

Segment C Do-it-yourself

Segment D Engineering

engagements.



Through specific communication we want to inform our customers about the environmental aspects of our products - specifically inform them about the longevity of our products. Through meaningful communication, we strive to motivate our suppliers and customers to think - in turn - about their environmental footprint and to put into practice similar environmental standards in their businesses

Segment F Lifting and lashing chains and accessories



Segment G Tire protection chains

# Customer proximity

# International presence

In the ambitious five-hundred year history pewag has evolved from a small and modest company to a global organization with several subgroups.

With 13 production and 36 sales and other locations on all five continents, pewag documented its claim as one of the world's leading chain manufacturers.

In addition to the numerous locations pewag as an international company relies on his capillary, strong, and professional partner network. These collaborations provide optimal customer service in currently more than 100 countries around the world.

#### Production and sales locations

Europe	
Austria	pewag austria GmbH, Graz pewag austria GmbH, Kapfenberg pewag Schneeketten GmbH & Co KG, Graz pewag Schneeketten GmbH & Co KG, Brückl pewag engineering GmbH, Kapfenberg pewag austria Vertriebsgesellschaft mbH, Graz pewag Ketten GmbH, Klagenfurt pewag International GmbH, Klagenfurt
Germany	pewag Deutschland GmbH, Unna pewag Schneeketten Deutschland GmbH, Unna
France	pewag France SAS, Echirolles/Grenoble Chaineries Limousines SAS, Bellac
Italy	pewag italia srl, Andrian Acciaierie Valcanale srl, Tarvisio
Croatia	pewag d.o.o, Kroatien, Zagreb
The Netherlands	pewag nederland BV, Hillegom APEX International BV, Hillegom APEX Automotive BV, Hillegom
Poland	pewag polska Sp z.o.o., Buczkowice
Portugal	pewag Portugal - Comercio de Produtos e Eqibamentos Industrials, Lda, Santo Antão do Tojal
Russia	OOO "PEWAG", Moscow
Sweden	pewag sweden AB, Emmaboda
Slovakia	pewag slovakia sro, Nitra
Czech Republic	pewag Czech sro, Vamberk pewag Snow Chains sro, Vamberk pewag sro, Vamberk pewag Czech sro, Česká Třebová KOMAP Dědov sro, Dědov KOMAP Dědov sro, Chrudim peform Chrudim sro, Chrudim

Europe	
Ukraine	TOV pewag Ukraine GmbH, Lviv
North Ameri	ca
USA	pewag Inc, Bolingbrook, Illinois pewag Inc, Rocklin, California pewag Traction Chain Inc, Pueblo, Colorado
Mexico	pewag Mexico SA de CV, Mexico
South Ameri	ca ————————————————————————————————————
Brazil	pewag Brasil Comércio de Correntes Ltda., São Paulo
Africa	
South Africa	pewag chain south africa (pty) ltd., Rivonia HMV Engineering (Pty) Ltd, Houghton Johannesburg
Australia	
<b>Australia</b> Australia	pewag australia Pty Limited, Barrack Heights
	pewag australia Pty Limited, Barrack Heights
	pewag australia Pty Limited, Barrack Heights



pewag group presents itself on the internet. More ... www.pewag-group.com www.pewag.com



#### **Scraper Conveyors**

pewag Scraper Conveyor Chains 12-14
Chain system with chain sprockets and pocket wheels 15-35





# **Scraper Conveyors**



# pewag Conveyor Chains

# pewag – high quality Conveyor Chains

pewag conveyor chains are made from fine – grained, non – ageing special CrNi-, CrNiMo-, MnCr - alloyed steel. By ensuring optimum heat treatment pewag maintain high quality standards.

pewag conveyor chains have consistently high core quality which gives resistance to shock loadings and ensures maximum breaking loads and excellent fatigue strength can be achieved.

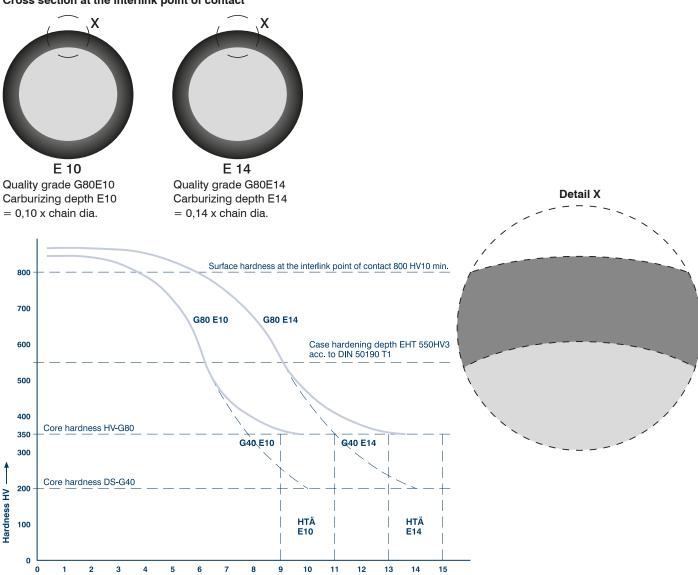
Case hardened conveyor chains can be used for operating temperatures of up to 200  $^{\circ}$ C (392 $^{\circ}$ F) without loss of surface hardness.

The chains are manufactured with very close production tolerances to ensure a smooth, parallel run over the sprockets.

All round steel chains and components are matched regarding to strength and uniform hardness, to minimize the wear and provide the greatest possible wear life and maximum chain life, to guarantee a long lasting chain system.

Extensive range of pewag conveyor chains up to 38 mm, chain couplings, chain sprockets, guide wheels, flight bars with flight attachments provide the optimum design for scraper conveyors in the bulk industry.

#### Cross section at the interlink point of contact



Distance to surface in % of nominal chain dia.

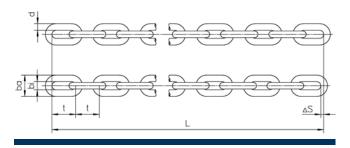


#### **HV Round steel chains**

HV-chains made from CrNi- or CrNiMo-special alloyed steel are suitable for scraper conveyors with high dynamic and static loads. Supplied as matched pairs – for an exact parallel run of the chain links.

Surface finish: polished and waxed





Chain d x t	Chain with bi min.	Chain with ba max.	Weight	Standard length Links	Standard length L	G80 E10 Proof load	G80 E10 Breaking- load	G80 E14 Proof load	G80 E14 Breaking- load
[mm]	[mm]	[mm]	[kg/m]	[mm]	[mm]	[kN]	[kN]	[kN]	[kN]
10 x 38	12,5	34	2,10	527	20.026	38	64	-	-
14 x 50	16,3	47	4,10	215	10.750	74	128	65	110
16 x 64	20	55	5,30	167	10.688	96	160	84	140
19 x 75	22	63	7,40	143	10.725	135	227	117	198
22 x 86	26	74	9,90	119	10.234	182	304	160	266
26 x 100	31	87	13,80	83	8.300	255	425	220	370
30 x 120	36	102	18,70	47	5.640	340	566	300	500
34 x 136	39	113	23,80	35	4.760	425	710	375	630
38 x 144	44	127	30,00	29	4.176	530	910	480	800

Further dimensions and qualities on request.

#### **Technical Datas**

Chain length L production tolerance =+0.3 / -0.15% = 0.45% total; this means that the difference between chain lengths of 10 m is max. 45 mm.

Chain length production tolerance  $\Delta$  S of matched chain lengths is 0,05% or max. 3 mm for two or multiple chain strand conveyors

#### Example of the order

16 pcs. HV-chains 22 x 86 G80E10 L = 119 links = 10.234 mm each, supplied as matched pairs

Quality grade	G80 E10	G80 E14
Breaking stress [N/mm²]	400	350
Proof stress [N/mm²]	240	210
Breaking elongation apprx. [%]	2	2
Surface hardness at interlink HV 10	800	800
Carburizing depth HTÄ d +/- 0,01d	0,10 1)	0,14 2)
Case hardening depth EHT 550 HV 3 d min.	0,06 3)	0,09 4)
Material incl. d = 22 mm: CrNi-alloyed Material from d = 26 mm: CrNiMo-alloyed		

Proof/Breaking load tolerance -10% permissible depending on the batches

Carburizing depth HTÄ after macroetching: 1) 30 Ø u. 34 Ø - 0,09 d; 38 Ø - 0,08 d

2) 30 Ø - 0,12 d; 34 Ø - 0,11 d; 38 Ø - 0,09 d

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Case hardening depth EHT 550 HV 3: <sup>3)</sup> 30 Ø u. 34 Ø - 0,05 d; 38 Ø - 0,04 d

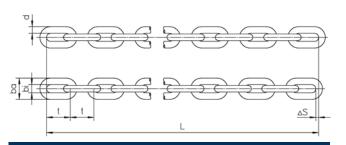
<sup>4)</sup> 30 Ø - 0,08 d; 34 Ø - 0,07 d; 38 Ø - 0,05 d

#### **DSZ Round steel chains**

DSZ-chains made from MnCr-special alloyed steel for scraper conveyors with medium dynamic and static loads. Supplied as matched pairs – for an exact parallel run of the chain links.

Surface finish: polished and waxed





DSZ

Chain d x t [mm]	Chain with bi min.	Chain with ba max.	Weight [kg/m]	Standard length Links [mm]	Standard length L [mm]	G40 E10 Proof load	G40 E10 Breaking- load [kN]	G40 E14 Proof load	G40 E14 Breaking- load [kN]
14 x 50	16,3	47	4,10	215	10.750	39	78	32	64
16 x 64	20	55	5,30	167	10.688	50	100	42	84
19 x 75	22	63	7,40	143	10.725	71	142	60	120
22 x 86	26	74	9,90	119	10.234	95	190	80	160
26 x 100	31	87	13,80	83	8.300	128	255	110	220
30 x 120	36	102	18,70	47	5.640	171	342	148	296
34 x 136	39	113	23,80	35	4.760	250	500	190	380

Further dimensions and qualities on request.

#### **Technical Datas**

Chain length L production tolerance = +0.3 / -0.15% = 0.45% total; this means that the difference between chain lengths of 10 m is max. 45 mm.

Chain length production tolerance  $\Delta$  S of matched chain lengths is 0,05% or max. 3 mm for two or multiple chain strand conveyors

#### Example of the order

16 pcs. DSZ-chains 22 x 86 G40E10 L = 119 links = 10.234 mm each, supplied as matched pairs

Quality grade	G40 E10	G40 E14
Breaking stress [N/mm²]	250	210
Proof stress [N/mm²]	125	105
Breaking elongation apprx. [%]	2	2
Surface hardness at interlink HV 10	800	800
Carburizing depth HTÄ d +/- 0,01d	0,10 1)	0,14 2)
Case hardening depth EHT 550 HV 3 d min.	0,063 3)	0,09 4)
Material: MnCr-alloyed		

Proof/Breaking load tolerance -10% permissible depending on the batches

Carburizing depth HTÄ after macroetching:

 $^{1)}$  30 ø u. 34 ø - 0,09 d

<sup>2)</sup> 30 Ø – 0,12 d; 34 Ø – 0,11 d

Case hardening depth EHT 550 HV 3

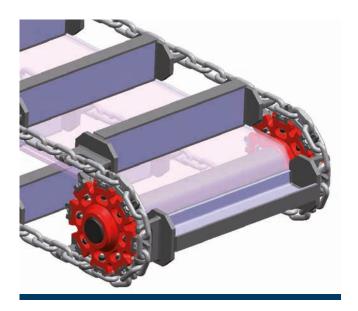
<sup>3)</sup> 30 ø u. 34 ø – 0,05 d

 $^{4)}$  30 Ø - 0,08 d; 34 Ø - 0,07 d



# Chain system with chain sprockets

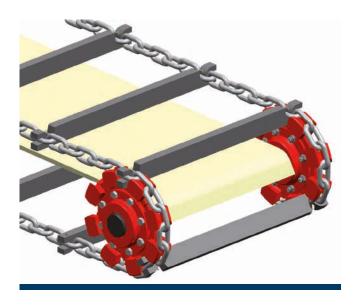
highly wear resistant

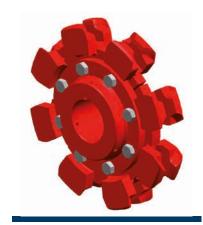




# Chain system with pocket wheels

highly wear resistant

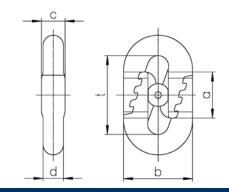




# **KHV Chain couplings**

Chain coupling for individual chain lengths HV and DSZ. The chain couplings have the same technological characteristics as the corresponding highly wear resistant chains. Pay attention that the couplings should be assembled and installed according to the instructions included in the packaging. These couplings can only be mounted as vertical links. Run over sprockets, pocket wheels, plain chain wheels with or without groove.

Surface finish: shotblasted and waxed



				KNIV						
Туре	d [mm]	t [mm]	a [mm]	b [mm]	c [mm]	Weight [kg/pc.]				
KHV 22 x 86	22	86	58	74	27	1,70				
KHV 26 x 100	26	100	62	87	30	2,20				
KHV 30 x 120	30	120	70	105	36	3,00				
KHV 34 x 136	34	136	82	117	40	4,70				
KHV 38 x 144	38	144	95	134	47	5,50				
	KHV 22 x 86 KHV 26 x 100 KHV 30 x 120 KHV 34 x 136	[mm]       KHV 22 x 86     22       KHV 26 x 100     26       KHV 30 x 120     30       KHV 34 x 136     34	[mm]         [mm]           KHV 22 x 86         22         86           KHV 26 x 100         26         100           KHV 30 x 120         30         120           KHV 34 x 136         34         136	[mm]         [mm]         [mm]           KHV 22 x 86         22         86         58           KHV 26 x 100         26         100         62           KHV 30 x 120         30         120         70           KHV 34 x 136         34         136         82	[mm]         [mm]         [mm]         [mm]           KHV 22 x 86         22         86         58         74           KHV 26 x 100         26         100         62         87           KHV 30 x 120         30         120         70         105           KHV 34 x 136         34         136         82         117	[mm]         [mm]         [mm]         [mm]         [mm]           KHV 22 x 86         22         86         58         74         27           KHV 26 x 100         26         100         62         87         30           KHV 30 x 120         30         120         70         105         36           KHV 34 x 136         34         136         82         117         40				

#### Scope of delivery

2 pcs. KHV-halves, 2 pcs. safety pins and safety nut or 1 pc. locking pin and 1 pc. safety pin DIN 1481

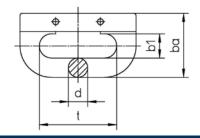
#### Example of the order

20 pcs. chain couplings KHV 22 x 86



# **VHV Connecting links**

Connecting link for individual chain lengths HV and DSZ. The connecting links have the same technological characteristics as the corresponding highly wear resistant chains. Pay attention that the connecting links should be assembled and installed according to the instructions. These couplings are mounted as vertical or horizontal links in scraper conveyors with horizontal or only inclined conveying sections, but only as horizontal links in conveyors with horizontal and additional inclined conveying sections. Run as vertical and horizontal links over sprockets, plain chain wheels with or without groove, but are only mounted as vertical links for pocket wheels. Surface finish: shotblasted and waxed



	Туре	d	t	bi	ba	Pin	Weight
VHV Connecting links		[mm]	[mm]	[mm]	[mm]	DxL	[kg/pc.]
	VHV 14 x 50	14	50	16	46	4 x 14	0,25
	VHV 16 x 64	16	64	20	54	5 x 16	0,40
	VHV 19 x 75	19	75	22	65	5 x 20	0,65
	VHV 19 x 120	19	120	22	65	5 x 20	0,85
	VHV 22 x 86	22	86	26	76,5	6 x 22	1,00
	VHV 26 x 100	26	100	31	87	8 x 26	1,50
	VHV 30 x 120	30	120	36	102	10 x 32	2,55
	VHV 34 x 136	34	136	39,5	112	12 x 36	3,70

VHV

#### Scope of delivery

Connecting link, locking plate and 2 pcs. safety pins DIN 1481

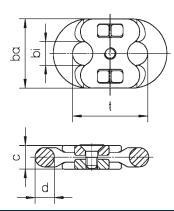
#### Example of the order

20 pcs. Connecting links VHV 22 x 86 G40E10

# **VGS Connecting links**

Connecting link for individual chain lengths, these connecting links are always mounted as vertical links. Run over sprockets, pocket wheels, plain and grooved wheels.

Surface finish: electro galvanized



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	Туре	t	d	bi	ba	С	Screw	Weight
VGS Connecting links		[mm]	[mm]	[mm]	[mm]	[mm]		[kg/pc.]



#### Scope of delivery

2 pcs. VGS-connecting halves, 2 pcs. locking plates and 1 pc. screw DIN 7991-8.8  $\,$ 

#### Example of the order

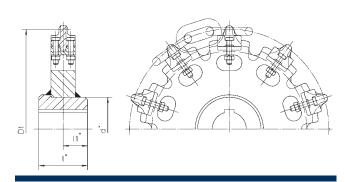
20 pcs. connecting links VGS 10 x 38



### **RHV-A and RHV-AG Chain sprockets**

Sprockets for use with HV and DSZ – round steel chains with replaceable and adjustable individual teeth, made from MnCr alloyed steel, case hardened – highly wear resistant. Sprockets are welded steel fabrications, any number of teeth or hub design is available. Keyways are machined in the hubs of matched wheels to ensure precise alignment of the teeth. Hub design, bore diameter and key size can be specified by the customer. Shimplates can be fitted to adapt the pitch circle dia. of the sprocket to a chain lengthened due to wear in the interlink points of contact. This ensures continued smooth running of the chain over the sprocket and the maximum use of the case hardened layer in the chain. Shimplates and new teeth can be mounted without disassembly the chain.

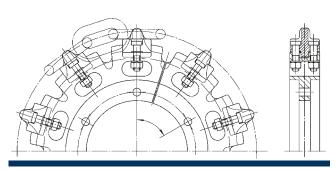
Chain sprockets RHV-A: with cleaning slots Chain sprockets RHV-AG: with cleaning slots and tooth segments



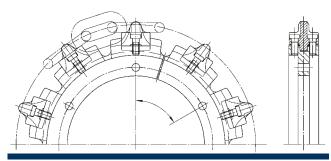
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RHV-A and RHV-AG Chain sprockets	Туре	Chain d x t	No. of teeth Z*	Pitch circle-ø Dt [mm]	Weight apprx. [kg/pc.]
•	RHV 14/8-50	14 x 50	8	256	10,00
	RHV 14/9-50	14 x 50	9	288	13,00
	RHV 14/10-50	14 x 50	10	319	17,00
***	RHV 14/12-50	14 x 50	12	383	27,00
	RHV 16/8-64	16 x 64	8	327	17,00
	RHV 16/9-64	16 x 64	9	369	26,00
	RHV 16/10-64	16 x 64	10	409	36,00
	RHV 16/12-64	16 x 64	12	490	54,00
	RHV 19/8-75	19 x 75	8	384	33,00
HV-A	RHV 19/9-75	19 x 75	9	432	43,00
	RHV 19/10-75	19 x 75	10	479	56,00
	RHV 19/12-75	19 x 75	12	574	86,00
	RHV 22/8-86	22 x 86	8	440	47,00
	RHV 22/9-86	22 x 86	9	495	62,00
	RHV 22/10-86	22 x 86	10	549	82,00
	RHV 22/12-86	22 x 86	12	659	134,00
	RHV 26/8-100	26 x 100	8	512	72,00
	RHV 26/9-100	26 x 100	9	575	100,00
10 - 5	RHV 26/10-100	26 x 100	10	639	137,00
	RHV 26/12-100	26 x 100	12	766	190,00
HV-AG	RHV 30/8-120	30 x 120	8	615	118,00
	RHV 30/9-120	30 x 120	9	691	160,00
	RHV 30/10-120	30 x 120	10	767	205,00
	RHV 30/12-120	30 x 120	12	919	280,00
	RHV 34/8-136	34 x 136	8	697	194,00
	RHV 34/9-136	34 x 136	9	783	230,00
	RHV 34/10-136	34 x 136	10	869	327,00
	RHV 34/12-136	34 x 136	12	1041	450,00
	RHV 38/8-144	38 x 144	8	738	240,00
	RHV 38/9-144	38 x 144	9	829	341,00
	RHV 38/10-144	38 x 144	10	920	405,00
	RHV 38/12-144	38 x 144	12	1103	498,00

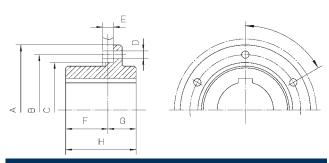
<sup>\*</sup> Any other number of teeth and sizes on request. Hub length and hub diameter can be specified by the customer.



RHV-AG - style S1



RHV-AG - style S2



Hub



RHV-AG – style S1



RHV-AG – style S2

Sprocket tooth segments RHV-AG for existing hubs:

Style S1:

Individual teeth bolted to segmented disc

Style S2:

Individual teeth bolted into segmented disc

Required dimensions of the existing hub have to be specified.

#### Scope of delivery

Sprocket RHV-A with cleaning slots, replaceable and adjustable individual teeth and machined hub.

Sprocket RHV-AG with cleaning slots, 2 pcs. tooth segments with replaceable and adjustable individual teeth, machined hub, counter plate and mounting bolts and nuts.

#### Example of the order

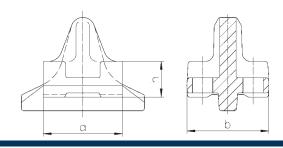
2 pcs. drive sprockets RHV-A 22/10-86 - ready to install for chain 22 x 86, No. of teeth z = 10 Hub length central I = 160 mm (80 + 80) Hub bore dia. = 140 H7 and keyway acc. to DIN 6885



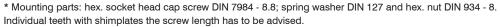
#### **EHV Individual teeth**

Individual EHV made from MnCr - alloyed steel, case hardened - highly wear resistant; surface hardness 800 HV10. The individual teeth can be adjusted with shimplates to adapt the pitch circle diameter of the RHV - sprocket to a chain lengthened due to wear in the interlink points of contact. This ensures continued smooth running of the chain.

Surface finish: shotblasted and waxed



EHV Individual teeth	Туре	a [mm]	b [mm]	h [mm]	Screw*	Weight [kg/pc.]
	EHV 14 x 50	40	40	19	M 8 x 40	0,22
	EHV 16 x 64	48	48	23	M 10 x 50	0,40
	EHV 19 x 75	58	58	26	M 14 x 60	0,60
	EHV 22 x 86	68	70	30	M 16 x 70	1,10
	EHV 26 x 100	76	78	36	M 18 x 70	1,50
	EHV 30 x 120	90	90	42	M 20 x 90	2,50
	EHV 34 x 136	105	105	48	M 24 x 100	4,00
	EHV 38 x 144	110	110	54	M 24 x 110	5,50





EHV without shims



EHV with shims

#### Scope of delivery

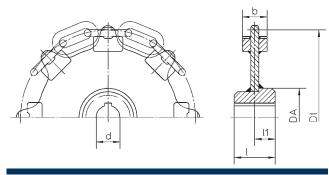
Individual teeth EHV with or without mounting screws and nuts

#### Example of the order

30 pcs. individual teeth EHV 22 x 86 – without mounting screws and nuts

### **IR Chain sprockets**

Sprockets are welded steel fabrications either in one piece or with replaceable tooth segments for drive and tail sections; case hardened – highly wear resistant; fabricated steel sprockets can be provided for every medium and long chain pitchtooth combination; any number of teeth available; hub design, bore diameter, and key size can be specified by the customer.



R / W Chain sprockets R / W-SEG Chain sprockets	Туре	Chain d x t	No. of teeth z*	Pitch circ- le ø Dt* [mm]	b [mm]	Hub** I [mm]	Hub** DA [mm]	Weight [kg/pc.]
	IR 10 / 6 - 38	10 x 38	6	147	34	65	70	3,50
	IR 10 / 8 - 38	10 x 38	8	195	34	65	70	4,60
	IR 10/ 10 - 38	10 x 38	10	243	34	90	100	9,70
	IR 14 / 6 - 50	14 x 50	6	193	45	70	80	6,20
	IR 14 / 8 - 50	14 x 50	8	256	45	90	100	12,00
	IR 14 / 10 - 50	14 x 50	10	320	45	100	110	17,00
	IR 14 / 15 -50	14 x 50	15	478	45	130	140	37,00
	IR 16 / 6 - 64	16 x 64	6	247	50	100	110	14,00
	IR 16 / 7 - 64	16 x 64	7	288	50	100	110	16,00
V	IR 16 / 8 - 64	16 x 64	8	328	50	130	140	27,00
	IR 16 / 10 - 64	16 x 64	10	409	50	130	160	35,00
	IR 16 / 12 - 64	16 x 64	12	490	50	150	180	55,00
	IR 19 / 6 - 75	19 x 75	6	290	55	130	140	25,00
	IR 19 / 8 - 75	19 x 75	8	384	55	150	170	43,00
	IR 19 / 10 - 75	19 x 75	10	479	55	150	170	53,00
	IR 19 / 12 - 75	19 x 75	12	575	55	200	220	97,00
	IR 22 / 6 - 86	22 x 86	6	332	64	150	160	38,00
	IR 22 / 7 - 86	22 x 86	7	387	64	150	200	57,00
	IR 22 / 8 - 86	22 x 86	8	441	64	200	200	75,00
	IR 22 / 10 - 86	22 x 86	10	550	64	200	230	105,00
W-SEG	IR 22 / 12 - 86	22 x 86	12	659	64	220	250	142,00

<sup>\*</sup> Any other number of teeth and sizes on request.

#### Scope of delivery

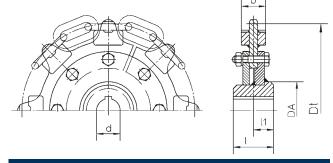
Chain sprocket IR  $\dots$  W, in one piece, case hardened and with machined hub

Chain sprocket IR ... W-Seg, machined hub, 2 pcs. case hardened tooth segments, counter plate with mounting bolts and nuts

#### Example of the order

2 pcs. chain sprockets IR 16/10-64 W-Seg ready to install for chain 16 x 64, Number of teeth z=10 Offset hub: length I=130, length I=50

Hub bore dia. = 100 H7 and keyway acc. to DIN 6885



IR-W-SEG

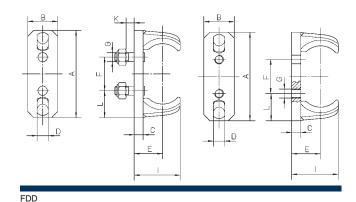
<sup>\*\*</sup> Hub length and hub diameter can be specified by the customer.



## **FDD Flight attachments**

Flight attachment for severe service in two strand and multiple chain strand conveyors, runs over chain sprockets and plain chain wheels with or without groove, two pins made from MnCr-alloyed steel, forged and case hardened, highly wear resistant, welded into steel plate, simple assembly and disassembly on the slack chain, suitable for reverse operation, insert flight attachment in vertical chain links, assembly flight bars and tighten the nuts or bolts to the specified torque.

Surface finish: shotblasted-oiled



FDD Flight attachments	Туре	Chain d x t	A [mm]	В	С	D	E	F	G	I	L	K	Weight [kg/pc.]
	FDD 14 x50	14 x 50	117	40	12	15	38	45	M 12	61,5	36	12	0,70
	FDD 16 x 64	16 x 64	150	50	15	19	48	52	M 16	76	49	15	1,20
	FDD 19 x 75	19 x 75	175	60	20	21	58	65	M 20	90	55	20	2,00
	FDD 22 x 86	22 x 86	200	70	20	25	68	71	M 20	106	64,5	20	3,00
	FDD 26 x 100	26 x 100	235	80	20	30	72	85	M 20	116	75	20	4,50
	FDD 30 x 120	30 x 120	280	90	25	35	85	98	M 24	136	91	24	6,70
	FDD 34 x 136	34 x 136	320	100	30	38	98	110	M 27	155	105	30	10,00

#### Scope of delivery

FDD with tapped holes: without screws and nuts

FDD with threaded bolts: incl. 2 pcs. locking nuts DIN 980-8

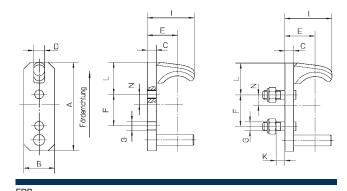
#### Example of the order

100 pcs. flight attachments FDD 22 x 86 with threaded bolts

# **FDB Flight attachments**

Flight attachment for severe service in two strand and multiple chain strand conveyors, runs over chain sprockets and plain chain wheels with or without groove; one forged pin and round pin made from MnCr-alloyed steel, case hardened, highly wear resistant, welded into steel plate, simple assembly and disassembly even on the tensioned chain; insert flight attachment in vertical chain links, assembly flight bars and tighten the nuts or bolts to the specified torque.

Surface finish: shotblasted-oiled



FDB Flight attachments	Туре	Chain d x t	A [mm]	В	С	D	E	F	G	ı	L	К	N	Weight [kg/pc.]
	FDB 14 x50	14 x 50	117	40	12	15	38	45	M 12	61,5	40	12	18	0,70
	FDB 16 x 64	16 x 64	150	50	15	19	48	52	M 16	76	52	15	20	1,20
	FDB 19 x 75	19 x 75	175	60	20	21	58	65	M 20	90	62,5	20	24	2,00
200	FDB 22 x 86	22 x 86	200	70	20	25	68	71	M 20	106	72,5	20	23	3,00
	FDB 26 x 100	26 x 100	235	80	20	30	72	85	M 20	116	85	20	28	4,50
	FDB 30 x 120	30 x 120	280	90	25	35	85	98	M 24	136	100	25	36	6,70
	FDB 34 x 136	34 x 136	320	100	30	38	98	110	M 27	155	115	30	42	10,00

#### Scope of delivery

FDB with tapped holes: without screws and nuts

FDB with threaded bolts: incl. 2 pcs. locking nuts DIN 980-8

#### Example of the order

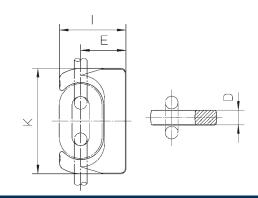
100 pcs. flight attachments FDB 22 x 86 with threaded bolts



# KFB Flight attachments

Flight attachment for severe service in two strand and multiple chain strand conveyors, runs over chain sprockets and plain chain wheels with and without groove, made from MnCr-steel, forged and case hardened, highly wear resistant, welding area prepared for welding to flight bar, simple assembly and disassembly on the slack chain, suitable for reverse operation.

Surface finish: shotblasted-oiled



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KFB Flight attachments	Туре	Chain d x t	K [mm]	D [mm]	E [mm]	l [mm]	Weight [kg/pc.]
	KFB 16 x 64	16 x 64	135	19	59	83	0,80
	KFB 19 x 75	19 x 75	156	21	69	100	1,20
	KFB 22 x 86	22 x 86	182	25	80	116	2,00
	KFB 26 x 100	26 x 100	220	30	92	135	3,40
15	KFB 30 x 120	30 x 120	252	35	110	160	5,30
	KFB 34 x 136	34 x 136	284	38	122	177	7,80
	KFB 38 x 144	38 x 144	318	43	118	180	9,90

#### Stick electrode

ISO 3580: E Mo B, EN 1599: E Mo B 4 2 H5, AWS A5.5-ASME II/C, SFA5.5: E 7018-A 1

#### Scope of delivery

Flight attachment

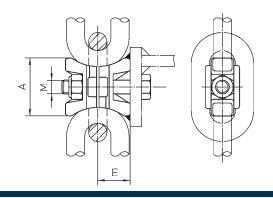
#### Example of the order

100 pcs. flight attachments KFB 22 x 86

## **SDS Flight attachments**

Flight attachment for severe service in two strand and multiple chain strand conveyors, runs over chain sprockets and plain chain wheels with or without groove, two SDS-halves – forged and case hardened, highly wear resistant, one SDS-half to weld onto the head plate of the flight bar, simple assembly and disassembly even on the tensioned chain system, install the flight bar on the vertical chain links in the required flight spacing, insert 2nd locking half and tighten the attachment bolt to the specified torque; alternativ one SDS-half already welded to distance plate available.

Surface finish: shotblasted - waxed



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SDS Flight attachments	Туре	Chain d x t	E* [mm]	A [mm]	M [mm]	K** [mm]	Weight [kg/pc.]
	SDS 14 x 50	14 x 50	34	40	10	10	0,20
	SDS 14 x 64	14 x 64	23,5	53	10	10	0,30
	SDS 16 x 64	16 x 64	37	51	12	10	0,50
	SDS 19 x 75	19 x 75	33,5	61	14	10	0,70
	SDS 22 x 86	22 x 86	52	70	16	15	1,00
	SDS 26 x 100	26 x 100	60	80	20	15	1,30
	SDS 30 x 120	30 x 120	71	100	20	15	1,80

<sup>\*</sup> Any other sizes and dimensions E on request.

#### Stick electrode

ISO 2560: E 51 5 B110 20 (H) EN 499: E 42 5B4 2 H5

AWS A5.1-ASME II/C, SFA5.1: E 7018-1

#### Scope of delivery

2 pcs. halves, 1 pc. hex. bolt DIN 931-8.8, 1 pc. locking nut DIN 980-8. Size of the distance plate and bolt length has to be specified

#### Example of the order

80 pcs. flight attachments SDS 22 x 86 with mounting bolt and nut

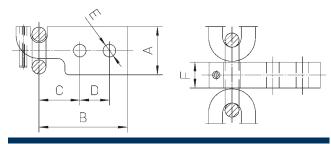
<sup>\*\*</sup> Recommended plate thickness.



# **KBE-I Flight attachments**

Flight attachment for medium to severe service in two strand and multiple chain strand conveyors, runs over chain sprockets and plain chain wheels without groove, made from steel – wear restistant; for welding or bolting to flight bar, simple assembly and disassembly on the chain, pivot chain link into the flight attachment and secure with locking pin.

Surface finish: shotblasted - waxed



Туре	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Weight [kg/pc.]
KBE-I 14 x 50	50	105	58	30	13	20	0,70
KBE-I 16 x 64	56	130	70	40	17	28	1,20
KBE-I 19 x 75	65	130	70	40	17	35	2,00
KBE-I 22 x 86	75	140	80	40	21	40	3,20
	KBE-I 14 x 50 KBE-I 16 x 64 KBE-I 19 x 75	[mm]  KBE-I 14 x 50 50  KBE-I 16 x 64 56  KBE-I 19 x 75 65	[mm]         [mm]           KBE-I 14 x 50         50         105           KBE-I 16 x 64         56         130           KBE-I 19 x 75         65         130	[mm]         [mm]         [mm]           KBE-I 14 x 50         50         105         58           KBE-I 16 x 64         56         130         70           KBE-I 19 x 75         65         130         70	[mm]         [mm]         [mm]         [mm]           KBE-I 14 x 50         50         105         58         30           KBE-I 16 x 64         56         130         70         40           KBE-I 19 x 75         65         130         70         40	[mm]         [mm]         [mm]         [mm]         [mm]           KBE-I 14 x 50         50         105         58         30         13           KBE-I 16 x 64         56         130         70         40         17           KBE-I 19 x 75         65         130         70         40         17	[mm]         [mm]         [mm]         [mm]         [mm]         [mm]           KBE-I 14 x 50         50         105         58         30         13         20           KBE-I 16 x 64         56         130         70         40         17         28           KBE-I 19 x 75         65         130         70         40         17         35

Any other sizes and dimensions on request.

#### Scope of delivery

Flight attachment and safety pin DIN 1481 without bolts and nuts

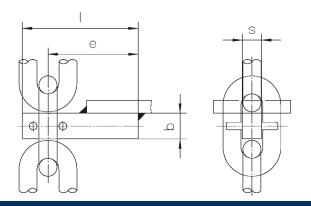
#### Example of the order

100 pcs. flight attachments KBE-I 22 x 86

# **ST Flight attachments**

Flight attachment made from steel for welding to flight bar; suitable for light operating conditions in two strand chain conveyors, runs over chain sprockets and plain chain wheels without groove.

Surface finish: shotblasted - oiled



light attachments	Туре	Chain d x t	e [mm]	[mm]	b [mm]	s [mm]	Weight [kg/pc.]
	ST 8 x 31	8 x 31	62	75	14	10	0,10
	ST 10 x 38	10 x 38	73	90	16	12	0,10
	ST 14 x 50	14 x 50	90	110	20	15	0,30
	ST 16 x 64	16 x 64	105	130	30	20	0,70
i	ST 19 x 75	19 x 75	110	140	35	20	0,90
	ST 22 x 86	22 x 86	125	160	40	25	1,30

#### Stick electrode

ISO 2560: E 51 5 B110 20 (H) EN 499: E 42 5B4 2 H5

AWS A5.1-ASME II/C, SFA5.1: E 7018-1

#### Scope of delivery

Flight attachment and 2 pcs. safety pins DIN 1481

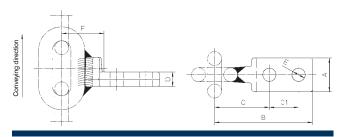
#### Example of the order

100 pcs. flight attachments ST 19 x 75



# Attachments - weld-on plate

Attachment made from steel; welded to round steel chain for bolting on flight bar; suitable for medium to severe operating conditions in two strand and multiple chain strand conveyors, runs over chain sprockets, pocket wheels and plain chain wheels with or without groove; tighten hex. bolts to the specified torque.



Weld on plate

Attachments – weld-on plate	Туре	Chain d x t	A [mm]	B [mm]	C [mm]	C1 [mm]	D [mm]	E [mm]	F [mm]	Weight [kg/pc.]
	Weld on plate 18 x 64	18 x 64	35	126	51	40	30	17	48	0,63
	Weld on plate 19 x 75	19 x 75	46	134	75	40	20	18	58	0,75
	Weld on plate 22 x 86	22 x 86	46	139	80	40	20	18	63	0,75
	Any other sizes and dimension	ons on requ	uest.							

#### Scope of delivery

Round steel chain with weld-on plates without mounting bolts and nuts

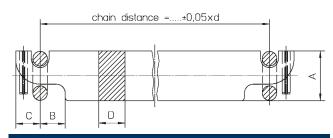
#### Example of the order

10 pcs. HV-chains 22 x 86 G80 E10 L = 119 links = 10234 mm, supplied as matched pairs, with weld on plates 22 x 86, flight spacing = 6 links

# **KE-I Flight bars**

Flight bar suitable for severe service in two strand and multiple chain strand conveyors, made from steel or high resistant Hardox-steel available, flight bar length resp. chain center distance as specified by the customer, simple assembly and disassembly on the slack chain, pivot chain links in the flight bar and secure with locking pins. Runs over chain sprockets and plain chain wheels without groove.

Surface finish: natural black-oiled



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KE-I Flight bars	Туре	Chain d x t	A [mm]	B [mm]	C [mm]	D [mm]
	KE-I 14 x 50	14 x 50	50	27	23	20
	KE-I 16 x 64	16 x 64	56	30	27	28
	KE-I 19 x 75	19 x 75	65	33	31	35
	KE-I 22 x 86	22 x 86	75	38	37	40
	Any other since and disconsists as as					



#### Scope of delivery

Flight bar with 2 pcs. safety pins DIN 1481

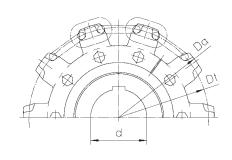
#### Example of the order

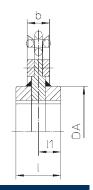
100 pcs. flight bars KE-I 22 x 86, Chain center distance = 600 mm



#### **KR Pocket wheels**

Pocket wheels are welded steel fabrications either in one piece or with replaceable pocket segments for drive, guide and tail sections; case hardened – highly wear resistant, fabricated steel pocket wheels can be provided for every chain pitch-tooth combination; any number of pockets available; hub design, bore diameter, and key size can be specified by the customer.





KR-W-SEG

KR/W Pocket wheel	Туре	Chain	No. of teeth	Pitch circle diameter	b	Hub**	Hub**	Weight
KR/W-SEG Pocket wheel		d x t	z*	[mm]	[mm]	1	DA	[kg/pc.]
	KR 10 / 5 - 38	10 x 38	5	124	40	65	70	4,80
	KR 10 / 6 - 38	10 x 38	6	147	40	65	70	6,30
	KR 14 / 5 - 50	14 x 50	5	162	60	65	70	9,90
	KR 14 / 6 - 50	14 x 50	6	194	60	65	70	14,00
	KR 14 / 8 - 50	14 x 50	8	257	60	90	100	27,00
	KR 14 / 10 - 50	14 x 50	10	320	60	100	110	42,00
	KR 16 / 8 - 64	16 x 64	8	329	70	130	150	57,00
N	KR 16 / 9 - 64	16 x 64	9	368	70	130	150	69,00
R-W-SEG	KR 19 / 8 - 75	19 x 75	8	385	70	150	170	82,00
	KR 19 / 10 - 75	19 x 75	10	479	70	150	100 110 150 150	78,00
4	KR 22 / 8 - 86	22 x 86	8	440	80	170	180	70,00
	KR 22 / 10 - 86	22 x 86	10	549	80	170	200	105,00
	KR 26 / 8 - 100	26 x 100	8	513	105	220	250	227,00
	KR 26 / 10 - 100	26 x 100	10	639	105	220	250	321,00
	KB 34 / 7 - 136	34 v 136	7	612	150	220	250	381 00

<sup>\*</sup> Any other number of pockets and sizes on request.

### Scope of delivery

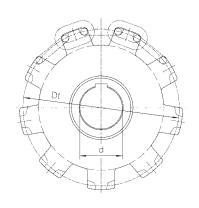
KR-W

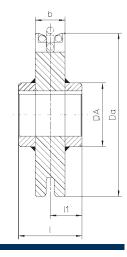
Pocket wheel KR ... W1, in one piece, case hardened and with machined hub

Pocket wheel KR ... W-Seg, machined hub, 2 pcs. case hardened tooth segments, counter plate with mounting bolts and nuts

#### Example of the order

2 pcs. pocket wheels KR 19/10-75 W-Seg ready to install for chain 19 x 75, Number of teeth z=10 Offset hub: length I=150, length I=50 Hub bore dia. =100 H7 and keyway acc. to DIN 6885





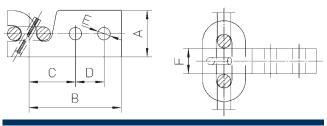
KR-W

<sup>\*\*</sup> Hub length and hub diameter can be specified by the custumer.

# **KBE-A Flight attachments**

Flight attachment for medium to severe service in two strand and multiple chain strand conveyors, runs over pocket wheels and plain chain wheels without groove, made from steel – wear restistant; for welding or bolting to flight bar, simple assembly and disassembly on the chain, pivot chain link into the flight attachment and secure with locking pin.

Surface finish: shotblasted - waxed



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(BE-A Flight attachments	Туре	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	Weight [kg/pc.]
	KBE-A 14 x 50	50	105	58	30	13	20	0,70
	KBE-A 16 x 64	56	130	70	40	17	28	1,20
	KBE-A 19 x 75	65	130	70	40	17	35	2,00
	KBE-A 22 x 86	75	140	80	40	21	40	3,20



#### Scope of delivery

Flight attachment and safety pin DIN 1481 without bolts and nuts

#### Example of the order

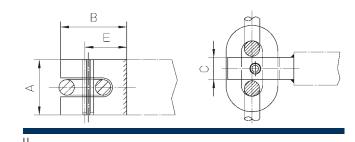
100 pcs. flight attachments KBE-A 22 x 86



# **U Flight attachments**

Flight attachment made from steel for welding to flight bar; suitable for light to medium operating conditions in two strand and multiple chain strand conveyors, runs over pocket wheels and plain chain wheels without groove.

Surface finish: shotblasted - oiled



C [mm] 20		Weight [kg/pc.]
20	00	
	38	0,35
28	44	0,60
35	50	1,00
40	60	1,60
45	70	2,50

Any other sizes and dimensions on request.

#### Stick electrode

ISO 2560: E 51 5 B110 20 (H) EN 499: E 42 5B4 2 H5

AWS A5.1-ASME II/C, SFA5.1: E 7018-1

#### Scope of delivery

Flight attachment and 1 pc. safety pin DIN 1481

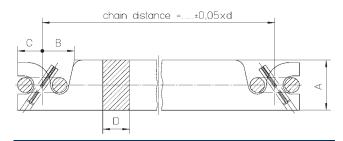
#### Example of the order

100 Stk. flight attachments U 19 x 75

# **KE-A Flight bars**

Flight bar suitable for severe service in two strand and multiple chain strand conveyors, made from steel or high resistant Hardox-steel available, flight bar length resp. chain center distance as specified by the customer, simple assembly and disassembly on the slack chain, pivot chain links in the flight bar and secure with locking pins. Runs over chain sprockets and plain chain wheels without groove,

Surface finish: natural black-oiled



KE-A Flight bars	Туре	Chain d x t	A [mm]	B [mm]	C [mm]	D [mm]
	KE-A 14 x 50	14 x 50	50	30	23	20
	KE-A 16 x 64	16 x 64	56	35	27	28
	KE-A 19 x 75	19 x 75	65	40	31	35
	KE-A 22 x 86	22 x 86	75	48	37	40

Any other sizes and dimensions on request.

#### Scope of delivery

Flight bar with 2 pcs. safety pins DIN 1481

#### Example of the order

100 pcs. flight bars KE-A 22 x 86, Chain center distance = 600 mm



### Plain tail and idler wheels

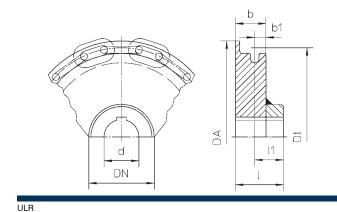
Plain tail and idler wheels ULR, ULS, UL and UK for scraper conveyors, are welded steel fabrications with case hardened chain contact points – highly wear resistant; any outside resp. pitch circle dia. available; hub design, bore diameter and key size can be specified by the customer.

ULR ... grooved and flanged chain wheel

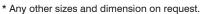
ULS ... grooved and flanged chain wheels with replaceable segments

UK ... grooved chain wheel

UL .. plain flanged chain wheel



Plain tail and idler wheels	Туре	Chain d x t	Dt [mm]	DA [mm]	b [mm]	b1 [mm]	Hub** I [mm]	Hub** DN [mm]	Correspon- ding No. of teeth
	U 10/147	10 x 38	147	175	45	14,7	65	70	6
	U 10/195	10 x 38	195	225	45	14,7	65	70	8
	U 14/256	14 x 50	256	280	60	22	90	100	8
	U 14/288	14 x 50	288	310	60	22	90	100	9
	U 14/319	14 x 50	319	345	60	22	90	110	10
	U 14/383	14 x 50	383	410	60	22	90	110	12
	U 16/328	16 x 64	328	360	70	24,5	100	140	8
ULR	U 16/369	16 x 64	369	400	70	24,5	100	140	9
	U 16/409	16 x 64	409	440	70	24,5	100	160	10
	U 16/490	16 x 64	490	520	70	24,5	100	160	12
	U 19/384	19 x 75	384	420	80	29,5	120	170	8
	U 19/432	19 x 75	432	465	80	29,5	120	170	9
	U 19/479	19 x 75	479	515	80	29,5	120	170	10
	U 22/440	22 x 86	440	480	95	34,5	130	190	8
ULS	U 22/495	22 x 86	495	540	95	34,5	130	190	9
013	U 22/550	22 x 86	550	595	95	34,5	130	190	10
	U 26/513	26 x 100	513	560	105	40	155	200	8
	U 26/576	26 x 100	576	630	105	40	155	200	9
	U 30/615	30 x 120	615	675	125	47	160	200	8
	U 30/691	30 x 120	691	750	125	47	160	250	9
	U 34/697	34 x 136	697	760	140	52	180	250	8
	U 34/783	34 x 136	783	850	140	52	180	250	9

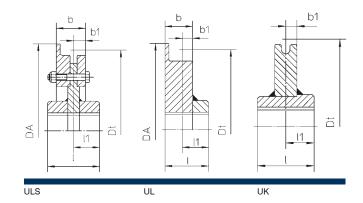


<sup>\*\*</sup> Hub length and hub diameter can be specified by the custome.



#### Example of the order

2 pcs. idler wheels ULR 22/550 for chain 22 x 86, pitch circle dia. = 550 mm Offset hub: length I = 150 mm, length I1 = 100 mm Hub bore dia. = 80 H7 and keyway acc. to DIN 6885



#### **Scraper Conveyors**

pewag Conveyor Chains as per works standard and components

38-47





### **Scraper Conveyors**

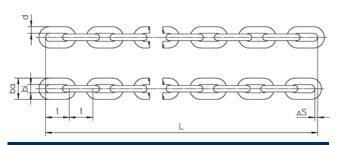


# Round steel chains for conveyors as per works standard

Round steel chains for conveyors with low conveying capacities and service hours, e.g. agricultural applications or cleaning scraper conveyors under belt conveyors etc; further special application are e.g. chains 8 x 25,4 G50 E7 electro galvanized in poultry processing plants.

Surface finish: up to chain diameter 11 mm natural black - oiled, polished and waxed or as specified by the customer





W/N

Standard and quality	Chain d x t	Chain width b1 min. [mm]	Chain width ba max. [mm]	Length 11 x t Tolerance Type A [mm]	Weight [kg/m]	Proof- load [kN]	Breaking- load [kN]
WN G60	7 x 22	8,3	23,7	242 + 1,5/-0,5	1,04	32,00	50,00
WN G80	7 x 22	8,3	23,7	242 + 1,5/-0,5	1,04	40,00	60,00
WN G60	8 x 24	9,2	26,8	264 + 1,2/-0,6	1,38	40,00	63,00
WN G80	8 x 24	9,2	26,8	264 + 1,2/-0,6	1,38	50,00	80,00
WN G50 E7	8 x 25,4	9,4	26,6	279,4 + 1,1/-0,4	1,35	24,00	40,00
WN G80	8 x 31	10,3	28	341 + 1,4/-0,5	1,26	40,50	80,00
WN G80 E10	8 x 31	10,3	28	341 + 1,4/-0,5	1,26	24,00	40,00
WN G60	9 x 27	11	31	297 + 2,5/-0,8 + 1,3/-0,7	1,80	50,00	80,00
WN G80	9 x 27	11	31	297 +2,5/-0,8 + 1,3/-0,7	1,80	63,00	100,00
WN G80	9 x 31	11	31	341 + 1,4/-0,5	1,67	63,00	100,00
WN G60	10 x 28	14	35,9	308 + 1,4/-0,7	2,28	63,00	100,00
WN G80	10 x 31	11	33	341 + 1,4/-0,5	2,10	80,00	125,00
WN G40 E10	10 x 35	14	36	385 + 1,7/-0,9	2,00	20,00	40,00
WN G60	10 x 35	14	36	385 + 1,7/-0,9	2,00	63,00	100,00
WN G80	10 x 35	14	36	385 + 1,7/-0,9	2,00	80,00	125,00
WN G80 E10	10 x 38	12,5	34	418 + 1,9/-0,55	1,97	38,00	64,00
WN G40 E10	10 x 50	14	36	550 + 3,9/-2,2	1,80	20,00	40,00
WN G50	10 x 50	14	36	550 + 3,9/-2,2	1,80	40,00	80,00
WN G80	11 x 31	12,8	37,2	341 + 1,5/-0,8	2,70	95,00	150,00
WN G40 E10	13 x 45	18	47	495 + 2,2/-1,1	3,50	32,00	63,00
WN G60	13 x 45	18	47	495 + 2,2/-1,1	3,50	106,00	170,00
WN G40 E10	13 x 65	18,2	46,8	715 + 5,0/-2,9	3,07	32,00	64,00
WN G60	13 x 65	18,2	46,8	715 + 5,0/2,9	3,07	85,00	170,00
WN G40 E10	16 x 80	22,4	57,6	880 + 6,2/-3,5	4,70	50,00	100,00
WN G50	16 x 80	22,4	57,6	880 + 6,2/-3,5	4,70	105,00	210,00

 $\label{lem:proof-Breaking} Proof/Breaking \ load \ tolerance \ \mbox{-}10\% \ permissible \ depending \ on \ the \ batches.$ 

#### **Technical Datas**

Chain length L production tolerance =+0.3 / -0.15% = 0.45% total; this means that the difference between chain lengths of 10 m is max. 45 mm.

Chain length production tolerance  $\Delta$  S of matched chain lengths is 0,05% or max. 3 mm for two or multiple chain strand conveyors.

Chain length tolerance  $\triangle$  S of matched chain ends max. 0,5

#### Tolerance

for nominal diameter d: ca. +/- 0,4% for 1x pitch t: ca. 1,93% for measured length 11 x t: ca. 0,48% divided into +2/3 and -1/3

#### Example of the order

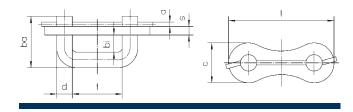
50 pcs. chains WN - A 8 x 31 G80 L = 281 links, supplied as matched pairs



### **VG Connecting links**

Connecting link with closing plate and locking pin for chains; run over pocket wheels as vertical mounted chain link; breaking load as corresponding chain in quality G80.

Surface finish: PCP-coated



VG Connecting links	Туре	d [mm]	t [mm]	ba [mm]	bi [mm]	c [mm]	s [mm]	a [mm]	l [mm]	Weight [kg/pc.]
0 8/61	VG 7 x 22	7	22	27	10	20	4	2,5	52	0,04
	VG 8 x 24	8	24	29	11	20	4	3	52	0,05
	VG 9 x 27	9	27	32	12	22	4	3	62	0,07
	VG 9/8 x 31	9	31	31	11	22	4	3	62	0,07
	VG 10 x 28	11	28	36	14	22	4	3	62	0,09
	VG 11/10 x 31	11	31	36	14	28	5	3	73	0,11

#### Scope of delivery

Connecting link, closing plate and locking pin

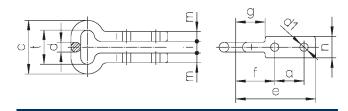
#### Example of the order

100 pcs. connecting links VG 8 x 31

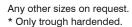
### **BM Flight attachments**

Flight attachment for use with chain ends and for bolting on the flight bars, forged, through hardened and with inductiv hardened interlink points of contact; hardening depth 0,1 x d; surface hardness min. 600 HV10; runs over chain sprockets or pocket wheels and plain chain wheels with or without groove.

Surface finish: PCP-coated



	DIVI													
BM Flight attachments	Туре	Chain d x t	t [mm]	d	i	m	С	е	f	g	а	n	d1	Weight [kg/pc.]
	BM 8 x 31*	8 x 31	31	8	21	10	47	62	30	11	20	20	9	0,18
	BM 10 x 35	10 x 35	35	10	12	10	55	82	40	30	30	22	8,5	0,25
	BM 13 x 45	13 x 45	45	13	15	12	71	100	50	34	35	28	12,5	0,50





#### Scope of delivery

Flight attachment without mounting bolts and nuts

#### Example of the order

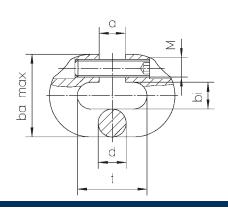
100 pcs. flight attachments BM 10 x 35



## Screw connecting links, Screw-VG

Connecting link for chains; run over sprockets and/or pocket wheels depending on the chain pitch; recommended assembly as vertical mounted chain links; breaking load apprx. 1,5 times of the proof load.

Surface finish: PCP-coated



Scre	w-VG

Screw connecting links Screw-VG	Туре	Chain d x t	d [mm]	t [mm]	ba max. [mm]	a [mm]	bi min. [mm]	Screw	Proof load [kn]	Weight [kg/pc.]
335	Schraub-VG 6 x 18,5	6 x 18,5 1)	6	18,5	20,6	6,7	7,4	M 4	13,3	0,013
	Schraub-VG 7 x 22	7 x 22	7	22	24	8	9	M 5	20	0,02
	Schraub-VG 8 x 24	8 x 24	8	24	27	9	10	M 5	24	0,03
	Schraub-VG 8 x 25,4	8 x 25,4	8	25,4	26	9	9	M 5	24	0,03
	Schraub-VG 9 x 27	9 x 27	9	27	31	10	12	M 6	30	0,05
	Schraub-VG 8/9 x 31	9 x 31	9	31	31	9,5	11	M 6	30	0,05
	Schraub-VG 10 x 28	10 x 28	10	28	34	11	14	M 7	37	0,06
	Schraub-VG 10 x 35	10 x 35	10	35	36	11	14	M 7	37	0,07
	Schraub-VG 10 x 50	10 x 50	10	50	36	11	14	M 7	37	0,09
	Schraub-VG 11 x 31	11 x 31 <sup>2)</sup>	11	31	37	12	14	M 8	45	0,08
	Schraub-VG 13 x 65	13 x 65	13	65	47	15	18	M 8	35	0,21
	Schraub-VG 16 x 80	16 x 80	16	80	58	17	22	M 10	80	0,38

Any other sizes on request.

#### Scope of delivery

Screw connecting link with screw

#### Example of the order

100 pcs. screw-VG 8 x 25,4

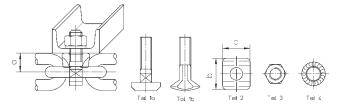
 $<sup>^{\</sup>mbox{\tiny 1)}}$  Screw-VG 6x18,5 also suitable for chain 5x18,5 as vertical mounted link.

<sup>&</sup>lt;sup>2)</sup> Screw-VG 11x31 also suitable for chain 10x31 as vertical mounted link.

### **SG Flight attachments**

Flight attachment for bolting on the flight bar; run over pocket wheels on horizontal mounted chain links.

Surface finish: natural black (nsw) or electro galvanized (gzn)



	Туре	Chain	Part 1 a + b Screw	а	b	С	Weight per set
SG Flight attachments		d x t		[mm]	[mm]	[mm]	[kg]
	SG 7 x 22	7 x 22	M 8 x 35	13,5	26	20,5	5,70
	SG 8 x 24	8 x 24	M 8 x 35	14	29	21	5,95
	SG 8 x 31	8 x 31	M 10 x 40	16	31	25	8,30
	SG 9 x 27	9 x 27	M 8 x 35	15,5	30	22	5,95
	SG 9 x 31	9 x 31	M 10 x 40	16,5	31	25	8,30
	SG 10 x 31	10 x 31	M 10 x 40	19,5	36	30	8,68
	SG 10 x 38	10 x 38	M 10 x 40	19,5	38	0	8,68
	SG 14 x 50	14 x 50	M 16 x 60	23	48	35	28,67

#### Scope of delivery per set

Part 1a highly durable special T-head bolt or

Part 1b highly durable profiled bolt

Part 2 intermediary fitting piece (drop-forged)

Part 3 nut or locking nut

Part 4 lock washer

#### Example of the order

200 pcs. flight attachments SG 8 x 31

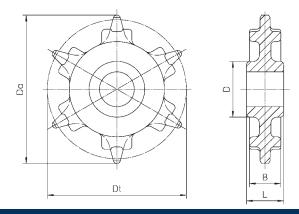


# IR Chain sprockets, various cast qualities

Chain sprockets in one piece - varios cast qualities.

#### Material

GG gray cast
GS 52 cast steel
GS 52 E case-hardened cast steel



ID

	Туре	Chain	No. of teeth	Pitch circle ø Dt	Out- side ø Da	Rim witdh B	Hub D	Hub L	Hub L1	Model type	Weight
IR Chain sprockets		d x t	z	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[kg/pc.]
	IR 8/5-31	8 x 31	5	100	104	29	60	40		D	1,20
	IR 8/6-31	8 x 31	6	120	126	25	60	40		D	1,65
	IR 8/7-31	8 x 31	7	139	152	25	70	45		С	2,40
	IR 8/10-31	8 x 31	10	198	205	29	80	50		D	4,35
	IR 10/10-35	10 DIN 764	10	224	235	35	83	65	30	D	5,60
	IR 10/8-38	10 x 38	8	195	208	35	90	60	27	D	5,00
	IR 10/10-38	10 x 38	10	243	257	35	98	80	26	D	8,40
	IR 10/6-50		6	193	214	35	70	50		D	4,00
	IR 10/8-50	10 DIN 762	8	256	269	36	118	70	50	D	9,20
	IR 10/11-50	10 DIN 762	11	350	380	37	82	90		D	16,10
	IR 13/8-65	13 DIN 762	8	333	344	48	128	102	31	D	18,70

Any other sizes on request.

For all listed dimensions the usual cast tolerances are valid.

#### Model type

- A full sprocket with hub on one side
- B full sprocket with hub on both sides
- C plate body sprocket with hub on both sides
- D arm body sprocket with hub on both sides

#### Scope of delivery

chain sprocket, bore dia. and key size as specified by the customer

#### Example of the order

4 pcs. chain sprockets IR 10/10-38 GS 52 E for chain 10 x 38, No. of teeth z=10 Hub bore dia =50 H7 and keyway acc. to DIN 6885

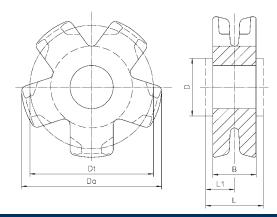
# KR Pocket wheels, various cast qualities

Pocket wheels - various cast qualities

#### Material

GG gray cast GS 52 cast steel

GS 52 E case-hardened cast steel



Hub

				KR							
	Туре	Chain	No. of po- ckets	Pitch circle ø Dt	Out- side ø Da	Rim witdh B	Hub D	Hub L	Hub L1	Mo- del Type	Weight
KR Pocket wheels		dxt	z	[mm]	[mm]	[mm]	[mm]	[mm]	[mm]		[kg/pc.]
	KR 5/8	5x18,5 DIN 766	8	107	113	33		33		Α	1,40
	KR 6/8	6x18,5 DIN 766	8	95	105	29	53	53	37	В	1,50
	KR 7/5	7x22 DIN 766	5	71	90	41		41		Α	0,90
	KR 7/6	7x22 DIN 766	6	85	99	42		42		Α	1,40
	KR 8/5	8x24 DIN 766	5	78	93	51		51		Α	1,50
	KR 8/6	8x24 DIN 766	6	93	108	49		49		Α	1,90
	KR 8/7	8x24 DIN 766	7	108	119	45		45		Α	2,95
	KR 8/5-31	8 x 31	5	100	115	46		46		Α	1,95
	KR 8/5-31	8 x 31	5	100	115	46	65	61	36	С	2,50
	KR 8/6-31	8 x 31	6	120	135	45		45		Α	2,95
	KR 8/7-31	8 x 31	7	139	156	46		46		Α	4,40
	KR 9/7	9x27 DIN 766	7	121	140	51		51		Α	3,30
	KR 10/8-35	10 x 35	8	179	203	53	100	60		С	16,00
	KR 10/10-38	10 x 38	10	243	266	40	110	60	40	С	20,00
	KR 13/9-45	16x56 DIN 764	9	259	296	65	170	90		С	24,00
	KR 14/6-50	14 x 50	6	193	226	76	100	113	72	В	15,00
	KR 16/6-56	16x56 DIN 764	6	217	245	88		88		Α	19,40

Any other sizes on request.

For all listed dimensions the usual cast tolerances are valid.

#### Model type

A full wheel without hub

B full wheel with hub on one side

C full wheel with hub on both sides

D plate body wheel with hub on both sides

#### Scope of delivery

pocket wheel, bore dia. and key size as specified by the customer

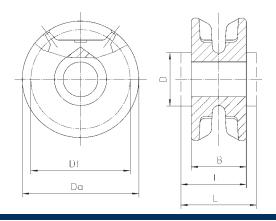
#### Example of the order

4 pcs. pocket wheels KR 10/10-38 GS 52 E for chain 10 x 38, No. of teeth z=10 Hub bore dia =50 H7 and keyway acc. to DIN 6885



## TR .. FB Pocket wheels, machined

For further applications, e.g. for hoists or any other type of chain drives machined pocket wheels with different materials and heat treatment can be supplied. Any number of pockets available, hub design, bore diameter, and key size can be specified by the customer.



TR .. F

	Туре	Chain	No. of teeth	Pitch circle ø Dt	Outside ø Da	Rim witdh B
R FB Pocket wheels		d x t	z	[mm]	[mm]	[mm]
	TR 7/5-22 FB	7 x 22	5	72	78,5	37
	TR 7/6-22 FB	7 x 22	6	85	95	35
6	TR 7/7-22 FB	7 x 22	7	99	110	30
	TR 8/5-24 FB	8 x 24	5	78	90	38
	TR 8/24-24 FB	8 x 24	24	366	374	40
	TR 8/30-24 FB	8 x 24	30	457	465	40
	TR 8/9-31 FB	8 x 31	9	179	187	40
	TR 9/5-27 FB	9 x 27	5	88	97	43
	TR 9/8-27 FB	9 x 27	8	138	160	45
	TR 10/7-28 FB	10 x 28	7	127	137	42
	TR 10/10-28 FB	10 x 28	10	179	190	54
	TR 10/12-28 FB	10 x 28	12	214	225	49
	TR 10/14-28 FB	10 x 28	14	250	262	50
	TR 14/10-50 FB	14 x 50	10	320	340	65
	TR 16/7-45 FB	16 x 45	7	203	219	90
	TR 16/8-45 FB	16 x 45	8	231	247	90
	TR 16/11-45 FB	16 x 45	11	231	247,5	90
	TR 20/6-70 FB	20 x 70	6	271	290	100
	TR 22/7-86 FB	22 x 86	7	388	420	90
	TR 26/8-92 FB	26 x 92	8	473	510	120
	TR 30/8-105 FB	30 x 105	8	540	600	140

Any other sizes on request.

#### Material

St 52-3, natural hard or case hardened CrMo-alloyed steel, through hardened MnCr-alloyed steel, case hardened

#### Scope of delivery

Pocket wheel machined, material has to be specified

#### Example of the order

4 pcs. pocket wheels TR 10/12-28 FB for chain 10 x 28, No. of teeth z=12 Hub length central = 80 mm (40 + 40)

Hub bore dia = 50 H7 and keyway acc. to DIN 6885

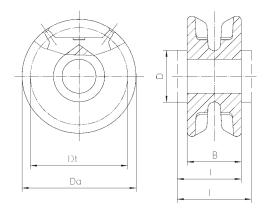
# TR Pocket wheels, in various cast qualities

The pocket wheels can be supplied in different model types with different hub designs.

#### Material

GG gray cast GS 52 cast steel

GS 52 E case-hardened cast steel



TF

	Туре	Chain	No. of teeth	Pitch circle ø Dt	Out- side ø Da	Rim witdh B	Hub D	Hub L	Model type- type	Weigh
R Pocket wheels		dxt	z	[mm]	[mm]	[mm]	[mm]	[mm]		pc.]
	TR 5/5	5 x 18,5 DIN 766	5	60	73	27		27	Α	0,55
	TR 5/8	5 x 18,5 DIN 766	8	95	107	28		28	Α	1,30
	TR 5/14	5 x 18,5 DIN 766	14	165	188	33	51	46	D	2,80
	TR 6/7	5,5u.6x18,5DIN 766	7	83,4	104	36		36	А	1,50
	TR 6/10	5,5u.6x18,5DIN 766	10	118	136	36	60	36	D	2,20
	TR 6/15	5,5u.6x18,5DIN 766	15	177	190	37	70	45	E	3,20
	TR 6/20	5,5u.6x18,5DIN 766	20	236	256	35	61	55	E	4,30
	TR 6/26	5,5u.6x18,5DIN 766	26	307	328	38	65	52	E	8,25
	TR 7/5	7 x 22 DIN 76	5	71	84	40		40	Α	1,10
	TR 7/6	7 x 22 DIN 766	6	85	100	41		41	Α	1,60
	TR 7/7	7 x 22 DIN 76	7	99	113	41		41	Α	2,10
	TR 8/5	8 x 24 DIN 766	5	78	94	43		43	Α	1,25
	TR 8/6	8 x 24 DIN 766	6	93	103	45		45	Α	1,90
	TR 8/6	8 x 24 DIN 766	6	93	104	45	41	83	С	2,30
	TR 8/7	8 x 24 DIN 766	7	108	123	40	52	40	D	1,85
	TR 8/8	8 x 24 DIN 766	8	123	130	47	60	59	С	4,00
	TR 8/12	8 x 24 DIN 766	12	184	200	38	74	55	D	4,30
	TR 8/12	8 x 24 DIN 766	12	184	198	46	85	62	В	9,60
	TR 8/17	8 x 24 DIN 766	17	262	279	44	86	61	D	9,20
	TR 8/19	8 x 24 DIN 766	19	290	311	47	210	55	С	26,00
	TR 8/5-31	8 x 31	5	100	114	46		46	Α	2,35
	TR 8/6-31	8 x 31	6	120	136	46		46	Α	3,50
	TR 8/9-31	8 x 31	9	179	194	49	80	54	D	5,40
	TR 8/9-31	8 x 31	9	179	197	45	101	59	D	7,30
	TR 9/5-31	9 x 31	5	100	127	50		50	Α	2,80
	TR 9/8	9 x 27 DIN 766	8	139	159	52	72	67	D	4,30
	TR 9/8-31	9 x 31	8	159	182	49	66	58	D	5,20
	TR 9,5/18	9,5 x 27 DIN 766	18	309	340	54	148	80	E	19,10
	TR 10/8	10 x 28 DIN 766	8	144	163	54	75	60	D	5,00
	TR 10/10	10 x 28 DIN 766	10	179	205	55	84	80	D	7,00
	TR 10/10	10 x 28 DIN 766	10	179	201	54	80	80	С	10,80
	TR 10/7-35	10 x35 DIN 764	7	157	184	60	83	70	С	10,00



	Туре	Chain	No. of teeth	Pitch circle ø Dt	Out- side ø Da	Rim witdh B	Hub D	Hub L	Model type- type	Weight
TR Pocket wheels		d x t	z	[mm]	[mm]	[mm]	[mm]	[mm]		pc.]
	TR 11/5		5	100	130	57	71	93	В	4,00
	TR 11/6	11 x 31 DIN 766	6	120	145	55		55	Α	3,70
	TR 11/12		12	238	260	60	80	70	С	18,80
	TR 11/16		16	317	330	61	162	112	D	30,20
	TR 13/5		5	117	139	71		71	Α	4,40
	TR 13/9	13 x 36 DIN 766	9	207	231	66	88	90	D	13,20
	TR 13/9		9	207	231	68	158	103	В	21,00
	TR 13/9		9	207	231	68	158	113	С	22,00
	TR 13/8-45		8	231	257	67	106	91	D	14,30
	TR 13/8-45	13 x 45 DIN 764	8	231	257	72		72	Α	21,80
	TR 16/7-56	16 x 56 DIN 764	7	251	288	76		76	Α	23,40
	TR 16/9-56		9	322	359	85	165	100	D	46,40

Any other sizes on request.

For all listed dimensions the usual cast tolerances are valid.

#### Model type

A full wheel without hub
B full wheel with hub on one side
C full wheel with hub on both sides
D plate body wheel with hub on both sides
E arm body wheel with hub on both sides

#### Scope of delivery

Pocket wheel, bore dia. and key size as specified by the customer

#### Example of the order

4 pcs. pocket wheels TR 8/9-31 GS 52 for chain 8 x 31, No. of teeth z=9 Hub bore dia =50 H7 and keyway acc. to DIN 6885

#### **Assembly and Maintenance Instructions**

Instructions 50–51 Questionnaire - Scraper Conveyor 52–53





# **Assembly and Maintenance Instructions**



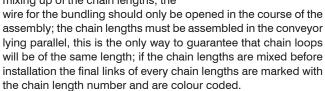
### Assembly of the drive and tail wheels

Pay attention to maintaining the correct chain center distance; Drive, guide and tail shafts must be installed parallel and all the wheels must be in line.

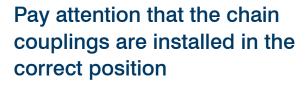
### Recommended assembly of the chain lengths

- Connect individual chain lengths with connecting links
- Install the connected chain lengths into the conveyor trough
- Connect into an endless loop
- Assemble the flight attachments and flight bars
- Tension the assembled system

The chain lengths are supplied bundled in pairs. In order to avoid mixing up of the chain lengths, the

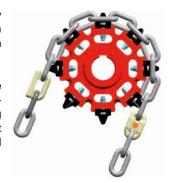


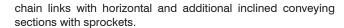
It is possible to get the chain lengths perfectly matched with the chain length numbers resp. the colour marking; during the assembly of the chain lengths please take care that the welds of the vertikal chain links point to the wheel center. The position of the other links can be as required.



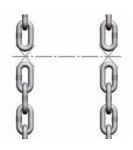
Chain couplings KHV can only be mounted as vertical chain links for all conveyors and chain systems.

Connecting links VHV are mounted as vertical or horizontal chain links and the locking lash with the marking must point outwards but only as horizontal





Shortening of the chain may be necessary to shorten the chain in order to obtain the exact required chain length of the make – up lengths, or if the chain lengthens due to wear. If chain shortening is necessary an even number of chain links (2, 4, 6, and so on) must be cut out from both chain loops. Links must be cut out with



a cutting disc or a burner. Pay attention not damage or overheat the neighboring links.

The pitch circle dia. of the sprocket RHV is adapted with shimplates to the individual teeth. Shimplates and new teeth can be installed without disassembly the chain. The thickness of the shimplates can only be determined by measuring the chain lengthened due to wear. As soon as the case hardened layer is worn off the wear will increase rapidly. Chains and sprocket teeth will wear out under normal operating condition at the same time.





Shimplates should be fitted when the chain is lengthened due to wear by apprx. 2,5%. The replacement of the chain is recommended with the quality grade E10 by a chain wear of apprx. 3,5% and quality grade E14 by 5%.

Pay attention to a uniform charging over the full trough width of the conveyor. Both chain loops must be equally loaded due to conveying material and chain tractive forces. Asymetric loading on the chain loops lead sooner or later of an increase in pitch due to wear and to slanting flight bars.

The conveying speed should be adjusted to the conveying capacity so that a maximum loading of the flight bars is achieved.

The chain tension must be checked regularly, especially during commissioning of new chains to check the elongation of the chain due to wear.



Basically, the chain tension should only be as high as necessary for trouble-free operation. Both chain loops must be equally tensioned. Excessive tension will increase the chain wear rate and will reduce the chain life.

Thread size	Nm	Lbf/ft.
M 6	10	7
M 8	25	18
M 10	49	35
M 12	85	62
M 14	135	98
M 16	210	152
M 18	300	217
M 20	425	307
M 22	580	420
M 24	730	528
M 27	1.100	796
M 30	1.450	1.049
M 33	1.900	1.136
M 36	2.450	1.772

Tightening torque Nm and Lbf/ft for bolts and hex. nuts strength class 8.8 and 8, Overall Friction Coefficient of  $\mu=0.14$ 

Conveyors designed with long sections of unsupported round steel chains require very high pre-tensioning loads. This can be avoided by supporting the chain with guide rails.

Densely packed material may cause the chain to disengaging from sprockets or idler rollers. To prevent this strong rigid chain guide assemblies should be located before, after and around the contact points of changes in chain travel.



### Questionnaire Scraper Conveyor

Fax to: +43 316 6070-100

Сс	mpany Date
Fre	om
Ph	one Fax
E-I	Mail
Na	me and No. of units
1.	Material handled
	Specific weight [kg/dm³] Grain size [mm]
	Temperature [°C] Moisture content
	Abrasiveness low normal very very
	Corrosiveness
	Chemical influences
2.	Capacity [t/h] or [m³/h]
	Chain speed [m/s]
3.	Shaft centers [m]
4.	Design of the conveyor
	Single chain strand conveyor ☐ Top chain strand conveyor ☐ Multiple chain strand conveyor ☐
5.	New installation ☐ Replacement component ☐ Modification ☐
	Reasons for the modification
6.	Service hours per year
7.	Power [kW] Max. pull per chain strand [Nm]
	Max. torque on the drive shaft [kN]
8.	Dimension of the conveyor trough
	Conveyor trough width W [mm] Chain centers X1 [mm]
	- W
	X1 X1



### Questionnaire Scraper Conveyor

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9. Attachment type		
10. Flight bar dimensions		
Length [mm]	Height [mm]	Weight [kg]
Number of flight bars	Flight spa	acing
11. Drive sprockets		
toothed	No. of teeth	Pitch circle dia
12. Chain dia. [mm]	Pitch [mm]	Quality —
Number of links per chain end _		
13. Design of the scraper conveyor		
A D A		C D A AI
B \( \tag{\text{X}} \\ \tag{\text{A}} \)		D D S A A1
Dimension of conveyor [mm]		
A =	A 1 =	A 2 =
H =	H 1 =	H 2 =
14. Notes		

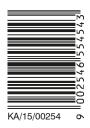
Note	



Note	



Dieses Produkt stammt aus nachhaltig bewirtschafteten Wäldern und kontrollierten Quellen.





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