

## CHAIN CONVEYORS

# Chain conveyors

## HORIZONTAL TRANSPORT OR TRANSPORT ON A SLIGHT UPWARD INCLINE

Chain conveyors transport floury, grainy and lumpy bulk materials horizontally or on a slight upward incline. Chain conveyors can also be used as receiving chain conveyors and for silo discharge.

Starting with our standard modular-system we adapt the chain conveyor to the product properties, the installation option and the process requirements.



[1]

### Brief description of chain conveyors

Motor mounting plate with geared motor and flexible coupling

Take-up end and drive end, outside varnished and inside untreated, or hot-dip galvanised

Troughs of strip-galvanised steel, outside varnished as an option and inside untreated

Return rollers made of plastic (standard for KF240, KF315 and KF350) or ball-bearing return rollers made of steel (standard for KF440 and KF560)

Wear bar made of highly wear-resistant steel, e.g. Hardox, guide rail made of St52, with plastic base no wear bar

Conveyor chain according to DIN 8165 with single bent-back plates

### Chain conveyor sizes and technical data

Chain conveyors		KF240	KF315	KF350	KF440	KF560
Trough width	mm	240	315	350	440	560
Intended JACOB pipework Ø	mm	200	250	300	350	n. Absprache
Capacity data						
Max. fill height	mm	210	320	410	410	410
Rated capacity * at 0.5 m/s	t/h	60	100	150	200	250
Max. capacity * at 0.5 m/s	t/h	60	120	175	220	280
Max. length at rated capacity	m	bis 52	bis 58	bis 50	bis 36	bis 28

Speed at 0.5 m/s	UpM	40	27	21	21	21
Material thicknesses						
Base plate made of steel with plastic base, steel/plastic	mm	4	4	4	4	5
	mm	3/10	3/10	3/10	4/12	4/12
Side plate	mm	3	3	3	3	3
Cover	mm	2	2	2	3	3
Chain						
Chain breaking force	N	90.000	140.000	140.000	180.000	180.000
Plates	mm	35 x 5	45 x 6	45 x 6	50 x 8	50 x 8
Chain pitch	mm	125	125	160	160	160
Chain wheel, number of teeth		6	9	9	9	9
Weights of the elements with chain						
Drive end without geared motor or material to be conveyed	kg	118	181	316	546	763
Take-up end without material to be conveyed	kg	71	117	168	265	362
Trough, empty	kg/m	40	56	75	98	133
Trough at max. fill height*	kg/m	78	132	183	233	305

\*With 750 kg/m<sup>3</sup> of grain





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